%RSD	1.045	1.504	9.095	1.249	11.71	5.630	8.337
#1	.3324	.0361	.0550	22.93	.0120	.0571	.0101
#2	.3306	.0371	.0533	22.54	.0149	.0639	.0116
#3	.3373	.0362	.0631	22.38	.0148	.0605	.0117

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1613	-.0053
SDev	.0036	.0016
%RSD	2.258	29.76
#1	.1640	-.0072
#2	.1572	-.0044
#3	.1627	-.0044

Analysis Report Wed 09-13-95 05:17:24 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @10 Operator: DRS
Run Time: 09/13/95 17:16:05
Comment: SOIL STD @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	6.874	.0220	.0892	.0877	.0008	.0353
SDev	.0012	.065	.0042	.0013	.0006	.0000	.0116
%RSD	17.35	.9475	19.08	1.463	.7125	2.184	32.82
#1	.0056	6.948	.0186	.0880	.0884	.0008	.0487
#2	.0070	6.846	.0267	.0889	.0873	.0008	.0275
#3	.0080	6.828	.0207	.0906	.0873	.0008	.0298

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.794	.0039	.0481	.0171	.0209	.0232	.0072
SDev	.014	.0013	.0121	.0006	.0010	.0018	.0011
%RSD	.7537	33.02	25.23	3.605	4.811	7.617	15.20
#1	1.809	.0024	.0344	.0167	.0220	.0217	.0060
#2	1.786	.0047	.0527	.0167	.0203	.0228	.0082
#3	1.786	.0047	.0574	.0178	.0203	.0252	.0075

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	3.403	1093.	.0137	.0094	1.486	.1409
SDev	.0004	.030	14.	.0020	.0009	.015	.0010
%RSD	16.05	.8921	1.282	14.83	9.884	.9812	.7129
#1	.0019	3.438	1109.	.0114	.0083	1.502	.1420
#2	.0025	3.385	1091.	.0152	.0100	1.474	.1406
#3	.0025	3.386	1081.	.0144	.0100	1.482	.1401

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	1.522	.0443	1.973	.1123	.0892	.1339
SDev	.0013	.030	.0107	.025	.0072	.0016	.0180
%RSD	17.83	1.954	24.15	1.283	6.442	1.756	13.44
#1	.0065	1.521	.0322	1.997	.1126	.0881	.1136
#2	.0085	1.552	.0481	1.947	.1049	.0885	.1477
#3	.0061	1.493	.0525	1.974	.1193	.0910	.1406

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0612	.0318	.0409	28.10	.1807	.0240	.0413
SDev	.0089	.0016	.0067	.24	.0429	.0002	.0064
%RSD	14.47	4.966	16.42	.8502	23.73	.8526	15.51
#1	.0510	.0315	.0453	28.37	.1325	.0242	.0340
#2	.0659	.0335	.0332	27.99	.1948	.0238	.0457
#3	.0668	.0304	.0442	27.93	.2147	.0239	.0443

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	.2934	.0397	.6771	.0165	.0263	.0041
SDev	.0040	.0030	.0153	.1453	.0007	.0081	.0005

%RSD	33.91	1.011	38.68	21.46	4.385	30.66	12.48
#1	.0163	.2968	.0220	.5126	.0157	.0239	.0035
#2	.0106	.2913	.0480	.7306	.0166	.0198	.0044
#3	.0086	.2921	.0490	.7882	.0171	.0354	.0044

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0190	.0131
SDev	.0012	.0014
%RSD	6.242	10.40
#1	.0178	.0116
#2	.0202	.0135
#3	.0190	.0142

Analysis Report Wed 09-13-95 05:21:05 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @2 Operator: DRS
Run Time: 09/13/95 17:19:46
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0208	30.62	.1135	.3763	.3753	.0032	.0941
SDev	.0017	.41	.0101	.0039	.0063	.0000	.0060
%RSD	8.201	1.352	8.910	1.045	1.672	.8818	6.417
#1	.0189	31.09	.1113	.3808	.3824	.0032	.0872
#2	.0213	30.46	.1245	.3732	.3729	.0032	.0980
#3	.0221	30.31	.1046	.3751	.3706	.0032	.0972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.273	.0106	.1347	.0624	.0889	.0834	.0196
SDev	.091	.0013	.0092	.0003	.0029	.0015	.0015
%RSD	1.105	12.61	6.859	.5556	3.214	1.821	7.722
#1	8.378	.0092	.1247	.0623	.0898	.0846	.0180
#2	8.234	.0119	.1365	.0621	.0857	.0839	.0200
#3	8.208	.0108	.1429	.0627	.0913	.0817	.0209

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	15.06	4562.	.0403	.0312	6.522	.6289
SDev	.0003	.18	69.	.0025	.0010	.063	.0070
%RSD	4.977	1.215	1.519	6.201	3.366	.9638	1.119
#1	.0063	15.27	4641.	.0374	.0324	6.595	.6370
#2	.0066	15.00	4537.	.0412	.0308	6.482	.6259
#3	.0069	14.92	4509.	.0422	.0304	6.489	.6239

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0247	6.256	.1209	8.767	.4578	.2905	.3293
SDev	.0002	.069	.0091	.112	.0133	.0073	.0283
%RSD	.9048	1.105	7.510	1.282	2.914	2.529	8.592
#1	.0245	6.335	.1113	8.893	.4721	.2820	.2983
#2	.0250	6.226	.1221	8.727	.4457	.2947	.3361
#3	.0247	6.208	.1293	8.679	.4556	.2948	.3536

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1612	.1036	.1179	127.8	.4988	.1002	.1157
SDev	.0129	.0057	.0011	1.7	.0417	.0015	.0131
%RSD	8.019	5.507	.9292	1.308	8.357	1.535	11.35
#1	.1465	.0986	.1166	129.7	.4507	.1020	.1035
#2	.1665	.1024	.1185	127.2	.5240	.0997	.1140
#3	.1706	.1098	.1185	126.5	.5217	.0991	.1296

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0405	1.288	.1509	1.845	.0624	.0813	.0140
SDev	.0022	.017	.0054	.107	.0003	.0132	.0007

%RSD	5.322	1.351	3.603	5.809	.5236	16.19	4.747
#1	.0380	1.307	.1561	1.722	.0621	.0811	.0132
#2	.0420	1.283	.1514	1.893	.0624	.0945	.0142
#3	.0414	1.273	.1452	1.920	.0627	.0682	.0145

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0894	.0510
SDev	.0008	.0006
%RSD	.8532	1.267
#1	.0900	.0510
#2	.0885	.0504
#3	.0897	.0516

Analysis Report QC Standard Wed 09-13-95 05:25:20 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 17:24:01
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS
JKS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4982	24.92	2.577	2.008	.5047	.0964	25.19
SDev	.0021	.08	.002	.008	.0014	.0002	.03
%RSD	.4293	.3374	.0709	.4005	.2781	.2438	.1315
#1	.4957	24.84	2.575	2.005	.5038	.0962	25.16
#2	.4997	25.01	2.577	2.002	.5063	.0966	25.23
#3	.4992	24.93	2.579	2.017	.5041	.0963	25.18
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.04	.4950	-.0365	1.021	1.015	.9977	-.0002
SDev	.06	.0063	.0033	.003	.004	.0041	.0002
%RSD	.2325	1.263	9.158	.3089	.3717	.4131	95.35
#1	24.98	.4882	-.0327	1.017	1.019	.9941	-.0004
#2	25.10	.5005	-.0389	1.023	1.015	.9969	-.0003
#3	25.03	.4963	-.0380	1.022	1.011	1.002	.0000
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.23	24.87	.0046	1.918	26.19	.5153
SDev	.0003	.04	.24	.0008	.013	.08	.0018
%RSD	15.30	.2193	.9812	17.89	.6861	.2897	.3497
#1	.0019	20.19	24.70	.0055	1.909	26.12	.5138
#2	.0016	20.28	25.15	.0043	1.933	26.27	.5173
#3	.0021	20.22	24.76	.0039	1.911	26.18	.5149
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021	23.96	.0096	1.053	.0832	2.596	-.0172
SDev	.005	.16	.0029	.006	.0014	.011	.0082
%RSD	.5271	.6651	29.86	.5363	1.741	.4221	47.85
#1	1.017	23.90	.0125	1.047	.0816	2.584	-.0098
#2	1.027	24.15	.0068	1.057	.0837	2.606	-.0261
#3	1.019	23.84	.0093	1.056	.0843	2.596	-.0158
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	2.525	2.567	18.87	-.0625	.5292	-.0018
SDev	.0037	.033	.011	.06	.0071	.0015	.0053
%RSD	115.2	1.320	.4244	.2993	11.43	.2756	292.6
#1	-.0074	2.487	2.555	18.81	-.0691	.5278	-.0002
#2	-.0015	2.541	2.575	18.92	-.0549	.5307	-.0077
#3	-.0006	2.548	2.572	18.87	-.0633	.5291	.0025
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0510	.9939	2.570	-.0226	1.006	.0340	-.0001
SDev	.0009	.0033	.008	.0270	.003	.0063	.0000
%RSD	1.707	.3322	.3139	119.2	.2490	18.53	13.14
#1	.0520	.9913	2.567	-.0384	1.004	.0401	-.0001
#2	.0504	.9976	2.563	-.0381	1.009	.0345	-.0001
#3	.0507	.9928	2.579	.0085	1.006	.0275	-.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.007	2.034
SDev	.001	.006
%RSD	.0972	.2710
#1	1.008	2.029
#2	1.006	2.040
#3	1.007	2.033
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 05:28:58 PM page

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 17:27:38
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	91.33	.1628	.0108	.0027	.0011	.1037
SDev	.0022	.75	.0147	.0012	.0003	.0000	.0190
%RSD	34.33	.8169	9.010	11.39	10.24	1.749	18.27
#1	.0051	91.60	.1527	.0095	.0024	.0011	.0963
#2	.0088	90.48	.1797	.0120	.0029	.0012	.1253
#3	.0050	91.90	.1561	.0110	.0027	.0011	.0896

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0622	.0103	-.0636	.0163	.0400	-.0424	.0084
SDev	.0027	.0022	.0110	.0021	.0012	.0025	.0015
%RSD	4.289	21.82	17.29	12.66	3.007	5.906	18.24
#1	.0602	.0090	-.0742	.0152	.0412	-.0443	.0069
#2	.0652	.0128	-.0522	.0187	.0400	-.0396	.0099
#3	.0611	.0089	-.0645	.0150	.0388	-.0432	.0083

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	18.22	4093.	.0186	.0107	.3066	.0033
SDev	.0004	.05	55.	.0026	.0004	.0238	.0004
%RSD	9.978	.2871	1.345	13.66	3.767	7.747	12.53
#1	.0033	18.19	4114.	.0162	.0111	.2952	.0034
#2	.0040	18.18	4030.	.0213	.0107	.3339	.0037
#3	.0035	18.28	4134.	.0185	.0103	.2907	.0029

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0175	.3550	.0450	48.05	.1267	.2719	-.1788
SDev	.0021	.0121	.0107	.15	.0253	.0152	.0268
%RSD	12.15	3.422	23.83	.3059	19.93	5.577	14.98
#1	.0161	.3412	.0357	47.92	.1093	.2643	-.1925
#2	.0199	.3601	.0567	48.02	.1557	.2894	-.1479
#3	.0164	.3638	.0425	48.21	.1151	.2621	-.1960

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0662	.0561	.0915	.1173	.4095	.0014	.0627
SDev	.0149	.0062	.0187	.0102	.0306	.0001	.0084
%RSD	22.45	11.13	20.48	8.679	7.465	10.43	13.42
#1	.0557	.0498	.0791	.1094	.3743	.0012	.0536
#2	.0832	.0623	.1131	.1288	.4250	.0015	.0702
#3	.0596	.0562	.0823	.1137	.4292	.0014	.0642

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6997	.0053	.2425	45.67	.0127	.0866	.0074
SDev	.0126	.0008	.0132	.27	.0016	.0082	.0005

%RSD	1.801	14.40	5.432	.5922	12.64	9.520	7.249
#1	.6864	.0047	.2296	45.81	.0115	.0930	.0071
#2	.7115	.0062	.2421	45.36	.0145	.0773	.0080
#3	.7012	.0051	.2559	45.84	.0121	.0894	.0071

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0267	9.340
SDev	.0041	.048
%RSD	15.49	.5159
#1	-.0276	9.355
#2	-.0222	9.286
#3	-.0303	9.379

Analysis Report QC Standard Wed 09-13-95 05:32:51 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 17:31:31
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Fail. Pd-1
DKS 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.1593	-.0094	.0048	.0004	.0003	.0055
SDev	.0010	.0094	.0039	.0016	.0002	.0000	.0118
%RSD	69.57	5.925	41.33	33.22	65.58	11.57	214.7
#1	.0026	-.1495	-.0131	.0043	.0005	.0003	.0157
#2	.0008	-.1601	-.0100	.0066	.0005	.0003	.0083
#3	.0009	-.1683	-.0053	.0035	.0001	.0003	-.0075
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	.0008	1.978	.0021	.0022	-.0041	1.988
SDev	.0010	.0009	.015	.0008	.0023	.0013	.015
%RSD	11.10	106.3	.7820	37.77	103.4	31.78	.7349
#1	.0105	-.0001	1.960	.0026	.0048	-.0031	1.972
#2	.0093	.0009	1.983	.0012	.0003	-.0056	1.999
#3	.0084	.0017	1.990	.0025	.0016	-.0037	1.994
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.971	.0051	-.0650	1.967	.0006	.0767	.0005
SDev	.014	.0013	.3098	.015	.0013	.0079	.0002
%RSD	.7293	25.23	476.2	.7747	217.0	10.33	36.18
#1	1.954	.0065	.2862	1.950	.0015	.0832	.0005
#2	1.980	.0041	-.1821	1.975	-.0009	.0790	.0006
#3	1.978	.0046	-.2992	1.977	.0011	.0679	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0155	1.966	.0113	-.0045	.0495	Q2.223
SDev	.0004	.0148	.021	.0039	.0240	.0076	.013
%RSD	222.2	95.43	1.074	34.26	530.7	15.26	.5758
#1	.0007	.0264	1.942	.0145	.0230	.0582	Q2.211
#2	.0000	.0216	1.976	.0123	-.0204	.0444	Q2.224
#3	-.0001	-.0014	1.980	.0070	-.0162	.0460	Q2.236
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.045	-.0018	.0028	.0663	2.012	.0009	Q1.793
SDev	.016	.0096	.0050	.0021	.021	.0001	.008
%RSD	.7924	522.9	176.1	3.130	1.058	9.043	.4305
#1	2.026	.0018	.0040	.0683	2.007	.0010	Q1.784
#2	2.057	-.0127	.0072	.0663	1.994	.0008	Q1.798
#3	2.050	.0054	-.0026	.0642	2.036	.0008	Q1.797
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.992	.0003	-.0028	Q8.286	-.0021	Q.4924	.9624
SDev	.024	.0001	.0102	.040	.0006	.0141	.0057
%RSD	.4848	25.13	365.6	.4886	29.48	2.865	.5937
#1	4.964	.0003	.0073	Q8.241	-.0015	Q.4828	.9558
#2	5.008	.0002	-.0025	Q8.299	-.0027	Q.4859	.9651
#3	5.004	.0002	-.0131	Q8.319	-.0020	Q.5086	.9662
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0157
SDev	.0006	.0010
%RSD	36.85	6.049
#1	.0015	-.0149
#2	.0011	-.0168
#3	.0023	-.0156
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 05:36:59 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 17:35:39
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Pd-Ni Sample Set
PASS
9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.1658	.0031	.0029	.0000	.0003	-.0027
SDev	.0009	.0051	.0092	.0012	.0001	.0000	.0052
%RSD	99.03	3.063	298.0	41.39	169.3	10.09	189.2
#1	.0016	-.1642	-.0058	.0043	.0001	.0003	-.0002
#2	.0014	-.1618	.0024	.0026	.0001	.0003	-.0087
#3	-.0001	-.1715	.0127	.0019	-.0000	.0003	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	.0011	1.966	.0032	.0022	-.0073	1.977
SDev	.0008	.0017	.018	.0006	.0014	.0005	.025
%RSD	9.903	154.9	.9029	20.32	63.53	7.019	1.259
#1	.0078	.0021	1.946	.0033	.0034	-.0070	1.955
#2	.0090	.0021	1.972	.0037	.0006	-.0070	1.973
#3	.0075	-.0009	1.979	.0025	.0027	-.0079	2.004
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.964	.0034	-.4293	1.959	-.0005	.0831	.0005
SDev	.024	.0016	.2440	.021	.0026	.0029	.0002
%RSD	1.226	45.78	56.83	1.079	556.1	3.504	35.10
#1	1.941	.0047	-.1821	1.937	.0023	.0829	.0004
#2	1.961	.0040	-.4358	1.963	-.0009	.0860	.0006
#3	1.989	.0017	-.6699	1.978	-.0029	.0802	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0096	1.959	.0070	-.0063	.0417	Q2.201
SDev	.0008	.0216	.022	.0027	.0188	.0052	.034
%RSD	48.54	226.4	1.134	39.10	297.4	12.57	1.544
#1	-.0024	.0172	1.935	.0088	.0125	.0438	2.162
#2	-.0008	.0263	1.963	.0085	-.0064	.0455	Q2.222
#3	-.0021	-.0149	1.979	.0039	-.0251	.0357	Q2.220
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00	•			10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.030	-.0010	.0066	.0647	2.005	.0009	Q1.795
SDev	.012	.0071	.0077	.0026	.021	.0001	.016
%RSD	.5736	677.9	116.4	4.021	1.045	16.34	.8647
#1	2.018	-.0022	-.0022	.0626	2.008	.0010	Q1.781
#2	2.030	-.0075	.0119	.0676	2.025	.0010	Q1.794
#3	2.041	.0066	.0101	.0639	1.983	.0007	1.812
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.994	.0003	-.0166	Q8.218	-.0018	Q.5207	.9596
SDev	.051	.0004	.0046	.089	.0009	.0066	.0102
%RSD	1.012	128.1	27.50	1.077	50.59	1.274	1.062
#1	4.946	.0006	-.0195	Q8.319	-.0010	Q.5283	.9502
#2	4.988	.0004	-.0189	Q8.177	-.0017	Q.5178	.9583
#3	5.047	-.0001	-.0113	Q8.157	-.0028	Q.5160	.9705
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0009	-.0190
SDev	.0005	.0007
%RSD	56.25	3.846
#1	.0012	-.0183
#2	.0011	-.0198
#3	.0003	-.0189
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 05:40:39 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/13/95 17:39:20
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0019	Q.0986	Q.0722	Q.1170	.0487	.0223	.0096
SDev	.0010	.0024	.0085	.0030	.0002	.0001	.0045
%RSD	53.35	2.403	11.76	2.598	.4238	.3023	46.59
#1	Q-.0029	Q.0984	Q.0627	Q.1148	.0489	.0224	.0048
#2	Q-.0018	Q.1011	Q.0747	Q.1205	.0488	.0223	.0136
#3	Q-.0009	Q.0964	Q.0791	Q.1157	.0485	.0223	.0103
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.19	.0122	-.0177	Q.0221	Q.0210	.0203	-.0026
SDev	.03	.0014	.0080	.0007	.0005	.0011	.0004
%RSD	.0889	11.26	45.07	3.178	2.427	5.516	13.61
#1	Q35.23	Q.0109	-.0264	Q.0219	Q.0216	Q.0191	-.0030
#2	Q35.18	.0123	-.0108	Q.0216	Q.0207	.0207	-.0024
#3	Q35.17	Q.0136	-.0158	.0229	Q.0207	.0212	-.0024
Errors	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1158	Q1.535	.0034	Q.0115	Q9.755	.0347
SDev	.0003	.0001	.103	.0012	.0013	.029	.0003
%RSD	74.25	.0770	6.726	34.36	11.25	.2960	.7331
#1	.0001	Q.1159	Q1.418	.0022	Q.0106	Q9.784	.0350
#2	.0006	Q.1158	Q1.613	.0035	Q.0110	Q9.755	.0345
#3	.0006	Q.1158	Q1.574	.0046	Q.0130	Q9.726	.0347
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1005	11.98	-.0013	.0592	.0134	Q.0234	-.0412
SDev	.0019	.04	.0020	.0028	.0132	.0103	.0051
%RSD	1.907	.3328	159.5	4.708	98.87	44.26	12.34
#1	Q.0991	12.02	-.0035	.0561	.0063	Q.0116	-.0430
#2	Q.0996	11.97	-.0007	.0603	.0052	Q.0308	-.0354
#3	.1027	11.95	.0004	.0613	.0287	Q.0277	-.0451
Errors	QC Fail	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0198	-.0156	Q.0035	.0263	-.1003	Q.2701	-.0052
SDev	.0051	.0048	.0005	.0043	.0123	.0011	.0068
%RSD	25.92	31.07	12.92	16.27	12.31	.3945	130.7
#1	-.0256	-.0209	Q.0039	.0221	-.0883	Q.2713	-.0122
#2	-.0156	-.0114	Q.0037	.0306	-.0997	Q.2695	.0013
#3	-.0184	-.0144	Q.0030	.0263	-.1130	Q.2694	-.0046
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0050	.0070	Q-.0014	-.0684	Q.0265	.0061	-.0026
SDev	.0040	.0002	.0132	.0562	.0003	.0065	.0000
%RSD	81.36	3.325	972.9	82.15	.9933	107.2	1.422
#1	-.0096	.0070	Q-.0160	-.1327	Q.0265	.0016	-.0026
#2	-.0023	.0069	Q.0025	-.0288	Q.0268	.0030	-.0026
#3	-.0029	.0073	.0095	-.0436	Q.0263	.0135	-.0026
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0858	-.0024
SDev	.0008	.0005
%RSD	.9458	20.00
#1	Q.0863	-.0027
#2	Q.0849	-.0025
#3	Q.0863	-.0018
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Wed 09-13-95 05:44:30 PM page 1

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/13/95 17:43:11
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	1.917	1.984	1.950	.9869	.9781	1.975
SDev	.0005	.008	.007	.013	.0021	.0029	.011
%RSD	59.12	.3916	.3325	.6782	.2162	.2911	.5360
#1	-.0011	1.910	1.990	1.962	.9885	.9799	1.986
#2	-.0010	1.925	1.985	1.952	.9877	.9796	1.974
#3	-.0003	1.915	1.977	1.936	.9844	.9748	1.965

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.918	.9728	-.0045	1.016	.5087	2.004	-.0003
SDev	.003	.0068	.0009	.003	.0044	.004	.0005
%RSD	.1402	.6971	20.66	.3015	.8621	.1878	210.3
#1	1.917	.9773	-.0042	1.016	.5039	2.007	-.0008
#2	1.921	.9650	-.0038	1.019	.5099	2.004	-.0003
#3	1.916	.9761	-.0056	1.013	.5125	2.000	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	1.969	4.852	.0010	2.044	2.062	1.011
SDev	.0000	.008	.089	.0019	.006	.007	.002
%RSD	4.965	.4109	1.843	183.2	.2840	.3469	.1696
#1	.0004	1.972	4.755	-.0011	2.039	2.069	1.011
#2	.0004	1.976	4.872	.0024	2.043	2.061	1.012
#3	.0004	1.960	4.930	.0017	2.051	2.055	1.009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.955	8.313	-.0018	2.049	4.665	2.029	.0017
SDev	.003	.048	.0042	.007	.033	.016	.0077
%RSD	.1560	.5717	230.6	.3176	.7069	.8022	461.9
#1	1.959	8.328	-.0063	2.042	4.653	2.011	-.0071
#2	1.953	8.259	.0019	2.051	4.702	2.041	.0073
#3	1.955	8.351	-.0011	2.055	4.639	2.037	.0048

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0052	1.965	4.969	-.0255	2.070	-.0180
SDev	.0035	.0047	.035	.007	.0094	.005	.0052
%RSD	844.6	89.26	1.800	.1415	36.79	.2517	29.06
#1	-.0038	-.0011	2.005	4.977	-.0148	2.074	-.0192
#2	-.0007	-.0103	1.937	4.969	-.0292	2.072	-.0225
#3	.0032	-.0043	1.954	4.962	-.0325	2.064	-.0123

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	-.0001	1.958	-.0298	.9622	.0110	-.0002
SDev	.0030	.0001	.025	.0207	.0014	.0082	.0002

%RSD	76.38	167.5	1.259	69.42	.1402	74.57	93.60
#1	.0056	-.0002	1.969	-.0536	.9627	.0018	-.0003
#2	.0005	-.0001	1.974	-.0199	.9632	.0174	.0000
#3	.0058	.0001	1.929	-.0159	.9607	.0138	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.009	-.0011
SDev	.002	.0002
%RSD	.2083	18.99
#1	1.009	-.0012
#2	1.011	-.0009
#3	1.007	-.0013

Analysis Report Wed 09-13-95 05:48:00 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 17:46:41
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	-.0089	-.0139	.0028	-.0003	.0001	-.0052
SDev	.0006	.0034	.0087	.0014	.0001	.0000	.0082
%RSD	22.69	37.99	62.66	51.04	50.51	12.68	157.9
#1	-.0021	-.0121	-.0196	.0019	-.0003	.0001	-.0019
#2	-.0025	-.0054	-.0039	.0044	-.0001	.0001	.0009
#3	-.0032	-.0092	-.0181	.0021	-.0004	.0001	-.0145

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0049	-.0013	-.0169	-.0002	-.0004	.0011	-.0017
SDev	.0017	.0007	.0043	.0003	.0019	.0022	.0009
%RSD	34.66	53.39	25.11	172.1	466.6	196.8	51.74
#1	.0044	-.0007	-.0190	.0002	-.0001	.0014	-.0018
#2	.0067	-.0011	-.0120	-.0004	-.0025	.0032	-.0008
#3	.0034	-.0020	-.0198	-.0003	.0013	-.0012	-.0025

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0018	-.8260	-.0032	-.0021	-.0005	-.0002
SDev	.0002	.0007	.1187	.0008	.0007	.0035	.0001
%RSD	24.18	37.96	14.37	25.45	32.49	740.6	67.33
#1	-.0007	-.0021	-.8846	-.0036	-.0029	-.0023	-.0002
#2	-.0005	-.0010	-.6895	-.0023	-.0017	.0036	-.0003
#3	-.0008	-.0022	-.9041	-.0037	-.0017	-.0027	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0148	-.0108	.0006	.0034	-.0078	-.0313
SDev	.0002	.0092	.0031	.0009	.0055	.0025	.0061
%RSD	36.27	62.09	28.36	150.4	158.7	32.32	19.58
#1	-.0008	-.0240	-.0132	-.0003	.0036	-.0069	-.0360
#2	-.0008	-.0150	-.0074	.0015	.0088	-.0058	-.0244
#3	-.0004	-.0056	-.0119	.0005	-.0021	-.0106	-.0336

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0180	-.0097	-.0106	.0052	-.0507	.0008	-.0149
SDev	.0024	.0054	.0087	.0025	.0118	.0001	.0079
%RSD	13.19	55.58	82.20	48.02	23.37	8.310	53.16
#1	-.0207	-.0148	-.0091	.0023	-.0616	.0008	-.0083
#2	-.0171	-.0040	-.0027	.0065	-.0381	.0009	-.0127
#3	-.0162	-.0104	-.0200	.0068	-.0523	.0008	-.0237

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0011	-.0064	-.2326	-.0016	.0007	-.0009
SDev	.0039	.0004	.0027	.0805	.0003	.0095	.0002

%RSD	855.9	35.29	42.30	34.60	17.23	1391.	23.92
#1	-.0030	-.0013	-.0092	-.2038	-.0015	.0053	-.0012
#2	-.0003	-.0006	-.0038	-.1705	-.0014	.0070	-.0008
#3	.0047	-.0012	-.0064	-.3236	-.0019	-.0102	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0020
SDev	.0002	.0006
%RSD	101.4	31.94
#1	-.0004	-.0020
#2	.0000	-.0014
#3	-.0003	-.0027

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Accession #: D196021969

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [NA2O2 ICP ANALYSIS] [SEC 7 OF 12]

Pages: 393

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 7 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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Na_2O_2 FUSION SEGMENT & QUARTER SEGMENT AND ACID DIGESTION DRAINABLE LIQUID ICP ANALYSIS

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DATE TO QC: 09/18/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - Na2O2 Fusion and Acid Digestion

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07932-A1 95-07932-A2 95-007932-A3 95-07932-A4 95-07932-A5
95-07941-N1 95-07941-N2 95-07941-N3
95-07945-N1 95-07946-N1 95-07947-N1 95-07948-N1

PNL ACL Quality Representative

9/19/95
Date

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295a

Samp Log#:	Seg 2 95-07932-A1 Sam	95-07932-A1 SamDil		Seg 2 95-07932-A2 Dup	95-07932-A2 DupDil		95-07932-A3 Blank		**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00		12.50			
ICP Dil:	10.00	50.00		10.00	50.00		1.00			
	<---Sample--->			<---Duplicate--->			<---Blank--->			
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	ug/mL		ug/mL	ug/mL
Ag	ND	ND		ND	ND		ND		0.015	0.1500
Al	35,454	36,139	2%	34,929	34,667	1%	(2)		0.060	0.6000
As	(30)	ND		(32)	ND		ND		0.080	0.8000
B	43	(43)		40	(41)		20	>MDL	0.020	0.2000
Ba	ND	ND		ND	ND		ND		0.010	0.1000
Be	ND	ND		ND	ND		ND		0.005	0.0500
Bi	ND	ND		ND	ND		ND		0.100	1.0000
Ca	ND	ND		ND	ND		ND		0.050	0.5000
Cd	ND	ND		ND	ND		ND		0.015	0.1500
Ce	ND	ND		ND	ND		ND		0.100	1.0000
Co	(9)	(8)		(9)	(9)		ND		0.010	0.1000
Cr	280	285	2%	277	277	0%	ND		0.020	0.2000
Cu	(4)	ND		(4)	ND		ND		0.010	0.1000
Dy	ND	ND		ND	ND		ND		0.050	0.5000
Eu	ND	ND		ND	ND		ND		0.100	1.0000
Fe	118	(123)		117	(120)		ND		0.020	0.2000
K	2,656	(2,716)		2,614	(2,713)		ND		2.000	20.0000
La	ND	ND		ND	ND		ND		0.050	0.5000
Li	ND	ND		ND	ND		ND		0.030	0.3000
Mg	ND	ND		ND	ND		ND		0.100	1.0000
Mn	ND	ND		ND	ND		ND		0.005	0.0500
Mo	(14)	ND		(14)	ND		ND		0.030	0.3000
Na	OvrRng	201,647		OvrRng	188,042	8%	24	>MDL	0.080	0.8000
Nd	ND	ND		ND	ND		ND		0.050	0.5000
Ni	310	319	3%	306	314	3%	ND		0.030	0.3000
P	467	(456)		462	(453)		ND		0.100	1.0000
Pb	91	(76)		91	(86)		ND		0.060	0.6000
Pd	ND	ND		ND	ND		ND		0.300	3.0000
Rh	ND	ND		ND	ND		ND		0.300	3.0000
Sb	ND	ND		ND	ND		ND		0.050	0.5000
Se	ND	ND		ND	ND		ND		0.100	1.0000
Si	ND	ND		ND	ND		(25)		0.500	5.0000
Sn	ND	ND		ND	ND		ND		1.000	10.0000
Sr	ND	ND		ND	ND		ND		0.005	0.0500
Te	ND	ND		ND	ND		ND		0.500	5.0000
Th	ND	ND		ND	ND		ND		0.800	8.0000
Ti	ND	ND		ND	ND		ND		0.005	0.0500
Tl	(76)	ND		(75)	ND		ND		0.500	5.0000
U	ND	ND		ND	ND		ND		2.000	20.0000
V	ND	ND		ND	ND		ND		0.010	0.1000
W	(63)	ND		ND	ND		ND		0.500	5.0000
Y	ND	ND		ND	ND		ND		0.010	0.1000
Zn	(7)	ND		(7)	ND		ND		0.020	0.2000
Zr	ND	ND		ND	ND		ND		0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) ">MDL" indicates analyte found in process blank above the MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
**** QC Results *****

09/12/95 : Analyzed
m091295a : File

Analyte ↓	Average A1 & A2 ug/mL	20% RPD	Flg	Samp Log# >>> / Spk Dil Fctr >> / Sam Dil Fctr >> / ICP Dil >>> PreSpk STD ug/mL	Seg 2 95-07932-A4 Smp+Spk 100.00 125.00 10.00 Spk Conc in Sam/Blk ug/mL	Net Spk Conc ug/mL	Rec	Spk Flg	95-07932-A5 Blk Spk 100.00 1.00 Net Blk Spk Cntrl ug/mL	Rec	10% Spk Flg	Post Spk PostSpk STD ug/mL	Post Spike ug/mL	Rec	Spk Flg
Ag	---														
Al	35,192	1%		1000	10.000	12.93	129.3%	N	8.619	86.2%	N				
As	---														
B	42	6%													
Ba	---														
Be	---														
Bi	---														
Ca	---			500	5.000	5.92	118.5%	N	4.236	84.7%					
Cd	---			25	0.250	0.24	95.4%		0.207	82.6%					
Ce	---														
Co	---														
Cr	279	1%		150	1.500	1.38	92.0%		1.314	87.6%					
Cu	---														
Dy	---														
Eu	---														
Fe	118	1%													
K	2,635	2%		2000	20.000	20.69	103.4%		16.984	84.9%					
La	---														
Li	---														
Mg	---														
Mn	---			10	0.100	0.09	94.4%		0.088	87.7%					
Mo	---														
Na	194,845	7%													
Nd	---														
Ni	308	1%		500	5.000	4.70	94.1%		4.539	90.8%					
P	465	1%													
Pb	91	1%		500	5.000	4.92	98.5%		4.373	87.5%					
Pd	---														
Rh	---														
Sb	---														
Se	---														
Si	---			1000	10.000	10.53	105.3%		9.833	98.3%					
Sn	---														
Sr	---														
Te	---														
Th	---														
Ti	---														
Tl	---														
U	---			2000	20.000	19.64	98.2%		17.555	87.8%					
V	---														
W	---														
Y	---														
Zn	---														
Zr	---			50	0.500	0.41	n/a		0.438	87.6%					

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Above 5 times MDL, precision is estimated at +/-10% and accuracy at +/-15%.
3) Where "Blank" results are >IDL the blank has been subtracted from the "Spike Control".
4) Spike Flag (N) indicates spike is outside the QC recovery criteria.
5) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
6) If spike is <25% of sample concentration, Rec is not calculated as indicated by the "n/a".
7) If sample or duplicate results are <MDL then average is not calculated (i.e., "---").

Template: TC-LAD.WK3 ICP RAW DATA --- IEC Corrected File: m091295a
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211

Analyst: D SAUDERS Reviewer: MW Thu 9/20/95

Sample ID:	A1 Sam 95-07932-	A1 SamDil 95-07932-	A2 Dup 95-07932-	A2 DupDil 95-07932-	A3 Blank 95-07932-	A4 Smp+Spk 95-07932-	A5 Blk Spk 95-07932-	Post Spk
ICP Dil:	10.00	50.00	10.00	50.00	1.00	10.00	1.00	
Run Time:	11:07	11:03	11:22	11:18	10:13	10:24	10:43	
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0021	-0.0020	0.0036	0.0002	-0.0012	0.0027	-0.0101	
Al	283.6347	57.8226	279.4312	55.4668	0.1267	284.9276	8.7455	
As	0.2428	0.0432	0.2598	0.0579	0.0087	0.2380	0.0029	
B	0.3431	0.0692	0.3233	0.0650	1.5837	0.3767	1.9268	
Ba	0.0010	-0.0002	0.0012	0.0003	0.0019	0.0013	0.0005	
Be	0.0024	0.0004	0.0024	0.0004	-0.0001	0.0025	-0.0001	
Bi	0.0415	0.0015	0.0439	0.0090	-0.0012	0.0408	-0.0180	
Ca	0.0035	-0.0280	0.0039	-0.0231	0.0126	0.5924	4.2357	
Cd	0.0007	-0.0010	-0.0007	-0.0001	-0.0013	0.0238	0.2066	
Ce	0.0072	-0.0107	0.0142	0.0008	-0.0106	0.0156	-0.0630	
Co	0.0703	0.0127	0.0711	0.0151	0.0005	0.0690	-0.0066	
Cr	2.2384	0.4563	2.2179	0.4438	0.0016	2.3764	1.3135	
Cu	0.0282	0.0010	0.0281	0.0025	-0.0020	0.0266	-0.0081	
Dy	0.0010	-0.0014	0.0024	0.0009	-0.0026	0.0006	-0.0139	
Eu	0.0009	-0.0003	0.0013	0.0004	-0.0006	0.0007	-0.0033	
Fe	0.9478	0.1971	0.9398	0.1922	0.0194	0.9499	0.0195	
K	21.2455	4.3461	20.9129	4.3404	-0.6821	23.3143	16.9840	
La	0.0044	-0.0020	0.0069	0.0019	-0.0029	0.0048	-0.0151	
Li	0.0086	0.0013	0.0098	0.0025	0.0001	0.0102	-0.0051	
Mg	0.0065	-0.0058	0.0112	0.0029	0.0060	0.0167	0.0654	
Mn	0.0022	0.0000	0.0024	0.0001	-0.0003	0.0117	0.0877	
Mo	0.1126	0.0217	0.1132	0.0229	0.0009	0.1141	-0.0062	
Na	1423.8091	322.6358	1398.4801	300.8676	1.9181	1429.4225	17.8419	
Nd	0.0057	-0.0114	0.0120	0.0013	-0.0150	0.0058	-0.0715	
Ni	2.4772	0.5109	2.4505	0.5025	0.0176	2.9476	4.5386	
P	3.7379	0.7303	3.6951	0.7253	0.0059	3.7179	-0.0312	
Pb	0.7248	0.1209	0.7296	0.1382	0.0003	1.2172	4.3727	
Pd	0.0387	-0.0071	0.0630	0.0310	-0.0267	0.0367	-0.3072	
Rh	0.0288	-0.0052	0.0402	0.0090	-0.0169	0.0282	-0.1052	
Sb	-0.0411	-0.0073	-0.0224	0.0008	0.0099	-0.0364	-0.0316	
Se	-0.0176	-0.0040	-0.0122	-0.0050	-0.0022	-0.0138	-0.0302	
Si	0.4542	0.0625	0.4451	0.0701	1.9945	1.5077	11.8280	
Sn	0.1584	-0.0226	0.1532	0.0134	-0.0360	0.1410	-0.2306	
Sr	0.0023	0.0006	0.0023	0.0008	0.0004	0.0024	-0.0002	
Te	-0.0453	-0.0255	-0.0339	-0.0090	0.0030	-0.0447	-0.0422	
Th	-0.0003	-0.0107	-0.0035	-0.0057	0.0016	0.0166	0.1962	
Ti	0.0005	-0.0008	0.0010	0.0000	0.0020	0.0005	-0.0007	
Tl	0.6049	0.1151	0.6021	0.1236	0.0083	0.6071	0.0213	
U	0.1054	-0.1631	0.2309	0.0610	-0.2183	1.9636	17.5554	
V	0.0006	-0.0017	0.0019	-0.0001	-0.0014	0.0006	-0.0086	
W	0.5039	0.0941	0.5000	0.1021	-0.0040	0.5232	-0.0161	
Y	0.0003	-0.0008	0.0009	-0.0001	-0.0010	0.0003	-0.0034	
Zn	0.0548	0.0101	0.0543	0.0104	0.0085	0.0564	-0.0021	
Zr	0.0015	-0.0002	0.0021	0.0003	-0.0005	0.0421	0.4378	

Analyze Date: 09/12/95 | File: m091295a
Project: TWRS | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP Run File: 95D255a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# / ID	95-07932-A1 Sam	95-07932-A1 SamDil	95-07932-A2 Dup	95-07932-A2 DupDil	95-07932-A3 Blank	95-07932-A4 Smp+Spk	95-07932-A5 Blk Spk	Post Spk
Sample Vol-mL	2.00	2.00	2.00	2.00	2.00	2.00		
Final Vol-mL	25.00	25.00	25.00	25.00	25.00	25.00	25.00	
Prep Factor	12.50	12.50	12.50	12.50	12.50	12.50		
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Spike Vol-mL						0.250	0.250	
Spike Dilution						100.0	100.0	
Spike ID Date						950830H901		
PSpk Dilution								
ICP Dilution	10.00	50.00	10.00	50.00	1.00	10.00	1.00	
Dil Factor	125.00	625.00	125.00	625.00	12.50	125.00	100.0	
Run Time	11:07	11:03	11:22	11:18	10:13	10:24	10:43	
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.264	-1.275	0.449	0.131	-0.015	0.339	-1.008	
Al	35454.338	36139.131	34928.894	34666.731	1.584	35615.951	874.555	
As	30.347	27.000	32.474	36.212	0.109	29.750	0.289	
B	42.881	43.238	40.411	40.637	19.796	47.094	192.683	
Ba	0.119	-0.094	0.148	0.194	0.023	0.158	0.049	
Be	0.302	0.250	0.302	0.269	-0.001	0.307	-0.006	
Bi	5.189	0.950	5.489	5.613	-0.015	5.097	-1.804	
Ca	0.432	-17.519	0.486	-14.444	0.157	74.046	423.570	
Cd	0.092	-0.638	-0.091	-0.056	-0.016	2.980	20.655	
Ce	0.894	-6.681	1.772	0.487	-0.132	1.949	-6.299	
Co	8.791	7.919	8.890	9.450	0.006	8.629	-0.657	
Cr	279.796	285.181	277.235	277.394	0.020	297.051	131.353	
Cu	3.521	0.631	3.515	1.575	-0.025	3.330	-0.814	
Dy	0.126	-0.862	0.305	0.575	-0.033	0.071	-1.385	
Eu	0.107	-0.188	0.156	0.231	-0.007	0.085	-0.334	
Fe	118.472	123.169	117.471	120.125	0.243	118.734	1.952	
K	2655.691	2716.287	2614.119	2712.762	-8.526	2914.285	1698.402	
La	0.551	-1.244	0.861	1.200	-0.036	0.596	-1.512	
Li	1.075	0.825	1.224	1.569	0.001	1.275	-0.511	
Mg	0.814	-3.637	1.395	1.819	0.075	2.090	6.541	
Mn	0.279	0.025	0.304	0.063	-0.004	1.459	8.766	
Mo	14.071	13.563	14.146	14.300	0.011	14.266	-0.622	
Na	177976.135	201647.356	174810.012	188042.256	23.977	178677.810	1784.186	
Nd	0.711	-7.100	1.496	0.838	-0.187	0.721	-7.152	
Ni	309.646	319.294	306.315	314.087	0.220	368.451	453.858	
P	467.239	456.419	461.881	453.325	0.074	464.739	-3.115	
Pb	90.603	75.556	91.194	86.400	0.004	152.152	437.271	
Pd	4.842	-4.425	7.876	19.369	-0.333	4.591	-30.723	
Rh	3.594	-3.256	5.026	5.606	-0.211	3.525	-10.521	
Sb	-5.136	-4.544	-2.795	0.500	0.123	-4.554	-3.157	
Se	-2.197	-2.481	-1.530	-3.150	-0.027	-1.726	-3.022	
Si	56.779	39.069	55.641	43.813	24.931	188.463	1182.796	
Sn	19.796	-14.144	19.148	8.362	-0.450	17.621	-23.063	
Sr	0.284	0.369	0.291	0.475	0.005	0.294	-0.024	
Te	-5.665	-15.938	-4.238	-5.644	0.037	-5.590	-4.220	
Th	-0.035	-6.694	-0.431	-3.550	0.020	2.080	19.618	
Ti	0.056	-0.481	0.125	0.000	0.025	0.068	-0.071	
Tl	75.619	71.937	75.269	77.262	0.104	75.883	2.126	
U	13.180	-101.956	28.866	38.119	-2.729	245.445	1755.540	
V	0.069	-1.088	0.231	-0.031	-0.017	0.077	-0.857	
W	62.986	58.838	62.495	63.813	-0.049	65.395	-1.606	
Y	0.041	-0.500	0.107	-0.081	-0.012	0.041	-0.340	
Zn	6.855	6.313	6.789	6.481	0.106	7.046	-0.208	
Zr	0.189	-0.119	0.259	0.188	-0.007	5.258	43.782	

|<ICP Dil>|
|<-----Adjusted for process dilution factor-----<Only>|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295b
Report Page 1 of 1

Samp Log#:	Seg 3 95-07935- A1 Sam	95-07935- A1 SamDil		Seg 3 95-07935- A2 Dup	95-07935- A2 DupDil			**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00				
ICP Dil:	10.00	50.00		10.00	50.00				
	<---------Sample--------->			<---------Duplicate--------->			20%		
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	RPD Flg	ug/mL	ug/mL
Ag	ND	ND		ND	ND			0.015	0.1500
Al	37,441	37,802	1%	37,429	38,529	3%	0%	0.060	0.6000
As	(34)	ND		(32)	ND			0.080	0.8000
B	44	(46)		45	(49)		0%	0.020	0.2000
Ba	ND	ND		ND	ND			0.010	0.1000
Be	ND	ND		ND	ND			0.005	0.0500
Bi	ND	ND		ND	ND			0.100	1.0000
Ca	ND	ND		ND	ND			0.050	0.5000
Cd	ND	ND		ND	ND			0.015	0.1500
Ce	ND	ND		ND	ND			0.100	1.0000
Co	(9)	(9)		(9)	(9)			0.010	0.1000
Cr	294	304	3%	291	300	3%	1%	0.020	0.2000
Cu	(10)	(8)		(10)	(8)			0.010	0.1000
Dy	ND	ND		ND	ND			0.050	0.5000
Eu	ND	ND		ND	ND			0.100	1.0000
Fe	97	(101)		104	(109)		7%	0.020	0.2000
K	2,780	(2,787)		2,811	(2,836)		1%	2.000	20.0000
La	ND	ND		ND	ND			0.050	0.5000
Li	ND	ND		ND	ND			0.030	0.3000
Mg	ND	ND		ND	ND			0.100	1.0000
Mn	ND	ND		ND	ND			0.005	0.0500
Mo	(15)	ND		(15)	ND			0.030	0.3000
Na	OvrRng	185,321		OvrRng	194,961		5%	0.080	0.8000
Nd	ND	ND		ND	ND			0.050	0.5000
Ni	238	247	4%	243	256	5%	2%	0.030	0.3000
P	452	(453)		457	(454)		1%	0.100	1.0000
Pb	100	(99)		97	(88)		2%	0.060	0.6000
Pd	ND	ND		ND	ND			0.300	3.0000
Rh	ND	ND		ND	ND			0.300	3.0000
Sb	ND	ND		ND	ND			0.050	0.5000
Se	ND	ND		ND	ND			0.100	1.0000
Si	(108)	ND		(119)	ND			0.500	5.0000
Sn	ND	ND		ND	ND			1.000	10.0000
Sr	(2)	ND		(5)	(5)			0.005	0.0500
Te	ND	ND		ND	ND			0.500	5.0000
Th	ND	ND		ND	ND			0.800	8.0000
Ti	ND	ND		ND	ND			0.005	0.0500
Tl	(77)	ND		(77)	ND			0.500	5.0000
U	ND	ND		ND	ND			2.000	20.0000
V	ND	ND		ND	ND			0.010	0.1000
W	776	(780)		772	(777)		1%	0.500	5.0000
Y	ND	ND		ND	ND			0.010	0.1000
Zn	(12)	ND		(12)	ND			0.020	0.2000
Zr	ND	ND		ND	ND			0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", then RPD >20% AND both sample and duplicate results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/ 95D255a

Analyze Date: 09/12/95 | File: m091295b
Project: TWRS | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP Run File: 95D255a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# ID	95-07935-A1 Sam	95-07935-A1 SamDil	95-07935-A2 Dup	95-07935-A2 DupDil				Post Spk
Sample Vol-mL	2.00	2.00	2.00	2.00				
Final Vol-mL	25.00	25.00	25.00	25.00				
Prep Factor	12.50	12.50	12.50	12.50				
Add'n Prep Dil	1.00	1.00	1.00	1.00				
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	10.00	50.00	10.00	50.00				
Dil Factor	125.00	625.00	125.00	625.00				
Run Time	11:34	11:30	12:01	11:57				
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.642	-0.794	-0.668	-2.013				
Al	37441.001	37802.419	37429.069	38528.969				
As	33.904	39.313	32.468	27.131				
B	44.395	46.481	44.576	48.506				
Ba	0.178	0.294	0.306	0.269				
Be	0.327	0.294	0.320	0.275				
Bi	5.371	7.363	4.410	7.656				
Ca	3.184	-11.581	2.799	-15.031				
Cd	-0.263	-0.813	0.038	-0.344				
Ce	2.682	3.319	2.406	-4.650				
Co	8.815	9.237	8.865	8.950				
Cr	293.886	303.569	290.969	300.081				
Cu	9.645	7.800	9.930	8.431				
Dy	0.449	0.700	0.411	-0.225				
Eu	0.184	0.294	0.181	0.050				
Fe	97.076	101.175	103.794	109.362				
K	2779.702	2786.744	2810.706	2836.069				
La	1.100	1.688	1.111	0.194				
Li	0.984	1.788	1.417	1.044				
Mg	4.161	5.756	3.104	1.056				
Mn	0.365	0.206	0.467	0.269				
Mo	15.184	15.900	14.857	15.200				
Na	173341.017	185321.269	173968.505	194960.687				
Nd	2.356	3.287	2.360	-3.269				
Ni	238.321	247.450	243.264	256.394				
P	451.788	452.881	456.930	453.719				
Pb	99.541	99.069	97.175	87.913				
Pd	10.700	18.556	10.372	3.300				
Rh	5.970	10.487	5.622	1.200				
Sb	-3.340	6.787	-5.015	-4.925				
Se	-1.225	4.087	-1.053	1.612				
Si	107.500	95.781	118.890	136.806				
Sn	19.705	30.150	16.629	-24.250				
Sr	1.719	1.919	4.760	5.031				
Te	-4.145	-5.500	-4.362	-11.969				
Th	0.166	0.019	0.369	1.375				
Ti	0.188	0.156	0.194	-0.188				
Tl	77.359	80.869	77.276	85.675				
U	43.601	47.369	51.080	-17.669				
V	0.251	0.069	0.243	-0.512				
W	775.961	779.750	771.985	776.837				
Y	0.136	0.094	0.120	-0.169				
Zn	11.545	11.650	11.553	12.013				
Zr	0.305	0.063	0.419	-0.200				

|<ICP Dil> < Only >|

Template: TC-LAD.WK3 ICP RAW DATA --- IEC Corrected File: m091295b
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211

Analyst: D SANDERS Reviewer: MW Thru 9/20/95

Sample ID:	A1 Sam 95-07935-	A1 SamDil 95-07935-	A2 Dup 95-07935-	A2 DupDil 95-07935-				Post Spk
ICP Dil:	10.00	50.00	10.00	50.00				
Run Time:	11:34	11:30	12:01	11:57				
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0051	-0.0013	-0.0053	-0.0032				
Al	299.5280	60.4839	299.4325	61.6463				
As	0.2712	0.0629	0.2597	0.0434				
B	0.3552	0.0744	0.3566	0.0776				
Ba	0.0014	0.0005	0.0025	0.0004				
Be	0.0026	0.0005	0.0026	0.0004				
Bi	0.0430	0.0118	0.0353	0.0123				
Ca	0.0255	-0.0185	0.0224	-0.0241				
Cd	-0.0021	-0.0013	0.0003	-0.0006				
Ce	0.0215	0.0053	0.0192	-0.0074				
Co	0.0705	0.0148	0.0709	0.0143				
Cr	2.3511	0.4857	2.3277	0.4801				
Cu	0.0772	0.0125	0.0794	0.0135				
Dy	0.0036	0.0011	0.0033	-0.0004				
Eu	0.0015	0.0005	0.0015	0.0001				
Fe	0.7766	0.1619	0.8304	0.1750				
K	22.2376	4.4588	22.4856	4.5377				
La	0.0088	0.0027	0.0089	0.0003				
Li	0.0079	0.0029	0.0113	0.0017				
Mg	0.0333	0.0092	0.0248	0.0017				
Mn	0.0029	0.0003	0.0037	0.0004				
Mo	0.1215	0.0254	0.1189	0.0243				
Na	1386.7281	296.5140	1391.7480	311.9371				
Nd	0.0189	0.0053	0.0189	-0.0052				
Ni	1.9066	0.3959	1.9461	0.4102				
P	3.6143	0.7246	3.6554	0.7259				
Pb	0.7963	0.1585	0.7774	0.1407				
Pd	0.0856	0.0297	0.0830	0.0053				
Rh	0.0478	0.0168	0.0450	0.0019				
Sb	-0.0267	0.0109	-0.0401	-0.0079				
Se	-0.0098	0.0065	-0.0084	0.0026				
Si	0.8600	0.1532	0.9511	0.2189				
Sn	0.1576	0.0482	0.1330	-0.0388				
Sr	0.0138	0.0031	0.0381	0.0081				
Te	-0.0332	-0.0088	-0.0349	-0.0192				
Th	0.0013	0.0000	0.0030	0.0022				
Ti	0.0015	0.0003	0.0015	-0.0003				
Tl	0.6189	0.1294	0.6182	0.1371				
U	0.3488	0.0758	0.4086	-0.0283				
V	0.0020	0.0001	0.0019	-0.0008				
W	6.2077	1.2476	6.1759	1.2429				
Y	0.0011	0.0002	0.0010	-0.0003				
Zn	0.0924	0.0186	0.0924	0.0192				
Zr	0.0024	0.0001	0.0034	-0.0003				

Project: TWRS
Procedure: PNL-AL0-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

Core 99

File: m091295c
Analyzed: 09/12/95

	Seg 1		Seg 1	Seg 2D	Seg 3A		Seg 1
Sam Log#:	95-07941-		95-07941-	95-07943-	95-07944-	95-07941-	95-07941-
Split#:	N1-Smp		N2-Dup	N1-Smp	N1-Smp	N3-Blk	N1-Smp-PS
ICP Dil:	2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr:	1511.7	7558.6	2114.2	886.5	1506.0	1366.8	3779.3
Run Time:	15:39	15:35	15:59	16:10	17:10	15:30	15:45

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Sample ug/g	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND		ND	ND	ND	(0.08)	
0.060	Al	104,424	115,669	11	135,410	26 *	60,889	25,702	(123)	33.00	66.0%
0.080	As	(167)	ND		(256)		(112)	ND	ND	(0.22)	
0.020	B	694	(779)		1,038	40 *	(147)	635	417	0.03	
0.010	Ba	(15)	ND		(23)		(13)	(17)	ND	ND	
0.005	Be	ND	ND		ND		ND	ND	ND	ND	
0.100	Bi	ND	ND		ND		ND	ND	ND	ND	
0.050	Ca	3,071	(3,150)		3,978	26 *	1,759	3,257	2,665	20.45	81.8%
0.015	Cd	ND	ND		ND		ND	ND	ND	1.09	87.5%
0.100	Ce	ND	ND		ND		ND	ND	ND	(0.59)	
0.010	Co	(20)	ND		(35)		(19)	(22)	ND	(0.05)	
0.020	Cr	(127)	ND		(169)		(176)	(154)	(35)	6.30	84.0%
0.010	Cu	(90)	(83)		(43)		(20)	(32)	(16)	(0.00)	
0.050	Dy	ND	ND		ND		ND	ND	ND	ND	
0.100	Eu	ND	ND		ND		ND	ND	ND	ND	
0.020	Fe	1,028	(1,190)		1,411	31 *	544	1,247	(195)	0.03	
2.000	K	(4,498)	ND		(8,232)		(4,416)	(3,879)	ND	(87.97)	88.0%
0.050	La	ND	ND		ND		ND	ND	ND	ND	
0.030	Li	(52)	ND		(80)		(60)	(48)	ND	ND	
0.100	Mg	(186)	ND		(313)		(128)	ND	ND	(0.79)	
0.005	Mn	(24)	ND		(29)		(13)	(15)	ND	0.42	83.7%
0.030	Mo	ND	ND		ND		ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a		n/a	n/a	n/a	n/a	
0.050	Nd	(125)	ND		(232)		(108)	(127)	(88)	(0.32)	
0.030	Ni	473	(530)		674	35 *	532	836	(314)	21.52	86.1%
0.100	P	3,821	(4,259)		(715)		(233)	(490)	ND	0.04	
0.060	Pb	(232)	ND		(345)		(177)	(177)	(85)	22.63	90.5%
0.300	Pd	ND	ND		ND		ND	ND	ND	ND	
0.300	Rh	ND	ND		ND		ND	ND	ND	ND	
0.050	Sb	ND	ND		(111)		(58)	ND	ND	ND	
0.100	Se	ND	ND		ND		ND	ND	ND	ND	
0.500	Si	(2,650)	ND		(4,150)		(1,127)	(1,086)	ND	41.99	84.0%
1.000	Sn	ND	ND		ND		ND	ND	ND	ND	
0.005	Sr	(58)	(67)		(70)		(35)	310	(41)	(0.00)	
0.500	Te	ND	ND		ND		ND	ND	ND	ND	
0.800	Th	ND	ND		ND		ND	ND	ND	ND	
0.005	Ti	(45)	(56)		(70)		(22)	(20)	(10)	(0.03)	
0.500	Tl	ND	ND		ND		ND	ND	ND	ND	
2.000	U	ND	ND		ND		ND	ND	ND	(85.86)	85.9%
0.010	V	(57)	(79)		(55)		(15)	(19)	ND	(0.05)	
0.500	W	ND	ND		ND		ND	ND	ND	ND	
0.010	Y	ND	ND		ND		ND	ND	ND	ND	
0.020	Zn	(42)	ND		(50)		(32)	(69)	ND	ND	
0.010	Zr	n/a	n/a		n/a		n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Analyzed Date: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D255a

File: m091295c
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07941-N1-Smp	95-07941-N1-SmpDil	95-07941-N2-Dup	95-07943-N1-Smp	95-07944-N1-Smp	95-07941-N3-Blk	95-07941-N1-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1323	0.1323	0.0946	0.2256	0.1328	0.1463	0.1323
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL								
Dil: Vol-mL								
Prep Factor		755.86	755.86	1057.08	443.26	753.01	683.41	755.86
Spike ID								950830H901
Spike PreDil'n								20.0
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr		1511.7	7558.6	2114.2	886.5	1506.0	1366.8	3779.3
Run Time		15:39	15:35	15:59	16:10	17:10	15:30	15:45
ug/g	Ag	17.8	39.4	23.8	7.9	8.8	-22.7	63.5
	Al	104423.7	115669.2	135410.4	60889.3	25702.0	123.0	129366.2
	As	167.1	184.4	256.2	112.1	79.0	29.4	334.1
	B	693.7	778.5	1038.0	146.8	634.8	416.7	673.9
	Ba	15.4	21.4	23.1	13.4	16.7	8.3	24.6
	Be	0.7	1.1	1.1	0.6	0.4	0.5	2.5
	Bi	60.0	61.5	110.7	60.2	58.0	48.2	186.1
	Ca	3070.6	3150.1	3977.7	1758.6	3256.7	2665.2	18524.3
	Cd	7.4	9.4	9.7	5.6	5.3	5.3	826.6
	Ce	148.6	283.7	98.9	-8.8	27.9	-427.2	448.5
	Co	20.0	34.0	34.5	19.2	21.5	11.9	60.1
	Cr	127.2	147.5	169.2	176.0	154.2	35.1	4888.5
	Cu	90.1	82.9	42.8	20.1	31.9	16.3	93.6
	Dy	18.5	38.1	36.9	18.3	15.7	17.2	54.3
	Eu	5.9	12.4	12.2	5.9	5.2	6.4	18.9
	Fe	1028.3	1190.5	1411.1	544.0	1246.9	195.1	1053.6
	K	4498.3	8126.8	8232.3	4415.5	3878.6	2406.9	70989.0
	La	36.4	63.9	64.1	30.1	30.1	20.9	115.2
	Li	51.7	74.9	80.0	59.8	48.0	20.0	86.8
	Mg	186.3	249.5	313.2	127.7	119.5	82.6	781.3
	Mn	23.9	28.0	28.8	12.7	15.4	6.1	340.4
	Mo	24.4	29.3	37.8	19.0	26.5	9.7	40.5
	Na	5990950.4	8561192.4	8094269.2	3386285.7	6520463.7	5721492.3	7001633.9
	Nd	124.6	234.2	232.5	108.3	127.3	87.7	367.2
	Ni	472.7	529.9	674.4	532.2	835.9	314.3	16742.2
	P	3821.3	4259.0	714.9	232.9	489.6	104.1	3849.3
	Pb	231.8	333.6	344.9	176.6	177.4	85.1	17336.9
	Pd	327.2	662.1	583.6	259.8	225.9	32.6	612.8
	Rh	152.6	331.0	285.8	129.0	116.0	68.9	472.5
	Sb	71.6	122.8	111.0	58.4	59.2	54.4	170.3
	Se	72.3	43.5	154.1	66.6	79.4	61.8	239.0
	Si	2649.9	2827.8	4149.7	1127.0	1086.0	197.5	34391.5
	Sn	476.8	1101.4	903.4	434.6	315.4	350.9	1775.8
	Sr	57.8	66.7	70.3	35.0	309.8	41.2	59.1
	Te	70.6	160.6	151.5	63.6	60.6	36.5	234.7
	Th	4.2	-15.0	69.6	55.4	48.6	197.5	912.5
	Ti	44.6	55.9	69.7	22.2	20.0	9.7	64.3
	Tl	255.4	282.9	351.9	163.3	92.6	34.1	418.9
	U	2040.1	4117.5	3333.3	1509.0	1861.6	53.3	64895.5
	V	56.8	79.2	54.8	14.8	19.0	10.1	93.3
	W	63.4	151.0	82.7	44.8	69.0	39.7	184.8
	Y	7.3	14.6	14.4	7.0	7.2	6.4	27.9
	Zn	42.2	44.2	49.9	32.4	69.0	14.0	36.7
ug/g	Zr	317.7	382.5	10600.6	8360.7	5421.6	31411.1	1824.9

Template: TC-NA202 ICP RAW DATA -- IEC Corrected File: m091295c
Reported: 09/15/95

Raw Data
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Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D. SANDERS Reviewer: MW Thu 9/20/95

Sample ID: / Split ID:		95-07941-N1-Smp	95-07941-N1-SmpDil	95-07941-N2-Dup	95-07943-N1-Smp	95-07944-N1-Smp	95-07941-N3-Blk	95-07941-N1-Smp-PS	Post Spk Conc ug/mL
Run Time:		15:39	15:35	15:59	16:10	17:10	15:30	15:45	
(ug/mL)	Ag	0.0118	0.0052	0.0113	0.0089	0.0059	-0.0166	0.0168	
	Al	69.0763	15.3030	64.0491	68.6832	17.0662	0.0900	34.2303	1000
	As	0.1105	0.0244	0.1212	0.1264	0.0525	0.0215	0.0884	
	B	0.4589	0.1030	0.4910	0.1656	0.4215	0.3049	0.1783	
	Ba	0.0102	0.0028	0.0109	0.0151	0.0111	0.0061	0.0065	
	Be	0.0004	0.0001	0.0005	0.0007	0.0003	0.0004	0.0007	
	Bi	0.0397	0.0081	0.0524	0.0679	0.0385	0.0353	0.0493	
	Ca	2.0312	0.4168	1.8815	1.9837	2.1624	1.9500	4.9015	500
	Cd	0.0049	0.0013	0.0046	0.0063	0.0035	0.0039	0.2187	25
	Ce	0.0983	0.0375	0.0468	-0.0100	0.0185	-0.3126	0.1187	
	Co	0.0132	0.0045	0.0163	0.0217	0.0143	0.0087	0.0159	
	Cr	0.0842	0.0195	0.0801	0.1985	0.1024	0.0257	1.2935	150
	Cu	0.0596	0.0110	0.0203	0.0226	0.0212	0.0119	0.0248	
	Dy	0.0122	0.0050	0.0175	0.0206	0.0104	0.0126	0.0144	
	Eu	0.0039	0.0016	0.0058	0.0066	0.0035	0.0047	0.0050	
	Fe	0.6802	0.1575	0.6675	0.6137	0.8280	0.1427	0.2788	
	K	2.9756	1.0752	3.8939	4.9807	2.5754	1.7610	18.7837	2000
	La	0.0241	0.0085	0.0303	0.0339	0.0200	0.0153	0.0305	
	Li	0.0342	0.0099	0.0379	0.0674	0.0319	0.0146	0.0230	
	Mg	0.1232	0.0330	0.1481	0.1440	0.0794	0.0604	0.2067	
	Mn	0.0158	0.0037	0.0136	0.0143	0.0102	0.0045	0.0901	10
	Mo	0.0161	0.0039	0.0179	0.0214	0.0176	0.0071	0.0107	
	Na	3963.0137	1132.6457	3828.5894	3819.7302	4329.5879	4185.9868	1852.6323	
	Nd	0.0824	0.0310	0.1100	0.1222	0.0846	0.0641	0.0972	
	Ni	0.3127	0.0701	0.3190	0.6003	0.5550	0.2299	4.4300	500
	P	2.5278	0.5635	0.3381	0.2627	0.3251	0.0762	1.0185	
	Pb	0.1533	0.0441	0.1631	0.1992	0.1178	0.0623	4.5873	500
	Pd	0.2165	0.0876	0.2761	0.2931	0.1500	0.0238	0.1621	
	Rh	0.1010	0.0438	0.1352	0.1455	0.0771	0.0504	0.1250	
	Sb	0.0473	0.0162	0.0525	0.0659	0.0393	0.0398	0.0451	
	Se	0.0479	0.0058	0.0729	0.0751	0.0528	0.0452	0.0633	
	Si	1.7529	0.3741	1.9628	1.2712	0.7211	0.1445	9.1000	1000
	Sn	0.3154	0.1457	0.4273	0.4903	0.2094	0.2567	0.4699	
	Sr	0.0383	0.0088	0.0332	0.0395	0.2057	0.0301	0.0156	
	Te	0.0467	0.0213	0.0717	0.0717	0.0402	0.0267	0.0621	
	Th	0.0028	-0.0020	0.0329	0.0624	0.0323	0.1445	0.2414	
	Ti	0.0295	0.0074	0.0330	0.0251	0.0133	0.0071	0.0170	
	Tl	0.1690	0.0374	0.1665	0.1842	0.0615	0.0249	0.1109	
	U	1.3495	0.5447	1.5767	1.7022	1.2361	0.0390	17.1713	2000
	V	0.0376	0.0105	0.0259	0.0168	0.0126	0.0074	0.0247	
	W	0.0419	0.0200	0.0391	0.0505	0.0458	0.0291	0.0489	
	Y	0.0049	0.0019	0.0068	0.0079	0.0048	0.0047	0.0074	
	Zn	0.0279	0.0059	0.0236	0.0366	0.0458	0.0102	0.0097	
(ug/mL)	Zr	0.2101	0.0506	5.0141	9.4309	3.6000	22.9812	0.4829	50

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

File: m091295d
Analyzed: 09/12/95

Core 99

	Seg 4A		Seg 4B	Seg 4C	Seg 4D		Seg 4A	
Sam Log#:	95-07945-		95-07946-	95-07947-	95-07948-	95-07941-	95-07945-	
Split#:	N1-Smp		N1-Smp	N1-Smp	N1-Smp	N3-Blk	N1-Smp-PS	
ICP Dil:	2.00	10.00	2.00	2.00	2.00	2.00	5.00	
Dil Fctr:	1926.8	9633.9	1857.0	1912.0	1816.5	1877.1	4817.0	
Run Time:	17:19	17:15	17:30	17:39	18:02	15:30	17:22	

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Sample ug/g	Sample ug/g	Sample ug/g	Batch Blk ug/g	Met PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND	ND	ND	ND	ND	
0.060	Al	15,478	16,543	7	11,193	7,430	8,166	(169)	45.50	91.0%
0.080	As	ND	ND		ND	ND	ND	ND	ND	
0.020	B	404	(475)		433	(254)	397	572	(0.03)	
0.010	Ba	285	(321)		556	(99)	(115)	ND	(0.02)	
0.005	Be	ND	ND		ND	ND	ND	ND	ND	
0.100	Bi	(1,378)	(1,428)		2,823	(933)	(1,075)	ND	(0.10)	
0.050	Ca	16,028	16,885	5	15,459	20,636	11,455	3,660	23.71	94.8%
0.015	Cd	ND	ND		ND	ND	ND	ND	1.20	96.2%
0.100	Ce	ND	ND		ND	ND	ND	ND	ND	
0.010	Co	(41)	ND		(38)	(34)	(37)	ND	(0.02)	
0.020	Cr	619	(664)		479	(97)	(109)	(48)	7.22	96.2%
0.010	Cu	(36)	ND		(31)	(66)	(105)	(22)	ND	
0.050	Dy	ND	ND		ND	ND	ND	ND	ND	
0.100	Eu	ND	ND		ND	ND	ND	ND	ND	
0.020	Fe	20,151	22,079	10	27,212	34,805	41,981	(268)	1.15	
2.000	K	(4,826)	ND		(4,904)	(4,549)	(4,777)	ND	(87.50)	87.5%
0.050	La	ND	ND		ND	ND	ND	ND	ND	
0.030	Li	ND	ND		ND	ND	ND	ND	ND	
0.100	Mg	(1,480)	(1,664)		(1,459)	(1,280)	(1,374)	ND	(0.69)	
0.005	Mn	300	(330)		328	366	498	ND	0.49	97.8%
0.030	Mo	ND	ND		ND	ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a	n/a	n/a	n/a	n/a	
0.050	Nd	(145)	ND		(161)	(174)	(199)	(120)	ND	
0.030	Ni	14,673	16,121	10	16,741	6,710	7,209	(432)	25.37	101.5%
0.100	P	(625)	ND		3,840	(1,605)	(1,437)	ND	(0.25)	
0.060	Pb	(1,154)	(1,370)		(995)	(1,144)	2,856	(117)	25.11	100.5%
0.300	Pd	ND	ND		ND	ND	ND	ND	ND	
0.300	Rh	ND	ND		ND	ND	ND	ND	ND	
0.050	Sb	ND	ND		ND	ND	ND	ND	ND	
0.100	Se	ND	ND		ND	ND	ND	ND	ND	
0.500	Si	(2,720)	ND		(2,287)	(1,554)	(1,784)	ND	48.66	97.3%
1.000	Sn	ND	ND		ND	ND	ND	ND	ND	
0.005	Sr	13,885	15,346	11	25,031	1,260	1,468	(57)	1.04	
0.500	Te	ND	ND		ND	ND	ND	ND	ND	
0.800	Th	ND	ND		ND	ND	ND	ND	ND	
0.005	Ti	(41)	(50)		(46)	(34)	(40)	(13)	(0.01)	
0.500	Tl	ND	ND		ND	ND	ND	ND	ND	
2.000	U	(33,219)	(38,672)		54,717	46,937	50,669	ND	97.64	97.6%
0.010	V	ND	ND		(20)	ND	(21)	ND	ND	
0.500	W	ND	ND		ND	ND	ND	ND	ND	
0.010	Y	ND	ND		(20)	(20)	(25)	ND	ND	
0.020	Zn	(235)	(243)		(150)	(247)	(303)	ND	0.01	
0.010	Zr	n/a	n/a		n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Analyzed Date: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D255a

File: m091295d
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07945-N1-Smp	95-07945-N1-SmpDil	95-07946-N1-Smp	95-07947-N1-Smp	95-07948-N1-Smp	95-07941-N3-Blk	95-07945-N1-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1038	0.1038	0.1077	0.1046	0.1101	0.1066	0.1038
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL								
Dil: Vol-mL								
Prep Factor		963.39	963.39	928.51	956.02	908.27	938.53	963.39
Spike ID								950830H901
Spike PreDil'n								20.0
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr		1926.8	9633.9	1857.0	1912.0	1816.5	1877.1	4817.0
Run Time		17:19	17:15	17:30	17:39	18:02	15:30	17:22
ug/g	Ag	4.6	15.9	-4.8	10.8	13.7	-31.1	15.4
	Al	15478.3	16543.4	11193.1	7429.9	8166.3	168.9	59314.9
	As	124.4	192.6	107.4	114.4	115.1	40.3	252.2
	B	404.4	475.0	432.8	254.4	397.5	572.2	428.5
	Ba	284.7	320.8	555.9	99.2	114.6	11.4	307.1
	Be	1.0	1.1	1.2	0.9	0.9	0.7	2.5
	Bi	1378.4	1427.9	2822.9	932.9	1075.2	66.2	1477.7
	Ca	16027.5	16885.3	15458.6	20636.2	11455.1	3660.2	38871.4
	Cd	10.1	16.9	11.2	9.3	12.4	7.3	1157.9
	Ce	-57.9	30.8	-166.8	43.8	109.0	-586.7	-2.2
	Co	40.8	53.7	37.8	33.5	36.6	16.4	61.3
	Cr	619.3	664.1	478.8	97.4	109.2	48.2	7571.7
	Cu	36.2	40.5	31.4	66.0	104.5	22.3	5.9
	Dy	16.1	29.9	13.4	9.7	11.0	23.7	17.3
	Eu	7.9	12.4	8.5	7.7	8.5	8.7	11.6
	Fe	20150.6	22078.9	27212.2	34805.3	41980.7	267.9	21257.9
	K	4825.5	7096.3	4904.1	4548.7	4777.4	3305.4	89125.0
	La	79.9	106.0	57.0	57.3	64.8	28.7	110.8
	Li	34.0	46.9	32.0	31.7	31.4	27.4	54.3
	Mg	1479.6	1664.3	1458.5	1279.5	1373.7	113.4	2141.3
	Mn	300.2	330.1	328.4	365.5	498.3	8.4	771.2
	Mo	27.9	53.4	26.0	38.5	28.0	13.3	41.4
	Na	8492031.3	11571703.5	7884648.7	8175270.6	7340152.4	7857319.2	10574396.1
	Nd	145.2	239.0	160.5	173.6	198.9	120.4	214.5
	Ni	14672.5	16121.5	16741.4	6709.5	7208.8	431.6	39117.1
	P	624.7	712.8	3840.0	1604.6	1436.9	143.0	862.2
	Pb	1154.2	1369.9	994.7	1143.9	2856.3	116.9	25348.8
	Pd	9.7	218.5	-194.4	-63.8	-49.9	44.7	-456.1
	Rh	120.0	232.0	86.4	88.7	100.8	94.6	166.0
	Sb	49.2	115.5	59.9	56.2	56.3	74.7	59.2
	Se	89.9	203.9	118.7	123.1	143.3	84.8	138.0
	Si	2720.1	2777.1	2287.1	1554.3	1784.5	271.3	49596.3
	Sn	202.1	538.3	59.0	-20.0	-30.0	481.9	395.8
	Sr	13884.9	15346.0	25031.0	1260.1	1467.6	56.6	14884.7
	Te	84.9	138.7	100.6	79.0	114.4	50.2	118.2
	Th	528.4	557.1	868.3	675.1	752.3	271.3	1727.8
	Ti	40.8	49.5	46.2	33.6	40.5	13.3	51.4
	Tl	104.9	78.6	104.4	83.0	78.9	46.8	240.9
	U	33218.9	38672.3	54716.5	46937.5	50669.1	73.3	127288.5
	V	18.8	32.1	20.0	17.7	20.7	13.9	33.6
	W	65.2	51.0	61.6	54.7	73.9	54.5	103.0
	Y	15.7	20.4	20.3	20.2	24.9	8.8	26.1
	Zn	234.9	243.4	149.6	247.4	302.9	19.2	222.3
ug/g	Zr	13479.1	14705.5	21396.3	7634.0	6251.5	43136.9	16657.6

Template: TC-NA202

ICP RAW DATA -- IEC Corrected

File: m091295d
Reported: 09/15/95

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Raw Data
Data Page 2 of 2

Analyst: D. SANDERS

Reviewer: MW Thur 9/20/95

Sample ID:		95-07945-N1-Smp	95-07945-N1-SmpDil	95-07946-N1-Smp	95-07947-N1-Smp	95-07948-N1-Smp	95-07941-N3-Blk	95-07945-N1-Smp-PS	Post Spk Conc ug/mL
Split ID:									
Run Time:		17:19	17:15	17:30	17:39	18:02	15:30	17:22	
(ug/mL)	Ag	0.0024	0.0017	-0.0026	0.0057	0.0076	-0.0166	0.0032	
	Al	8.0332	1.7172	6.0275	3.8859	4.4956	0.0900	12.3138	1000
	As	0.0646	0.0200	0.0579	0.0598	0.0634	0.0215	0.0524	
	B	0.2099	0.0493	0.2331	0.1331	0.2188	0.3049	0.0890	
	Ba	0.1477	0.0333	0.2993	0.0519	0.0631	0.0061	0.0638	
	Be	0.0005	0.0001	0.0007	0.0005	0.0005	0.0004	0.0005	
	Bi	0.7154	0.1482	1.5201	0.4879	0.5919	0.0353	0.3068	
	Ca	8.3183	1.7527	8.3245	10.7927	6.3060	1.9500	8.0697	500
	Cd	0.0052	0.0018	0.0060	0.0049	0.0069	0.0039	0.2404	25
	Ce	-0.0301	0.0032	-0.0898	0.0229	0.0600	-0.3126	-0.0005	
	Co	0.0212	0.0056	0.0204	0.0175	0.0202	0.0087	0.0127	
	Cr	0.3214	0.0689	0.2578	0.0509	0.0601	0.0257	1.5719	150
	Cu	0.0188	0.0042	0.0169	0.0345	0.0575	0.0119	0.0012	
	Dy	0.0083	0.0031	0.0072	0.0051	0.0060	0.0126	0.0036	
	Eu	0.0041	0.0013	0.0046	0.0041	0.0047	0.0047	0.0024	
	Fe	10.4582	2.2918	14.6538	18.2032	23.1104	0.1427	4.4131	
	K	2.5044	0.7366	2.6408	2.3790	2.6299	1.7610	18.5023	2000
	La	0.0415	0.0110	0.0307	0.0300	0.0357	0.0153	0.0230	
	Li	0.0177	0.0049	0.0172	0.0166	0.0173	0.0146	0.0113	
	Mg	0.7679	0.1727	0.7854	0.6692	0.7562	0.0604	0.4445	
	Mn	0.1558	0.0343	0.1768	0.1912	0.2743	0.0045	0.1601	10
	Mo	0.0145	0.0055	0.0140	0.0201	0.0154	0.0071	0.0086	
	Na	4407.3642	1201.1428	4245.8833	4275.6665	4040.7539	4185.9868	2195.2446	
	Nd	0.0754	0.0248	0.0864	0.0908	0.1095	0.0641	0.0445	
	Ni	7.6151	1.6734	9.0152	3.5091	3.9685	0.2299	8.1207	500
	P	0.3242	0.0740	2.0678	0.8392	0.7910	0.0762	0.1790	
	Pb	0.5990	0.1422	0.5357	0.5983	1.5724	0.0623	5.2624	500
	Pd	0.0050	0.0227	-0.1047	-0.0334	-0.0275	0.0238	-0.0947	
	Rh	0.0623	0.0241	0.0465	0.0464	0.0555	0.0504	0.0345	
	Sb	0.0255	0.0120	0.0323	0.0294	0.0310	0.0398	0.0123	
	Se	0.0467	0.0212	0.0639	0.0644	0.0789	0.0452	0.0287	
	Si	1.4117	0.2883	1.2316	0.8129	0.9823	0.1445	10.2962	1000
	Sn	0.1049	0.0559	0.0318	-0.0105	-0.0165	0.2567	0.0822	
	Sr	7.2063	1.5929	13.4792	0.6590	0.8079	0.0301	3.0901	
	Te	0.0441	0.0144	0.0542	0.0413	0.0630	0.0267	0.0245	
	Th	0.2742	0.0578	0.4676	0.3531	0.4141	0.1445	0.3587	
	Ti	0.0212	0.0051	0.0249	0.0176	0.0223	0.0071	0.0107	
	Tl	0.0544	0.0082	0.0562	0.0434	0.0434	0.0249	0.0500	
	U	17.2406	4.0142	29.4648	24.5483	27.8934	0.0390	26.4251	2000
	V	0.0098	0.0033	0.0108	0.0093	0.0114	0.0074	0.0070	
	W	0.0339	0.0053	0.0332	0.0286	0.0407	0.0291	0.0214	
	Y	0.0082	0.0021	0.0109	0.0105	0.0137	0.0047	0.0054	
	Zn	0.1219	0.0253	0.0806	0.1294	0.1667	0.0102	0.0461	
(ug/mL)	Zr	6.9957	1.5264	11.5219	3.9926	3.4415	22.9812	3.4581	50

									CCV1 950713H901	1 950713	1 950713	1 950713H901							
									95D255A	95D255A	95D255A	95D255A							
									9/12/95	9/12/95	9/12/95	9/12/95							
Statistical Summary for 'CCV1 950713H901'									09:55	12:25	15:10	18:33							
(HPS:CCV-1)									CONC	CONC	CONC	CONC							
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias		1846	1891	1936	1981							
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)		(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)							
Ag		4	0.000	0.000	-81				-0.001	0.000	-0.001	0.000							
Al	2.000	4	1.900	0.020	1	-0.100	-5.0		1.913	1.922	1.885	1.881							
As	2.000	4	2.017	0.026	1	0.017	0.9		2.013	2.055	1.988	2.012							
B	2.000	4	1.935	0.029	2	-0.065	-3.3		1.951	1.966	1.923	1.900							
Ba	1.000	4	1.009	0.012	1	0.009	0.9		0.999	1.004	1.007	1.026							
Be	1.000	4	0.968	0.011	1	-0.032	-3.2		0.977	0.977	0.955	0.963							
Bi	2.000	4	1.927	0.019	1	-0.073	-3.7		1.936	1.943	1.899	1.926							
Ca	2.000	4	1.926	0.029	2	-0.074	-3.7		1.943	1.958	1.903	1.899							
Cd	1.000	4	0.982	0.009	1	-0.018	-1.8		0.989	0.988	0.980	0.970							
Ce		4	0.001	0.003	378				0.002	-0.003	0.003	0.001							
Co	1.000	4	1.038	0.006	1	0.038	3.8		1.036	1.046	1.034	1.037							
Cr	0.500	4	0.516	0.001	0	0.016	3.2		0.517	0.517	0.514	0.517							
Cu	2.000	4	2.037	0.029	1	0.037	1.8		2.014	2.012	2.048	2.073							
Dy		4	0.000	0.000	-178				-0.001	0.000	0.000	0.000							
Eu		4	0.000	0.000	38				0.000	0.000	0.000	0.000							
Fe	2.000	4	2.018	0.010	1	0.018	0.9		2.016	2.031	2.006	2.017							
K	5.000	4	4.997	0.300	6	-0.003	-0.1		4.814	4.873	5.295	5.205							
La		4	0.000	0.001	192				0.001	0.001	-0.001	0.001							
Li	2.000	4	1.972	0.037	2	-0.028	-1.4		1.943	1.964	2.025	1.954							
Mg	2.000	4	2.100	0.016	1	0.100	5.0		2.092	2.099	2.087	2.122							
Mn	1.000	4	1.015	0.012	1	0.015	1.5		1.021	1.029	1.006	1.004							
Mo	2.000	4	2.004	0.008	0	0.004	0.2		1.998	2.015	1.997	2.008							
Na	8.100	4	8.404	0.382	5	0.304	3.8		8.015	8.136	8.750	8.714							
Nd		4	-0.001	0.003	-255				-0.001	-0.003	-0.003	0.003							
Ni	2.000	4	2.099	0.014	1	0.099	4.9		2.091	2.119	2.090	2.095							
P	5.000	4	4.746	0.009	0	-0.254	-5.1		4.734	4.755	4.751	4.744							
Pb	2.000	4	2.063	0.007	0	0.063	3.2		2.056	2.072	2.057	2.068							
Pd		4	0.002	0.008	321				0.008	0.010	-0.005	-0.004							
Rh		4	0.001	0.002	180				-0.001	0.003	0.003	0.000							
Sb		4	-0.001	0.008	-1512				0.002	0.009	-0.004	-0.009							
Se	2.000	4	1.980	0.030	2	-0.040	-2.0		1.938	2.002	1.941	1.959							
Si	5.000	4	4.973	0.071	1	-0.027	-0.5		5.045	5.018	4.891	4.936							
Sn		4	-0.008	0.011	-141				-0.010	-0.015	0.008	-0.014							
Sr	2.000	4	2.060	0.065	3	0.060	3.0		2.021	2.045	2.032	2.141							
Te		4	-0.018	0.004	-20				-0.014	-0.015	-0.020	-0.022							
Th		4	0.005	0.001	31				0.007	0.004	0.003	0.005							
Ti		4	0.000	0.000	75				0.000	0.000	0.000	0.001							
Tl	2.000	4	1.953	0.035	2	-0.047	-2.4		1.939	2.004	1.939	1.928							
U		4	0.007	0.016	242				0.006	-0.014	0.010	0.025							
V	1.000	4	0.964	0.004	0	-0.036	-3.6		0.961	0.965	0.960	0.968							
W		4	0.006	0.006	107				0.009	0.006	0.011	-0.003							
Y		4	0.000	0.000	-181				0.000	0.000	0.000	0.000							
Zn	1.000	4	1.031	0.011	1	0.031	3.1		1.018	1.044	1.027	1.035							
Zr		4	-0.001	0.000	-23				-0.002	-0.001	-0.001	-0.001							
TIME		4	########	0.000	0				10000.000	########	########	########							

Statistical Summary for "MCVA 950728H901"

(MCVA)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.500	11	0.485	0.009	2	-0.015	-3.1
Al	25.000	11	24.575	0.670	3	-0.425	-1.7
As	2.500	11	2.568	0.054	2	0.068	2.7
B	2.000	11	1.963	0.051	3	-0.037	-1.8
Ba	0.500	11	0.508	0.013	3	0.008	1.6
Be	0.100	11	0.093	0.002	2	-0.007	-6.8
Bi	25.000	11	24.401	0.524	2	-0.599	-2.4
Ca	25.000	11	24.691	0.499	2	-0.309	-1.2
Cd	0.500	11	0.492	0.010	2	-0.008	-1.6
Ce		11	-0.028	0.017	-61		
Co	1.000	11	1.023	0.016	2	0.023	2.3
Cr	1.000	11	1.022	0.016	2	0.022	2.2
Cu	1.000	11	0.999	0.025	3	-0.001	-0.1
Dy		11	0.001	0.002	299		
Eu		11	0.002	0.001	34		
Fe	20.000	11	20.328	0.382	2	0.328	1.6
K	25.000	11	26.211	1.441	5	1.211	4.8
La		11	0.006	0.004	65		
Li	2.000	11	1.927	0.097	5	-0.073	-3.7
Mg	25.000	11	26.450	0.481	2	1.450	5.8
Mn	0.500	11	0.506	0.010	2	0.006	1.2
Mo	1.000	11	1.026	0.018	2	0.026	2.6
Na	25.000	11	25.817	1.264	5	0.817	3.3
Nd		11	0.013	0.015	115		
Ni	1.000	11	1.052	0.017	2	0.052	5.2
P		11	0.063	0.020	31		
Pb	2.500	11	2.604	0.032	1	0.104	4.1
Pd		11	-0.002	0.043	-1885		
Rh		11	0.007	0.021	326		
Sb	2.500	11	2.536	0.043	2	0.036	1.5
Se	2.500	11	2.483	0.052	2	-0.017	-0.7
Si	20.000	11	18.955	0.569	3	-1.045	-5.2
Sn		11	-0.098	0.089	-91		
Sr	0.500	11	0.517	0.017	3	0.017	3.4
Te		11	-0.002	0.012	-690		
Th		11	0.041	0.003	7		
Ti	1.000	11	0.998	0.021	2	-0.004	-0.4
Tl		11	2.504	0.060	2		
U		11	0.154	0.257	166		
V	1.000	11	0.987	0.018	2	-0.013	-1.3
W		11	0.031	0.007	22		
Y		11	0.000	0.001	329		
Zn	1.000	11	1.015	0.017	2	0.015	1.5
Zr	2.000	11	2.045	0.031	2	0.045	2.2
TIME		11	########	0.000	0		

MCVA 950728H901	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728H901
95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95
14:49	14:58	09:43	10:51	11:47	12:09	16:15	16:19	16:39	17:44	16:17	
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	
2071	2116	2161	2206	2251	2296	2341	2386	2431	2476	2521	
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	
0.487	0.485	0.488	0.491	0.485	0.488	0.483	0.490	0.484	0.494	0.475	
25.039	24.527	24.982	25.185	24.854	24.921	23.033	25.254	24.073	24.548	23.909	
2.563	2.548	2.595	2.630	2.594	2.615	2.448	2.566	2.535	2.627	2.523	
1.983	1.969	1.996	2.004	1.996	2.005	1.835	1.991	1.937	1.966	1.915	
0.514	0.508	0.507	0.511	0.506	0.508	0.472	0.521	0.509	0.522	0.512	
0.093	0.093	0.095	0.095	0.094	0.095	0.088	0.094	0.092	0.095	0.092	
24.527	24.353	24.714	24.818	24.603	24.662	23.063	24.723	24.150	24.836	23.958	
24.798	24.667	25.089	25.216	24.957	25.193	23.721	24.813	24.288	24.914	23.948	
0.491	0.497	0.504	0.501	0.494	0.494	0.476	0.500	0.488	0.495	0.471	
-0.042	-0.027	-0.027	-0.035	-0.035	-0.032	0.015	-0.044	-0.011	-0.032	-0.043	
1.026	1.026	1.027	1.034	1.024	1.035	0.987	1.034	1.012	1.043	1.008	
1.026	1.026	1.027	1.034	1.018	1.031	0.985	1.036	1.007	1.039	1.006	
1.014	1.005	0.998	0.997	0.987	0.990	0.935	1.029	1.009	1.027	1.004	
-0.001	0.001	0.000	0.000	0.000	0.000	0.007	-0.002	0.004	0.002	-0.001	
0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.001	0.003	0.002	0.002	
20.471	20.349	20.443	20.574	20.338	20.506	19.350	20.590	20.115	20.781	20.086	
27.785	26.211	25.947	26.719	25.952	25.394	24.892	29.123	27.256	24.193	24.854	
0.003	0.006	0.004	0.004	0.004	0.005	0.015	0.002	0.011	0.006	0.004	
2.030	1.920	1.940	1.982	1.954	1.924	1.744	2.105	1.906	1.826	1.861	
26.693	26.520	26.526	26.689	26.364	26.539	25.229	26.933	26.275	27.026	26.152	
0.510	0.506	0.513	0.515	0.511	0.515	0.482	0.511	0.496	0.512	0.495	
1.032	1.028	1.030	1.036	1.026	1.037	0.980	1.036	1.017	1.046	1.016	
26.473	25.568	24.931	25.667	25.288	24.961	23.597	26.267	27.414	25.639	26.189	
0.007	0.014	0.006	0.007	0.004	0.006	0.050	-0.003	0.034	0.017	0.002	
1.051	1.053	1.051	1.066	1.060	1.062	1.012	1.060	1.041	1.078	1.037	
0.059	0.058	0.047	0.059	0.062	0.073	0.116	0.048	0.070	0.057	0.046	
2.625	2.627	2.619	2.613	2.586	2.613	2.564	2.622	2.591	2.644	2.534	
-0.023	0.000	-0.013	-0.011	-0.012	-0.007	0.102	-0.053	0.045	-0.009	-0.045	
-0.006	0.010	0.000	-0.003	0.000	0.004	0.058	-0.017	0.032	0.006	-0.012	
2.552	2.541	2.557	2.567	2.535	2.564	2.435	2.568	2.530	2.585	2.486	
2.495	2.468	2.506	2.524	2.483	2.526	2.368	2.506	2.469	2.546	2.420	
18.914	18.758	19.334	19.411	19.783	19.426	17.858	19.077	18.675	19.104	18.171	
-0.106	-0.049	-0.076	-0.093	-0.095	-0.079	0.116	-0.125	-0.148	-0.175	-0.242	
0.517	0.511	0.512	0.517	0.512	0.516	0.477	0.526	0.514	0.548	0.534	
-0.011	0.001	-0.001	0.001	-0.007	0.003	0.027	-0.017	0.003	-0.005	-0.012	
0.043	0.037	0.045	0.039	0.040	0.040	0.039	0.039	0.046	0.043	0.040	
1.003	0.995	0.996	1.004	0.994	1.001	0.938	1.014	0.990	1.023	0.993	
2.515	2.516	2.522	2.564	2.553	2.546	2.369	2.537	2.487	2.524	2.416	
0.007	0.196	0.034	0.027	0.032	0.089	0.770	-0.106	0.470	0.211	-0.033	
0.994	0.988	0.993	0.997	0.985	0.992	0.940	1.000	0.981	1.011	0.981	
0.033	0.030	0.025	0.028	0.026	0.035	0.047	0.026	0.033	0.032	0.024	
0.000	0.000	0.000	0.000	0.000	0.000	0.002	-0.001	0.002	0.001	0.000	
1.018	1.018	1.008	1.025	1.019	1.034	0.980	1.028	1.007	1.034	0.985	
2.057	2.042	2.041	2.055	2.038	2.050	1.978	2.072	2.026	2.103	2.031	
10000.000	########	########	########	########	########	########	########	########	########	########	

Statistical Summary for 'MCVB 950911H901'

(MCVB)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag		4	0.001	0.001	144		
Al		4	-0.176	0.017	-10		
As		4	0.010	0.018	184		
B		4	0.004	0.006	160		
Ba		4	0.000	0.000	83		
Be		4	0.000	0.000	9		
Bi		4	0.001	0.011	1757		
Ca		4	0.018	0.007	42		
Cd		4	0.000	0.001	116		
Co	2.000	4	1.974	0.023	1	-0.026	-1.3
Ce		4	0.003	0.002	50		
Cr		4	0.001	0.000	16		
Cu		4	-0.005	0.006	-118		
Dy	2.000	4	1.976	0.040	2	-0.024	-1.2
Eu	2.000	4	1.963	0.036	2	-0.037	-1.8
Fe		4	0.006	0.002	29		
K		4	0.051	0.270	531		
La	2.000	4	1.970	0.035	2	-0.030	-1.5
Li		4	0.002	0.001	52		
Mg		4	0.086	0.008	9		
Mn		4	0.000	0.000	59		
Mo		4	0.001	0.002	186		
Na		4	0.021	0.021	97		
Nd	2.000	4	1.954	0.038	2	-0.046	-2.3
Ni		4	0.012	0.012	99		
P		4	-0.003	0.008	-299		
Pb		4	0.050	0.008	15		
Pd	2.000	4	2.126	0.108	5	0.126	6.3
Rh	2.000	4	2.006	0.037	2	0.006	0.3
Sb		4	0.010	0.011	110		
Se		4	0.015	0.004	25		
Si		4	0.073	0.055	76		
Sn	2.000	4	1.966	0.142	7	-0.034	-1.7
Sr		4	0.000	0.000	66		
Te	2.000	4	1.803	0.018	1	-0.197	-9.8
Th	5.000	4	5.011	0.053	1	0.011	0.2
Ti		4	0.001	0.000	46		
Tl		4	0.010	0.013	128		
U	10.000	4	8.549	0.125	1	-1.451	-14.5
V		4	-0.001	0.001	-77		
W	2.000	4	0.501	0.009	2	-1.499	
Y	1.000	4	0.964	0.009	1	-0.036	-3.6
Zn		4	0.001	0.000	25		
Zr		4	-0.009	0.002	-24		
TIME		4	########	0.000	0		

MCVB 950911H901	B 950911	B 950911	B 950911H901
95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95
09:46	12:17	15:02	18:25
CONC	CONC	CONC	CONC
2566	2611	2656	2701
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.001	0.002	-0.001	0.001
-0.177	-0.153	-0.193	-0.183
0.020	0.030	-0.010	0.000
0.008	0.002	0.010	-0.004
0.001	0.001	0.000	0.001
0.000	0.000	0.000	0.000
0.016	-0.003	-0.005	-0.007
0.026	0.023	0.012	0.011
0.000	0.001	0.000	0.001
1.947	1.979	1.988	2.003
0.004	0.004	0.001	0.004
0.002	0.001	0.001	0.001
0.003	-0.011	-0.005	-0.007
1.929	1.958	2.004	2.014
1.920	1.947	1.991	1.995
0.006	0.007	0.003	0.006
0.282	-0.086	-0.256	0.273
1.925	1.959	2.004	1.991
0.003	0.003	0.001	0.002
0.085	0.092	0.075	0.092
0.000	0.000	0.000	0.001
0.003	0.002	-0.001	0.001
0.025	0.026	-0.007	0.042
1.912	1.940	1.963	2.001
0.008	0.030	0.004	0.006
0.006	-0.008	-0.010	0.002
0.056	0.049	0.040	0.056
2.010	2.087	2.144	2.261
1.986	1.986	2.024	2.048
0.017	0.020	0.001	0.000
0.017	0.019	0.010	0.015
0.155	0.058	0.041	0.039
2.051	2.026	2.032	1.753
0.001	0.001	0.000	0.001
1.814	1.818	1.779	1.800
4.941	5.004	5.066	5.032
0.001	0.001	0.000	0.001
0.017	0.024	0.005	-0.005
8.603	8.407	8.494	8.692
0.000	-0.001	-0.003	-0.001
0.495	0.493	0.503	0.513
0.955	0.956	0.972	0.971
0.002	0.001	0.002	0.001
-0.007	-0.008	-0.012	-0.008
10000.000	########	########	########

Statistical Summary for "SRM-1643c 103668"
(NIST:SRM1643c)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.002	4	-0.001	0.002	-308	-0.003	-130.7
Al	0.115	4	0.101	0.009	9	-0.013	-11.4
As	0.082	4	0.086	0.010	11	0.004	5.0
B	0.119	4	0.114	0.004	4	-0.005	-4.1
Ba	0.050	4	0.049	0.001	2	0.000	-0.3
Be	0.023	4	0.022	0.000	1	-0.001	-5.5
Bi		4	0.013	0.011	86		
Ca	36.800	4	35.156	0.383	1	-1.644	-4.5
Cd	0.012	4	0.011	0.002	14	-0.001	-7.6
Ce		4	-0.009	0.013	-136		
Co	0.024	4	0.023	0.003	11	0.000	-0.1
Cr	0.019	4	0.020	0.001	7	0.001	6.3
Cu	0.022	4	0.018	0.003	16	-0.005	-20.8
Dy		4	-0.002	0.001	-71		
Eu		4	0.001	0.001	97		
Fe	0.107	4	0.119	0.001	1	0.012	11.0
K	2.300	4	1.927	0.241	13	-0.373	-16.2
La		4	0.004	0.003	68		
Li	0.017	4	0.012	0.001	9	-0.005	-27.3
Mg	9.450	4	9.916	0.153	2	0.466	4.9
Mn	0.035	4	0.035	0.000	1	0.000	-1.2
Mo	0.104	4	0.105	0.002	2	0.001	0.7
Na	12.190	4	12.215	0.903	7	0.025	0.2
Nd		4	-0.001	0.010	-1154		
Ni	0.061	4	0.060	0.005	8	0.000	-0.2
P		4	0.015	0.009	65		
Pb	0.035	4	0.027	0.006	23	-0.009	-24.1
Pd		4	-0.028	0.037	-129		
Rh		4	-0.013	0.015	-117		
Sb		4	-0.003	0.006	-196		
Se	0.013	4	0.013	0.011	86	0.000	0.3
Si		4	0.025	0.042	170		
Sn		4	-0.056	0.044	-78		
Sr	0.264	4	0.266	0.011	4	0.003	1.0
Te		4	-0.006	0.009	-151		
Th		4	-0.006	0.002	-31		
Ti		4	0.007	0.000	6		
Tl	0.008	4	0.015	0.005	34	0.007	83.7
U		4	0.063	0.164	262		
V	0.031	4	0.027	0.001	3	-0.004	-14.3
W		4	0.001	0.002	154		
Y		4	-0.002	0.001	-31		
Zn	0.074	4	0.086	0.002	2	0.012	16.2
Zr		4	-0.002	0.001	-76		
TIME		4	########	0.000	0		

SRM-1643c 103668	-1643c 10	-1643c 10	-1643c 103668
95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95
09:50	12:21	15:08	18:29
CONC	CONC	CONC	CONC
2926	2971	3016	3061
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.002	-0.002	-0.002	-0.001
0.112	0.106	0.092	0.096
0.091	0.093	0.072	0.088
0.116	0.116	0.117	0.108
0.048	0.049	0.049	0.051
0.022	0.022	0.022	0.022
0.029	0.013	0.006	0.004
35.054	35.716	34.851	35.003
0.010	0.011	0.013	0.010
0.010	-0.014	-0.014	-0.018
0.026	0.025	0.020	0.023
0.020	0.022	0.019	0.020
0.021	0.015	0.016	0.019
0.000	-0.002	-0.003	-0.002
0.001	0.000	0.000	0.000
0.119	0.119	0.117	0.120
2.227	1.640	1.953	1.888
0.007	0.003	0.001	0.004
0.013	0.013	0.011	0.011
9.716	9.920	9.940	10.087
0.034	0.035	0.035	0.035
0.105	0.107	0.103	0.105
11.042	11.987	13.059	12.770
0.014	-0.004	-0.009	-0.004
0.061	0.067	0.056	0.057
0.025	0.006	0.007	0.020
0.035	0.023	0.021	0.026
0.024	-0.030	-0.059	-0.049
0.009	-0.016	-0.024	-0.020
0.006	-0.004	-0.006	-0.007
0.020	0.024	0.000	0.007
0.088	0.008	0.004	0.000
0.005	-0.089	-0.086	-0.054
0.254	0.285	0.265	0.281
0.007	-0.006	-0.012	-0.012
-0.006	-0.004	-0.009	-0.006
0.006	0.007	0.007	0.007
0.020	0.018	0.010	0.010
0.304	0.005	-0.065	0.007
0.026	0.026	0.026	0.027
0.001	0.002	0.003	-0.001
-0.001	-0.003	-0.003	-0.002
0.084	0.088	0.085	0.086
0.000	-0.002	-0.002	-0.003
10000.000	########	########	########

3-571

WHC-SD-WM-DP-145, REV. 1

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10
								95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A
								9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95
Statistical Summary for 'STD1-Blank 108444'								09:39	10:06	11:01	11:55	12:29	14:35	14:46	15:24	16:48	17:05	17:56	18:36
(STD1-Blank)								CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3601	3646	3691	3736	3781	3826	3871	3916	3961	4006	4051	4096
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		12	0.000	0.002	-677			-0.001	0.001	-0.002	-0.002	-0.001	-0.001	-0.003	0.000	0.003	0.000	0.003	-0.001
Al		12	0.005	0.010	199			0.003	0.006	0.006	0.007	0.002	-0.003	-0.010	-0.004	0.015	0.031	0.010	0.000
As		12	0.003	0.008	206			0.006	0.011	0.005	0.008	0.009	0.000	-0.008	-0.005	-0.001	0.001	0.003	0.003
B		12	0.005	0.007	148			0.008	0.004	0.002	0.005	0.003	0.005	0.003	0.000	0.008	0.025	0.000	-0.004
Ba		12	0.000	0.000	343			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
Be		12	0.000	0.000	216			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bi		12	0.001	0.004	289			0.003	0.007	0.000	0.000	0.009	-0.001	-0.004	0.004	0.006	-0.004	-0.001	-0.002
Ca		12	0.002	0.005	309			0.001	0.002	0.001	0.002	0.003	-0.001	-0.003	-0.003	0.004	0.016	0.003	-0.005
Cd		12	0.000	0.001	1617			-0.001	-0.001	-0.001	0.000	-0.002	0.000	0.000	0.001	0.001	0.001	0.002	0.000
Ce		12	0.001	0.011	2176			-0.001	0.003	-0.008	-0.010	-0.009	-0.002	-0.014	0.022	0.017	0.001	0.010	-0.003
Co		12	0.001	0.001	165			0.000	0.002	0.000	0.001	0.001	0.000	-0.001	0.000	0.002	0.001	0.003	0.000
Cr		12	-0.001	0.001	-202			0.002	0.000	0.000	0.000	0.001	-0.001	-0.001	-0.002	-0.001	0.000	-0.001	-0.002
Cu		12	0.000	0.002	1082			0.000	-0.001	-0.004	-0.002	-0.001	0.005	0.002	-0.003	0.002	0.001	0.003	0.000
Dy		12	0.000	0.001	2495			-0.001	0.000	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.003	0.001	0.002	0.000
Eu		12	0.000	0.000	582			0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Fe		12	0.000	0.001	-1050			-0.001	0.001	0.002	0.000	-0.001	-0.001	-0.001	-0.001	0.001	-0.001	0.002	-0.001
K		12	-0.097	0.353	-365			-0.118	-0.017	-0.327	-0.536	-0.490	-0.191	-0.519	0.023	0.572	0.082	0.437	-0.076
La		12	0.000	0.002	-5090			0.000	0.001	-0.001	-0.002	-0.001	-0.001	-0.004	0.000	0.005	0.000	0.003	0.000
Li		12	0.001	0.002	144			0.001	0.001	0.001	0.000	0.000	0.000	-0.002	0.001	0.003	0.004	0.003	0.000
Mg		12	0.000	0.006	1865			-0.003	0.010	0.001	-0.002	0.002	-0.002	-0.006	-0.010	0.010	-0.002	0.006	-0.002
Mn		12	0.000	0.000	-1222			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
Mo		12	0.001	0.001	144			0.000	0.001	0.001	0.001	0.002	0.000	-0.001	-0.002	0.001	0.002	0.002	0.002
Na		12	-0.001	0.095	-7837			0.008	0.001	-0.006	-0.003	-0.006	-0.028	-0.042	0.108	0.171	-0.136	0.090	-0.172
Nd		12	-0.001	0.009	-1179			-0.002	0.004	-0.006	-0.005	-0.009	-0.004	-0.015	0.000	0.020	0.004	0.011	-0.004
Ni		12	0.003	0.005	152			0.001	0.005	0.015	0.008	0.003	-0.001	-0.001	0.002	0.004	-0.001	0.003	-0.002
P		12	0.006	0.008	146			0.011	0.006	0.000	0.000	0.001	0.009	-0.007	0.000	0.019	0.018	0.010	-0.003
Pb		12	0.000	0.009	-3889			-0.005	0.001	-0.005	-0.010	-0.009	-0.003	-0.011	0.000	0.018	0.008	0.015	0.000
Pd		12	0.004	0.025	576			0.009	0.025	-0.001	-0.003	0.003	-0.010	-0.044	0.001	0.057	0.004	0.028	-0.018
Rh		12	0.001	0.012	947			0.003	0.010	-0.003	-0.006	0.000	-0.009	-0.020	0.002	0.027	0.002	0.015	-0.003
Sb		12	0.002	0.006	311			0.003	0.005	0.012	0.007	0.008	0.002	-0.005	0.002	-0.002	-0.003	0.001	-0.006
Se		12	0.000	0.006	-2378			-0.002	0.008	0.000	-0.003	-0.003	0.002	-0.012	-0.002	0.007	-0.003	0.009	-0.005
Si		12	0.015	0.061	400			0.197	-0.001	-0.024	0.035	-0.026	0.034	0.010	-0.019	0.012	-0.007	-0.006	-0.021
Sn		12	-0.002	0.042	-2266			-0.018	0.020	-0.031	-0.045	-0.026	-0.005	-0.075	0.018	0.059	0.024	0.068	-0.008
Sr		12	0.000	0.000	75			0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
Te		12	0.000	0.007	-1825			0.005	0.007	0.003	-0.004	0.000	-0.006	-0.013	-0.003	0.011	0.000	0.006	-0.009
Th		12	-0.001	0.005	-437			-0.003	0.000	0.000	-0.002	-0.001	-0.007	-0.007	-0.008	0.001	0.002	0.009	0.004
Ti		12	0.000	0.001	-1544			0.000	0.000	0.000	0.000	-0.001	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Tl		12	0.001	0.008	1132			0.006	0.004	0.001	0.014	0.010	-0.001	-0.014	-0.003	0.001	-0.003	0.002	-0.006
U		12	0.012	0.140	1198			0.019	0.039	-0.033	-0.074	-0.084	-0.062	-0.224	0.043	0.320	0.063	0.193	-0.059
V		12	0.000	0.001	-458			-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.002	0.000	0.002	0.000	0.002	0.000
W		12	0.001	0.006	501			-0.009	-0.001	-0.002	-0.003	-0.005	0.007	0.006	0.007	0.009	0.000	0.005	-0.003
Y		12	0.000	0.001	-852			0.000	0.000	0.000	-0.001	-0.001	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Zn		12	0.000	0.001	491			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	-0.001
Zr		12	0.000	0.001	-991			-0.001	0.000	0.000	0.000	-0.001	-0.001	-0.002	0.001	0.003	0.000	0.001	-0.001
TIME		12	########	0.000	0			10000.000	########	########	########	########	########	########	########	########	########	########	########

3-572

WHC-SD-WM-DP-145, REV 1

								SST-ICS-0 95090811	S-0 9509	S-0 9509	S-0 9509081100
								95D255A	95D255A	95D255A	95D255A
								9/12/95	9/12/95	9/12/95	9/12/95
Statistical Summary for 'SST-ICS-0 9509081100'								10:00	10:57	11:51	12:13
(Interference Check Std - Acid Digestion)								CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3196	3241	3286	3331
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		4	-0.009	0.002	-19			-0.007	-0.008	-0.011	-0.008
Al	100.0	4	97.958	1.149	1	-2.042	-2.0	97.393	97.860	99.596	98.982
As		4	0.121	0.009	7			0.114	0.119	0.115	0.133
B		4	0.002	0.002	112			0.004	-0.001	0.003	0.002
Ba		4	0.000	0.000	65			0.000	0.000	0.000	0.001
Be		4	0.001	0.000	6			0.001	0.001	0.001	0.001
Bi		4	0.059	0.003	6			0.056	0.058	0.058	0.064
Ca		4	0.076	0.002	2			0.075	0.077	0.075	0.079
Cd		4	0.007	0.001	13			0.009	0.007	0.007	0.007
Ce		4	-0.141	0.016	-12			-0.127	-0.132	-0.164	-0.139
Co		4	0.005	0.001	29			0.006	0.005	0.003	0.006
Cr		4	0.036	0.001	2			0.036	0.035	0.037	0.037
Cu		4	-0.014	0.005	-35			-0.007	-0.018	-0.017	-0.015
Dy		4	-0.004	0.001	-36			-0.004	-0.004	-0.006	-0.002
Eu		4	0.000	0.000	103			0.001	0.000	0.000	0.001
Fe	20.0	4	19.986	0.135	1	-0.014	-0.1	19.915	19.950	20.185	19.894
K		4	-0.141	0.232	-165			0.000	-0.079	-0.485	0.000
La		4	0.003	0.002	73			0.005	0.004	0.000	0.005
Li		4	0.004	0.001	33			0.004	0.005	0.003	0.006
Mg		4	0.281	0.015	5			0.266	0.282	0.276	0.302
Mn		4	0.001	0.000	15			0.001	0.001	0.001	0.001
Mo		4	0.009	0.001	13			0.010	0.008	0.008	0.011
Na		4	0.011	0.024	227			0.001	0.012	-0.014	0.043
Nd		4	-0.026	0.008	-32			-0.023	-0.026	-0.038	-0.018
Ni	50.0	4	52.039	0.385	1	2.039	4.1	51.844	51.939	52.567	52.005
P		4	0.025	0.006	24			0.024	0.032	0.018	0.026
Pb		4	0.189	0.009	5			0.196	0.188	0.177	0.194
Pd		4	-0.381	0.035	-9			-0.345	-0.389	-0.427	-0.381
Rh		4	-0.033	0.012	-38			-0.032	-0.032	-0.050	-0.020
Sb		4	0.003	0.007	242			0.002	0.002	-0.005	0.012
Se		4	0.022	0.003	13			0.024	0.022	0.024	0.018
Si		4	0.075	0.051	68			0.085	0.026	0.146	0.064
Sn		4	0.028	0.048	167			0.047	0.040	-0.040	0.064
Sr		4	0.000	0.000	93			0.000	0.000	0.000	0.000
Te		4	-0.002	0.009	-414			0.003	-0.002	-0.015	0.006
Th		4	0.667	0.022	3			0.660	0.677	0.703	0.706
Ti		4	0.001	0.000	47			0.001	0.001	0.000	0.002
Tl		4	0.227	0.006	3			0.218	0.227	0.232	0.232
U	50.0	4	50.178	0.555	1	0.178	0.4	49.868	50.100	50.963	49.760
V		4	0.001	0.001	102			0.002	0.001	-0.001	0.002
W		4	0.049	0.005	10			0.053	0.043	0.047	0.052
Y		4	0.003	0.000	17			0.003	0.003	0.002	0.003
Zn		4	-0.029	0.001	-5			-0.026	-0.031	-0.027	-0.029
Zr	10.0	4	10.016	0.066	1	0.016	0.2	9.983	9.974	10.145	9.964
TIME		4	########	0.000	0			10000.000	########	########	########

								SST-ICS-1 9509081	S-1 9509	S-1 9509	S-1 9509	S-1 9509081101						
								95D255A	95D255A	95D255A	95D255A	95D255A						
								9/12/95	9/12/95	9/12/95	9/12/95	9/12/95						
Statistical Summary for 'SST-ICS-1 9509081101'								17:52	18:20	15:18	16:44	16:53						
(Interference Check Std - Na2O2/Zr Fusion)								CONC	CONC	CONC	CONC	CONC						
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3376	3421	3466	3511	3556						
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)						
Ag		5	-0.005	0.001	-25			-0.006	-0.005	-0.005	-0.003	-0.006						
Al	100.0	5	90.394	1.108	1	-9.606	-9.6	91.245	89.949	89.848	89.108	91.822						
As		5	0.167	0.022	13			0.179	0.178	0.130	0.183	0.164						
B		5	0.005	0.007	129			0.000	0.000	0.003	0.015	0.007						
Ba		5	0.001	0.000	34			0.001	0.001	0.001	0.001	0.001						
Be		5	0.001	0.000	3			0.001	0.001	0.001	0.001	0.001						
Bi		5	0.064	0.004	7			0.068	0.060	0.060	0.071	0.063						
Ca		5	0.048	0.004	8			0.047	0.048	0.043	0.055	0.049						
Cd		5	0.010	0.001	7			0.009	0.010	0.010	0.011	0.010						
Ce		5	-0.116	0.016	-13			-0.130	-0.121	-0.092	-0.109	-0.126						
Co		5	0.010	0.001	14			0.011	0.011	0.008	0.011	0.010						
Cr		5	0.040	0.002	4			0.040	0.042	0.038	0.039	0.041						
Cu		5	-0.012	0.003	-26			-0.014	-0.010	-0.014	-0.007	-0.014						
Dy		5	0.002	0.001	62			0.001	0.003	0.001	0.004	0.002						
Eu		5	0.002	0.000	15			0.002	0.002	0.002	0.003	0.002						
Fe	20.0	5	18.304	0.308	2	-1.696	-8.5	18.549	18.267	17.891	18.157	18.658						
K		5	0.722	0.252	35			0.546	0.769	0.459	1.112	0.723						
La		5	0.011	0.002	16			0.009	0.012	0.010	0.014	0.011						
Li		5	0.013	0.001	10			0.013	0.013	0.012	0.015	0.013						
Mg		5	0.312	0.011	4			0.314	0.316	0.292	0.320	0.319						
Mn		5	0.002	0.000	12			0.002	0.002	0.002	0.003	0.002						
Mo		5	0.014	0.002	16			0.015	0.016	0.010	0.015	0.014						
Na		5	3689.975	44.406	1			3733.137	3700.213	3639.407	3676.485	3750.840						
Nd		5	0.015	0.009	63			0.010	0.015	0.004	0.029	0.015						
Ni	50.0	5	47.549	0.810	2	-2.451	-4.9	48.204	47.556	46.459	47.090	46.439						
P		5	0.101	0.008	8			0.092	0.109	0.102	0.093	0.109						
Pb		5	0.238	0.010	4			0.241	0.241	0.220	0.245	0.243						
Pd		5	-0.296	0.026	-9			-0.318	-0.301	-0.313	-0.251	-0.298						
Rh		5	0.020	0.010	51			0.012	0.019	0.011	0.037	0.022						
Sb		5	0.031	0.008	25			0.021	0.034	0.026	0.039	0.037						
Se		5	0.057	0.009	16			0.062	0.063	0.042	0.062	0.054						
Si		5	0.009	0.012	142			-0.005	0.013	-0.003	0.021	0.019						
Sn		5	-0.039	0.130	-337			-0.122	-0.093	0.191	-0.063	-0.105						
Sr		5	0.001	0.000	48			0.001	0.001	0.000	0.001	0.000						
Te		5	0.027	0.008	28			0.025	0.027	0.019	0.040	0.026						
Th		5	0.683	0.009	1			0.688	0.682	0.680	0.672	0.694						
Ti		5	0.004	0.001	16			0.003	0.004	0.003	0.005	0.004						
Tl		5	0.220	0.006	3			0.226	0.215	0.215	0.227	0.217						
U	50.0	5	45.985	0.970	2	-4.015	-8.0	46.598	45.954	44.536	45.742	47.093						
V		5	0.006	0.001	15			0.005	0.006	0.005	0.006	0.006						
W		5	0.061	0.005	9			0.053	0.062	0.058	0.063	0.060						
Y		5	0.006	0.001	11			0.005	0.006	0.005	0.007	0.006						
Zn		5	-0.030	0.002	-6			-0.030	-0.032	-0.027	-0.030	-0.029						
Zr	10.0	5	9.550	0.172	2	-0.450	-4.5	9.691	9.522	9.329	9.459	9.750						
TIME		5	########	0.000	0			10000.000	########	########	########	########						

3-5.24

WHC-SD-WM-DP-145, REV. 1

Statistical Summary for 'SRM-2709-N @10X DIL'
(LCSS - Na2O2/Zr Fusion)

								SRM-2709-N @10X DIL
								95D255A
								9/12/95
								10:06
								CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3106
	(ug/g)		(ug/g)	(ug/g)	(%)	(ug/g)	(%)	ug/g
Ag		1	-	#DIV/0!	######			-
Al	75000	1	64707.3	#DIV/0!	######	-10293	-13.7	64707.31
As	18	1	-	#DIV/0!	######	-18	-100.0	-
B		1	222.5	#DIV/0!	######			[222.46]
Be	968	1	852.5	#DIV/0!	######	-116	-11.9	852.46
Bi		1	-	#DIV/0!	######			-
Bl		1	-	#DIV/0!	######			-
Ca	18900	1	19828.6	#DIV/0!	######	929	4.9	19828.62
Cd	0.4	1	-	#DIV/0!	######	0	-100.0	-
Ce		1	-	#DIV/0!	######			-
Co	13	1	71.5	#DIV/0!	######	58	433.6	[71.50]
Cr	130	1	226.6	#DIV/0!	######	97	74.3	[226.60]
Cu	36	1	85.6	#DIV/0!	######	51	147.3	[85.57]
Dy	3.5	1	-	#DIV/0!	######	-4	-100.0	-
Eu	0.9	1	-	#DIV/0!	######	-1	-100.0	-
Fe	35000	1	32874.9	#DIV/0!	######	-2125	-6.1	32874.88
K	20300	1	25538.8	#DIV/0!	######	5239	25.8	[25538.76]
La	23	1	-	#DIV/0!	######	-23	-100.0	-
Li		1	-	#DIV/0!	######			-
Mg	15100	1	14893.1	#DIV/0!	######	-207	-1.4	14893.12
Mn	538	1	515.1	#DIV/0!	######	-23	-4.3	515.11
Mo	2.0	1	-	#DIV/0!	######	-2	-100.0	-
Na	11600	0	#DIV/0!	#DIV/0!	######	#DIV/0!	######	>6142566
Nd	19	1	366.8	#DIV/0!	######	348	1830.4	[366.77]
Ni	88	1	528.6	#DIV/0!	######	441	500.7	[528.62]
P	620	1	882.9	#DIV/0!	######	263	42.4	[882.92]
Pb	19	1	1700.3	#DIV/0!	######	1681	8896.3	[1700.31]
Pd		1	-	#DIV/0!	######			-
Rh		1	-	#DIV/0!	######			-
Sb	7.9	1	-	#DIV/0!	######	-8	-100.0	-
Se	1.6	1	-	#DIV/0!	######	-2	-100.0	-
Si	269800	1	264935	#DIV/0!	######	-31865	-10.7	264934.64
Sn		1	-	#DIV/0!	######			-
Sr	231	1	266.6	#DIV/0!	######	36	15.4	[266.60]
Te		1	-	#DIV/0!	######			-
Th	11	1	-	#DIV/0!	######	-11	-100.0	-
Ti	3420	1	3057.6	#DIV/0!	######	-362	-10.6	3057.60
Tl	1	1	-	#DIV/0!	######	-1	-100.0	-
U	3	1	-	#DIV/0!	######	-3	-100.0	-
V	112	1	143.6	#DIV/0!	######	32	28.2	[143.55]
W	2	1	-	#DIV/0!	######	-2	-100.0	-
Y	18	1	-	#DIV/0!	######	-18	-100.0	-
Zn	108	1	-	#DIV/0!	######	-108	-100.0	-
Zr	160	1	33697.3	#DIV/0!	######	33437	######	33697.30
TIME	10000	1	10000.0	#DIV/0!	######	0	0.0	10000.0

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814I101		K.Silvers	K20966	950255A	ECP1	9/12/95 BM
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓	✓							SPC-STD 950831E101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950830I101						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓							✓	PASS	MCVA 950728I901						
	15	✓							✓	PASS	MCVB 950911H901						
	16	✓							✓		SRM-1643c 103668						
	17	✓						✓			CCV1 950713H901						
	18	✓					✓				~~SST-ICS-0~~ SST-ICS-0 950907E100						
	19	✓									STD1-Blank 108444						
	20	✓								95-007932-A3	Drainable Liquids Method Blank (Acid digest)	2X					
	21	✓								95-007932-A3	" " " " "						
	22	✓								95-007932-A4	" " Matrix Spike "	2X					
	23	✓								95-007932-A4	" " "	10X					
	24	✓								95-007932-A4	" " "	50X					
	25	✓								499 MVA	Na @ 510 ppm (950622I124 @10X)						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]refix (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

MATE # WD 00560

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x).

file: C:\ICPFIO\YYMODU\MSVRUN_OG1.TXT (94-02-03)

Pd, Sn, Te, U, W - NIH w.c.

3-576

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007932-AS	Drainable Liquid Spike Control (Acid digest)	50X	K. Silvers	K28866	950255A	ICP1	9/13/95 DM
	2	✓								95-007932-AS	" " " " "	10X					
	3	✓								95-007922-AS	" " " " "						
	4	✓							✓	PASS	MCVA 950728E901						
	5	✓							✓		SST-ICS-0 950908E100						
	6	✓					✓				STD1-Blank 108444						
	7	✓								95-007932-A1	Seq 2 Drainable Liquid (Acid digest)	50X					
	8	✓								95-007932-A1	" " " " "	10X					
	9	✓								95-007932-A1	" " " " "	5X					
	10	✓								95-007932-A2	" " " " Duplicate "	50X					
	11	✓								95-007932-A2	" " " " "	10X					
	12	✓								95-007932-A2	" " " " "	5X					
	13	✓								95-007935-A1	" 3 " " "	50X					
	14	✓								95-007935-A1	" " " " "	10X					
	15	✓								95-007935-A1	" " " " "	5X					
	16	✓								49.5ppm	STD 9 for W @ 50 ppm						
	17	✓							✓	PASS	MCVA 950728E901						
	18	✓							✓		SST-ICS-0 950908E100						
	19	✓						✓			STD1-Blank 108444						
	20	✓								95-007935-A2	Seq 3 Drainable Liquid Drip (Acid digest)	50X					
	21	✓								95-007935-A2	" " " " "	10X					
	22	✓								95-007935-A2	" " " " "	5X					
	23	✓							✓	PASS	MCVA 950728E901						
	24	✓							✓		SST-ICS-0 950908E100						
	25	✓							✓	PASS ⊗	MCVB 950911H901		↓	↓	↓	↓	↓

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [D]ark

[X] A solid vertical line denotes contiguous data.

M & T E # W D 0 0 5 6 0

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OPNOVP\DOS\ANSV\UNLOG1.F.72 (94-02-03)

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓		SRM-1643c 103668		K. Silvers	K28866	950255A	ICP1	9/12/95 DK
	1	✓						✓			CCV1 950713H901						
	1	✓					✓				STD1-Blank 108444						
	1	✓				✓	✓				STD1-Blank 108444						
	1	✓				✓					" 2 950830I102						
	1	✓				✓					" 3 3						
	1	✓				✓					" 4 4						
	1	✓				✓					" 5 5						
	1	✓				✓					" 6 6						
	"	✓				✓					" 7 7						
	"	✓				✓					" 8 8						
	"	✓				✓					" 9 9						
	"	✓					✓				STD1-Blank 108444						
	"	✓									2% HNO_3 Diluent Pump 108444						
	"	✓									"Pipeted" STD1-Blank 108444						
	"	✓									MCVA Ca Contamination check	5X					
	"	✓					✓				STD1-Blank 108444						
	"	✓							✓	Fail-K High	MCVA 950729I901						
	"	✓							✓	PASS	" "						
	"	✓							✓	PASS ⊗	MCVB 950911H901						
	"	✓							✓		SRM-1643c 103668						
	"	✓						✓			CCV1 950713H901						
	"	✓							✓		SST-ICS-1 950908I101						
	"	✓					✓				STD1-Blank 108444						
	"	✓								95-007941-N3	Method Blank (Na2O2 Fusion	5X					

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode (C or I) = (C)oncentration, (I)ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	✓									95-007941-N3	Method Blank (Na2O2 Fusion)	2X	K. Silvers	K28866	95D255A	ICP1	9/12/95 [illegible]
	✓									95-007941-N1	Segment 1 "	10X					
	✓									95-007941-N1	" " "	2X					
	✓									95-007941-N1-PS	" " Post Digest Spike "	5X					
	✓									95-007941-N2	" " Duplicate "	10X					
	✓									95-007941-N2	" " " "	2X					
	✓									95-007943-N1	Qtr Seg 2D "	10X					
	✓									95-007943-N1	" " " "	2X					
	✓								✓	Fail-Be, Li, Si Low	MCVA 950728I901						
	✓								✓	Fail-K High	" "						
	✓								✓	PASS	" "						
	✓								✓		SST-ICS-1 950908I101						
	✓						✓				STD1-Blank 108444						
	✓								✓		SST-ICS-1 960908I101						
	✓						✓				STD 1-Blank 108444						
	✓									95-007944-N1	Qtr Seg 3A (Na2O2 Fusion)	10X					
	✓									95-007944-N1	" " " "	2X					
	✓									95-007945-N1	" " 4A "	10X					
	✓									95-007945-N1	" " " "	2X					
	✓									95-007945-N1-PS	" " " Post Digest Spike "	5X					
	✓									95-007946-N1	" " 4B "	10X					
	✓									95-007946-N1	" " " "	2X					
	✓									95-007947-N1	" " 4C "	10X					
	✓									95-007947-N	" " " "	2X					
	✓								✓	PASS	MCVA 960728I901						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = (C)oncentration, (I)ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓		SST-ICS-1 950908I101		K. Silvers	K28966	950255A	ICP1	9/13/95 [illegible]
	2	✓					✓				STD1-Blank 108444						
	3	✓								95-007948-N1	Qtr Seg 4D (Na2O2 Fusion)	10X					
	4	✓								95-007948-N1	" " " "	2X					
	5	✓									SRM-2709-N "	10X					
	6	✓									" " " "	2X					
	7	✓							✓	PASS	MCVA 950728I901						
	8	✓							✓		SST-ICS-1 950908I101						
	9	✓							✓	PASS⊗	MCVB 950911H901						
	10	✓							✓		SRM-1643C 103668						
	11	✓						✓			CCV1 950713H901						
	12	✓					✓				STD1-Blank 108444						
	13																
	14																
	15																
	16																
	17																
	18																
	19																
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Analysis Report Summary Tue 09-12-95 06:47:10 PM page 1

95D255A ICV-325-405-1 9/12/95 DRS

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D255A	ICP1	09/12/95	08:52	DRS	S	INT
2	SPC-BLK 108444	95D255A	ICP1	09/12/95	08:52	DRS	S	CONC
3	SPC-STD 950831I101	95D255A	ICP1	09/12/95	08:55	DRS	S	INT
4	SPC-STD 950831I101	95D255A	ICP1	09/12/95	08:55	DRS	S	CONC
5	STD1-Blank	95D255A	ICP1	09/12/95	09:02		X	IR
6	STD2	95D255A	ICP1	09/12/95	09:04		X	IR
7	STD3	95D255A	ICP1	09/12/95	09:08		X	IR
8	STD4	95D255A	ICP1	09/12/95	09:11		X	IR
9	STD5	95D255A	ICP1	09/12/95	09:15		X	IR
10	STD6	95D255A	ICP1	09/12/95	09:18		X	IR
11	STD7	95D255A	ICP1	09/12/95	09:22		X	IR
12	STD8	95D255A	ICP1	09/12/95	09:26		X	IR
13	STD9	95D255A	ICP1	09/12/95	09:29		X	IR
14	STD1-Blank 108444	95D255A	ICP1	09/12/95	09:39	DRS	S	CONC
15	MCVA 950728I901	95D255A	ICP1	09/12/95	09:43	DRS	Q	CONC
16	MCVB 950911H901	95D255A	ICP1	09/12/95	09:46	DRS	Q	CONC
17	SRM-1643c 103668	95D255A	ICP1	09/12/95	09:50	DRS	Q	CONC
18	CCV1 950713H901	95D255A	ICP1	09/12/95	09:55	DRS	S	CONC
19	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	10:00	DRS	S	CONC
20	STD1-Blank 108444	95D255A	ICP1	09/12/95	10:06	DRS	S	CONC
21	95-007932-A3 @2	95D255A	ICP1	09/12/95	10:09	DRS	S	CONC
22	95-007932-A3	95D255A	ICP1	09/12/95	10:13	DRS	S	CONC
23	95-007932-A4 @2	95D255A	ICP1	09/12/95	10:19	DRS	S	CONC
24	95-007932-A4 @10	95D255A	ICP1	09/12/95	10:24	DRS	S	CONC
25	95-007932-A4 @50	95D255A	ICP1	09/12/95	10:29	DRS	S	CONC
26	Na @500 PPM	95D255A	ICP1	09/12/95	10:33	DRS	S	CONC
27	95-007932-A5 @50	95D255A	ICP1	09/12/95	10:39	DRS	S	CONC
28	95-007932-A5 @10	95D255A	ICP1	09/12/95	10:43	DRS	S	CONC
29	95-007932-A5	95D255A	ICP1	09/12/95	10:47	DRS	S	CONC
30	MCVA 950728I901	95D255A	ICP1	09/12/95	10:51	DRS	Q	CONC
31	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	10:57	DRS	S	CONC
32	STD1-Blank 108444	95D255A	ICP1	09/12/95	11:01	DRS	S	CONC
33	95-007932-A1 @50	95D255A	ICP1	09/12/95	11:03	DRS	S	CONC
34	95-007932-A1 @10	95D255A	ICP1	09/12/95	11:07	DRS	S	CONC
35	95-007932-A1 @5	95D255A	ICP1	09/12/95	11:14	DRS	S	CONC
36	95-007932-A2 @50	95D255A	ICP1	09/12/95	11:18	DRS	S	CONC
37	95-007932-A2 @10	95D255A	ICP1	09/12/95	11:22	DRS	S	CONC
38	95-007932-A2 @5	95D255A	ICP1	09/12/95	11:26	DRS	S	CONC
39	95-007935-A1 @50	95D255A	ICP1	09/12/95	11:30	DRS	S	CONC
40	95-007935-A1 @10	95D255A	ICP1	09/12/95	11:34	DRS	S	CONC
41	95-007935-A1 @5	95D255A	ICP1	09/12/95	11:38	DRS	S	CONC
42	STD9 FOR W @50 PPM	95D255A	ICP1	09/12/95	11:43	DRS	S	CONC
43	MCVA 950728I901	95D255A	ICP1	09/12/95	11:47	DRS	Q	CONC
44	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	11:51	DRS	S	CONC
45	STD1-Blank 108444	95D255A	ICP1	09/12/95	11:55	DRS	S	CONC
46	95-007935-A2 @50	95D255A	ICP1	09/12/95	11:57	DRS	S	CONC
47	95-007935-A2 @10	95D255A	ICP1	09/12/95	12:01	DRS	S	CONC
48	95-007935-A2 @5	95D255A	ICP1	09/12/95	12:05	DRS	S	CONC
49	MCVA 950728I901	95D255A	ICP1	09/12/95	12:09	DRS	Q	CONC
50	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	12:13	DRS	S	CONC
51	MCVB 950911H901	95D255A	ICP1	09/12/95	12:17	DRS	Q	CONC
52	SRM-1643c 103668	95D255A	ICP1	09/12/95	12:21	DRS	Q	CONC
53	CCV1 950713H901	95D255A	ICP1	09/12/95	12:25	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	STD1-Blank 108444	95D255A	ICP1	09/12/95	12:29	DRS	S	CONC
55	STD1-Blank	95D255A	ICP1	09/12/95	13:51		X	IR
56	STD2	95D255A	ICP1	09/12/95	13:53		X	IR
57	STD3	95D255A	ICP1	09/12/95	13:57		X	IR
58	STD4	95D255A	ICP1	09/12/95	14:01		X	IR
59	STD5	95D255A	ICP1	09/12/95	14:05		X	IR
60	STD6	95D255A	ICP1	09/12/95	14:08		X	IR
61	STD7	95D255A	ICP1	09/12/95	14:12		X	IR
62	STD8	95D255A	ICP1	09/12/95	14:16		X	IR
63	STD9	95D255A	ICP1	09/12/95	14:20		X	IR
64	STD1-Blank 108444	95D255A	ICP1	09/12/95	14:35	DRS	S	CONC
65	2% HNO3 DILUENT PUMP	95D255A	ICP1	09/12/95	14:37	DRS	S	CONC
66	"PIPETED" STD1-BLK	95D255A	ICP1	09/12/95	14:40	DRS	S	CONC
67	MCVA @5X	95D255A	ICP1	09/12/95	14:43	DRS	S	CONC
68	STD1-Blank 108444	95D255A	ICP1	09/12/95	14:46	DRS	S	CONC
69	MCVA 950728H901	95D255A	ICP1	09/12/95	14:49	DRS	Q	CONC
70	MCVA 950728H901	95D255A	ICP1	09/12/95	14:58	DRS	Q	CONC
71	MCVB 950911H901	95D255A	ICP1	09/12/95	15:02	DRS	Q	CONC
72	SRM-1643c 103668	95D255A	ICP1	09/12/95	15:06	DRS	Q	CONC
73	CCV1 950713H901	95D255A	ICP1	09/12/95	15:10	DRS	S	CONC
✓74	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	15:18	DRS	S	CONC
75	STD1-Blank 108444	95D255A	ICP1	09/12/95	15:24	DRS	S	CONC
76	95-007941-N3 @5	95D255A	ICP1	09/12/95	15:26	DRS	S	CONC
77	95-007941-N3 @2	95D255A	ICP1	09/12/95	15:30	DRS	S	CONC
78	95-007941-N1 @10	95D255A	ICP1	09/12/95	15:35	DRS	S	CONC
79	95-007941-N1 @2	95D255A	ICP1	09/12/95	15:39	DRS	S	CONC
✓80	95-007941-N1 PSRS	95D255A	ICP1	09/12/95	15:45	DRS	S	CONC
81	95-007941-N2 @10	95D255A	ICP1	09/12/95	15:51	DRS	S	CONC
82	95-007941-N2 @2	95D255A	ICP1	09/12/95	15:59	DRS	S	CONC
83	95-007943-N1 @10	95D255A	ICP1	09/12/95	16:04	DRS	S	CONC
84	95-007943-N1 @2	95D255A	ICP1	09/12/95	16:10	DRS	S	CONC
85	MCVA 950728I901	95D255A	ICP1	09/12/95	16:15	DRS	Q	CONC
86	MCVA 950728I901	95D255A	ICP1	09/12/95	16:19	DRS	Q	CONC
87	MCVA 950728I901	95D255A	ICP1	09/12/95	16:39	DRS	Q	CONC
✓88	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	16:44	DRS	S	CONC
89	STD1-Blank 108444	95D255A	ICP1	09/12/95	16:48	DRS	S	CONC
✓90	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	16:53	DRS	S	CONC
91	STD1-Blank 108444	95D255A	ICP1	09/12/95	17:05	DRS	S	CONC
92	95-007944-N1 @10	95D255A	ICP1	09/12/95	17:07	DRS	S	CONC
93	95-007944-N1 @2	95D255A	ICP1	09/12/95	17:10	DRS	S	CONC
94	95-007945-N1 @10	95D255A	ICP1	09/12/95	17:15	DRS	S	CONC
95	95-007945-N1 @2	95D255A	ICP1	09/12/95	17:19	DRS	S	CONC
96	95-007945-N1-PS @5	95D255A	ICP1	09/12/95	17:22	DRS	S	CONC
97	95-007946-N1 @10	95D255A	ICP1	09/12/95	17:26	DRS	S	CONC
98	95-007946-N1 @2	95D255A	ICP1	09/12/95	17:30	DRS	S	CONC
99	95-007947-N1 @10	95D255A	ICP1	09/12/95	17:34	DRS	S	CONC
100	95-007947-N1 @2	95D255A	ICP1	09/12/95	17:39	DRS	S	CONC
101	MCVA 950728I901	95D255A	ICP1	09/12/95	17:44	DRS	Q	CONC
✓102	SST-ICS-1 95-9[illegible]I101	95D255A	ICP1	09/12/95	17:52	DRS	S	CONC
103	STD1-Blank 108444	95D255A	ICP1	09/12/95	17:56	DRS	S	CONC
104	95-007948-N1 @10	95D255A	ICP1	09/12/95	17:58	DRS	S	CONC
105	95-007948-N1 @2	95D255A	ICP1	09/12/95	18:02	DRS	S	CONC
106	SRM-2709-N @10X DIL	95D255A	ICP1	09/12/95	18:08	DRS	S	CONC
107	SRM-2709-N @2	95D255A	ICP1	09/12/95	18:12	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	MCVA 950728I901	95D255A	ICP1	09/12/95	18:17	DRS	Q	CONC
109	SST-ICS-1 95-9111101	95D255A	ICP1	09/12/95	18:20	DRS	S	CONC
110	MCVB 950911H901	95D255A	ICP1	09/12/95	18:25	DRS	Q	CONC
111	SRM-1643c 103668	95D255A	ICP1	09/12/95	18:29	DRS	Q	CONC
112	CCV1 950713H901	95D255A	ICP1	09/12/95	18:33	DRS	S	CONC
113	STD1-Blank 108444	95D255A	ICP1	09/12/95	18:36	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6567.67	2085.33	1662.67	1068.67	305.667	172
2	SPC-BLK 108444	.0021	-.0050	-.0098	-.0006	.0003	-.0000
3	SPC-STD 950831I101	6729.33	2133.33	1730.33	1117	310.667	173.333
4	SPC-STD 950831I101	.0065	-.0017	.0137	.0038	.0009	.0000
5	STD1-Blank	.65596	.20796	.1659	.10539	.0304	.0172
6	STD2					8.38829	
7	STD3		75.8081		51.7494		
8	STD4						
9	STD5			27.9472			
10	STD6						
11	STD7						1.92826
12	STD8	30.8951					
13	STD9						
14	STD1-Blank 108444	-.0007	.0033	.0075	.0080	.0002	.0000
15	MCVA 950728I901	.4884	24.98	2.595	1.996	.5074	.0947
16	MCVB 950911H901	.0012	-.1766	.0196	.0076	.0008	.0003
17	SRM-1643c 103668	.0023	.1120	Q.0914	Q.1155	.0482	.0218
18	CCV1 950713H901	-.0006	1.913	2.013	1.951	.9987	.9769
19	SST-ICS-0 950908I100	-.0074	97.39	.1145	.0038	.0004	.0007
20	STD1-Blank 108444	.0006	.0062	.0105	.0036	.0002	.0000
21	95-007932-A3 @2	-.0003	.0717	.0139	.8091	.0014	-.0000
22	95-007932-A3	-.0012	.1267	.0087	1.584	.0019	-.0001
23	95-007932-A4 @2	k.0122	S5289.	k-47.70	k1.747	k.0036	k.0114
24	95-007932-A4 @10	.0027	284.9	.2380	.3767	.0013	.0025
25	95-007932-A4 @50	-.0028	58.98	.0374	.0792	-.0001	.0004
26	Na @500 PPM	-.0009	.0461	.0061	.0868	.0001	-.0000
27	95-007932-A5 @50	-.0018	.1782	.0015	.0415	-.0000	-.0000
28	95-007932-A5 @10	-.0017	.9133	.0039	.2045	.0000	-.0000
29	95-007932-A5	-.0101	8.746	.0029	1.927	.0005	-.0001
30	MCVA 950728I901	.4911	25.18	2.630	2.004	.5111	.0951
31	SST-ICS-0 950908I100	-.0082	97.86	.1193	-.0011	.0003	.0007
32	STD1-Blank 108444	-.0016	.0064	.0052	.0019	.0000	-.0000
33	95-007932-A1 @50	-.0020	57.82	.0432	.0692	-.0001	.0004
34	95-007932-A1 @10	.0021	283.6	.2428	.3431	.0010	.0024
35	95-007932-A1 @5	.0064	549.7	.4831	.6464	.0017	.0047
36	95-007932-A2 @50	.0002	55.47	.0579	.0650	.0003	.0004
37	95-007932-A2 @10	.0036	279.4	.2598	.3233	.0012	.0024
38	95-007932-A5 @5	.0066	542.4	.5074	.6228	.0020	.0047
39	95-007935-A1 @50	-.0013	60.48	.0629	.0744	.0005	.0005
40	95-007935-A1 @10	-.0051	299.5	.2712	.3552	.0014	.0026
41	95-007935-A1 @5	-.0146	603.9	.4878	.7089	.0021	.0051
42	STD9 FOR W @50 PPM	-.0576	1.231	.1083	4.591	.0063	.0001
43	MCVA 950728I901	.4855	24.85	2.594	1.996	.5055	.0939
44	SST-ICS-0 950908I100	-.0111	99.60	.1148	.0032	.0001	.0006
45	STD1-Blank 108444	-.0016	.0071	.0077	.0052	.0000	-.0000
46	95-007935-A2 @50	-.0032	61.65	.0434	.0776	.0004	.0004
47	95-007935-A2 @10	-.0053	299.4	.2597	.3566	.0025	.0026
48	95-007935-A2 @5	-.0140	600.9	.5046	.7123	.0033	.0051
49	MCVA 950728I901	.4884	24.92	2.615	2.005	.5083	.0946
50	SST-ICS-0 950908I100	-.0082	96.98	.1334	.0019	.0007	.0007
51	MCVB 950911H901	.0018	-.1534	.0303	.0022	.0005	.0002
52	SRM-1643c 103668	Q-.0015	Q.1056	Q.0931	Q.1163	.0492	.0221
53	CCV1 950713H901	-.0005	1.922	2.055	1.966	1.004	.9774

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	STD1-Blank 108444	-.0013	.0019	.0094	.0026	.0001	.0000
55	STD1-Blank	.6334	.20329	.16189	.10183	.02976	.01666
56	STD2					8.20553	
57	STD3		75.2325		51.1415		
58	STD4						
59	STD5			27.5388			
60	STD6						
61	STD7						1.87776
62	STD8	30.5297					
63	STD9						
64	STD1-Blank 108444	-.0008	-.0033	-.0001	.0045	-.0001	.0000
65	2% HNO3 DILUENT PUMP	.0018	.0054	.0061	.0075	.0003	.0001
66	"PIPETED" STD1-BLK	.0015	.0052	.0070	.0054	.0004	.0000
67	MCVA @5X	.0982	5.015	.5176	.4049	.1032	.0190
68	STD1-Blank 108444	-.0026	-.0100	-.0081	.0030	-.0004	.0000
69	MCVA 950728H901	.4875	25.04	2.563	1.983	.5141	.0935
70	MCVA 950728H901	.4846	24.53	2.548	1.969	.5078	.0927
71	MCVB 950911H901	-.0010	-.1934	-.0100	.0096	-.0001	.0002
72	SRM-1643c 103668	Q-.0020	Q.0921	Q.0723	Q.1167	.0495	.0217
73	CCV1 950713H901	-.0006	1.885	1.988	1.923	1.007	.9548
74	SST-ICS-1 950911I101	-.0054	89.85	.1300	.0026	.0006	.0008
75	STD1-Blank 108444	.0004	-.0041	-.0048	-.0005	-.0001	.0000
76	95-007941-N3 @5	-.0077	.0365	.0058	.1309	.0024	.0002
77	95-007941-N3 @2	-.0166	.0900	.0215	.3049	.0061	.0004
78	95-007941-N1 @10	.0052	15.30	.0244	.1030	.0028	.0001
79	95-007941-N1 @2	.0118	69.08	.1105	.4589	.0102	.0004
80	95-007941-N1 SPK@2.5	.0168	34.23	.0884	.1783	.0065	.0007
81	95-007941-N2 @10	.0102	13.75	.0373	.1086	.0043	.0003
82	95-007941-N2 @2	.0113	64.05	.1212	.4910	.0109	.0005
83	95-007943-N1 @10	.0127	14.48	.0398	.0394	.0055	.0004
84	95-007943-N1 @2	.0089	68.68	.1264	.1656	.0151	.0007
85	MCVA 950728I901	.4630	23.03	2.448	1.835	.4719	Q.0879
86	MCVA 950728I901	.4901	25.25	2.566	1.991	.5209	.0940
87	MCVA 950728I901	.4842	24.07	2.535	1.937	.5086	.0918
88	SST-ICS-1 950911I101	-.0030	89.11	.1833	.0154	.0014	.0007
89	STD1-Blank 108444	.0025	.0152	-.0008	.0082	.0006	.0001
90	SST-ICS-1 950911I101	-.0060	91.82	.1641	.0074	.0010	.0007
91	STD1-Blank 108444	.0004	.0306	.0007	.0247	-.0000	.0000
92	95-007944-N1 @10	.0025	3.648	.0219	.1076	.0027	.0001
93	95-007944-N1 @2	.0059	17.07	.0525	.4215	.0111	.0003
94	95-007945-N1 @10	.0017	1.717	.0200	.0493	.0333	.0001
95	95-007945-N1 @2	.0024	8.033	.0646	.2099	.1477	.0005
96	95-007945-N1-PS @5	.0032	12.31	.0524	.0890	.0638	.0005
97	95-007946-N1 @10	.0008	1.280	.0273	.0547	.0668	.0002
98	95-007946-N1 @2	-.0026	6.027	.0579	.2331	.2993	.0007
99	95-007947-N1 @10	.0055	.8162	.0251	.0302	.0124	.0002
100	95-007947-N1 @2	.0057	3.886	.0598	.1331	.0519	.0005
101	MCVA 950728I901	.4936	24.55	2.627	1.966	.5223	.0953
102	SST-ICS-1 95-911I101	-.0060	91.24	.1788	.0002	.0007	.0007
103	STD1-Blank 108444	.0026	.0102	.0030	.0002	.0002	.0000
104	95-007948-N1 @10	.0048	.9648	.0325	.0485	.0147	.0001
105	95-007948-N1 @2	.0076	4.496	.0634	.2188	.0631	.0005
106	SRM-2709-N @10X DIL	.0022	10.53	.0495	.0362	.1388	.0011
107	SRM-2709-N @2	-.0168	50.30	.1433	.1672	.6347	.0046

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#	Sample Name	Ag	Al	As	B	Ba	Be
108	MCVA 950728I901	.4751	23.91	2.523	1.915	.5116	.0920
109	SST-ICS-1 95-911I101	-.0050	89.95	.1776	-.0003	.0010	.0007
110	MCVB 950911H901	.0014	-.1825	-.0002	-.0041	.0005	.0003
111	SRM-1643c 103668	Q-.0014	Q.0963	Q.0879	Q.1081	.0510	.0221
112	CCV1 950713H901	.0001	1.881	2.012	1.900	1.026	.9633
113	STD1-Blank 108444	-.0009	-.0002	.0028	-.0038	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1438	1255.67	444	6274.33	1420.67	470.333
2	SPC-BLK 108444	.0030	.0012	.0004	.0171	.0004	-.0004
3	SPC-STD 950831I101	1711.33	1253.67	453.333	6344.33	1445.67	486.333
4	SPC-STD 950831I101	-.0022	-.0003	.0011	.0293	.0030	.0020
5	STD1-Blank	.14199	.1253	.0452	.62663	.14136	.04713
6	STD2					18.078	13.1584
7	STD3		81.0996	10.1952			
8	STD4						
9	STD5				25.7538		
10	STD6						
11	STD7						
12	STD8	27.7597					
13	STD9						
14	STD1-Blank 108444	.0030	.0006	-.0011	-.0006	.0005	.0018
15	MCVA 950728I901	24.71	25.09	.5044	-.0270	1.027	1.027
16	MCVB 950911H901	.0163	.0256	-.0003	1.947	.0040	.0016
17	SRM-1643c 103668	.0293	Q35.05	Q.0104	.0096	Q.0258	Q.0204
18	CCV1 950713H901	1.936	1.943	.9893	.0022	1.036	.5165
19	SST-ICS-0 950908I100	.0562	.0752	.0087	-.1271	.0062	.0357
20	STD1-Blank 108444	.0066	.0024	-.0009	.0029	.0018	-.0001
21	95-007932-A3 @2	.0003	.0397	-.0002	-.0038	.0014	.0001
22	95-007932-A3	-.0012	.0126	-.0013	-.0106	.0005	.0016
23	95-007932-A4 @2	k.1827	k2.359	k.5727	k.0279	k.3063	k10.79
24	95-007932-A4 @10	.0408	.5924	.0238	.0156	.0690	2.376
25	95-007932-A4 @50	.0062	.0909	.0047	-.0202	.0130	.4970
26	Na @500 PPM	.0003	.3083	-.0008	.0262	.0004	.0008
27	95-007932-A5 @50	.0002	.0555	.0039	.0089	.0003	.0280
28	95-007932-A5 @10	.0073	.4436	.0211	-.0019	.0002	.1393
29	95-007932-A5	-.0180	4.236	.2066	-.0630	-.0066	1.314
30	MCVA 950728I901	24.82	25.22	.5009	-.0354	1.034	1.034
31	SST-ICS-0 950908I100	.0578	.0766	.0069	-.1322	.0048	.0352
32	STD1-Blank 108444	.0000	.0007	-.0012	-.0079	.0001	-.0003
33	95-007932-A1 @50	.0015	-.0280	-.0010	-.0107	.0127	.4563
34	95-007932-A1 @10	.0415	.0035	.0007	.0072	.0703	2.238
35	95-007932-A1 @5	.0759	.0360	.0014	.0184	.1326	4.290
36	95-007932-A2 @50	.0090	-.0231	-.0001	.0008	.0151	.4438
37	95-007932-A2 @10	.0439	.0039	-.0007	.0142	.0711	2.218
38	95-007932-A5 @5	.0776	.0430	.0021	.0246	.1329	4.243
39	95-007935-A1 @50	.0118	-.0185	-.0013	.0053	.0148	.4857
40	95-007935-A1 @10	.0430	.0255	-.0021	.0215	.0705	2.351
41	95-007935-A1 @5	.0773	.0852	-.0001	.0162	.1339	4.633
42	STD9 FOR W @50 PPM	.0033	.0313	-.0008	-.0105	.0058	.0009
43	MCVA 950728I901	24.60	24.96	.4939	-.0349	1.024	1.016
44	SST-ICS-0 950908I100	.0582	.0752	.0071	-.1639	.0030	.0370

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
45	STD1-Blank 108444	.0003	.0016	-.0005	-.0104	.0006	-.0001
46	95-007935-A2 @50	.0123	-.0240	-.0006	-.0074	.0143	.4801
47	95-007935-A2 @10	.0353	.0224	.0003	.0193	.0709	2.328
48	95-007935-A2 @5	.0753	.0724	.0000	.0217	.1341	4.608
49	MCVA 950728I901	24.66	25.19	.4945	-.0325	1.035	1.031
50	SST-ICS-0 950908I100	.0642	.0788	.0066	-.1391	.0058	.0367
51	MCVB 950911H901	-.0029	.0230	.0009	1.979	.0036	.0012
52	SRM-1643c 103668	.0128	35.72	.0112	-.0142	Q.0252	Q.0220
53	CCV1 950713H901	1.943	1.958	.9877	-.0034	1.046	.5169
54	STD1-Blank 108444	.0091	.0032	-.0019	-.0089	.0011	.0008
55	STD1-Blank	.13779	.12286	.0438	.60696	.13746	.04596
56	STD2					17.6271	12.6761
57	STD3		79.4342	9.97683			
58	STD4						
59	STD5				25.3919		
60	STD6						
61	STD7						
62	STD8	27.3371					
63	STD9						
64	STD1-Blank 108444	-.0008	-.0005	-.0001	-.0018	.0000	-.0013
65	2% HNO3 DILUENT PUMP	.0069	-.0360	.0007	.0125	.0015	.0006
66	"PIPETED" STD1-BLK	.0042	.0102	-.0012	.0098	.0019	-.0006
67	MCVA @5X	4.985	5.017	.0983	-.0063	.2098	.2084
68	STD1-Blank 108444	-.0042	-.0028	.0001	-.0144	-.0014	-.0012
69	MCVA 950728H901	24.53	24.80	.4914	-.0420	1.026	1.028
70	MCVA 950728H901	24.35	24.67	.4973	-.0269	1.026	1.026
71	MCVB 950911H901	-.0045	.0116	.0004	1.968	.0008	.0013
72	SRM-1643c 103668	.0061	Q34.85	Q.0135	-.0142	Q.0202	.0186
73	CCV1 950713H901	1.899	1.903	.9803	.0031	1.034	.5141
74	SST-ICS-1 950911I101	.0601	.0433	.0103	-.0917	.0078	.0379
75	STD1-Blank 108444	.0036	-.0032	.0011	.0220	-.0004	-.0019
76	95-007941-N3 @5	.0100	.8145	.0014	-.1310	.0032	.0096
77	95-007941-N3 @2	.0353	1.950	.0039	-.3126	.0087	.0257
78	95-007941-N1 @10	.0081	.4168	.0013	.0375	.0045	.0195
79	95-007941-N1 @2	.0397	2.031	.0049	.0983	.0132	.0842
80	95-007941-N1 SPK@2.5	.0493	4.902	.2187	.1187	.0159	1.293
81	95-007941-N2 @10	.0343	.3780	.0027	.0654	.0098	.0199
82	95-007941-N2 @2	.0524	1.881	.0046	.0468	.0163	.0801
83	95-007943-N1 @10	.0374	.4089	.0043	.0797	.0131	.0440
84	95-007943-N1 @2	.0679	1.984	.0064	-.0100	.0217	.1985
85	MCVA 950728I901	23.06	23.72	.4755	.0153	.9869	.9846
86	MCVA 950728I901	24.72	24.81	.4996	-.0436	1.034	1.036
87	MCVA 950728I901	24.15	24.29	.4877	-.0106	1.012	1.007
88	SST-ICS-1 950911I101	.0705	.0546	.0111	-.1090	.0113	.0390
89	STD1-Blank 108444	.0064	.0041	.0013	.0170	.0022	-.0008
90	SST-ICS-1 950911I101	.0629	.0486	.0102	-.1264	.0102	.0410
91	STD1-Blank 108444	-.0036	.0164	.0014	.0015	.0009	-.0005
92	95-007944-N1 @10	.0090	.4451	.0018	.0100	.0043	.0213
93	95-007944-N1 @2	.0385	2.162	.0035	.0185	.0143	.1024
94	95-007945-N1 @10	.1482	1.753	.0018	.0032	.0056	.0689
95	95-007945-N1 @2	.7154	8.318	.0052	-.0301	.0212	.3214
96	95-007945-N1-PS @5	.3068	8.070	.2404	-.0005	.0127	1.572
97	95-007946-N1 @10	.3293	1.753	.0021	-.0169	.0067	.0559
98	95-007946-N1 @2	1.520	8.324	.0060	-.0898	.0204	.2578

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
99	95-007947-N1 @10	.1128	2.245	.0022	.0294	.0076	.0115
100	95-007947-N1 @2	.4879	10.79	.0049	.0229	.0175	.0509
101	MCVA 950728I901	24.84	24.91	.4946	-.0325	1.043	1.039
102	SST-ICS-1 95-911I101	.0656	.0467	.0091	-.1297	.0106	.0404
103	STD1-Blank 108444	-.0006	.0034	.0022	.0101	.0025	-.0010
104	95-007948-N1 @10	.1277	1.329	.0027	.0263	.0075	.0140
105	95-007948-N1 @2	.5919	6.306	.0069	.0600	.0202	.0601
106	SRM-2709-N @10X DIL	.0288	3.228	.0032	-.0228	.0116	.0369
107	SRM-2709-N @2	.0719	15.22	.0069	-.3170	.0259	.1595
108	MCVA 950728I901	23.96	23.95	.4708	-.0429	1.008	1.006
109	SST-ICS-1 95-911I101	.0596	.0481	.0099	-.1214	.0111	.0417
110	MCVB 950911H901	-.0065	.0113	.0009	2.003	.0038	.0012
111	SRM-1643c 103668	.0045	Q35.00	Q.0100	-.0180	.0227	Q.0197
112	CCV1 950713H901	1.928	1.899	.9696	.0012	1.037	.5174
113	STD1-Blank 108444	-.0022	-.0049	.0003	-.0034	.0002	-.0018

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	453.667	1943.33	337	561.667	2165.33	988.667
2	SPC-BLK 108444	-.0028	.0010	.0004	-.0006	.6901	.0014
3	SPC-STD 950831I101	23836	2199	341	624.667	2192.67	1004
4	SPC-STD 950831I101	10.27	-.0004	.0009	.0001	1.139	.0058
5	STD1-Blank	.04666	.19363	.03363	.05623	.21609	.09856
6	STD2	4.68363			76.8637		
7	STD3					3.1728	
8	STD4		50.5839	11.6515			6.39973
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0003	-.0009	.0000	-.0010	-.1184	-.0004
15	MCVA 950728I901	.9978	-.0004	.0021	20.44	25.95	.0039
16	MCVB 950911H901	.0030	1.929	1.920	.0063	.2818	1.925
17	SRM-1643c 103668	.0209	-.0001	.0013	Q.1190	2.227	.0072
18	CCV1 950713H901	2.014	-.0008	.0005	2.016	4.814	.0006
19	SST-ICS-0 950908I100	-.0069	-.0039	.0006	19.91	.0000	.0045
20	STD1-Blank 108444	-.0008	.0003	.0003	.0010	-.0169	.0012
21	95-007932-A3 @2	.0026	-.0007	.0000	.0130	-.2086	-.0009
22	95-007932-A3	-.0020	-.0026	-.0006	.0194	-.6821	-.0029
23	95-007932-A4 @2	k.1440	k.0019	k.0027	k4.277	107.0	k.0176
24	95-007932-A4 @10	.0266	.0006	.0007	.9499	23.31	.0048
25	95-007932-A4 @50	-.0003	-.0029	-.0006	.1996	4.425	-.0042
26	Na @500 PPM	-.0046	-.0006	-.0000	.0029	-.2931	-.0004
27	95-007932-A5 @50	-.0055	-.0012	-.0002	.0042	-.0113	-.0014
28	95-007932-A5 @10	-.0051	-.0022	-.0003	.0061	1.488	-.0019
29	95-007932-A5	-.0081	-.0139	-.0033	.0195	16.98	-.0151
30	MCVA 950728I901	.9968	-.0001	.0020	20.57	26.72	.0044
31	SST-ICS-0 950908I100	-.0182	-.0038	.0005	19.95	-.0789	.0039
32	STD1-Blank 108444	-.0039	-.0004	-.0001	.0015	-.3269	-.0009
33	95-007932-A1 @50	.0010	-.0014	-.0003	.1971	4.346	-.0020
34	95-007932-A1 @10	.0282	.0010	.0009	.9478	21.25	.0044
35	95-007932-A1 @5	.0573	.0030	.0016	1.811	40.74	.0099

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
36	95-007932-A2 @50	.0025	.0009	.0004	.1922	4.340	.0019
37	95-007932-A2 @10	.0281	.0024	.0013	.9398	20.91	.0069
38	95-007932-A5 @5	.0580	.0035	.0019	1.797	39.51	.0109
39	95-007935-A1 @50	.0125	.0011	.0005	.1619	4.459	.0027
40	95-007935-A1 @10	.0772	.0036	.0015	.7766	22.24	.0088
41	95-007935-A1 @5	.1572	.0024	.0017	1.520	43.40	.0094
42	STD9 FOR W @50 PPM	-.0001	.0008	.0003	.0337	-.3044	-.0004
43	MCVA 950728I901	.9870	-.0002	.0019	20.34	25.95	.0042
44	SST-ICS-0 950908I100	-.0166	-.0056	-.0002	20.18	-.4848	-.0003
45	STD1-Blank 108444	-.0018	-.0006	-.0002	.0004	-.5355	-.0015
46	95-007935-A2 @50	.0135	-.0004	.0001	.1750	4.538	.0003
47	95-007935-A2 @10	.0794	.0033	.0014	.8304	22.49	.0089
48	95-007935-A2 @5	.1574	.0032	.0018	1.628	43.37	.0109
49	MCVA 950728I901	.9896	.0004	.0021	20.51	25.39	.0052
50	SST-ICS-0 950908I100	-.0154	-.0021	.0008	19.89	.0000	.0049
51	MCVB 950911H901	-.0109	1.958	1.947	.0071	-.0958	1.959
52	SRM-1643c 103668	Q.0150	-.0019	.0004	Q.1190	Q1.640	.0030
53	CCV1 950713H901	2.012	.0000	.0004	2.031	4.673	.0011
54	STD1-Blank 108444	-.0008	-.0005	-.0001	-.0014	-.4904	-.0007
55	STD1-Blank	.04476	.18886	.03283	.05423	.2097	.09643
56	STD2	4.54556			74.6954		
57	STD3					3.00316	
58	STD4		49.6677	11.4511			6.31243
59	STD5						
60	STD6						
61	STD7						
62	STD8						
63	STD9						
64	STD1-Blank 108444	.0046	-.0010	-.0002	-.0007	-.1909	-.0012
65	2% HNO3 DILUENT PUMP	.0049	.0012	.0005	.0059	.3878	.0028
66	"PIPETED" STD1-BLK	.0063	.0014	.0005	.0013	.2923	.0019
67	MCVA @5X	.2057	-.0005	.0004	4.177	5.495	.0004
68	STD1-Blank 108444	.0019	-.0024	-.0006	-.0013	-.5191	-.0043
69	MCVA 950728H901	1.014	-.0007	.0018	20.47	Q27.79	.0033
70	MCVA 950728H901	1.005	.0010	.0023	20.35	26.21	.0061
71	MCVB 950911H901	-.0051	2.004	1.991	.0033	-.2557	2.004
72	SRM-1643c 103668	Q.0156	-.0032	.0001	Q.1168	Q1.953	.0010
73	CCV1 950713H901	2.048	-.0003	.0002	2.006	5.295	-.0009
74	SST-ICS-1 950911I101	-.0143	.0007	.0019	17.89	.4591	.0098
75	STD1-Blank 108444	-.0031	-.0000	.0002	-.0012	.0232	-.0002
76	95-007941-N3 @5	.0022	.0049	.0018	.0640	.5986	.0059
77	95-007941-N3 @2	.0119	.0126	.0047	.1427	1.761	.0153
78	95-007941-N1 @10	.0110	.0050	.0016	.1575	1.075	.0085
79	95-007941-N1 @2	.0596	.0122	.0039	.6802	2.976	.0241
80	95-007941-N1 SPK@2.5	.0248	.0144	.0050	.2788	18.78	.0305
81	95-007941-N2 @10	.0065	.0118	.0036	.1542	2.551	.0203
82	95-007941-N2 @2	.0203	.0175	.0058	.6675	3.894	.0303
83	95-007943-N1 @10	.0102	.0158	.0047	.1416	3.487	.0265
84	95-007943-N1 @2	.0226	.0206	.0066	.6137	4.981	.0339
85	MCVA 950728I901	.9354	.0069	.0039	19.35	24.89	.0154
86	MCVA 950728I901	1.029	-.0017	.0013	20.59	Q29.12	.0024
87	MCVA 950728I901	1.009	.0035	.0032	20.12	27.26	.0111
88	SST-ICS-1 950911I101	-.0072	.0040	.0026	18.16	1.112	.0136
89	STD1-Blank 108444	.0024	.0033	.0008	.0010	.5722	.0046

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
90	SST-ICS-1 950911I101	-.0136	.0017	.0021	18.66	.7234	.0110
91	STD1-Blank 108444	.0009	.0005	.0001	-.0008	.0818	.0005
92	95-007944-N1 @10	.0050	.0037	.0012	.1841	.8948	.0070
93	95-007944-N1 @2	.0212	.0104	.0035	.8280	2.575	.0200
94	95-007945-N1 @10	.0042	.0031	.0013	2.292	.7366	.0110
95	95-007945-N1 @2	.0188	.0083	.0041	10.46	2.504	.0415
96	95-007945-N1-PS @5	.0012	.0036	.0024	4.413	18.50	.0230
97	95-007946-N1 @10	.0042	.0039	.0016	3.203	.9767	.0096
98	95-007946-N1 @2	.0169	.0072	.0046	14.65	2.641	.0307
99	95-007947-N1 @10	.0101	.0066	.0024	3.889	1.479	.0152
100	95-007947-N1 @2	.0345	.0051	.0041	18.20	2.379	.0300
101	MCVA 9507281901	1.027	.0016	.0023	20.78	24.19	.0058
102	SST-ICS-1 95-911I101	-.0139	.0012	.0018	18.55	.5456	.0090
103	STD1-Blank 108444	.0027	.0023	.0007	.0019	.4365	.0026
104	95-007948-N1 @10	.0145	.0049	.0019	5.075	1.211	.0134
105	95-007948-N1 @2	.0575	.0060	.0047	23.11	2.630	.0357
106	SRM-2709-N @10X DIL	.0139	.0101	.0033	5.352	4.158	.0182
107	SRM-2709-N @2	.0478	.0174	.0077	24.52	13.99	.0378
108	MCVA 9507281901	1.004	-.0012	.0015	20.09	24.85	.0040
109	SST-ICS-1 95-911I101	-.0104	.0025	.0021	18.27	.7693	.0120
110	MCVB 950911H901	-.0067	2.014	1.995	.0059	.2728	1.991
111	SRM-1643c 103668	Q.0192	-.0023	.0004	Q.1196	Q1.888	.0042
112	CCV1 950713H901	2.073	.0002	.0003	2.017	5.205	.0010
113	STD1-Blank 108444	.0004	.0001	-.0001	-.0008	-.0764	-.0002

#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	416	2373.67	197	804	409	3669.67
2	SPC-BLK 108444	.0008	.0047	-.0001	-.0016	-.0129	.0128
3	SPC-STD 950831I101	27461.3	2515.33	73988.3	847.333	420.667	3725
4	SPC-STD 950831I101	9.395	.0265	9.992	-.0006	.0357	.0278
5	STD1-Blank	.04129	.23653	.01993	.08016	.041	.36693
6	STD2		46.9557		12.4302	5.95916	
7	STD3	13.9879		7.30116			
8	STD4						17.39
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0012	-.0027	-.0005	.0005	.0084	-.0018
15	MCVA 9507281901	1.940	26.53	.5131	1.030	24.93	.0084
16	MCVB 950911H901	.0029	.0848	.0001	.0030	.0245	1.912
17	SRM-1643c 103668	Q.0129	9.716	.0344	.1052	Q11.04	.0140
18	CCV1 950713H901	1.943	2.092	1.021	1.998	8.015	-.0007
19	SST-ICS-0 950908I100	.0037	.2662	.0014	.0099	.0010	-.0231
20	STD1-Blank 108444	.0011	.0097	-.0003	.0012	.0013	.0038
21	95-007932-A3 @2	.0002	.0053	-.0001	.0010	.9940	-.0033
22	95-007932-A3	.0001	.0060	-.0003	.0009	1.918	-.0150
23	95-007932-A4 @2	k.0368	k.0546	k-.0386	k-1.459	4922.	k.0189
24	95-007932-A4 @10	.0102	.0167	.0117	.1141	1429.	.0058
25	95-007932-A4 @50	.0001	-.0116	.0019	.0218	319.8	-.0165
26	Na @500 PPM	.0016	.0042	-.0003	.0008	499.0	-.0069

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
27	95-007932-A5 @50	.0006	.0030	.0014	-.0002	.3514	-.0091
28	95-007932-A5 @10	-.0009	.0074	.0091	.0004	1.814	-.0149
29	95-007932-A5	-.0051	.0654	.0877	-.0062	17.84	-.0715
30	MCVA 950728I901	1.982	26.69	.5154	1.036	25.67	.0074
31	SST-ICS-0 950908I100	.0045	.2815	.0011	.0085	.0120	-.0264
32	STD1-Blank 108444	.0006	.0008	-.0005	.0010	-.0056	-.0060
33	95-007932-A1 @50	.0013	-.0058	.0000	.0217	322.6	-.0114
34	95-007932-A1 @10	.0086	.0065	.0022	.1126	1424.	.0057
35	95-007932-A1 @5	.0168	.0165	.0053	.2178	2570.	.0197
36	95-007932-A2 @50	.0025	.0029	.0001	.0229	300.9	.0013
37	95-007932-A2 @10	.0098	.0112	.0024	.1132	1398.	.0120
38	95-007932-A5 @5	.0174	.0212	.0053	.2179	2529.	.0223
39	95-007935-A1 @50	.0029	.0092	.0003	.0254	296.5	.0053
40	95-007935-A1 @10	.0079	.0333	.0029	.1215	1387.	.0189
41	95-007935-A1 @5	.0119	.0281	.0056	.2320	2603.	.0151
42	STD9 FOR W @50 PPM	.0011	-.0928	-.0003	.0029	3.462	-.0037
43	MCVA 950728I901	1.954	26.36	.5110	1.028	25.29	.0044
44	SST-ICS-0 950908I100	.0029	.2757	.0010	.0081	-.0137	-.0376
45	STD1-Blank 108444	.0005	-.0023	-.0006	.0013	-.0027	-.0088
46	95-007935-A2 @50	.0017	.0017	.0004	.0243	311.9	-.0052
47	95-007935-A2 @10	.0113	.0248	.0037	.1189	1392.	.0189
48	95-007935-A2 @5	.0178	.0268	.0072	.2321	2594.	.0193
49	MCVA 950728I901	1.924	26.54	.5146	1.037	24.96	.0059
50	SST-ICS-0 950908I100	.0062	.3016	.0014	.0106	.0434	-.0177
51	MCVB 950911H901	.0029	.0919	.0004	.0017	.0260	1.940
52	SRM-1643c 103668	Q.0130	Q9.920	.0349	Q.1071	11.99	-.0044
53	CCV1 950713H901	1.964	2.099	1.029	2.015	8.136	-.0035
54	STD1-Blank 108444	.0005	.0017	-.0003	.0018	-.0083	-.0086
55	STD1-Blank	.04069	.22966	.01899	.07816	.04019	.35559
56	STD2		45.5975		12.1351	5.75543	
57	STD3	13.5612		7.17123			
58	STD4						17.1234
59	STD5						
60	STD6						
61	STD7						
62	STD8						
63	STD9						
64	STD1-Blank 108444	.0004	-.0017	-.0000	-.0004	-.0276	-.0039
65	2% HNO3 DILUENT PUMP	.0016	.0116	.0004	.0005	.0144	.0124
66	"PIPETED" STD1-BLK	.0011	.0098	.0003	.0008	.0157	.0115
67	MCVA @5X	.4029	5.447	.1029	.2086	5.257	.0029
68	STD1-Blank 108444	-.0020	-.0063	-.0001	-.0009	-.0419	-.0154
69	MCVA 950728H901	2.030	26.69	.5097	1.032	26.47	.0074
70	MCVA 950728H901	1.920	26.52	.5062	1.028	25.57	.0137
71	MCVB 950911H901	.0006	.0750	.0004	-.0014	-.0072	1.963
72	SRM-1643c 103668	Q.0110	Q9.940	.0346	.1025	Q13.06	-.0089
73	CCV1 950713H901	2.025	2.087	1.006	1.997	8.750	-.0026
74	SST-ICS-1 950911I101	.0115	.2920	.0021	.0102	3639.	.0044
75	STD1-Blank 108444	.0006	-.0096	.0001	-.0016	.1079	.0002
76	95-007941-N3 @5	.0065	.0274	.0019	.0036	2171.	.0221
77	95-007941-N3 @2	.0146	.0604	.0045	.0071	4186.	.0641
78	95-007941-N1 @10	.0099	.0330	.0037	.0039	1133.	.0310
79	95-007941-N1 @2	.0342	.1232	.0158	.0161	3963.	.0824
80	95-007941-N1 SPK@2.5	.0230	.2067	.0901	.0107	1853.	.0972

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
81	95-007941-N2 @10	.0152	.0584	.0038	.0073	1015.	.0711
82	95-007941-N2 @2	.0379	.1481	.0136	.0179	3829.	.1100
83	95-007943-N1 @10	.0228	.0717	.0042	.0094	989.1	.0947
84	95-007943-N1 @2	.0674	.1440	.0143	.0214	3820.	.1222
85	MCVA 950728I901	Q1.744	25.23	.4816	.9796	23.60	.0499
86	MCVA 950728I901	2.105	26.93	.5113	1.036	Q28.27	-.0026
87	MCVA 950728I901	1.906	26.27	.4979	1.017	27.41	.0338
88	SST-ICS-1 950911I101	.0150	.3196	.0027	.0149	3676.	.0294
89	STD1-Blank 108444	.0029	.0104	.0004	.0011	.1715	.0196
90	SST-ICS-1 950911I101	.0133	.3191	.0022	.0143	3751.	.0150
91	STD1-Blank 108444	.0043	-.0023	.0009	.0018	-.1358	.0044
92	95-007944-N1 @10	.0103	.0261	.0027	.0054	1186.	.0277
93	95-007944-N1 @2	.0319	.0794	.0102	.0176	4330.	.0846
94	95-007945-N1 @10	.0049	.1727	.0343	.0055	1201.	.0248
95	95-007945-N1 @2	.0177	.7679	.1558	.0145	4407.	.0754
96	95-007945-N1-PS @5	.0113	.4445	.1601	.0086	2195.	.0445
97	95-007946-N1 @10	.0061	.1799	.0387	.0052	1140.	.0320
98	95-007946-N1 @2	.0172	.7854	.1768	.0140	4246.	.0864
99	95-007947-N1 @10	.0079	.1612	.0410	.0086	1106.	.0505
100	95-007947-N1 @2	.0166	.6692	.1912	.0201	4276.	.0908
101	MCVA 950728I901	1.826	27.03	.5117	1.046	25.64	.0169
102	SST-ICS-1 95-911I101	.0127	.3141	.0021	.0151	3733.	.0098
103	STD1-Blank 108444	.0029	.0081	.0004	.0024	.0901	.0109
104	95-007948-N1 @10	.0074	.1824	.0601	.0058	1088.	.0428
105	95-007948-N1 @2	.0173	.7562	.2743	.0154	4041.	.1095
106	SRM-2709-N @10X DIL	.0158	2.425	.0839	.0095	1111.	.0597
107	SRM-2709-N @2	.0441	10.96	.3863	.0241	4174.	.0978
108	MCVA 950728I901	1.861	26.15	.4947	1.016	26.19	.0019
109	SST-ICS-1 95-911I101	.0129	.3162	.0021	.0157	3700.	.0152
110	MCVB 950911H901	.0019	.0916	.0007	.0008	.0420	2.001
111	SRM-1643c 103668	Q.0111	Q10.09	.0349	.1052	Q12.77	-.0042
112	CCV1 950713H901	1.954	2.122	1.004	2.006	8.714	.0026
113	STD1-Blank 108444	.0005	-.0018	.0003	.0022	-.1720	-.0042

#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	473	1306.33	13364.7	15258.7	15176.7	2605.33
2	SPC-BLK 108444	.0014	.0026	.0008	.0122	.0109	-.0085
3	SPC-STD 950831I101	483.667	1479.67	139173	15490	15400	2715.67
4	SPC-STD 950831I101	.0047	-.0011	10.41	.0547	.0306	.0208
5	STD1-Blank	.04706	.1289	1.3456	1.52303	1.5144	.25846
6	STD2	6.21449		61.3496			
7	STD3		14.4805				
8	STD4						37.2787
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9				21.5915	51.0764	
14	STD1-Blank 108444	.0011	.0112	-.0047	.0094	.0026	.0031
15	MCVA 950728I901	1.051	.0473	2.619	-.0132	-.0001	2.557
16	MCVB 950911H901	.0080	.0059	.0564	2.010	1.966	.0173
17	SRM-1643c 103668	.0612	.0250	.0351	.0236	.0093	.0057

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
18	CCV1 950713H901	2.091	4.734	2.058	.0077	-.0009	.0018
19	SST-ICS-0 950908I100	51.64	.0235	.1964	-.3452	-.0318	.0022
20	STD1-Blank 108444	.0052	.0078	.0011	.0248	.0100	.0052
21	95-007932-A3 @2	.0106	.0116	-.0011	.0053	.0021	.0129
22	95-007932-A3	.0176	.0059	.0003	-.0267	-.0169	.0099
23	95-007932-A4 @2	k13.21	k2.471	k-3.722	k.0844	k.1034	k-13.55
24	95-007932-A4 @10	2.948	3.718	1.217	.0367	.0282	-.0364
25	95-007932-A4 @50	.6190	.7417	.2315	-.0258	-.0149	-.0102
26	Na @500 PPM	-.0006	.0101	-.0065	-.0021	-.0037	.0194
27	95-007932-A5 @50	.0973	.0067	.0840	-.0122	-.0068	.0114
28	95-007932-A5 @10	.4942	.0095	.4734	-.0303	-.0139	.0043
29	95-007932-A5	4.539	-.0312	4.373	-.3072	-.1052	-.0316
30	MCVA 950728I901	1.066	.0590	2.613	-.0106	-.0027	2.567
31	SST-ICS-0 950908I100	51.94	.0319	.1879	-.3685	-.0317	.0018
32	STD1-Blank 108444	.0148	.0002	-.0048	-.0007	-.0030	.0119
33	95-007932-A1 @50	.5109	.7303	.1209	-.0071	-.0052	-.0073
34	95-007932-A1 @10	2.477	3.738	.7248	.0387	.0288	-.0411
35	95-007932-A1 @5	4.738	7.290	1.426	.0930	.0594	-.0737
36	95-007932-A2 @50	.5025	.7253	.1382	.0310	.0090	.0008
37	95-007932-A2 @10	2.451	3.695	.7296	.0630	.0402	-.0224
38	95-007932-A5 @5	4.686	7.221	1.436	.1004	.0649	-.0537
39	95-007935-A1 @50	.3959	.7246	.1585	.0297	.0168	.0109
40	95-007935-A1 @10	1.907	3.614	.7963	.0856	.0478	-.0267
41	95-007935-A1 @5	3.764	7.298	1.530	.0807	.0557	-.0898
42	STD9 FOR W @50 PPM	.0125	-.1840	-.0083	50.07	50.40	-.0314
43	MCVA 950728I901	1.060	.0618	2.586	-.0117	-.0003	2.535
44	SST-ICS-0 950908I100	52.57	.0178	.1767	-.4273	-.0498	-.0046
45	STD1-Blank 108444	.0082	.0003	-.0097	-.0028	-.0056	.0066
46	95-007935-A2 @50	.4102	.7260	.1407	.0053	.0019	-.0079
47	95-007935-A2 @10	1.946	3.655	.7774	.0830	.0450	-.0401
48	95-007935-A2 @5	3.835	7.357	1.519	.0908	.0604	-.0932
49	MCVA 950728I901	1.062	.0733	2.613	-.0066	.0035	2.564
50	SST-ICS-0 950908I100	52.01	.0264	.1944	-.3813	-.0195	.0121
51	MCVB 950911H901	.0303	-.0077	.0488	2.087	1.986	.0199
52	SRM-1643c 103668	.0673	.0063	0.0231	-.0296	-.0165	-.0043
53	CCV1 950713H901	2.119	4.755	2.072	.0104	.0026	.0091
54	STD1-Blank 108444	.0033	.0013	-.0087	.0028	-.0004	.0077
55	STD1-Blank	.04616	.12506	1.29299	1.48453	1.4744	.25233
56	STD2	6.08763		59.2873			
57	STD3		13.9936				
58	STD4						
59	STD5						36.5567
60	STD6						
61	STD7						
62	STD8						
63	STD9				21.0189	50.0579	
64	STD1-Blank 108444	-.0013	.0091	-.0034	-.0100	-.0093	.0024
65	2% HNO3 DILUENT PUMP	.0011	.0145	.0172	.0365	.0143	.0077
66	"PIPETED" STD1-BLK	.0021	.0395	.0114	.0381	.0101	.0107
67	MCVA @5X	.2129	.0380	.5344	.0013	-.0005	.4949
68	STD1-Blank 108444	-.0012	-.0068	-.0105	-.0439	-.0202	-.0045
69	MCVA 950728H901	1.051	.0595	2.625	-.0232	-.0062	2.552
70	MCVA 950728H901	1.053	.0583	2.627	-.0004	.0102	2.541
71	MCVB 950911H901	.0044	-.0103	.0400	2.144	2.024	.0007

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
72	SRM-1643c 103668	.0563	.0066	Q.0215	-.0588	-.0239	-.0065
73	CCV1 950713H901	2.090	4.751	2.057	-.0046	.0033	-.0042
74	SST-ICS-1 950911I101	46.46	.1017	.2197	-.3125	.0106	.0260
75	STD1-Blank 108444	.0021	.0003	.0001	.0013	.0022	.0017
76	95-007941-N3 @5	.0976	.0271	.0291	.0062	.0185	.0159
77	95-007941-N3 @2	.2299	.0762	.0623	.0238	.0504	.0398
78	95-007941-N1 @10	.0701	.5635	.0441	.0876	.0438	.0162
79	95-007941-N1 @2	.3127	2.528	.1533	.2165	.1010	.0473
80	95-007941-N1 SPK@2.5	4.430	1.019	4.587	.1621	.1250	.0451
81	95-007941-N2 @10	.0775	.0925	.0822	.1964	.0971	.0427
82	95-007941-N2 @2	.3190	.3381	.1632	.2761	.1352	.0525
83	95-007943-N1 @10	.1343	.1175	.1041	.2657	.1224	.0510
84	95-007943-N1 @2	.6003	.2627	.1992	.2931	.1455	.0659
85	MCVA 950728I901	1.012	.1161	2.564	.1025	.0582	2.435
86	MCVA 950728I901	1.060	.0477	2.622	-.0531	-.0172	2.568
87	MCVA 950728I901	1.041	.0704	2.591	.0448	.0324	2.530
88	SST-ICS-1 950911I101	47.09	.0934	.2453	-.2512	.0366	.0386
89	STD1-Blank 108444	.0045	.0193	.0179	.0570	.0268	-.0021
90	SST-ICS-1 950911I101	48.44	.1088	.2427	-.2964	.0222	.0374
91	STD1-Blank 108444	-.0008	.0184	.0059	.0040	.0020	-.0033
92	95-007944-N1 @10	.1196	.0766	.0425	.0651	.0303	.0116
93	95-007944-N1 @2	.5550	.3251	.1178	.1500	.0770	.0393
94	95-007945-N1 @10	1.673	.0740	.1422	.0227	.0241	.0120
95	95-007945-N1 @2	7.615	.3242	.5990	.0050	.0623	.0255
96	95-007945-N1-PS @5	8.121	.1790	5.262	-.0947	.0345	.0123
97	95-007946-N1 @10	1.962	.6150	.1266	.0069	.0253	.0083
98	95-007946-N1 @2	9.015	2.068	.5357	-.1047	.0465	.0323
99	95-007947-N1 @10	.7509	.4575	.1627	.0786	.0498	.0222
100	95-007947-N1 @2	3.509	.8392	.5983	-.0334	.0464	.0294
101	MCVA 950728I901	1.076	.0566	2.644	-.0087	.0063	2.585
102	SST-ICS-1 95-911I101	48.20	.0922	.2407	-.3180	.0124	.0207
103	STD1-Blank 108444	.0032	.0099	.0146	.0281	.0145	.0006
104	95-007948-N1 @10	.8640	.2167	.3626	.0503	.0391	.0249
105	95-007948-N1 @2	3.968	.7910	1.572	-.0275	.0555	.0310
106	SRM-2709-N @10X DIL	.0861	.1437	.2768	.1200	.0669	.0292
107	SRM-2709-N @2	.3668	.5249	1.098	.0761	.0683	.1020
108	MCVA 950728I901	1.037	.0458	2.534	-.0450	-.0117	2.486
109	SST-ICS-1 95-911I101	47.56	.1086	.2409	-.3014	.0188	.0340
110	MCVB 950911H901	.0064	.0018	.0563	Q2.261	2.048	.0003
111	SRM-1643c 103668	.0570	.0201	Q.0275	-.0492	-.0202	-.0072
112	CCV1 950713H901	2.095	4.744	2.066	-.0038	-.0004	-.0087
113	STD1-Blank 108444	-.0015	-.0030	-.0005	-.0179	-.0027	-.0077

#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1538.67	3959	6846	140.667	9872.67	2355
2	SPC-BLK 108444	-.0099	.0147	.0521	-.0002	-.0024	.0031
3	SPC-STD 950831I101	1581.33	4049	7017.33	142.333	10736.7	2389
4	SPC-STD 950831I101	.0110	.0314	.1180	-.0001	.0069	.0043
5	STD1-Blank	.15463	.39443	.68376	.014	.99023	.23473
6	STD2				8.60079		
7	STD3						
8	STD4						12.3546

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
9	STD5						
10	STD6						
11	STD7		78.6185			56.5969	
12	STD8	4.02799					
13	STD9			8.67776			
14	STD1-Blank 108444	-.0017	.1967	-.0184	.0003	.0048	-.0031
15	MCVA 950728I901	2.508	19.33	-.0757	.5124	-.0014	.0447
16	MCVB 950911H901	.0174	.1554	2.051	.0006	1.814	4.941
17	SRM-1643c 103668	Q.0202	.0877	.0051	Q.2542	.0067	-.0058
18	CCV1 950713H901	1.938	5.045	-.0102	2.021	-.0142	.0067
19	SST-ICS-0 950908I100	.0241	.0647	.0473	.0002	.0029	.6596
20	STD1-Blank 108444	.0081	-.0006	.0195	.0005	.0071	-.0000
21	95-007932-A3 @2	.0018	1.012	-.0021	.0004	.0018	-.0044
22	95-007932-A3	-.0022	1.995	-.0360	.0004	.0030	.0016
23	95-007932-A4 @2	k-12.44	k7.240	k.7937	k.0093	k-5.873	k.1021
24	95-007932-A4 @10	-.0138	1.508	.1410	.0024	-.0447	.0166
25	95-007932-A4 @50	-.0182	.2896	-.0531	.0005	-.0284	-.0001
26	Na @500 PPM	-.0036	1.154	-.0161	.0042	-.0003	-.0019
27	95-007932-A5 @50	-.0063	.2264	-.0525	.0002	-.0064	-.0006
28	95-007932-A5 @10	-.0113	1.238	-.0544	.0002	-.0012	.0201
29	95-007932-A5	-.0302	11.83	-.2306	-.0002	-.0422	.1962
30	MCVA 950728I901	2.524	19.41	-.0929	.5175	.0006	.0386
31	SST-ICS-0 950908I100	.0224	.0257	.0397	.0001	-.0021	.6770
32	STD1-Blank 108444	.0001	-.0235	-.0310	.0003	.0032	-.0004
33	95-007932-A1 @50	-.0040	.0625	-.0226	.0006	-.0255	-.0107
34	95-007932-A1 @10	-.0176	.4542	.1584	.0023	-.0453	-.0003
35	95-007932-A1 @5	-.0117	.9184	.3090	.0041	-.0721	.0002
36	95-007932-A2 @50	-.0050	.0701	.0134	.0008	-.0090	-.0057
37	95-007932-A2 @10	-.0122	.4451	.1532	.0023	-.0339	-.0035
38	95-007932-A5 @5	-.0143	.8924	.3185	.0041	-.0629	-.0017
39	95-007935-A1 @50	.0065	.1533	.0482	.0031	-.0088	.0000
40	95-007935-A1 @10	-.0098	.8600	.1576	.0138	-.0332	.0013
41	95-007935-A1 @5	-.0570	1.756	.2101	.0265	-.0838	.0029
42	STD9 FOR W @50 PPM	-.0089	48.53	49.85	.0014	.0242	.0288
43	MCVA 950728I901	2.483	19.78	-.0947	.5122	-.0070	.0399
44	SST-ICS-0 950908I100	.0243	.1465	-.0399	-.0000	-.0153	.7025
45	STD1-Blank 108444	-.0031	.0350	-.0448	.0002	-.0035	-.0023
46	95-007935-A2 @50	.0026	.2189	-.0388	.0081	-.0192	.0022
47	95-007935-A2 @10	-.0084	.9511	.1330	.0381	-.0349	.0030
48	95-007935-A2 @5	-.0427	1.872	.2258	.0742	-.0820	.0059
49	MCVA 950728I901	2.526	19.43	-.0793	.5155	.0029	.0400
50	SST-ICS-0 950908I100	.0182	.0642	.0641	.0002	.0055	.7076
51	MCVB 950911H901	.0186	.0576	2.026	.0006	1.818	5.004
52	SRM-1643c 103668	Q.0237	.0077	-.0890	.2650	-.0059	-.0041
53	CCV1 950713H901	2.002	5.018	-.0147	2.045	-.0148	.0037
54	STD1-Blank 108444	-.0025	-.0282	-.0280	.0006	-.0003	-.0013
55	STD1-Blank	.14876	.36573	.65719	.01393	.95939	.2281
56	STD2				8.60163		
57	STD3						12.0262
58	STD4						
59	STD5						
60	STD6						
61	STD7		78.4814			56.0845	
62	STD8	3.96163					

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
63	STD9			8.46126			
64	STD1-Blank 108444	.0020	.0338	-.0054	.0001	-.0076	-.0071
65	2% HNO3 DILUENT PUMP	.0090	.0394	.0423	.0003	.0071	-.0060
66	"PIPETED" STD1-BLK	.0098	.0251	.0373	.0003	.0071	-.0055
67	MCVA @5X	.5154	3.853	-.0158	.1040	-.0022	.0012
68	STD1-Blank 108444	-.0125	.0100	-.0750	.0000	-.0131	-.0069
69	MCVA 950728H901	2.495	18.91	-.1076	.5175	-.0115	.0430
70	MCVA 950728H901	2.466	18.76	-.0494	.5112	.0012	.0367
71	MCVB 950911H901	.0099	.0406	2.032	.0000	Q1.779	5.066
72	SRM-1643c 103668	Q-.0004	.0043	-.0859	.2647	-.0124	-.0089
73	CCV1 950713H901	1.941	4.891	.0083	2.032	-.0197	.0035
74	SST-ICS-1 950911I101	.0420	-.0034	.1905	.0003	.0191	.6802
75	STD1-Blank 108444	-.0015	-.0188	.0181	.0001	-.0029	-.0076
76	95-007941-N3 @5	.0162	.0467	.1318	.0132	.0140	.0572
77	95-007941-N3 @2	.0452	.1445	.2567	.0301	.0267	.1445
78	95-007941-N1 @10	.0058	.3741	.1457	.0088	.0213	-.0020
79	95-007941-N1 @2	.0478	1.753	.3154	.0383	.0467	.0028
80	95-007941-N1 SPK@2.5	.0633	9.100	.4699	.0156	.0621	.2415
81	95-007941-N2 @10	.0408	.4216	.3062	.0079	.0471	.0122
82	95-007941-N2 @2	.0729	1.963	.4273	.0332	.0717	.0329
83	95-007943-N1 @10	.0479	.2931	.4024	.0094	.0590	.0138
84	95-007943-N1 @2	.0751	1.271	.4903	.0395	.0717	.0624
85	MCVA 950728I901	2.368	Q17.86	.1156	.4775	.0274	.0391
86	MCVA 950728I901	2.508	19.08	-.1246	.5258	-.0175	.0394
87	MCVA 950728I901	2.469	18.67	-.1484	.5139	.0027	.0464
88	SST-ICS-1 950911I101	.0617	.0206	-.0633	.0006	.0398	.6716
89	STD1-Blank 108444	.0073	.0116	.0590	.0003	.0109	.0011
90	SST-ICS-1 950911I101	.0538	.0186	-.1053	.0003	.0263	.6945
91	STD1-Blank 108444	-.0034	-.0065	.0240	.0000	-.0002	.0018
92	95-007944-N1 @10	.0207	.1458	.0899	.0455	.0130	.0064
93	95-007944-N1 @2	.0528	.7211	.2094	.2057	.0402	.0323
94	95-007945-N1 @10	.0212	.2883	.0559	1.593	.0144	.0578
95	95-007945-N1 @2	.0467	1.412	.1049	7.206	.0441	.2742
96	95-007945-N1-FS @5	.0287	10.30	.0822	3.090	.0245	.3587
97	95-007946-N1 @10	.0214	.2530	.0601	2.936	.0197	.1085
98	95-007946-N1 @2	.0639	1.232	.0318	13.48	.0542	.4676
99	95-007947-N1 @10	.0318	.1674	.1213	.1417	.0303	.0816
100	95-007947-N1 @2	.0644	.8129	-.0104	.6590	.0413	.3531
101	MCVA 950728I901	2.546	19.10	-.1748	.5481	-.0046	.0433
102	SST-ICS-1 95-911I101	.0624	-.0054	-.1215	.0008	.0246	.6876
103	STD1-Blank 108444	.0092	-.0062	.0678	.0006	.0059	.0090
104	95-007948-N1 @10	.0266	.2050	.0819	.1800	.0260	.0900
105	95-007948-N1 @2	.0789	.9824	-.0165	.8079	.0630	.4141
106	SRM-2709-N @10X DIL	.0545	43.13	.1486	.0434	.0370	.0463
107	SRM-2709-N @2	.1212	207.1	.0547	.1968	.0675	.1935
108	MCVA 950728I901	2.420	18.17	-.2425	.5344	-.0116	.0404
109	SST-ICS-1 95-911I101	.0627	.0130	-.0929	.0008	.0273	.6821
110	MCVB 950911H901	.0155	.0393	Q1.753	.0007	1.800	5.032
111	SRM-1643c 103668	Q.0074	-.0005	-.0543	Q.2807	-.0123	-.0062
112	CCV1 950713H901	1.959	4.936	-.0140	2.141	-.0215	.0050
113	STD1-Blank 108444	-.0050	-.0207	-.0079	.0007	-.0089	.0035

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#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	648.333	349.333	17198.7	978.333	304.667	255
2	SPC-BLK 108444	.0007	.0010	.1549	.0017	-.0045	.0009
3	SPC-STD 950831I101	659.333	373.667	17488.3	994.667	322.333	260
4	SPC-STD 950831I101	.0019	.0396	.4172	.0039	.0082	.0023
5	STD1-Blank	.06466	.03473	1.7185	.0978	.03106	.02553
6	STD2	15.5487					
7	STD3						
8	STD4						
9	STD5				12.714		3.31983
10	STD6			52.8941			
11	STD7						
12	STD8		1.24239				
13	STD9					3.37919	
14	STD1-Blank 108444	-.0001	.0065	.0187	-.0008	-.0086	-.0002
15	MCVA 950728I901	.9961	2.522	.0340	.9930	.0245	-.0001
16	MCVB 950911H901	.0012	.0169	Q8.603	-.0004	Q.4948	.9554
17	SRM-1643c 103668	.0081	Q.0196	.3037	Q.0282	.0006	-.0012
18	CCV1 950713H901	.0003	1.939	.0056	.9611	.0092	-.0002
19	SST-ICS-0 950908I100	.0013	.2185	49.87	.0021	.0531	.0032
20	STD1-Blank 108444	.0001	.0044	.0388	.0002	-.0012	.0002
21	95-007932-A3 @2	.0014	.0133	.0085	-.0006	-.0020	-.0005
22	95-007932-A3	.0020	.0083	-.2183	-.0014	-.0040	-.0010
23	95-007932-A4 @2	k.0026	k2.869	k8.547	k.0051	k2.349	k.0014
24	95-007932-A4 @10	.0005	.6071	1.964	.0006	.5232	.0003
25	95-007932-A4 @50	-.0013	.1176	.1636	-.0024	.1015	-.0017
26	Na @500 PPM	-.0001	.0065	-.0612	-.0010	-.0039	-.000
27	95-007932-A5 @50	-.0004	.0058	.2803	-.0012	-.0027	-.0005
28	95-007932-A5 @10	-.0002	.0075	1.686	-.0014	-.0044	-.0007
29	95-007932-A5	-.0007	.0213	17.56	-.0086	-.0161	-.0034
30	MCVA 950728I901	1.004	2.564	.0273	.9975	.0284	-.0002
31	SST-ICS-0 950908I100	.0010	.2270	50.10	.0012	.0428	.0032
32	STD1-Blank 108444	-.0004	.0007	-.0332	-.0009	-.0018	-.0004
33	95-007932-A1 @50	-.0008	.1151	-.1631	-.0017	.0941	-.0008
34	95-007932-A1 @10	.0005	.6050	.1054	.0006	.5039	.0003
35	95-007932-A1 @5	.0014	1.151	.2685	.0022	.9859	.0011
36	95-007932-A2 @50	.0000	.1236	.0610	-.0001	.1021	-.0001
37	95-007932-A2 @10	.0010	.6022	.2309	.0019	.5000	.0009
38	95-007932-A5 @5	.0018	1.140	.3436	.0028	.9661	.0013
39	95-007935-A1 @50	.0003	.1294	.0758	.0001	1.248	.0001
40	95-007935-A1 @10	.0015	.6189	.3488	.0020	6.208	.0011
41	95-007935-A1 @5	.0013	1.204	.3060	.0017	12.31	.0009
42	STD9 FOR W @50 PPM	.0074	-.1623	-.0539	-.0072	49.48	.0005
43	MCVA 950728I901	.9937	2.553	.0323	.9854	.0257	-.0005
44	SST-ICS-0 950908I100	.0004	.2316	50.98	-.0005	.0466	.0023
45	STD1-Blank 108444	-.0003	.0136	-.0744	-.0011	-.0033	-.0007
46	95-007935-A2 @50	-.0003	.1371	-.0283	-.0008	1.243	-.0003
47	95-007935-A2 @10	.0016	.6182	.4086	.0019	6.176	.0010
48	95-007935-A2 @5	.0023	1.216	.4926	.0017	12.19	.0009
49	MCVA 950728I901	1.001	2.546	.0893	.9918	.0355	-.0000
50	SST-ICS-0 950908I100	.0015	.2320	49.76	.0022	.0516	.0033
51	MCVB 950911H901	.0010	.0243	Q8.407	-.0011	Q.4932	.9560
52	SRM-1643c 103668	.0072	Q.0180	.0048	Q.0263	.0016	-.0026
53	CCV1 950713H901	.0001	2.004	-.0142	.9653	.0056	-.0003

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#	Sample Name	Ti	Tl	U	V	W	Y
54	STD1-Blank 108444	-.0006	.0098	-.0836	-.0009	-.0049	-.0009
55	STD1-Blank	.06283	.03436	1.66643	.09449	.02956	.0247
56	STD2	15.1919					
57	STD3						
58	STD4						
59	STD5				12.3454		3.20323
60	STD6			51.5214			
61	STD7						
62	STD8		1.22783				
63	STD9					3.23706	
64	STD1-Blank 108444	-.0003	-.0013	-.0616	-.0011	.0071	-.0005
65	2% HNO3 DILUENT PUMP	.0006	-.0041	.1722	.0008	.0068	.0008
66	"PIPETED" STD1-BLK	.0005	-.0066	.1838	.0009	.0132	.0005
67	MCVA @5X	.2016	.5055	.0257	.2010	.0145	.0002
68	STD1-Blank 108444	-.0011	-.0144	-.2240	-.0022	.0075	-.0009
69	MCVA 950728H901	1.003	2.515	.0072	.9938	.0335	.0000
70	MCVA 950728H901	.9946	2.516	.1962	.9882	.0295	.0002
71	MCVB 950911H901	.0003	.0050	@8.494	-.0029	@.5029	.9724
72	SRM-1643c 103668	.0070	.0105	-.0653	@.0262	.0035	-.0027
73	CCV1 950713H901	.0004	1.939	.0102	.9600	.0110	.0001
74	SST-ICS-1 950911I101	.0033	.2150	44.54	.0053	.0681	.0051
75	STD1-Blank 108444	-.0000	-.0027	.0428	.0003	.0073	.0003
76	95-007941-N3 @5	.0029	.0103	-.0574	.0030	.0107	.0019
77	95-007941-N3 @2	.0071	.0249	.0390	.0074	.0291	.0047
78	95-007941-N1 @10	.0074	.0374	.5447	.0105	.0200	.0019
79	95-007941-N1 @2	.0295	.1690	1.350	.0376	.0419	.0049
80	95-007941-N1 SPK@2.5	.0170	.1109	17.17	.0247	.0489	.0074
81	95-007941-N2 @10	.0107	.0466	1.158	.0118	.0329	.0045
82	95-007941-N2 @2	.0330	.1665	1.577	.0259	.0391	.0068
83	95-007943-N1 @10	.0100	.0572	1.474	.0123	.0310	.0059
84	95-007943-N1 @2	.0251	.1842	1.702	.0168	.0505	.0079
85	MCVA 950728I901	.9384	2.369	.7705	.9398	.0475	.0025
86	MCVA 950728I901	1.014	2.537	-.1062	1.000	.0262	-.0007
87	MCVA 950728I901	.9899	2.487	.4696	.9806	.0333	.0017
88	SST-ICS-1 950911I101	.0047	.2272	45.74	.0075	.0628	.0067
89	STD1-Blank 108444	.0011	.0005	.3200	.0019	.0095	.0013
90	SST-ICS-1 950911I101	.0036	.2169	47.09	.0060	.0604	.0059
91	STD1-Blank 108444	.0003	-.0030	.0630	.0003	.0004	.0003
92	95-007944-N1 @10	.0035	.0220	.4230	.0041	.0114	.0016
93	95-007944-N1 @2	.0133	.0615	1.236	.0126	.0458	.0048
94	95-007945-N1 @10	.0051	.0082	4.014	.0033	.0053	.0021
95	95-007945-N1 @2	.0212	.0544	17.24	.0098	.0339	.0082
96	95-007945-N1-PS @5	.0107	.0500	26.43	.0070	.0214	.0054
97	95-007946-N1 @10	.0063	.0161	6.757	.0038	.0158	.0032
98	95-007946-N1 @2	.0249	.0562	29.46	.0107	.0332	.0109
99	95-007947-N1 @10	.0059	.0219	5.772	.0059	.0155	.0043
100	95-007947-N1 @2	.0176	.0434	24.55	.0093	.0286	.0105
101	MCVA 9507281901	1.023	2.524	.2112	1.011	.0318	.0006
102	SST-ICS-1 95-911I101	.0033	.2265	46.60	.0053	.0534	.0052
103	STD1-Blank 108444	.0009	.0021	.1934	.0015	.0051	.0008
104	95-007948-N1 @10	.0063	.0156	6.552	.0049	.0177	.0042
105	95-007948-N1 @2	.0223	.0435	27.89	.0114	.0407	.0137
106	SRM-2709-N @10X DIL	.4978	.0512	.6999	.0234	.0318	.0062
107	SRM-2709-N @2	2.294	.2099	.3316	.0851	.0659	.0177

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#	Sample Name	Ti	Tl	U	V	W	Y
108	MCVA 950728I901	.9933	2.416	-.0325	.9805	.0241	-.0003
109	SST-ICS-1 95-911I101	.0040	.2147	45.95	.0063	.0619	.0057
110	MCVB 950911H901	.0010	-.0053	Q8.692	-.0011	Q.5127	.9710
111	SRM-1643c 103668	.0074	.0100	.0074	Q.0270	-.0009	-.0023
112	CCV1 950713H901	.0007	1.928	.0254	.9684	-.0029	-.0000
113	STD1-Blank 108444	.0001	-.0081	-.0592	-.0003	-.0030	-.0002

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	333.333	811
2	SPC-BLK 108444	.0002	.0016
3	SPC-STD 950831I101	153010	817.667
4	SPC-STD 950831I101	10.02	.0026
5	STD1-Blank	.03363	.08076
6	STD2	30.0327	26.512
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank 108444	.0002	-.0009
15	MCVA 950728I901	1.008	2.041
16	MCVB 950911H901	.0016	-.0069
17	SRM-1643c 103668	Q.0844	.0002
18	CCV1 950713H901	1.018	-.0018
19	SST-ICS-0 950908I100	-.0279	9.983
20	STD1-Blank 108444	.0000	.0004
21	95-007932-A3 @2	.0051	.0009
22	95-007932-A3	.0085	-.0005
23	95-007932-A4 @2	k.2550	k.1988
24	95-007932-A4 @10	.0564	.0421
25	95-007932-A4 @50	.0108	.0062
26	Na @500 PPM	.0063	.0025
27	95-007932-A5 @50	-.0006	.0073
28	95-007932-A5 @10	-.0003	.0434
29	95-007932-A5	-.0021	.4378
30	MCVA 950728I901	1.025	2.055
31	SST-ICS-0 950908I100	-.0305	9.974
32	STD1-Blank 108444	-.0002	.0003
33	95-007932-A1 @50	.0101	-.0002
34	95-007932-A1 @10	.0548	.0015
35	95-007932-A1 @5	.1051	.0035
36	95-007932-A2 @50	.0104	.0003
37	95-007932-A2 @10	.0543	.0021
38	95-007932-A5 @5	.1069	.0036
39	95-007935-A1 @50	.0186	.0001
40	95-007935-A1 @10	.0924	.0024
41	95-007935-A1 @5	.1863	.0026
42	STD9 FOR W @50 PPM	.0020	.0384
43	MCVA 950728I901	1.019	2.038
44	SST-ICS-0 950908I100	-.0274	10.14

#	Sample Name	Zn	Zr
45	STD1-Blank 108444	.0003	-.0003
46	95-007935-A2 @50	.0192	-.0003
47	95-007935-A2 @10	.0924	.0034
48	95-007935-A2 @5	.1884	.0034
49	MCVA 950728I901	1.034	2.050
50	SST-ICS-0 950908I100	-.0286	9.964
51	MCVB 950911H901	.0010	-.0083
52	SRM-1643c 103668	@.0880	-.0021
53	CCV1 950713H901	1.044	-.0014
54	STD1-Blank 108444	.0001	-.0012
55	STD1-Blank	.03229	.07836
56	STD2	29.9977	25.9249
57	STD3		
58	STD4		
59	STD5		
60	STD6		
61	STD7		
62	STD8		
63	STD9		
64	STD1-Blank 108444	-.0002	-.0008
65	2% HNO3 DILUENT PUMP	-.0003	.0012
66	"PIPETED" STD1-BLK	.0008	.0016
67	MCVA @5X	.2077	.4114
68	STD1-Blank 108444	.0002	-.0021
69	MCVA 950728H901	1.018	2.057
70	MCVA 950728H901	1.018	2.042
71	MCVB 950911H901	.0016	-.0117
72	SRM-1643c 103668	@.0849	-.0024
73	CCV1 950713H901	1.027	-.0011
74	SST-ICS-1 950911I101	-.0273	9.329
75	STD1-Blank 108444	.0004	.0005
76	95-007941-N3 @5	.0037	9.937
77	95-007941-N3 @2	.0102	22.98
78	95-007941-N1 @10	.0059	.0506
79	95-007941-N1 @2	.0279	.2101
80	95-007941-N1 SPK@2.5	.0097	.4829
81	95-007941-N2 @10	.0046	1.039
82	95-007941-N2 @2	.0236	5.014
83	95-007943-N1 @10	.0084	2.019
84	95-007943-N1 @2	.0366	9.431
85	MCVA 950728I901	.9797	1.978
86	MCVA 950728I901	1.028	2.072
87	MCVA 950728I901	1.007	2.026
88	SST-ICS-1 950911I101	-.0298	9.459
89	STD1-Blank 108444	.0008	.0026
90	SST-ICS-1 950911I101	-.0293	9.750
91	STD1-Blank 108444	-.0004	-.0001
92	95-007944-N1 @10	.0092	.7619
93	95-007944-N1 @2	.0458	3.600
94	95-007945-N1 @10	.0253	1.526
95	95-007945-N1 @2	.1219	6.996
96	95-007945-N1-PS @5	.0461	3.458
97	95-007946-N1 @10	.0164	3.066
98	95-007946-N1 @2	.0806	11.52

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#	Sample Name	Zn	Zr
99	95-007947-N1 @10	.0261	1.592
100	95-007947-N1 @2	.1294	3.993
101	MCVA 950728I901	1.034	2.103
102	SST-ICS-1 95-911I101	-.0299	9.691
103	STD1-Blank 108444	.0011	.0013
104	95-007948-N1 @10	.0345	.8404
105	95-007948-N1 @2	.1667	3.441
106	SRM-2709-N @10X DIL	.0199	5.470
107	SRM-2709-N @2	.0953	25.60
108	MCVA 950728I901	.9952	2.031
109	SST-ICS-1 95-911I101	-.0323	9.522
110	MCVB 950911H901	.0011	-.0079
111	SRM-1643c 103668	0.0862	-.0026
112	CCV1 950713H901	1.035	-.0012
113	STD1-Blank 108444	-.0010	-.0014

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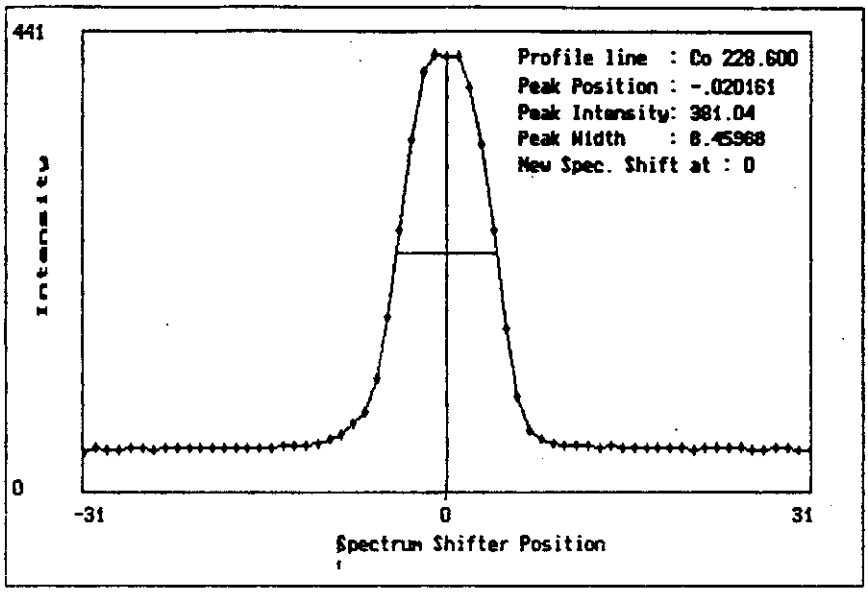

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/12/95 08:52:50
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6568	2085	1663	1069	306	172	1438
SDev	31	7	7	6	2	0	23
%RSD	.4718	.3402	.4094	.5717	.4997	.0000	1.593
#1	6595	2093	1668	1062	307	172	1418
#2	6534	2079	1655	1070	306	172	1433
#3	6574	2084	1665	1074	304	172	1463

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1256	444	6274	1421	470	454	1943
SDev	3	14	16	6	1	5	8
%RSD	.2299	3.129	.2471	.4243	.1228	.9940	.4316
#1	1259	435	6292	1427	471	458	1953
#2	1254	437	6263	1420	470	449	1939
#3	1254	460	6288	1415	470	454	1938

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	337	562	2165	989	416	2374	197
SDev	1	2	7	3	3	1	0
%RSD	.2967	.4112	.3276	.3090	.6360	.0243	.0000
#1	338	563	2173	992	417	2374	197
#2	336	559	2164	986	413	2373	197
#3	337	563	2159	988	418	2374	197

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	804	409	3670	473	1306	13360	15260
SDev	6	6	16	4	1	87	63
%RSD	.7767	1.467	.4312	.7623	.0884	.6477	.4137
#1	809	415	3687	477	1307	13460	15330
#2	797	403	3656	472	1307	13290	15210
#3	806	409	3666	470	1305	13340	15240

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15180	2605	1539	3959	6846	141	9873
SDev	47	17	5	19	11	1	61
%RSD	.3077	.6529	.3206	.4917	.1646	.4104	.6132
#1	15220	2612	1542	3981	6859	141	9928
#2	15130	2586	1541	3944	6840	140	9808
#3	15190	2618	1533	3952	6839	141	9882

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2355	648	349	17200	978	305	255
SDev	13	4	3	78	3	2	2
%RSD	.5520	.6234	.9202	.4525	.2572	.6833	.6792
#1	2370	653	348	17270	981	307	257
#2	2347	646	347	17110	976	304	254
#3	2348	646	353	17220	978	303	254

Elem	Zn	Zr
Avge	333	811
SDev	10	3
%RSD	2.851	.3699
#1	343	814
#2	333	808
#3	324	811

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/12/95 08:52:50
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	-.0050	-.0098	-.0006	.0003	-.0000	.0030
SDev	.0008	.0025	.0022	.0006	.0002	.0000	.0083
%RSD	36.43	51.06	22.26	110.7	66.49	19.96	271.3
#1	.0028	-.0021	-.0082	-.0013	.0004	-.0000	-.0043
#2	.0013	-.0070	-.0123	-.0004	.0003	-.0000	.0014
#3	.0023	-.0058	-.0090	-.0001	.0001	-.0000	.0120

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0004	.0171	.0004	-.0004	-.0028	.0010
SDev	.0007	.0014	.0027	.0006	.0001	.0018	.0008
%RSD	57.73	336.9	15.74	181.1	17.22	63.42	76.99
#1	.0020	-.0005	.0202	.0010	-.0003	-.0011	.0019
#2	.0010	-.0003	.0154	.0003	-.0005	-.0046	.0007
#3	.0007	.0020	.0157	-.0003	-.0005	-.0027	.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0006	.6901	.0015	.0008	.0047	-.0001
SDev	.0001	.0005	.1166	.0008	.0009	.0022	.0000
%RSD	36.69	83.71	16.89	57.24	113.9	45.54	49.83
#1	.0005	-.0003	.8161	.0024	.0012	.0029	-.0001
#2	.0002	-.0011	.6682	.0008	-.0002	.0071	-.0000
#3	.0004	-.0003	.5860	.0012	.0015	.0043	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0129	.0128	.0014	.0026	.0008	.0122
SDev	.0010	.0251	.0043	.0011	.0008	.0071	.0106
%RSD	60.72	194.7	33.98	80.13	30.95	928.5	86.40
#1	-.0008	.0122	.0176	.0027	.0028	.0086	.0240
#2	-.0027	-.0380	.0092	.0011	.0033	-.0053	.0035
#3	-.0013	-.0129	.0116	.0004	.0017	-.0010	.0092

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0109	-.0085	-.0099	.0147	.0521	-.0002	-.0024
SDev	.0039	.0045	.0025	.0039	.0064	.0001	.0052
%RSD	36.09	52.82	25.36	26.38	12.34	24.61	218.9
#1	.0143	-.0069	-.0084	.0192	.0592	-.0002	.0024
#2	.0066	-.0136	-.0084	.0122	.0503	-.0003	-.0079
#3	.0117	-.0051	-.0128	.0128	.0467	-.0002	-.0016

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0007	.0010	.1549	.0017	-.0045	.0009
SDev	.0037	.0005	.0053	.0737	.0003	.0031	.0005

%RSD	118.4	65.29	541.0	47.59	17.56	67.82	54.36
#1	.0064	.0013	-.0015	.2151	.0020	-.0011	.0015
#2	.0038	.0005	-.0026	.0727	.0014	-.0053	.0007
#3	-.0009	.0004	.0071	.1769	.0016	-.0071	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	.0016
SDev	.0006	.0005
%RSD	330.6	28.60
#1	.0008	.0019
#2	.0002	.0011
#3	-.0004	.0019

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/12/95 08:55:29
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6729	2133	1730	1117	311	173	1711
SDev	46	10	8	19	2	1	23
%RSD	.6827	.4695	.4338	1.677	.7434	.3331	1.333
#1	6679	2123	1739	1102	308	173	1691
#2	6769	2143	1726	1111	312	174	1736
#3	6740	2134	1726	1138	312	173	1707

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1254	453	6344	1446	486	23840	2199
SDev	6	10	40	8	10	145	9
%RSD	.4674	2.120	.6364	.5548	2.029	.6076	.3938
#1	1247	462	6298	1438	491	24000	2189
#2	1258	443	6372	1454	493	23760	2204
#3	1256	455	6363	1445	475	23750	2204

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	341	625	2193	1004	27460	2515	73990
SDev	2	2	12	4	521	13	291
%RSD	.5079	.3332	.5403	.4342	1.897	.5034	.3930
#1	339	623	2179	999	28060	2501	74260
#2	342	627	2199	1006	27110	2525	74020
#3	342	624	2200	1007	27210	2520	73680

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	847	421	3725	484	1480	139200	15490
SDev	4	2	15	8	14	399	94
%RSD	.4913	.3631	.3955	1.758	.9176	.2870	.6044
#1	852	419	3708	474	1464	139000	15380
#2	846	421	3733	490	1487	139600	15550
#3	844	422	3734	487	1488	138900	15540

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15400	2716	1581	4049	7017	142	10740
SDev	57	44	8	14	39	1	28
%RSD	.3721	1.639	.5150	.3458	.5611	.8113	.2585
#1	15340	2688	1572	4039	6972	141	10710
#2	15450	2692	1587	4043	7043	143	10740
#3	15410	2767	1585	4065	7037	143	10760

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2389	659	374	17490	995	322	260
SDev	10	4	5	86	4	5	1
%RSD	.3993	.5742	1.236	.4912	.4186	1.399	.3846
#1	2379	655	371	17400	990	327	259
#2	2398	662	379	17570	996	322	260
#3	2390	661	371	17500	998	318	261

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Elem	Zn	Zr
Avge	153000	818
SDev	508	5
%RSD	.3321	.6276
#1	153500	812
#2	153100	819
#3	152500	822

Analysis Report Tue 09-12-95 08:58:44 AM page

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/12/95 08:55:29
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0065	-.0017	.0137	.0038	.0009	-.0000	-.0022
SDev	.0013	.0043	.0030	.0018	.0003	.0000	.0085
%RSD	19.07	257.6	22.15	46.45	31.71	325.8	384.6
#1	.0052	-.0062	.0172	.0024	.0005	-.0000	-.0101
#2	.0076	.0025	.0118	.0031	.0010	.0000	.0068
#3	.0068	-.0014	.0120	.0058	.0010	-.0000	-.0034

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0011	.0293	.0030	.0020	10.27	-.0004
SDev	.0015	.0009	.0075	.0008	.0015	.06	.0008
%RSD	511.4	86.77	25.64	28.56	77.18	.6215	191.5
#1	-.0021	.0019	.0207	.0022	.0027	10.35	-.0014
#2	.0008	.0001	.0344	.0038	.0030	10.24	-.0001
#3	.0004	.0012	.0329	.0029	.0002	10.23	.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0001	1.139	.0058	9.395	.0265	9.992
SDev	.0003	.0004	.195	.0013	.181	.0043	.039
%RSD	28.54	327.3	17.09	21.50	1.926	16.36	.3942
#1	.0006	-.0002	.9147	.0044	9.603	.0215	10.03
#2	.0011	.0006	1.243	.0063	9.274	.0290	9.997
#3	.0011	.0000	1.260	.0068	9.308	.0289	9.951

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0358	.0278	.0047	-.0011	10.41	.0547
SDev	.0007	.0063	.0040	.0027	.0103	.03	.0188
%RSD	109.3	17.72	14.31	57.20	925.6	.3173	34.38
#1	.0001	.0289	.0232	.0016	-.0130	10.40	.0330
#2	-.0009	.0370	.0298	.0067	.0043	10.45	.0656
#3	-.0011	.0414	.0304	.0058	.0054	10.39	.0655

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0306	.0208	.0110	.0314	.1180	-.0001	.0069
SDev	.0049	.0121	.0040	.0037	.0264	.0001	.0026
%RSD	16.11	58.27	35.89	11.81	22.39	165.4	37.73
#1	.0251	.0134	.0065	.0298	.0875	-.0002	.0042
#2	.0347	.0142	.0137	.0287	.1341	-.0000	.0072
#3	.0318	.0348	.0129	.0356	.1324	-.0000	.0094

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	.0019	.0396	.4172	.0039	.0082	.0023
SDev	.0001	.0004	.0075	.0810	.0006	.0069	.0003

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%RSD	2.035	22.03	18.84	19.42	14.85	84.54	12.03
#1	.0043	.0014	.0350	.3328	.0033	.0155	.0021
#2	.0042	.0022	.0482	.4944	.0040	.0075	.0023
#3	.0044	.0021	.0355	.4246	.0044	.0016	.0026

Elem	Zn	Zr
Units	ppm	ppm
Avge	10.02	.0026
SDev	.03	.0009
%RSD	.3328	34.82
#1	10.05	.0016
#2	10.03	.0028
#3	9.985	.0034

Standardization Rpt. Tue 09-12-95 09:03:38 AM page 1

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6560	.2080	.1659	.1054	.0304	.0172	.1420
SDev	.0043	.0005	.0003	.0011	.0002	.0000	.0005
%RSD	.6479	.2420	.1595	1.094	.6579	.0000	.3659
#1	.6602	.2085	.1658	.1063	.0306	.0172	.1414
#2	.6560	.2079	.1657	.1041	.0304	.0172	.1423
#3	.6517	.2075	.1662	.1058	.0302	.0172	.1423

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1253	.0452	.6266	.1414	.0471	.0467	.1936
SDev	.0003	.0008	.0008	.0005	.0006	.0001	.0003
%RSD	.2112	1.770	.1208	.3560	1.296	.3273	.1491
#1	.1254	.0444	.6275	.1419	.0478	.0468	.1938
#2	.1255	.0452	.6261	.1413	.0470	.0465	.1938
#3	.1250	.0460	.6263	.1409	.0466	.0467	.1933

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0336	.0562	.2161	.0986	.0413	.2365	.0199
SDev	.0001	.0002	.0005	.0004	.0003	.0005	.0001
%RSD	.1717	.4107	.2121	.4224	.8388	.1953	.2896
#1	.0337	.0565	.2162	.0989	.0417	.2368	.0199
#2	.0336	.0561	.2165	.0987	.0411	.2360	.0200
#3	.0336	.0561	.2156	.0981	.0411	.2368	.0199

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0802	.0410	.3669	.0471	.1289	1.346	1.523
SDev	.0006	.0001	.0005	.0009	.0018	.007	.003
%RSD	.7309	.2439	.1288	1.904	1.396	.5302	.1694
#1	.0804	.0411	.3664	.0481	.1289	1.346	1.526
#2	.0806	.0409	.3673	.0466	.1307	1.352	1.522
#3	.0795	.0410	.3671	.0465	.1271	1.338	1.521

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.514	.2585	.1546	.3944	.6838	.0140	.9902
SDev	.002	.0019	.0016	.0015	.0023	.0000	.0079
%RSD	.1572	.7466	1.067	.3881	.3355	.0000	.8018
#1	1.516	.2600	.1530	.3962	.6822	.0140	.9994
#2	1.515	.2591	.1546	.3935	.6864	.0140	.9858
#3	1.512	.2563	.1563	.3936	.6827	.0140	.9855

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2347	.0647	.0347	1.719	.0978	.0311	.0255
SDev	.0016	.0001	.0002	.007	.0001	.0004	.0001
%RSD	.7030	.1786	.5993	.3946	.1023	1.301	.2261
#1	.2361	.0646	.0349	1.723	.0978	.0306	.0256
#2	.2329	.0648	.0348	1.722	.0979	.0313	.0255
#3	.2352	.0646	.0345	1.711	.0977	.0313	.0255

Elem	Zn	Zr
Avge	.0336	.0808
SDev	.0006	.0001

%RSD	1.638	.1891
#1	.0331	.0809
#2	.0336	.0808
#3	.0342	.0806

Standardization Rpt. Tue 09-12-95 09:05:39 AM page

Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.388	18.08	13.16	4.684	76.86	46.96	12.43
SDev	.035	.04	.02	.022	.14	.08	.04
%RSD	.4227	.2351	.1446	.4779	.1800	.1744	.2846
#1	8.364	18.07	13.16	4.664	76.87	46.93	12.42
#2	8.372	18.04	13.14	4.678	76.72	46.89	12.40
#3	8.429	18.13	13.18	4.708	77.00	47.05	12.47

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.959	6.214	61.35	8.601	15.55	30.03	26.51
SDev	.043	.016	.08	.052	.05	.12	.07
%RSD	.7249	.2568	.1347	.6002	.3058	.4051	.2764
#1	5.909	6.210	61.34	8.560	15.53	30.06	26.50
#2	5.981	6.201	61.27	8.583	15.52	29.90	26.45
#3	5.987	6.232	61.44	8.659	15.60	30.14	26.59

Standardization Rpt. Tue 09-12-95 09:09:18 AM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.81	51.75	81.10	10.20	3.173	13.99	7.301
SDev	.30	.14	.13	.02	.041	.17	.016
%RSD	.3991	.2658	.1660	.2045	1.297	1.244	.2185
#1	76.14	51.90	81.25	10.20	3.215	14.16	7.319
#2	75.54	51.64	81.06	10.21	3.133	13.81	7.295
#3	75.74	51.70	80.99	10.17	3.171	14.00	7.289

Elem	P
Avge	14.48
SDev	.04
%RSD	.3037
#1	14.52
#2	14.44
#3	14.48

Standardization Rpt. Tue 09-12-95 09:12:57 AM page

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	50.58	11.65	6.400	17.39	12.35
SDev	.08	.03	.015	.05	.02
%RSD	.1511	.2321	.2328	.2600	.1512
#1	50.50	11.62	6.385	17.34	12.33
#2	50.64	11.66	6.400	17.42	12.36
#3	50.62	11.67	6.415	17.42	12.37

Standardization Rpt. Tue 09-12-95 09:16:38 AM page 1

Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.95	25.75	37.28	12.71	3.320
SDev	.09	.13	.11	.04	.016
%RSD	.3320	.4868	.3081	.3120	.4721
#1	27.85	25.72	37.17	12.68	3.310
#2	27.96	25.65	37.26	12.70	3.312
#3	28.03	25.89	37.40	12.76	3.338

Standardization Rpt. Tue 09-12-95 09:20:15 AM page

Method: ICP1 Standard: STD6

Elem	U
Avge	52.89
SDev	.26
%RSD	.5006
#1	52.74
#2	52.74
#3	53.20

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.928	78.62	56.60
SDev	.009	.25	.26
%RSD	.4607	.3243	.4615
#1	1.938	78.90	56.90
#2	1.926	78.54	56.47
#3	1.920	78.41	56.42

Standardization Rpt. Tue 09-12-95 09:27:31 AM page

Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.90	27.76	4.028	1.242
SDev	.15	.12	.022	.004
%RSD	.4810	.4269	.5351	.3566
#1	30.85	27.72	4.017	1.238
#2	31.06	27.89	4.053	1.247
#3	30.77	27.67	4.014	1.242

Standardization Rpt. Tue 09-12-95 09:31:11 AM page 1

Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.59	51.08	8.678	3.379
SDev	.17	.50	.054	.027
%RSD	.7759	.9809	.6268	.8019
#1	21.78	51.64	8.740	3.410
#2	21.52	50.90	8.653	3.370
#3	21.47	50.68	8.640	3.358

Standardization Report Tue 09-12-95 09:31:52 AM page

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.330697	-.216926	09/12/95 09:29:53
Al	308.215	STD3	STD1-Blank	6.61375	-1.37544	09/12/95 09:29:53
As	193.600	STD5	STD1-Blank	3.59954	-.597164	09/12/95 09:29:53
B	249.600	STD3	STD1-Blank	.968166	-.102045	09/12/95 09:29:53
Ba	493.400	STD2	STD1-Blank	1.19647	-.036373	09/12/95 09:29:53
Be	313.042	STD7	STD1-Blank	.523268	-.009000	09/12/95 09:29:53
Bi	223.061	STD8	STD1-Blank	3.62087	-.514164	09/12/95 09:29:53
Ca	317.900	STD3	STD1-Blank	3.08740	-.386851	09/12/95 09:29:53
Cd	228.800	STD3	STD1-Blank	.985222	-.044532	09/12/95 09:29:53
Ce	418.659	STD5	STD1-Blank	1.98988	-1.24693	09/12/95 09:29:53
Co	228.600	STD2	STD1-Blank	1.11504	-.157629	09/12/95 09:29:53
Cr	205.500	STD2	STD1-Blank	1.52541	-.071897	09/12/95 09:29:53
Cu	324.700	STD2	STD1-Blank	4.31316	-.201281	09/12/95 09:29:53
Dy	353.170	STD4	STD1-Blank	.992254	-.192134	09/12/95 09:29:53
Eu	381.900	STD4	STD1-Blank	1.72149	-.057899	09/12/95 09:29:53
Fe	259.900	STD2	STD1-Blank	2.60391	-.146427	09/12/95 09:29:53
K	766.500	STD3	STD1-Blank	169.107	-36.5441	09/12/95 09:29:53
La	398.852	STD4	STD1-Blank	3.17402	-.312852	09/12/95 09:29:53
Li	670.700	STD3	STD1-Blank	3.58511	-.148065	09/12/95 09:29:53
Mg	279.078	STD2	STD1-Blank	5.35112	-1.26572	09/12/95 09:29:53
Mn	257.600	STD3	STD1-Blank	1.37339	-.027376	09/12/95 09:29:53
Mo	202.000	STD2	STD1-Blank	1.61943	-.129825	09/12/95 09:29:53
Na	588.900	STD2	STD1-Blank	42.2428	-1.73196	09/12/95 09:29:53
Nd	406.106	STD4	STD1-Blank	2.93719	-1.07775	09/12/95 09:29:53
Ni	231.600	STD2	STD1-Blank	3.24284	-.152630	09/12/95 09:29:53
P	214.900	STD3	STD1-Blank	6.96788	-.898160	09/12/95 09:29:
Pb	220.300	STD2	STD1-Blank	.833277	-1.12126	09/12/95 09:29:
Pd	360.959	STD9	STD1-Blank	2.49147	-3.79459	09/12/95 09:29:53
Rh	343.489	STD9	STD1-Blank	1.00884	-1.52778	09/12/95 09:29:53
Sb	206.838	STD5	STD1-Blank	2.70123	-.698177	09/12/95 09:29:53
Se	196.026	STD8	STD1-Blank	5.16347	-.798444	09/12/95 09:29:53
Si	288.100	STD7	STD1-Blank	2.55676	-1.00847	09/12/95 09:29:53
Sn	242.950	STD9	STD1-Blank	7.19001	-4.91629	09/12/95 09:29:53
Sr	421.500	STD2	STD1-Blank	1.16458	-.016304	09/12/95 09:29:53
Te	214.275	STD7	STD1-Blank	.899173	-.890391	09/12/95 09:29:53
Th	283.730	STD4	STD1-Blank	4.12546	-.968382	09/12/95 09:29:53
Ti	334.900	STD2	STD1-Blank	1.29165	-.083527	09/12/95 09:29:53
Tl	190.864	STD8	STD1-Blank	16.5609	-.575214	09/12/95 09:29:53
U	378.280	STD6	STD1-Blank	9.77029	-16.7902	09/12/95 09:29:53
V	292.402	STD5	STD1-Blank	1.58526	-.155039	09/12/95 09:29:53
W	224.875	STD9	STD1-Blank	15.1329	-.470128	09/12/95 09:29:53
Y	371.030	STD5	STD1-Blank	3.03555	-.077508	09/12/95 09:29:53
Zn	213.800	STD2	STD1-Blank	.666687	-.022423	09/12/95 09:29:53
Zr	339.100	STD2	STD1-Blank	1.89170	-.152787	09/12/95 09:29:53

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	3.02391	.216926	09/12/95 09:29:53
Al	308.215	STD3	STD1-Blank	.151200	1.37544	09/12/95 09:29:53
As	193.600	STD5	STD1-Blank	.277813	.597164	09/12/95 09:29:53
B	249.600	STD3	STD1-Blank	1.03288	.102045	09/12/95 09:29:53
Ba	493.400	STD2	STD1-Blank	.835790	.036373	09/12/95 09:29:53
Be	313.042	STD7	STD1-Blank	1.91107	.009000	09/12/95 09:29:53
Bi	223.061	STD8	STD1-Blank	.276177	.514164	09/12/95 09:29:53
Ca	317.900	STD3	STD1-Blank	.323897	.386851	09/12/95 09:29:53
Cd	228.800	STD3	STD1-Blank	1.01500	.044532	09/12/95 09:29:53
Ce	418.659	STD5	STD1-Blank	.502543	1.24693	09/12/95 09:29:53
Co	228.600	STD2	STD1-Blank	.896832	.157629	09/12/95 09:29:53
Cr	205.500	STD2	STD1-Blank	.655563	.071897	09/12/95 09:29:53
Cu	324.700	STD2	STD1-Blank	.231848	.201281	09/12/95 09:29:53
Dy	353.170	STD4	STD1-Blank	1.00781	.192134	09/12/95 09:29:53
Eu	381.900	STD4	STD1-Blank	.580893	.057899	09/12/95 09:29:53
Fe	259.900	STD2	STD1-Blank	.384037	.146427	09/12/95 09:29:53
K	766.500	STD3	STD1-Blank	.005913	36.5441	09/12/95 09:29:53
La	398.852	STD4	STD1-Blank	.315058	.312852	09/12/95 09:29:53
Li	670.700	STD3	STD1-Blank	.278931	.148065	09/12/95 09:29:53
Mg	279.078	STD2	STD1-Blank	.186877	1.26572	09/12/95 09:29:53
Mn	257.600	STD3	STD1-Blank	.728123	.027376	09/12/95 09:29:53
Mo	202.000	STD2	STD1-Blank	.617500	.129825	09/12/95 09:29:53
Na	588.900	STD2	STD1-Blank	.023673	1.73196	09/12/95 09:29:53
Nd	406.106	STD4	STD1-Blank	.340461	1.07775	09/12/95 09:29:53
Ni	231.600	STD2	STD1-Blank	.308372	.152630	09/12/95 09:29:53
P	214.900	STD3	STD1-Blank	.143516	.898160	09/12/95 09:29:53
Pb	220.300	STD2	STD1-Blank	1.20008	1.12126	09/12/95 09:29:53
Pd	360.959	STD9	STD1-Blank	.401369	3.79459	09/12/95 09:29:53
Rh	343.489	STD9	STD1-Blank	.991239	1.52778	09/12/95 09:29:53
Sb	206.838	STD5	STD1-Blank	.370202	.698177	09/12/95 09:29:53
Se	196.026	STD8	STD1-Blank	.193668	.798444	09/12/95 09:29:53
Si	288.100	STD7	STD1-Blank	.391120	1.00847	09/12/95 09:29:53
Sn	242.950	STD9	STD1-Blank	.139082	4.91629	09/12/95 09:29:53
Sr	421.500	STD2	STD1-Blank	.858680	.016304	09/12/95 09:29:53
Te	214.275	STD7	STD1-Blank	1.11213	.890391	09/12/95 09:29:53
Th	283.730	STD4	STD1-Blank	.242397	.968382	09/12/95 09:29:53
Ti	334.900	STD2	STD1-Blank	.774202	.083527	09/12/95 09:29:53
Tl	190.864	STD8	STD1-Blank	.060383	.575214	09/12/95 09:29:53
U	378.280	STD6	STD1-Blank	.102351	16.7902	09/12/95 09:29:53
V	292.402	STD5	STD1-Blank	.630810	.155039	09/12/95 09:29:53
W	224.875	STD9	STD1-Blank	.066081	.470128	09/12/95 09:29:53
Y	371.030	STD5	STD1-Blank	.329430	.077508	09/12/95 09:29:53
Zn	213.800	STD2	STD1-Blank	1.49995	.022423	09/12/95 09:29:53
Zr	339.100	STD2	STD1-Blank	.528624	.152787	09/12/95 09:29:53

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	-.000002
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000002	.000002
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	-.000008
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	-.000000	.000000
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	.000000	-.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

Analysis Report Tue 09-12-95 09:41:09 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 09:39:50
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0033	.0075	.0080	.0002	.0000	.0030
SDev	.0002	.0015	.0019	.0011	.0001	.0000	.0033
%RSD	35.36	46.32	24.76	14.05	34.67	51.29	111.2
#1	-.0006	.0034	.0054	.0082	.0002	.0000	.0065
#2	-.0009	.0048	.0089	.0068	.0002	.0000	-.0001
#3	-.0005	.0018	.0083	.0091	.0001	.0000	.0025

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0011	-.0006	.0005	.0018	.0003	-.0009
SDev	.0011	.0014	.0041	.0004	.0008	.0010	.0004
%RSD	176.6	130.1	671.4	92.48	41.02	404.8	43.80
#1	-.0002	-.0027	.0039	.0005	.0015	.0002	-.0009
#2	.0018	-.0001	-.0014	.0000	.0013	.0013	-.0005
#3	.0003	-.0005	-.0043	.0009	.0027	-.0008	-.0012

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0010	-.1184	-.0004	.0012	-.0027	-.0005
SDev	.0002	.0002	.0338	.0003	.0008	.0044	.0002
%RSD	14810.	16.91	28.57	72.67	69.28	163.0	52.40
#1	.0001	-.0008	-.1184	-.0008	.0007	.0023	-.0003
#2	.0001	-.0009	-.0846	-.0003	.0022	-.0047	-.0003
#3	-.0002	-.0012	-.1522	-.0002	.0007	-.0058	-.0007

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0085	-.0018	.0011	.0112	-.0047	.0094
SDev	.0006	.0084	.0018	.0017	.0140	.0092	.0036
%RSD	134.8	99.83	101.3	159.7	125.8	197.0	38.63
#1	-.0001	.0085	-.0003	.0004	-.0019	.0052	.0120
#2	.0012	.0169	-.0012	.0030	.0260	-.0063	.0110
#3	.0004	.0000	-.0038	-.0002	.0093	-.0129	.0053

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0031	-.0017	.1967	-.0184	.0003	.0048
SDev	.0016	.0084	.0067	.0079	.0065	.0001	.0032
%RSD	61.04	275.2	390.4	4.034	35.36	21.92	66.00
#1	.0034	.0042	-.0058	.2050	-.0222	.0004	.0068
#2	.0038	.0109	-.0054	.1960	-.0109	.0003	.0012
#3	.0008	-.0059	.0060	.1891	-.0221	.0002	.0064

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0031	-.0001	.0065	.0187	-.0008	-.0086	-.0002
SDev	.0026	.0001	.0029	.0272	.0003	.0026	.0002

%RSD	83.50	58.09	45.23	145.9	37.62	30.76	88.98
#1	-.0012	-.0001	.0081	-.0122	-.0006	-.0071	-.0001
#2	-.0020	-.0001	.0083	.0394	-.0012	-.0117	-.0004
#3	-.0061	-.0002	.0031	.0287	-.0007	-.0071	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	-.0009
SDev	.0004	.0001
%RSD	224.1	13.55
#1	-.0002	-.0008
#2	.0002	-.0010
#3	.0006	-.0010

Analysis Report QC Standard Tue 09-12-95 09:44:21 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/12/95 09:43:02
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4884	24.98	2.595	1.996	.5074	.0947	24.71
SDev	.0031	.21	.019	.025	.0055	.0008	.17
%RSD	.6345	.8228	.7421	1.254	1.088	.8283	.6804
#1	.4886	25.06	2.585	2.010	.5093	.0949	24.76
#2	.4914	25.14	2.617	2.011	.5117	.0954	24.85
#3	.4852	24.75	2.583	1.967	.5011	.0939	24.53
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.09	.5044	-.0270	1.027	1.027	.9978	-.0004
SDev	.13	.0070	.0130	.008	.002	.0080	.0008
%RSD	.5289	1.383	48.31	.7682	.2158	.8072	208.8
#1	25.11	.4989	-.0336	1.027	1.026	.9992	-.0009
#2	25.21	.5123	-.0355	1.035	1.026	1.005	-.0008
#3	24.95	.5022	-.0120	1.020	1.030	.9892	.0005
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.44	25.95	.0039	1.940	26.53	.5131
SDev	.0003	.16	.33	.0015	.013	.17	.0044
%RSD	15.80	.7791	1.264	37.67	.6843	.6338	.8664
#1	.0018	20.47	26.11	.0033	1.952	26.55	.5146
#2	.0020	20.58	25.57	.0028	1.943	26.68	.5166
#3	.0024	20.27	26.16	.0055	1.926	26.35	.5081
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.030	24.93	.0084	1.051	.0473	2.619	-.0132
SDev	.004	.18	.0032	.011	.0261	.008	.0246
%RSD	.3502	.7390	37.54	1.080	55.02	.3020	186.7
#1	1.029	25.13	.0085	1.046	.0687	2.615	-.0179
#2	1.034	24.89	.0052	1.064	.0183	2.628	-.0350
#3	1.027	24.77	.0116	1.043	.0550	2.613	.0134
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	2.557	2.508	19.33	-.0757	.5124	-.0014
SDev	.0099	.021	.013	.13	.0276	.0050	.0043
%RSD	9812.	.8118	.5335	.6541	36.42	.9682	309.8
#1	-.0060	2.544	2.509	19.37	-.0955	.5141	.0031
#2	-.0056	2.581	2.520	19.44	-.0875	.5162	-.0055
#3	.0113	2.547	2.494	19.19	-.0442	.5068	-.0018
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0447	.9961	2.522	.0340	.9930	.0245	-.0001
SDev	.0002	.0089	.032	.0922	.0074	.0038	.0003
%RSD	.4027	.8914	1.255	271.6	.7493	15.42	359.6
#1	.0446	.9992	2.517	.0386	.9941	.0210	-.0003
#2	.0445	1.003	2.555	-.0605	.9998	.0285	-.0002
#3	.0449	.9861	2.492	.1237	.9850	.0239	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.008	2.041
SDev	.003	.019
%RSD	.2671	.9083
#1	1.011	2.044
#2	1.007	2.057
#3	1.006	2.021
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 09:48:12 AM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 09:46:53
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

U, W-WM-QC PASS ANS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.1766	.0196	.0076	.0008	.0003	.0163
SDev	.0018	.0113	.0122	.0010	.0004	.0000	.0040
%RSD	143.8	6.398	61.96	12.79	48.93	12.72	24.52
#1	-.0007	-.1896	.0056	.0066	.0004	.0002	.0117
#2	.0017	-.1712	.0265	.0085	.0010	.0003	.0183
#3	.0027	-.1690	.0268	.0077	.0011	.0003	.0190
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0256	-.0003	1.947	.0040	.0016	.0030	1.929
SDev	.0032	.0014	.022	.0025	.0021	.0011	.037
%RSD	12.43	511.5	1.114	62.24	132.1	36.42	1.935
#1	.0219	-.0001	1.972	.0011	.0003	.0018	1.971
#2	.0275	-.0018	1.937	.0054	.0004	.0040	1.911
#3	.0273	.0010	1.931	.0054	.0041	.0032	1.904
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.920	.0063	.2818	1.925	.0029	.0848	.0001
SDev	.036	.0011	.4542	.024	.0013	.0019	.0004
%RSD	1.869	17.74	161.1	1.259	44.89	2.202	263.2
#1	1.961	.0051	-.2368	1.953	.0014	.0827	-.0003
#2	1.903	.0072	.4735	1.915	.0032	.0863	.0003
#3	1.896	.0067	.6088	1.907	.0040	.0853	.0004
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0245	1.912	.0080	.0059	.0564	2.010
SDev	.0012	.0202	.028	.0020	.0112	.0095	.008
%RSD	40.56	82.27	1.473	24.59	188.4	16.92	.4174
#1	.0016	.0017	1.943	.0063	-.0054	.0455	2.011
#2	.0036	.0317	1.904	.0076	.0063	.0629	2.001
#3	.0037	.0402	1.889	.0102	.0169	.0609	2.018
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.966	.0173	.0174	.1554	2.051	.0006	1.814
SDev	.023	.0020	.0105	.0081	.025	.0002	.015
%RSD	1.150	11.33	60.39	5.218	1.208	28.51	.8006
#1	1.992	.0164	.0077	.1466	2.022	.0004	1.831
#2	1.958	.0159	.0159	.1572	2.067	.0007	1.804
#3	1.949	.0195	.0286	.1625	2.063	.0008	1.807
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.941	.0012	.0169	08.603	-.0004	0.4948	.9554
SDev	.066	.0007	.0089	.009	.0013	.0120	.0127
%RSD	1.344	61.98	52.85	.1022	348.7	2.420	1.329
#1	5.017	.0003	.0216	08.594	-.0018	0.4990	.9700
#2	4.908	.0015	.0226	08.605	.0001	0.4812	.9490
#3	4.897	.0016	.0066	08.611	.0006	0.5040	.9472
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0069
SDev	.0006	.0010
%RSD	35.94	14.83
#1	.0010	-.0078
#2	.0021	-.0058
#3	.0016	-.0071
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 09:52:11 AM page

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 09:50:51
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.1120	Q.0914	Q.1155	.0482	.0218	.0293
SDev	.0003	.0018	.0055	.0029	.0000	.0000	.0022
%RSD	15.06	1.582	6.041	2.549	.0032	.1677	7.563
#1	.0024	.1136	Q.0883	Q.1123	.0482	.0218	.0319
#2	.0019	.1101	Q.0978	.1181	.0482	.0218	.0278
#3	Q.0026	.1123	Q.0882	Q.1163	.0482	.0217	.0283
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.05	Q.0104	.0096	Q.0258	Q.0204	.0209	-.0001
SDev	.02	.0013	.0046	.0005	.0010	.0005	.0002
%RSD	.0492	12.39	47.15	1.796	5.002	2.457	184.7
#1	Q35.05	.0115	.0067	Q.0261	Q.0200	.0214	.0000
#2	Q35.07	Q.0109	.0073	Q.0260	Q.0216	.0204	.0000
#3	Q35.04	Q.0090	.0149	Q.0252	Q.0198	.0211	-.0003
Errors	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	Q.1190	2.227	.0072	Q.0129	9.716	.0344
SDev	.0001	.0006	.068	.0014	.0002	.015	.0003
%RSD	5.821	.5048	3.069	18.61	1.611	.1562	.7720
#1	.0012	Q.1194	2.165	.0061	Q.0126	Q9.723	.0342
#2	.0013	Q.1183	2.215	.0069	Q.0130	9.698	.0347
#3	.0013	Q.1193	2.300	.0087	Q.0130	Q9.726	.0344
Errors	NOCHECK	QC Fail	QC Pass	NOCHECK	QC Fail	QC Pass	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1052	Q11.04	.0140	.0612	.0250	.0351	.0236
SDev	.0011	.04	.0033	.0033	.0033	.0030	.0109
%RSD	1.090	.3339	23.19	5.398	13.21	8.664	46.33
#1	.1057	Q11.06	.0115	.0604	.0228	Q.0329	.0128
#2	.1060	Q11.07	.0177	.0584	.0287	Q.0338	.0233
#3	.1039	Q11.00	.0129	.0649	.0233	Q.0386	.0347
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	.1043	12.19		.0606		.0353	

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Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0093	.0057	Q.0202	.0877	.0051	Q.2542	.0067
SDev	.0005	.0064	.0023	.0031	.0078	.0003	.0023
%RSD	5.380	111.8	11.15	3.539	152.7	.1062	33.66
#1	.0093	.0035	Q.0189	.0905	-.0016	Q.2541	.0044
#2	.0098	.0130	Q.0228	.0882	.0137	Q.2546	.0089
#3	.0088	.0008	Q.0189	.0844	.0032	Q.2541	.0069
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0058	.0081	Q.0196	.3037	Q.0282	.0006	-.0012
SDev	.0037	.0001	.0031	.0618	.0004	.0106	.0002
%RSD	63.02	1.898	16.00	20.34	1.313	1658.	14.34
#1	-.0044	.0082	Q.0230	.2466	Q.0285	-.0094	-.0011
#2	-.0031	.0079	Q.0191	.2952	Q.0278	-.0003	-.0014
#3	-.0100	.0081	Q.0168	.3693	Q.0283	.0116	-.0012
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0844	.0002
SDev	.0008	.0003
%RSD	.8931	122.2
#1	Q.0836	.0000
#2	Q.0843	.0001
#3	Q.0851	.0005
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Tue 09-12-95 09:56:19 AM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 09:55:00
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	1.913	2.013	1.951	.9987	.9769	1.936
SDev	.0006	.003	.017	.010	.0043	.0034	.022
%RSD	92.64	.1578	.8270	.5335	.4324	.3454	1.114
#1	-.0004	1.914	2.028	1.951	1.002	.9795	1.940
#2	-.0012	1.915	1.996	1.961	1.000	.9781	1.956
#3	-.0002	1.909	2.016	1.940	.9938	.9731	1.913

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.943	.9893	.0022	1.036	.5165	2.014	-.0008
SDev	.003	.0053	.0036	.003	.0037	.010	.0009
%RSD	.1712	.5333	161.2	.2851	.7152	.4888	118.3
#1	1.946	.9847	.0017	1.039	.5194	2.015	-.0009
#2	1.941	.9951	-.0011	1.034	.5123	2.024	-.0017
#3	1.940	.9862	.0061	1.035	.5179	2.004	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	2.016	4.814	.0006	1.943	2.092	1.021
SDev	.0000	.005	.122	.0015	.006	.010	.003
%RSD	4.745	.2452	2.541	239.1	.2863	.4840	.2583
#1	.0004	2.020	4.752	.0004	1.949	2.097	1.023
#2	.0005	2.016	4.735	-.0007	1.944	2.099	1.022
#3	.0004	2.011	4.955	.0023	1.938	2.080	1.018

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.998	8.015	-.0007	2.091	4.734	2.058	.0077
SDev	.009	.026	.0005	.007	.031	.016	.0111
%RSD	.4337	.3200	75.55	.3175	.6645	.7637	143.1
#1	2.005	8.045	-.0008	2.090	4.724	2.065	.0063
#2	2.002	7.998	-.0012	2.099	4.770	2.040	-.0025
#3	1.989	8.003	-.0001	2.086	4.710	2.069	.0194

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0018	1.938	5.045	-.0102	2.021	-.0142
SDev	.0040	.0026	.012	.008	.0208	.007	.0014
%RSD	466.5	144.2	.6042	.1635	202.9	.3652	10.14
#1	-.0030	.0005	1.938	5.055	-.0169	2.026	-.0143
#2	-.0033	.0048	1.950	5.041	-.0268	2.025	-.0127
#3	.0038	.0001	1.927	5.040	.0130	2.013	-.0156

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0067	.0003	1.939	.0056	.9611	.0092	-.0002
SDev	.0104	.0002	.016	.0560	.0025	.0102	.0003

%RSD	156.0	85.17	.8239	995.1	.2598	109.8	139.7
#1	-.0048	.0003	1.958	.0470	.9620	-.0019	-.0005
#2	.0154	.0000	1.934	-.0581	.9629	.0180	-.0002
#3	.0094	.0005	1.927	.0280	.9582	.0117	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	-.0018
SDev	.003	.0010
%RSD	.3025	53.14
#1	1.014	-.0008
#2	1.020	-.0028
#3	1.020	-.0019

Analysis Report Tue 09-12-95 10:02:04 AM page

Method: ICP1 Sample Name: SST-ICS-0 9509081100 Operator: DRS
Run Time: 09/12/95 10:00:45
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0074	97.39	.1145	.0038	.0004	.0007	.0562
SDev	.0013	.50	.0053	.0011	.0002	.0000	.0056
%RSD	17.23	.5126	4.618	29.87	43.88	2.547	10.03
#1	-.0075	97.57	.1110	.0033	.0002	.0007	.0519
#2	-.0061	96.83	.1206	.0030	.0006	.0007	.0626
#3	-.0086	97.78	.1119	.0051	.0005	.0007	.0542

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0752	.0087	-.1271	.0062	.0357	-.0069	-.0039
SDev	.0011	.0011	.0054	.0006	.0014	.0007	.0006
%RSD	1.479	12.53	4.247	10.09	3.805	9.633	15.34
#1	.0754	.0086	-.1287	.0069	.0346	-.0076	-.0045
#2	.0763	.0077	-.1211	.0058	.0372	-.0064	-.0033
#3	.0741	.0099	-.1315	.0059	.0353	-.0066	-.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	19.91	.0000	.0045	.0037	.2662	.0014
SDev	.0003	.09	.1172	.0007	.0002	.0159	.0001
%RSD	49.95	.4657	168e6	14.87	5.679	5.984	10.86
#1	.0004	19.94	-.0676	.0038	.0036	.2652	.0015
#2	.0010	19.81	.1353	.0050	.0036	.2827	.0014
#3	.0005	19.99	-.0676	.0048	.0039	.2509	.0012

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0099	.0010	-.0231	51.64	.0235	.1964	-.3452
SDev	.0002	.0175	.0065	.24	.0107	.0037	.0136
%RSD	1.626	1711.	28.26	.4655	45.71	1.892	3.951
#1	.0100	-.0145	-.0287	51.67	.0261	.2005	-.3502
#2	.0101	.0200	-.0160	51.39	.0327	.1956	-.3297
#3	.0098	-.0025	-.0246	51.87	.0117	.1932	-.3556

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0318	.0022	.0241	.0647	.0473	.0002	.0029
SDev	.0035	.0063	.0098	.0085	.0137	.0001	.0040
%RSD	10.87	290.0	40.55	13.09	29.01	28.37	137.7
#1	-.0355	.0024	.0305	.0698	.0315	.0002	-.0016
#2	-.0286	.0084	.0291	.0694	.0549	.0003	.0061
#3	-.0315	-.0042	.0129	.0549	.0555	.0003	.0041

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6596	.0013	.2185	49.87	.0021	.0531	.0032
SDev	.0066	.0004	.0029	.39	.0009	.0069	.0004

%RSD	1.003	28.09	1.336	.7870	41.05	13.06	11.51
#1	.6646	.0014	.2189	49.82	.0023	.0462	.0034
#2	.6621	.0016	.2154	49.50	.0029	.0600	.0035
#3	.6521	.0009	.2212	50.28	.0012	.0531	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0279	9.983
SDev	.0017	.058
%RSD	5.960	.5815
#1	-.0261	10.01
#2	-.0294	9.916
#3	-.0281	10.02

Analysis Report Tue 09-12-95 10:07:54 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 10:06:34
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0062	.0105	.0036	.0002	-.0000	.0066
SDev	.0008	.0046	.0068	.0013	.0003	.0000	.0072
%RSD	120.6	74.54	64.16	37.20	137.6	685.9	109.4
#1	.0009	.0099	.0158	.0050	.0004	.0000	.0051
#2	-.0002	.0010	.0029	.0023	-.0001	-.0000	.0002
#3	.0012	.0076	.0129	.0034	.0004	-.0000	.0144

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	-.0009	.0029	.0018	-.0001	-.0008	.0003
SDev	.0021	.0010	.0090	.0008	.0017	.0009	.0009
%RSD	84.39	119.3	304.2	46.07	2708.	106.6	339.7
#1	.0047	-.0020	.0111	.0025	.0019	-.0007	.0011
#2	.0007	-.0003	-.0067	.0009	-.0011	.0000	-.0007
#3	.0020	-.0002	.0044	.0020	-.0010	-.0018	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0010	-.0169	.0012	.0011	.0097	-.0003
SDev	.0004	.0004	.2325	.0021	.0009	.0080	.0003
%RSD	146.6	40.17	1375.	179.8	88.13	82.47	96.46
#1	.0005	.0010	.1860	.0026	.0014	.0153	-.0002
#2	-.0002	.0006	-.2706	-.0013	.0000	.0005	-.0007
#3	.0004	.0014	.0338	.0022	.0018	.0133	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0013	.0038	.0052	.0078	.0011	.0248
SDev	.0012	.0211	.0080	.0022	.0106	.0054	.0204
%RSD	104.6	1583.	210.1	41.66	136.6	511.3	82.25
#1	.0026	.0039	.0087	.0059	.0175	.0024	.0440
#2	.0004	-.0209	-.0054	.0028	-.0036	-.0049	.0035
#3	.0005	.0210	.0081	.0069	.0095	.0057	.0268

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0100	.0052	.0081	-.0006	.0195	.0005	.0071
SDev	.0083	.0034	.0111	.0052	.0188	.0001	.0056
%RSD	82.91	64.71	137.9	898.3	96.47	22.59	79.06
#1	.0145	.0026	.0121	.0014	.0316	.0006	.0135
#2	.0004	.0090	-.0045	-.0064	-.0022	.0004	.0031
#3	.0150	.0040	.0166	.0033	.0291	.0005	.0047

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0001	.0044	.0388	.0002	-.0012	.0002
SDev	.0022	.0004	.0069	.1338	.0007	.0096	.0005

%RSD	16680.	762.4	157.2	345.0	283.8	779.6	297.2
#1	-.0024	.0004	.0120	.1618	.0010	.0076	.0007
#2	.0004	-.0004	-.0014	-.1037	-.0003	-.0115	-.0003
#3	.0019	.0001	.0026	.0583	.0000	.0002	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0000	.0004
SDev	.0006	.0014
%RSD	3064.	347.3
#1	-.0005	.0018
#2	-.0002	-.0010
#3	.0007	.0004

Analysis Report Tue 09-12-95 10:11:13 AM page 1

Method: ICP1 Sample Name: 95-007932-A3 @2 Operator: DRS
Run Time: 09/12/95 10:09:53
Comment: DRAINABLE LIQUIDS METHOD BLANK @2XDIL(ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0717	.0139	.8091	.0014	-.0000	.0003
SDev	.0004	.0049	.0064	.0057	.0001	.0000	.0037
%RSD	118.8	6.865	46.12	.7045	5.034	196.0	1124.
#1	-.0001	.0771	.0067	.8066	.0013	.0000	.0044
#2	-.0001	.0702	.0188	.8050	.0014	-.0000	-.0030
#3	-.0007	.0676	.0161	.8156	.0013	-.0000	-.0004

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0397	-.0002	-.0038	.0014	.0001	.0026	-.0007
SDev	.0008	.0012	.0061	.0009	.0018	.0014	.0003
%RSD	1.901	617.1	160.0	62.66	1814.	54.13	41.53
#1	.0400	.0011	-.0038	.0024	-.0005	.0033	-.0008
#2	.0404	-.0005	.0023	.0014	-.0013	.0035	-.0004
#3	.0389	-.0012	-.0099	.0006	.0021	.0010	-.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0130	-.2086	-.0009	.0002	.0053	-.0001
SDev	.0002	.0007	.1356	.0011	.0009	.0034	.0004
%RSD	2695.	5.373	65.03	124.8	384.3	65.02	371.8
#1	.0001	.0138	-.2198	-.0011	-.0007	.0079	.0002
#2	.0001	.0129	-.0676	.0003	.0011	.0066	-.0001
#3	-.0002	.0124	-.3382	-.0018	.0004	.0014	-.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.9940	-.0033	.0106	.0116	-.0011	.0053
SDev	.0015	.0136	.0038	.0015	.0114	.0021	.0113
%RSD	146.0	1.368	116.0	14.01	98.18	187.5	215.6
#1	-.0001	.9884	.0010	.0089	.0053	.0008	.0113
#2	.0028	.9841	-.0044	.0114	.0248	-.0008	.0123
#3	.0005	1.010	-.0063	.0114	.0048	-.0034	-.0078

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.0129	.0018	1.012	-.0021	.0004	.0018
SDev	.0042	.0066	.0106	.009	.0040	.0001	.0022
%RSD	202.5	51.08	577.5	.8706	191.9	15.86	122.5
#1	.0060	.0053	-.0071	1.005	-.0025	.0005	-.0004
#2	.0026	.0166	.0134	1.009	.0021	.0005	.0040
#3	-.0023	.0168	-.0008	1.022	-.0059	.0003	.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0044	.0014	.0133	.0085	-.0006	-.0020	-.0005
SDev	.0042	.0003	.0038	.0367	.0004	.0038	.0002

%RSD	95.69	20.55	28.36	432.8	72.66	184.2	34.48
#1	-.0093	.0016	.0110	-.0325	-.0001	.0020	-.0004
#2	-.0020	.0014	.0177	.0384	-.0009	-.0026	-.0004
#3	-.0020	.0011	.0113	.0196	-.0008	-.0055	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0051	.0009
SDev	.0012	.0006
%RSD	23.85	59.67
#1	.0061	.0015
#2	.0054	.0009
#3	.0037	.0004

Analysis Report Tue 09-12-95 10:15:00 AM page 1

Method: ICP1 Sample Name: 95-007932-A3 Operator: DRS
Run Time: 09/12/95 10:13:41
Comment: DRAINABLE LIQUIDS METHOD BLANK (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	.1267	.0087	1.584	.0019	-.0001	-.0012
SDev	.0010	.0035	.0018	.013	.0001	.0000	.0057
%RSD	83.15	2.745	20.97	.8146	3.589	25.72	473.4
#1	-.0010	.1303	.0085	1.576	.0019	-.0001	.0048
#2	-.0023	.1233	.0107	1.599	.0018	-.0001	-.0067
#3	-.0003	.1266	.0070	1.577	.0019	-.0001	-.0018

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0126	-.0013	-.0106	.0005	.0016	-.0020	-.0026
SDev	.0017	.0007	.0020	.0015	.0006	.0016	.0008
%RSD	13.75	55.46	19.39	323.3	35.57	80.15	28.88
#1	.0127	-.0008	-.0103	.0007	.0023	-.0002	-.0027
#2	.0108	-.0021	-.0127	-.0012	.0012	-.0030	-.0034
#3	.0142	-.0009	-.0087	.0019	.0014	-.0028	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0194	-.6821	-.0029	.0001	.0060	-.0003
SDev	.0002	.0005	.1280	.0013	.0013	.0102	.0001
%RSD	29.45	2.476	18.77	43.84	1056.	169.7	42.29
#1	-.0005	.0192	-.5919	-.0023	-.0000	.0176	-.0003
#2	-.0008	.0191	-.8286	-.0044	-.0011	-.0016	-.0005
#3	-.0005	.0200	-.6257	-.0021	.0014	.0020	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	1.918	-.0150	.0176	.0059	.0003	-.0267
SDev	.0009	.011	.0067	.0014	.0118	.0037	.0175
%RSD	100.7	.5850	44.53	7.712	198.1	1244.	65.66
#1	.0002	1.927	-.0128	.0161	.0082	-.0002	-.0208
#2	.0019	1.922	-.0225	.0187	.0164	-.0031	-.0463
#3	.0005	1.905	-.0097	.0180	-.0068	.0042	-.0128

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0169	.0099	-.0022	1.995	-.0360	.0004	.0030
SDev	.0046	.0081	.0033	.008	.0198	.0000	.0044
%RSD	27.29	82.10	151.6	.4073	55.04	1.133	147.9
#1	-.0130	.0072	-.0057	1.986	-.0132	.0004	.0039
#2	-.0220	.0034	.0008	2.001	-.0454	.0004	-.0018
#3	-.0157	.0190	-.0016	1.996	-.0493	.0004	.0068

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0020	.0083	-.2183	-.0014	-.0040	-.0010
SDev	.0038	.0002	.0030	.0410	.0006	.0046	.0001

%RSD	232.4	8.139	35.90	18.78	41.81	116.5	15.26
#1	.0057	.0020	.0064	-.2154	-.0013	.0010	-.0009
#2	-.0019	.0018	.0068	-.2607	-.0020	-.0048	-.0011
#3	.0011	.0021	.0118	-.1789	-.0008	-.0081	-.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0085	-.0005
SDev	.0007	.0006
%RSD	8.549	109.6
#1	.0081	-.0009
#2	.0094	-.0009
#3	.0081	.0001

Analysis Report Tue 09-12-95 10:21:03 AM page

Method: ICP1 Sample Name: 95-007932-A4 @2 Operator: DRS
Run Time: 09/12/95 10:19:44
Comment: MATRIX SPIKE @2X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.0122	55289.	k-47.70	k1.747	k.0036	k.0114	k.1827
SDev	.0001	.	.08	.013	.0001	.0001	.0067
%RSD	.6496	.0000	.1681	.7688	3.796	.5460	3.671
#1	k.0121	55289.	k-47.68	k1.753	k.0035	k.0114	k.1857
#2	k.0122	55289.	k-47.63	k1.756	k.0037	k.0115	k.1750
#3	k.0121	55289.	k-47.78	k1.731	k.0037	k.0114	k.1874

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k2.359	k.5727	k.0279	k.3063	k10.79	k.1440	k.0019
SDev	.005	.0024	.0100	.0003	.04	.0008	.0008
%RSD	.2207	.4125	35.99	.1127	.3750	.5435	41.13
#1	k2.357	k.5706	k.0270	k.3066	k10.80	k.1446	k.0016
#2	k2.365	k.5722	k.0184	k.3064	k10.82	k.1443	k.0014
#3	k2.356	k.5753	k.0384	k.3059	k10.74	k.1431	k.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.0027	k4.277	107.0	k.0176	k.0368	k.0546	k-.0386
SDev	.0001	.015	.5	.0011	.0002	.0031	.0001
%RSD	4.820	.3495	.4730	6.160	.5647	5.746	.2585
#1	k.0027	k4.278	107.4	k.0168	k.0370	k.0512	k-.0387
#2	k.0026	k4.292	107.3	k.0173	k.0367	k.0552	k-.0385
#3	k.0029	k4.262	106.5	k.0189	k.0367	k.0573	k-.0387

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k-1.459	4922.	k.0189	k13.21	k2.471	k-3.722	k.0844
SDev	.007	27.	.0047	.04	.125	.035	.0127
%RSD	.4876	.5454	25.06	.2804	5.045	.9436	15.10
#1	k-1.460	4941.	k.0171	k13.22	k2.451	k-3.749	k.0788
#2	k-1.452	4932.	k.0154	k13.24	k2.605	k-3.682	k.0754
#3	k-1.466	4891.	k.0243	k13.17	k2.358	k-3.735	k.0990

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.1034	k-13.55	k-12.44	k7.240	k.7937	k.0093	k-5.873
SDev	.0076	.01	.02	.015	.0112	.0001	.017
%RSD	7.367	.0778	.1793	.2138	1.410	.6641	.2897
#1	k.1015	k-13.54	k-12.41	k7.230	k.7903	k.0093	k-5.889
#2	k.0969	k-13.54	k-12.44	k7.258	k.7847	k.0093	k-5.855
#3	k.1118	k-13.56	k-12.45	k7.233	k.8062	k.0094	k-5.875

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.1021	k.0026	k2.869	k8.547	k.0051	k2.349	k.0014
SDev	.0034	.0004	.026	.070	.0005	.013	.0004

%RSD	3.375	16.11	.8915	.8166	9.318	.5336	30.26
#1	k.1001	k.0023	k2.896	k8.554	k.0050	k2.341	k.0010
#2	k.1061	k.0024	k2.866	k8.475	k.0046	k2.343	k.0014
#3	k.1001	k.0031	k2.845	k8.614	k.0056	k2.364	k.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	k.2550	k.1988
SDev	.0014	.0009
%RSD	.5588	.4768
#1	k.2534	k.1978
#2	k.2562	k.1997
#3	k.2554	k.1989

Analysis Report Tue 09-12-95 10:25:32 AM page

Method: ICP1 Sample Name: 95-007932-A4 @10 Operator: DRS
Run Time: 09/12/95 10:24:12
Comment: MATRIX SPIKE @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	284.9	.2380	.3768	.0013	.0025	.0408
SDev	.0018	3.0	.0130	.0045	.0002	.0000	.0091
%RSD	66.15	1.044	5.481	1.204	18.68	.6602	22.28
#1	.0008	287.7	.2239	.3815	.0010	.0024	.0303
#2	.0043	281.8	.2497	.3725	.0015	.0025	.0454
#3	.0031	285.3	.2404	.3762	.0013	.0025	.0467

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5924	.0238	.0156	.0690	2.376	.0266	.0006
SDev	.0041	.0015	.0120	.0006	.020	.0015	.0013
%RSD	.6879	6.490	77.07	.9251	.8328	5.662	215.4
#1	.5878	.0224	.0033	.0683	2.390	.0260	-.0007
#2	.5936	.0237	.0274	.0695	2.354	.0284	.0018
#3	.5957	.0255	.0161	.0692	2.386	.0256	.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.9499	23.31	.0048	.0102	.0167	.0117
SDev	.0004	.0057	.20	.0019	.0007	.0058	.0004
%RSD	53.28	.6009	.8375	39.19	7.284	34.63	3.210
#1	.0003	.9533	23.54	.0032	.0096	.0104	.0113
#2	.0010	.9433	23.20	.0069	.0110	.0217	.0120
#3	.0007	.9531	23.20	.0042	.0100	.0181	.0117

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1141	1429.	.0058	2.948	3.718	1.217	.0367
SDev	.0010	20.	.0076	.022	.018	.015	.0290
%RSD	.8654	1.366	132.2	.7439	.4969	1.204	78.88
#1	.1131	1449.	-.0014	2.955	3.697	1.201	.0073
#2	.1151	1410.	.0138	2.923	3.732	1.223	.0653
#3	.1141	1429.	.0049	2.965	3.725	1.228	.0376

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0282	-.0364	-.0138	1.508	.1410	.0024	-.0447
SDev	.0115	.0075	.0090	.006	.0396	.0001	.0087
%RSD	40.96	20.65	64.81	.3899	28.12	2.461	19.41
#1	.0154	-.0451	-.0172	1.513	.1045	.0023	-.0547
#2	.0379	-.0316	-.0037	1.502	.1831	.0024	-.0400
#3	.0312	-.0327	-.0206	1.508	.1353	.0024	-.0394

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0166	.0005	.6071	1.964	.0006	.5232	.0003
SDev	.0037	.0005	.0048	.114	.0013	.0087	.0005

Analysis Report Tue 09-12-95 10:25:32 AM page 2

%RSD	21.94	84.14	.7942	5.799	201.7	1.669	156.1
#1	.0203	.0000	.6017	1.843	-.0006	.5150	-.0002
#2	.0130	.0009	.6086	2.069	.0019	.5324	.0009
#3	.0167	.0007	.6110	1.979	.0006	.5221	.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0564	.0421
SDev	.0011	.0009
%RSD	1.924	2.254
#1	.0555	.0410
#2	.0576	.0426
#3	.0560	.0426

Analysis Report

Tue 09-12-95 10:31:10 AM page

Method: ICP1 Sample Name: 95-007932-A4 @50 Operator: DRS
Run Time: 09/12/95 10:29:51
Comment: MATRIX SPIKE @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	58.98	.0374	.0792	-.0001	.0004	.0062
SDev	.0006	.19	.0045	.0018	.0001	.0000	.0035
%RSD	19.47	.3175	12.10	2.222	84.35	.5780	57.12
#1	-.0022	58.91	.0394	.0795	-.0000	.0004	.0094
#2	-.0033	59.19	.0322	.0772	-.0001	.0004	.0068
#3	-.0029	58.83	.0405	.0807	-.0001	.0004	.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0909	.0047	-.0202	.0130	.4970	-.0003	-.0029
SDev	.0006	.0005	.0023	.0006	.0011	.0004	.0000
%RSD	.6165	9.832	11.37	4.284	.2154	145.3	.7037
#1	.0915	.0052	-.0194	.0132	.4971	-.0002	-.0029
#2	.0908	.0046	-.0184	.0123	.4980	-.0008	-.0029
#3	.0904	.0043	-.0228	.0133	.4958	.0001	-.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.1996	4.425	-.0042	.0001	-.0116	.0019
SDev	.0001	.0001	.052	.0003	.0008	.0036	.0002
%RSD	13.37	.0237	1.168	8.330	651.9	30.67	11.01
#1	-.0007	.1997	4.380	-.0043	.0004	-.0106	.0020
#2	-.0006	.1996	4.461	-.0038	.0007	-.0156	.0021
#3	-.0006	.1996	4.414	-.0044	-.0007	-.0087	.0017

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0218	319.8	-.0165	.6190	.7417	.2315	-.0258
SDev	.0011	1.8	.0012	.0031	.0321	.0039	.0013
%RSD	5.143	.5515	7.058	.5000	4.326	1.700	5.181
#1	.0226	319.2	-.0177	.6174	.7787	.2359	-.0243
#2	.0223	321.8	-.0165	.6226	.7231	.2284	-.0263
#3	.0205	318.4	-.0154	.6171	.7232	.2302	-.0268

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0149	-.0102	-.0182	.2896	-.0531	.0005	-.0284
SDev	.0016	.0034	.0010	.0046	.0121	.0001	.0028
%RSD	10.94	33.28	5.480	1.599	22.81	13.62	9.813
#1	-.0131	-.0139	-.0173	.2860	-.0394	.0005	-.0314
#2	-.0163	-.0097	-.0193	.2948	-.0625	.0006	-.0258
#3	-.0153	-.0071	-.0182	.2879	-.0573	.0004	-.0281

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0013	.1176	.1636	-.0024	.1015	-.0012
SDev	.0053	.0003	.0067	.0316	.0002	.0009	.0002

%RSD	4718.	20.47	5.725	19.32	6.668	.8740	15.41
#1	.0003	-.0013	.1215	.1297	-.0024	.1004	-.0010
#2	.0050	-.0010	.1098	.1686	-.0023	.1020	-.0014
#3	-.0056	-.0016	.1214	.1923	-.0026	.1019	-.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0108	.0062
SDev	.0001	.0004
%RSD	1.201	6.350
#1	.0109	.0063
#2	.0109	.0057
#3	.0107	.0065

Analysis Report

Tue 09-12-95 10:35:07 AM page :

Method: ICP1 Sample Name: Na @500 PPM Operator: DRS
Run Time: 09/12/95 10:33:48
Comment: 950622I124 @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0461	.0061	.0868	.0001	-.0000	.0003
SDev	.0011	.0041	.0066	.0014	.0002	.0000	.0040
%RSD	126.9	8.810	107.7	1.648	194.6	58.93	1470.
#1	-.0016	.0445	-.0014	.0881	-.0001	-.0000	-.0043
#2	-.0015	.0430	.0108	.0853	.0001	-.0000	.0027
#3	.0004	.0507	.0088	.0871	.0004	-.0000	.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3083	-.0008	.0262	.0004	.0008	-.0046	-.0006
SDev	.0005	.0005	.0077	.0009	.0016	.0011	.0008
%RSD	.1685	69.01	29.52	259.5	198.0	24.05	130.5
#1	.3087	-.0004	.0179	-.0003	-.0009	-.0058	-.0011
#2	.3077	-.0014	.0275	-.0000	.0022	-.0040	-.0012
#3	.3086	-.0006	.0332	.0015	.0012	-.0039	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0029	-.2931	-.0004	.0016	.0042	-.0003
SDev	.0004	.0010	.2032	.0017	.0014	.0085	.0003
%RSD	3136.	34.76	69.31	400.5	82.92	205.3	81.90
#1	-.0003	.0017	-.4904	-.0011	.0010	-.0050	-.0007
#2	-.0002	.0036	-.3044	-.0017	.0007	.0057	-.0002
#3	.0004	.0032	-.0846	.0015	.0032	.0118	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	499.0	-.0069	-.0006	.0101	-.0065	-.0021
SDev	.0001	5.8	.0046	.0007	.0070	.0006	.0189
%RSD	19.37	1.169	66.16	112.2	69.60	9.380	908.9
#1	.0007	503.3	-.0119	-.0014	.0178	-.0058	-.0164
#2	.0007	501.2	-.0060	-.0002	.0085	-.0067	-.0091
#3	.0010	492.3	-.0028	-.0002	.0040	-.0070	.0193

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	.0194	-.0036	1.154	-.0161	.0042	-.0003
SDev	.0059	.0116	.0103	.004	.0362	.0001	.0076
%RSD	160.6	59.52	289.7	.3493	225.1	2.663	2260.
#1	-.0085	.0117	-.0153	1.155	-.0565	.0042	-.0002
#2	-.0054	.0327	.0004	1.158	-.0049	.0041	-.0080
#3	.0029	.0138	.0042	1.150	.0132	.0043	.0072

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	-.0001	.0085	-.0612	-.0010	-.0039	-.0004
SDev	.0013	.0004	.0077	.1167	.0008	.0018	.0005

%RSD	69.54	517.1	90.12	190.8	78.99	46.66	113.3
#1	-.0014	-.0003	-.0002	-.1773	-.0013	-.0021	-.0006
#2	-.0034	-.0003	.0113	-.0622	-.0015	-.0038	-.0007
#3	-.0009	.0004	.0145	.0561	-.0001	-.0057	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0063	.0025
SDev	.0010	.0009
%RSD	15.51	33.93
#1	.0067	.0018
#2	.0070	.0023
#3	.0052	.0035

Analysis Report Tue 09-12-95 10:41:13 AM page

Method: ICP1 Sample Name: 95-007932-A5 @50 Operator: DRS
Run Time: 09/12/95 10:39:53
Comment: SPIKE CONTROL @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.1782	.0015	.0415	-.0000	-.0000	.0002
SDev	.0004	.0053	.0024	.0005	.0001	.0000	.0014
%RSD	20.13	2.976	155.6	1.169	145.8	87.92	612.8
#1	-.0019	.1747	-.0012	.0409	-.0000	-.0001	-.0013
#2	-.0014	.1843	.0027	.0418	-.0000	-.0000	.0013
#3	-.0021	.1755	.0031	.0417	-.0001	-.0000	.0007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0555	.0039	.0089	.0003	.0280	-.0055	-.0012
SDev	.0001	.0005	.0052	.0006	.0020	.0008	.0004
%RSD	.2028	12.24	58.46	185.1	7.148	15.18	32.06
#1	.0556	.0037	.0127	.0008	.0297	-.0058	-.0010
#2	.0554	.0036	.0110	.0006	.0284	-.0045	-.0010
#3	.0556	.0045	.0030	-.0004	.0258	-.0060	-.0017

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0042	-.0113	-.0015	.0006	.0030	.0014
SDev	.0002	.0008	.0683	.0012	.0013	.0068	.0001
%RSD	100.6	18.34	606.2	80.18	213.3	227.0	6.881
#1	-.0003	.0038	.0000	-.0028	.0007	.0017	.0013
#2	.0000	.0036	.0507	-.0009	.0018	.0104	.0014
#3	-.0003	.0050	-.0846	-.0007	-.0007	-.0031	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.3514	-.0091	.0973	.0067	.0840	-.0122
SDev	.0002	.0089	.0009	.0011	.0187	.0060	.0037
%RSD	118.2	2.527	9.387	1.180	276.9	7.147	30.40
#1	-.0002	.3415	-.0094	.0985	-.0148	.0908	-.0097
#2	.0000	.3542	-.0081	.0969	.0186	.0818	-.0104
#3	-.0004	.3586	-.0098	.0963	.0164	.0794	-.0164

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0068	.0114	-.0063	.2264	-.0525	.0002	-.0064
SDev	.0033	.0095	.0097	.0027	.0111	.0001	.0034
%RSD	48.65	83.30	153.7	1.202	21.12	77.45	53.56
#1	-.0090	.0184	.0002	.2242	-.0521	.0001	-.0102
#2	-.0030	.0151	-.0016	.2295	-.0638	.0003	-.0055
#3	-.0084	.0006	-.0176	.2256	-.0417	.0001	-.0035

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0004	.0058	.2803	-.0012	-.0027	-.0005
SDev	.0028	.0002	.0050	.0532	.0002	.0121	.0002

%RSD	463.0	42.91	86.46	18.99	14.04	452.1	34.56
#1	-.0033	-.0003	.0001	.3210	-.0011	.0094	-.0003
#2	-.0006	-.0003	.0097	.3000	-.0012	-.0149	-.0006
#3	.0022	-.0006	.0076	.2201	-.0014	-.0026	-.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0006	.0073
SDev	.0006	.0003
%RSD	95.38	3.542
#1	-.0008	.0076
#2	.0000	.0072
#3	-.0011	.0071

Analysis Report Tue 09-12-95 10:44:52 AM page

Method: ICP1 Sample Name: 95-007932-A5 @10 Operator: DRS
Run Time: 09/12/95 10:43:33
Comment: SPIKE CONTROL @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.9133	.0039	.2045	.0000	-.0000	.0073
SDev	.0014	.0081	.0040	.0015	.0003	.0000	.0031
%RSD	79.32	.8832	103.9	.7150	688.7	62.78	42.05
#1	-.0022	.9138	.0080	.2059	-.0000	-.0000	.0044
#2	-.0028	.9211	.0036	.2030	-.0002	-.0000	.0105
#3	-.0002	.9050	-.0000	.2044	.0003	-.0000	.0070

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4436	.0211	-.0019	.0002	.1393	-.0051	-.0022
SDev	.0016	.0020	.0057	.0013	.0006	.0009	.0016
%RSD	.3708	9.452	297.5	723.8	.4459	16.89	71.07
#1	.4439	.0204	-.0027	-.0006	.1391	-.0059	-.0029
#2	.4451	.0233	-.0072	-.0004	.1388	-.0051	-.0033
#3	.4418	.0195	.0041	.0016	.1400	-.0042	-.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0061	1.488	-.0019	-.0009	.0074	.0091
SDev	.0002	.0009	.216	.0023	.0016	.0066	.0002
%RSD	85.30	15.21	14.51	117.8	182.6	90.19	2.058
#1	-.0004	.0052	1.437	-.0034	-.0026	.0100	.0088
#2	-.0004	.0060	1.302	-.0031	-.0008	-.0002	.0091
#3	-.0000	.0071	1.725	.0007	.0007	.0123	.0092

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	1.814	-.0149	.4942	.0095	.4734	-.0303
SDev	.0006	.067	.0069	.0072	.0127	.0096	.0251
%RSD	138.4	3.707	46.33	1.456	133.0	2.034	82.91
#1	.0009	1.855	-.0158	.4949	-.0035	.4650	-.0421
#2	-.0002	1.851	-.0212	.5010	.0104	.4712	-.0474
#3	.0005	1.736	-.0075	.4867	.0218	.4839	-.0015

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0139	.0043	-.0113	1.238	-.0544	.0002	-.0012
SDev	.0079	.0056	.0051	.005	.0349	.0001	.0031
%RSD	57.14	128.8	45.45	.4085	64.07	73.45	252.8
#1	-.0178	.0014	-.0153	1.240	-.0758	.0001	.0008
#2	-.0191	.0008	-.0055	1.242	-.0734	.0001	.0004
#3	-.0048	.0108	-.0132	1.233	-.0142	.0003	-.0049

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	-.0002	.0075	1.686	-.0014	-.0044	-.0007
SDev	.0047	.0004	.0073	.084	.0009	.0013	.0005

%RSD	23.52	163.7	96.65	5.010	62.24	28.92	68.40
#1	.0231	-.0003	.0071	1.626	-.0018	-.0058	-.0010
#2	.0146	-.0006	.0004	1.649	-.0021	-.0042	-.0010
#3	.0224	.0002	.0150	1.782	-.0004	-.0032	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0003	.0434
SDev	.0005	.0008
%RSD	154.7	1.846
#1	-.0008	.0425
#2	.0001	.0438
#3	-.0002	.0439

Analysis Report Tue 09-12-95 10:48:28 AM page

Method: ICP1 Sample Name: 95-007932-A5 Operator: DRS
Run Time: 09/12/95 10:47:09
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0101	8.746	.0029	1.927	.0005	-.0001	-.0180
SDev	.0005	.030	.0100	.013	.0001	.0000	.0057
%RSD	5.221	.3463	344.6	.6586	24.03	11.16	31.63
#1	-.0107	8.772	-.0076	1.940	.0004	-.0001	-.0140
#2	-.0099	8.713	.0040	1.915	.0005	-.0001	-.0155
#3	-.0097	8.752	.0123	1.926	.0006	-.0001	-.0246

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.236	.2066	-.0630	-.0066	1.314	-.0081	-.0139
SDev	.006	.0039	.0079	.0007	.006	.0009	.0009
%RSD	.1487	1.885	12.51	11.14	.4638	11.34	6.494
#1	4.237	.2110	-.0691	-.0060	1.320	-.0081	-.0148
#2	4.229	.2038	-.0541	-.0074	1.308	-.0072	-.0138
#3	4.241	.2048	-.0658	-.0064	1.313	-.0091	-.0130

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0033	.0195	16.98	-.0151	-.0051	.0654	.0877
SDev	.0002	.0008	.33	.0014	.0004	.0110	.0002
%RSD	7.080	4.142	1.965	9.349	6.977	16.80	.2372
#1	-.0036	.0194	16.83	-.0167	-.0051	.0686	.0879
#2	-.0034	.0204	16.76	-.0148	-.0048	.0745	.0877
#3	-.0031	.0188	17.37	-.0139	-.0055	.0532	.0875

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	17.84	-.0715	4.539	-.0312	4.373	-.3072
SDev	.0008	.25	.0056	.019	.0046	.025	.0208
%RSD	12.79	1.397	7.761	.4136	14.84	.5791	6.776
#1	-.0060	17.83	-.0774	4.557	-.0302	4.363	-.3313
#2	-.0056	17.60	-.0708	4.520	-.0362	4.353	-.2961
#3	-.0071	18.10	-.0664	4.539	-.0271	4.401	-.2944

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.1052	-.0316	-.0302	11.83	-.2306	-.0002	-.0422
SDev	.0043	.0013	.0052	.03	.0195	.0001	.0023
%RSD	4.071	4.123	17.09	.2818	8.440	25.33	5.519
#1	-.1091	-.0328	-.0283	11.84	-.2531	-.0003	-.0423
#2	-.1059	-.0302	-.0361	11.79	-.2187	-.0003	-.0398
#3	-.1006	-.0318	-.0263	11.85	-.2201	-.0002	-.0445

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1962	-.0007	.0213	17.56	-.0086	-.0161	-.0034
SDev	.0055	.0001	.0022	.10	.0007	.0061	.0002

%RSD	2.803	16.40	10.11	.5817	8.708	37.83	5.647
#1	.1981	-.0008	.0237	17.60	-.0094	-.0095	-.0036
#2	.1900	-.0007	.0195	17.44	-.0081	-.0215	-.0032
#3	.2005	-.0006	.0207	17.63	-.0082	-.0172	-.0033

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0021	.4378
SDev	.0016	.0023
%RSD	74.60	.5214
#1	-.0038	.4397
#2	-.0018	.4353
#3	-.0007	.4385

Analysis Report QC Standard Tue 09-12-95 10:52:45 AM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 10:51:25
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PK 55 DB 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4911	25.18	2.630	2.004	.5111	.0951	24.82
SDev	.0009	.13	.009	.007	.0020	.0002	.13
%RSD	.1874	.5141	.3567	.3255	.3997	.2081	.5429
#1	.4903	25.10	2.640	1.998	.5105	.0950	24.76
#2	.4910	25.12	2.622	2.003	.5094	.0950	24.72
#3	.4921	25.33	2.627	2.011	.5133	.0953	24.97
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.22	.5009	-.0354	1.034	1.034	.9968	-.0001
SDev	.01	.0024	.0033	.002	.000	.0039	.0002
%RSD	.0499	.4861	9.181	.2098	.0473	.3951	143.9
#1	25.20	.4981	-.0378	1.035	1.035	.9958	.0000
#2	25.22	.5027	-.0317	1.035	1.035	.9935	-.0001
#3	25.23	.5018	-.0368	1.031	1.034	1.001	-.0004
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	20.57	26.72	.0044	1.982	26.69	.5154
SDev	.0001	.03	.62	.0011	.034	.06	.0009
%RSD	6.950	.1314	2.311	26.14	1.724	.2141	.1769
#1	.0020	20.56	26.23	.0042	1.961	26.63	.5144
#2	.0021	20.55	26.52	.0056	1.964	26.70	.5155
#3	.0018	20.61	27.41	.0034	2.021	26.74	.5162
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.036	25.67	.0074	1.066	.0590	2.613	-.0106
SDev	.003	.51	.0040	.008	.0114	.010	.0095
%RSD	.2853	1.979	53.80	.7207	19.38	.3726	89.43
#1	1.033	25.30	.0040	1.057	.0604	2.613	-.0099
#2	1.037	25.46	.0118	1.071	.0470	2.623	-.0015
#3	1.039	26.25	.0064	1.071	.0697	2.603	-.0204
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	2.567	2.524	19.41	-.0929	.5175	.0006
SDev	.0022	.005	.020	.08	.0067	.0018	.0059
%RSD	82.18	.1885	.7793	.3998	7.249	.3458	995.7
#1	-.0016	2.567	2.534	19.35	-.0928	.5168	-.0017
#2	-.0013	2.571	2.501	19.39	-.0862	.5161	.0073
#3	-.0053	2.562	2.537	19.50	-.0997	.5195	-.0038
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0386	1.004	2.564	.0273	.9975	.0284	-.0002
SDev	.0036	.002	.017	.0760	.0019	.0040	.0006
%RSD	9.357	.2135	.6500	278.1	.1850	14.13	318.1
#1	.0358	1.003	2.563	.0583	.9961	.0329	.0000
#2	.0372	1.002	2.548	.0829	.9967	.0253	.0003
#3	.0427	1.006	2.582	-.0592	.9996	.0270	-.0008
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.025	2.055
SDev	.003	.003
%RSD	.2934	.1477
#1	1.023	2.054
#2	1.028	2.053
#3	1.023	2.059
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 10:58:33 AM page

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 10:57:13
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0082	97.86	.1193	-.0011	.0003	.0007	.0578
SDev	.0014	1.10	.0137	.0003	.0003	.0000	.0041
%RSD	17.38	1.127	11.46	27.74	74.47	4.815	7.060
#1	-.0066	96.64	.1282	-.0014	.0006	.0007	.0564
#2	-.0088	98.16	.1262	-.0012	.0003	.0007	.0546
#3	-.0092	98.78	.1036	-.0008	.0001	.0007	.0624

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0766	.0069	-.1322	.0048	.0352	-.0182	-.0038
SDev	.0019	.0005	.0118	.0014	.0018	.0007	.0012
%RSD	2.410	7.163	8.929	28.16	5.030	3.892	31.82
#1	.0782	.0069	-.1196	.0058	.0369	-.0174	-.0024
#2	.0770	.0064	-.1342	.0054	.0334	-.0185	-.0043
#3	.0746	.0074	-.1430	.0033	.0354	-.0187	-.0047

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	19.95	-.0789	.0039	.0045	.2815	.0011
SDev	.0006	.11	.3050	.0026	.0016	.0064	.0005
%RSD	117.9	.5560	386.5	66.18	36.57	2.278	41.96
#1	.0011	19.82	.2368	.0058	.0064	.2851	.0015
#2	.0004	20.01	-.1015	.0049	.0036	.2854	.0013
#3	-.0000	20.02	-.3720	.0010	.0036	.2741	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	.0120	-.0264	51.94	.0319	.1879	-.3685
SDev	.0010	.0163	.0094	.22	.0068	.0098	.0274
%RSD	12.10	135.1	35.41	.4256	21.33	5.205	7.438
#1	.0095	.0200	-.0160	51.68	.0372	.1986	-.3385
#2	.0084	-.0067	-.0292	52.08	.0242	.1860	-.3747
#3	.0075	.0228	-.0341	52.05	.0344	.1793	-.3923

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0317	.0018	.0224	.0257	.0397	.0001	-.0021
SDev	.0157	.0053	.0112	.0123	.0471	.0001	.0062
%RSD	49.67	295.8	50.08	47.73	118.7	82.43	302.8
#1	-.0148	.0079	.0245	.0373	.0873	.0002	.0023
#2	-.0343	-.0016	.0325	.0270	.0386	.0001	.0007
#3	-.0459	-.0009	.0103	.0129	-.0069	.0000	-.0092

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6770	.0010	.2270	50.10	.0012	.0428	.0032
SDev	.0099	.0007	.0089	.46	.0016	.0072	.0005

%RSD	1.458	71.12	3.926	.9245	128.8	16.89	16.39
#1	.6724	.0017	.2372	49.57	.0029	.0507	.0038
#2	.6884	.0010	.2217	50.31	.0009	.0411	.0031
#3	.6704	.0003	.2219	50.42	-.0002	.0366	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0305	9.974
SDev	.0010	.070
%RSD	3.372	.7036
#1	-.0313	9.893
#2	-.0294	10.01
#3	-.0309	10.02

Analysis Report Tue 09-12-95 11:02:25 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 11:01:05
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0064	.0052	.0019	.0000	-.0000	.0000
SDev	.0006	.0039	.0052	.0005	.0002	.0000	.0061
%RSD	37.40	61.38	98.55	24.33	18960.	83.53	346500.
#1	-.0019	.0049	.0048	.0017	.0000	-.0000	-.0020
#2	-.0009	.0108	.0106	.0025	.0002	-.0000	.0069
#3	-.0021	.0034	.0003	.0016	-.0002	-.0000	-.0048

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0012	-.0079	.0001	-.0003	-.0039	-.0004
SDev	.0009	.0014	.0042	.0007	.0005	.0009	.0006
%RSD	123.9	118.0	53.72	815.3	159.3	23.19	150.5
#1	.0004	-.0027	-.0077	-.0002	.0003	-.0040	-.0005
#2	.0018	.0002	-.0037	.0009	-.0005	-.0030	.0003
#3	.0000	-.0012	-.0121	-.0005	-.0006	-.0048	-.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0015	-.3269	-.0009	.0006	.0008	-.0005
SDev	.0002	.0003	.1200	.0005	.0006	.0029	.0001
%RSD	209.7	20.45	36.70	60.73	91.38	374.9	15.44
#1	-.0002	.0013	-.3044	-.0011	.0000	-.0018	-.0004
#2	.0001	.0014	-.2198	-.0003	.0011	.0039	-.0006
#3	-.0002	.0019	-.4566	-.0013	.0007	.0002	-.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	-.0056	-.0060	.0148	.0002	-.0048	-.0007
SDev	.0008	.0087	.0017	.0026	.0044	.0053	.0070
%RSD	72.38	156.7	27.93	17.80	2654.	110.7	1048.
#1	.0017	-.0084	-.0045	.0176	-.0048	-.0019	-.0014
#2	.0002	.0042	-.0056	.0124	.0037	-.0016	.0067
#3	.0012	-.0125	-.0078	.0144	.0017	-.0110	-.0073

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	.0119	.0001	-.0235	-.0310	.0003	.0032
SDev	.0071	.0019	.0078	.0023	.0257	.0001	.0050
%RSD	237.2	15.64	9120.	9.755	82.85	22.59	158.9
#1	-.0079	.0126	.0076	-.0249	-.0295	.0002	.0085
#2	.0051	.0098	-.0080	-.0248	-.0061	.0003	.0024
#3	-.0061	.0133	.0006	-.0209	-.0575	.0002	-.0015

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0004	.0007	-.0332	-.0009	-.0018	-.0004
SDev	.0012	.0002	.0092	.0666	.0005	.0063	.0003

%RSD	265.9	48.77	1249.	200.9	56.97	341.9	77.21
#1	-.0004	-.0002	-.0056	-.0451	-.0010	.0038	-.0001
#2	-.0016	-.0004	-.0035	.0386	-.0004	-.0086	-.0004
#3	.0007	-.0005	.0113	-.0930	-.0014	-.0007	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	.0003
SDev	.0003	.0007
%RSD	146.8	273.0
#1	.0001	.0003
#2	-.0002	.0009
#3	-.0005	-.0005

Analysis Report Tue 09-12-95 11:05:00 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @50 Operator: DRS
Run Time: 09/12/95 11:03:41
Comment: SEG 2 DRAINABLE LIQUIDS @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	57.82	.0432	.0692	-.0002	.0004	.0015
SDev	.0003	.14	.0013	.0026	.0001	.0000	.0064
%RSD	12.34	.2465	3.035	3.817	45.13	6.523	422.3
#1	-.0023	57.99	.0431	.0713	-.0001	.0004	.0090
#2	-.0021	57.75	.0420	.0700	-.0002	.0004	-.0020
#3	-.0018	57.73	.0446	.0662	-.0001	.0004	-.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0280	-.0010	-.0107	.0127	.4563	.0010	-.0014
SDev	.0009	.0017	.0046	.0007	.0057	.0011	.0005
%RSD	3.302	161.6	43.32	5.346	1.248	104.3	36.87
#1	-.0279	.0003	-.0151	.0128	.4554	-.0002	-.0020
#2	-.0290	-.0005	-.0112	.0119	.4511	.0014	-.0012
#3	-.0272	-.0029	-.0058	.0133	.4624	.0018	-.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.1971	4.346	-.0020	.0013	-.0058	.0000
SDev	.0002	.0009	.077	.0011	.0009	.0052	.0001
%RSD	51.89	.4595	1.783	54.44	68.33	88.77	327.1
#1	-.0005	.1970	4.329	-.0032	.0022	-.0052	-.0001
#2	-.0003	.1962	4.431	-.0011	.0004	-.0113	.0000
#3	-.0001	.1980	4.278	-.0017	.0014	-.0010	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0217	322.6	-.0114	.5109	.7303	.1209	-.0071
SDev	.0010	1.9	.0021	.0081	.0154	.0002	.0004
%RSD	4.427	.5744	18.41	1.586	2.101	.1322	5.609
#1	.0211	323.3	-.0137	.5135	.7352	.1209	-.0075
#2	.0212	324.1	-.0098	.5018	.7131	.1210	-.0067
#3	.0228	320.6	-.0105	.5173	.7426	.1207	-.0070

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0052	-.0073	-.0040	.0625	-.0226	.0006	-.0255
SDev	.0045	.0050	.0045	.0037	.0024	.0000	.0072
%RSD	86.07	69.17	113.3	5.910	10.62	.3776	28.12
#1	-.0062	-.0131	-.0050	.0583	-.0218	.0006	-.0303
#2	-.0091	-.0044	-.0079	.0653	-.0253	.0006	-.0289
#3	-.0003	-.0043	.0010	.0639	-.0207	.0006	-.0173

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0107	-.0008	.1151	-.1631	-.0017	.0941	-.0008
SDev	.0014	.0002	.0036	.0250	.0004	.0050	.0003

%RSD	13.43	30.64	3.159	15.31	21.90	5.270	41.29
#1	-.0122	-.0010	.1139	-.1915	-.0018	.0977	-.0012
#2	-.0093	-.0008	.1122	-.1537	-.0021	.0962	-.0006
#3	-.0106	-.0005	.1192	-.1443	-.0014	.0885	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0101	-.0002
SDev	.0011	.0002
%RSD	10.61	93.22
#1	.0106	-.0003
#2	.0089	.0000
#3	.0109	-.0003

Analysis Report Tue 09-12-95 11:09:13 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @10 Operator: DRS
Run Time: 09/12/95 11:07:54
Comment: SEG 2 DRAINABLE LIQUIDS @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	283.6	.2428	.3431	.0010	.0024	.0415
SDev	.0005	1.9	.0391	.0015	.0001	.0000	.0076
%RSD	22.38	.6726	16.12	.4450	12.38	.9372	18.32
#1	.0020	284.9	.2023	.3446	.0010	.0024	.0339
#2	.0026	281.4	.2456	.3431	.0011	.0024	.0492
#3	.0017	284.6	.2804	.3415	.0008	.0024	.0415

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0007	.0072	.0703	2.238	.0282	.0010
SDev	.0020	.0012	.0030	.0011	.004	.0009	.0007
%RSD	56.42	161.1	41.65	1.569	.1777	3.273	71.72
#1	.0023	.0020	.0038	.0691	2.242	.0282	.0003
#2	.0057	.0007	.0096	.0713	2.234	.0291	.0017
#3	.0024	-.0004	.0081	.0706	2.239	.0272	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.9478	21.25	.0044	.0086	.0065	.0022
SDev	.0002	.0030	.32	.0007	.0016	.0064	.0003
%RSD	26.26	.3125	1.507	15.11	18.18	98.29	12.90
#1	.0006	.9477	21.61	.0045	.0104	.0026	.0020
#2	.0010	.9449	21.02	.0051	.0079	.0139	.0025
#3	.0009	.9508	21.10	.0037	.0075	.0030	.0022

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1126	1424.	.0057	2.477	3.738	.7248	.0387
SDev	.0015	16.	.0029	.007	.020	.0098	.0170
%RSD	1.317	1.122	51.52	.2637	.5430	1.354	43.95
#1	.1109	1438.	.0041	2.470	3.719	.7140	.0276
#2	.1135	1407.	.0091	2.478	3.736	.7332	.0584
#3	.1133	1426.	.0039	2.483	3.759	.7273	.0302

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0288	-.0411	-.0176	.4542	.1584	.0023	-.0453
SDev	.0085	.0028	.0140	.0004	.0324	.0001	.0085
%RSD	29.57	6.843	79.67	.0976	20.47	2.890	18.74
#1	.0200	-.0386	-.0333	.4537	.1428	.0023	-.0543
#2	.0370	-.0405	-.0130	.4544	.1957	.0023	-.0374
#3	.0292	-.0441	-.0064	.4546	.1367	.0022	-.0443

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0005	.6050	.1054	.0006	.5039	.0003
SDev	.0047	.0001	.0117	.0923	.0006	.0024	.0003

%RSD	1674.	30.76	1.934	87.53	105.1	.4872	89.19
#1	.0028	.0003	.5967	.0283	-.0000	.5066	.0002
#2	-.0057	.0005	.5998	.2077	.0012	.5031	.0007
#3	.0020	.0005	.6183	.0803	.0005	.5019	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0548	.0015
SDev	.0017	.0006
%RSD	3.070	40.73
#1	.0544	.0010
#2	.0567	.0022
#3	.0534	.0014

Analysis Report Tue 09-12-95 11:15:40 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @5 Operator: DRS
Run Time: 09/12/95 11:14:21
Comment: SEG 2 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	549.7	.4831	.6464	.0017	.0047	.0759
SDev	.0007	3.1	.0517	.0032	.0002	.0000	.0107
%RSD	11.25	.5628	10.70	.4951	10.40	.6737	14.14
#1	.0066	546.3	.4885	.6479	.0018	.0047	.0684
#2	.0056	552.4	.4290	.6486	.0015	.0047	.0882
#3	.0070	550.4	.5320	.6428	.0019	.0048	.0711

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0360	.0014	.0184	.1326	4.290	.0573	.0030
SDev	.0006	.0009	.0023	.0015	.014	.0007	.0007
%RSD	1.819	68.16	12.33	1.134	.3280	1.272	23.09
#1	.0367	.0024	.0209	.1315	4.274	.0573	.0037
#2	.0359	.0013	.0164	.1320	4.301	.0581	.0024
#3	.0354	.0005	.0180	.1343	4.295	.0566	.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	1.811	40.74	.0099	.0168	.0165	.0053
SDev	.0003	.010	.20	.0009	.0011	.0068	.0003
%RSD	15.17	.5534	.5021	9.618	6.381	41.10	5.716
#1	.0016	1.800	40.59	.0110	.0168	.0177	.0050
#2	.0014	1.817	40.97	.0094	.0158	.0092	.0053
#3	.0019	1.817	40.67	.0093	.0179	.0226	.0056

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2178	2570.	.0197	4.738	7.290	1.426	.0930
SDev	.0030	16.	.0033	.009	.020	.003	.0089
%RSD	1.362	.6408	16.87	.1935	.2752	.2195	9.616
#1	.2163	2553.	.0230	4.730	7.267	1.429	.0985
#2	.2159	2586.	.0164	4.748	7.305	1.423	.0827
#3	.2212	2571.	.0197	4.735	7.297	1.428	.0979

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0594	-.0737	-.0117	.9184	.3090	.0041	-.0721
SDev	.0015	.0180	.0171	.0086	.0137	.0001	.0048
%RSD	2.480	24.40	145.9	.9353	4.436	1.530	6.627
#1	.0608	-.0560	-.0267	.9105	.3229	.0041	-.0725
#2	.0578	-.0920	-.0152	.9172	.3087	.0040	-.0672
#3	.0595	-.0731	.0069	.9275	.2955	.0042	-.0767

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0014	1.151	.2685	.0022	.9859	.0011
SDev	.0047	.0003	.010	.0673	.0001	.0109	.0004

%RSD	2161.	24.95	.8282	25.04	6.432	1.102	37.44
#1	.0034	.0017	1.162	.3417	.0023	.9742	.0015
#2	-.0051	.0010	1.145	.2094	.0020	.9956	.0007
#3	.0023	.0015	1.147	.2545	.0023	.9879	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1051	.0035
SDev	.0002	.0001
%RSD	.2106	3.152
#1	.1052	.0035
#2	.1051	.0033
#3	.1048	.0035

Analysis Report Tue 09-12-95 11:20:12 AM page

Method: ICP1 Sample Name: 95-007932-A2 @50 Operator: DRS
Run Time: 09/12/95 11:18:53
Comment: SEG 2 DRAINABLE LIQUIDS DUP @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	55.47	.0579	.0650	.0003	.0004	.0090
SDev	.0003	.20	.0080	.0018	.0001	.0000	.0063
%RSD	157.1	.3580	13.73	2.830	21.60	6.108	70.45
#1	-.0002	55.68	.0550	.0635	.0002	.0004	.0019
#2	.0004	55.29	.0669	.0644	.0004	.0005	.0141
#3	.0004	55.43	.0518	.0671	.0004	.0004	.0109

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0231	-.0001	.0008	.0151	.4438	.0025	.0009
SDev	.0008	.0006	.0033	.0007	.0004	.0008	.0003
%RSD	3.445	615.9	413.4	4.692	.0879	30.03	28.97
#1	-.0231	-.0000	.0002	.0148	.4442	.0022	.0006
#2	-.0239	-.0007	.0043	.0146	.4439	.0020	.0011
#3	-.0223	.0005	-.0021	.0159	.4434	.0034	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.1922	4.340	.0019	.0025	.0029	.0001
SDev	.0001	.0014	.035	.0012	.0006	.0034	.0001
%RSD	22.34	.7368	.8110	64.46	24.69	116.0	70.96
#1	.0003	.1938	4.329	.0020	.0022	.0038	.0000
#2	.0004	.1911	4.380	.0031	.0032	.0058	.0002
#3	.0004	.1917	4.312	.0007	.0022	-.0008	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0229	300.9	.0013	.5025	.7253	.1382	.0310
SDev	.0017	2.1	.0022	.0018	.0142	.0040	.0163
%RSD	7.615	.7042	165.5	.3545	1.954	2.856	52.54
#1	.0209	303.1	-.0012	.5014	.7192	.1399	.0122
#2	.0242	298.9	.0021	.5017	.7153	.1337	.0408
#3	.0236	300.6	.0031	.5046	.7415	.1411	.0400

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0090	.0008	-.0050	.0701	.0134	.0008	-.0090
SDev	.0026	.0042	.0096	.0027	.0176	.0001	.0032
%RSD	29.34	524.0	189.8	3.905	131.8	8.448	35.04
#1	.0072	.0057	-.0045	.0695	-.0041	.0007	-.0079
#2	.0120	-.0015	.0043	.0731	.0312	.0008	-.0066
#3	.0077	-.0017	-.0149	.0677	.0130	.0008	-.0126

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0057	-.0000	.1236	.0610	-.0001	.1021	-.0001
SDev	.0050	.0005	.0076	.0266	.0003	.0069	.0000

%RSD	88.76	9473.	6.119	43.66	655.9	6.720	12.71
#1	-.0005	-.0005	.1149	.0335	-.0002	.1017	-.0001
#2	-.0060	.0001	.1283	.0866	.0003	.0955	-.0002
#3	-.0106	.0005	.1277	.0629	-.0002	.1092	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0104	.0003
SDev	.0006	.0006
%RSD	6.009	205.5
#1	.0111	-.0004
#2	.0099	.0007
#3	.0102	.0007

Analysis Report Tue 09-12-95 11:23:31 AM page

Method: ICP1 Sample Name: 95-007932-A2 @10 Operator: DRS
Run Time: 09/12/95 11:22:12
Comment: SEG 2 DRAINABLE LIQUIDS DUP @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	279.4	.2598	.3233	.0012	.0024	.0439
SDev	.0004	.9	.0125	.0035	.0000	.0000	.0028
%RSD	11.62	.3337	4.827	1.096	.1262	.2924	6.453
#1	.0032	280.5	.2468	.3274	.0012	.0024	.0467
#2	.0037	278.6	.2608	.3214	.0012	.0024	.0440
#3	.0040	279.2	.2718	.3211	.0012	.0024	.0411

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	-.0007	.0142	.0711	2.218	.0281	.0024
SDev	.0005	.0003	.0030	.0005	.009	.0019	.0003
%RSD	12.06	45.44	21.28	.6767	.3995	6.621	10.67
#1	.0034	-.0010	.0114	.0706	2.227	.0261	.0023
#2	.0040	-.0008	.0174	.0716	2.209	.0298	.0027
#3	.0043	-.0004	.0137	.0711	2.218	.0285	.0023

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.9398	20.91	.0069	.0098	.0112	.0024
SDev	.0001	.0015	.13	.0017	.0004	.0060	.0001
%RSD	8.014	.1637	.6176	24.29	4.233	53.82	5.889
#1	.0012	.9407	21.05	.0051	.0100	.0107	.0023
#2	.0014	.9380	20.80	.0084	.0100	.0054	.0026
#3	.0012	.9406	20.88	.0071	.0093	.0174	.0024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1132	1398.	.0120	2.451	3.695	.7296	.0630
SDev	.0015	7.	.0061	.008	.055	.0096	.0127
%RSD	1.327	.5058	51.13	.3340	1.478	1.310	20.16
#1	.1115	1406.	.0063	2.458	3.755	.7189	.0490
#2	.1143	1393.	.0112	2.442	3.681	.7325	.0664
#3	.1137	1396.	.0185	2.452	3.649	.7373	.0737

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0402	-.0224	-.0122	.4451	.1532	.0023	-.0339
SDev	.0047	.0145	.0086	.0005	.0080	.0001	.0034
%RSD	11.58	64.76	70.63	.1206	5.200	2.810	9.961
#1	.0349	-.0351	-.0169	.4446	.1443	.0023	-.0376
#2	.0420	-.0253	-.0023	.4457	.1556	.0024	-.0333
#3	.0437	-.0066	-.0176	.4452	.1596	.0023	-.0309

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0035	.0010	.6022	.2309	.0019	.5000	.0009
SDev	.0034	.0003	.0197	.0497	.0007	.0108	.0001

%RSD	97.40	25.97	3.266	21.52	38.34	2.152	16.65
#1	.0004	.0007	.5941	.1738	.0014	.4880	.0007
#2	-.0050	.0012	.6246	.2553	.0027	.5029	.0010
#3	-.0058	.0012	.5878	.2638	.0015	.5089	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0543	.0021
SDev	.0010	.0004
%RSD	1.823	20.05
#1	.0553	.0016
#2	.0544	.0023
#3	.0533	.0023

Analysis Report Tue 09-12-95 11:27:38 AM page

Method: ICP1 Sample Name: 95-007932-A 2 dils @5 Operator: DRS
Run Time: 09/12/95 11:26:19
Comment: SEG 2 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	542.4	.5074	.6228	.0020	.0047	.0776
SDev	.0006	2.3	.0244	.0032	.0001	.0000	.0043
%RSD	8.560	.4216	4.811	.5051	5.827	.7608	5.510
#1	.0061	545.0	.4798	.6241	.0020	.0047	.0729
#2	.0066	541.5	.5263	.6251	.0019	.0047	.0812
#3	.0072	540.7	.5159	.6192	.0021	.0047	.0788

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0430	.0021	.0246	.1329	4.243	.0580	.0035
SDev	.0014	.0006	.0060	.0006	.011	.0010	.0001
%RSD	3.237	28.45	24.37	.4308	.2693	1.816	3.880
#1	.0427	.0026	.0181	.1329	4.256	.0574	.0034
#2	.0418	.0014	.0258	.1323	4.238	.0574	.0037
#3	.0445	.0024	.0300	.1334	4.235	.0592	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	1.797	39.51	.0109	.0174	.0212	.0053
SDev	.0002	.004	.06	.0017	.0002	.0016	.0003
%RSD	8.775	.2295	.1503	15.22	1.182	7.369	6.250
#1	.0018	1.802	39.57	.0105	.0172	.0223	.0049
#2	.0018	1.794	39.45	.0095	.0176	.0194	.0056
#3	.0021	1.796	39.52	.0127	.0176	.0218	.0054

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2179	2529.	.0223	4.686	7.221	1.436	.1004
SDev	.0003	10.	.0021	.018	.028	.009	.0008
%RSD	.1417	.3905	9.525	.3931	.3929	.6432	.8342
#1	.2177	2541.	.0218	4.703	7.190	1.427	.0995
#2	.2177	2525.	.0205	4.667	7.246	1.437	.1006
#3	.2182	2522.	.0247	4.688	7.226	1.445	.1011

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0649	-.0537	-.0143	.8924	.3185	.0041	-.0629
SDev	.0022	.0045	.0013	.0072	.0291	.0000	.0032
%RSD	3.397	8.351	8.988	.8047	9.134	.1341	5.078
#1	.0653	-.0569	-.0157	.8841	.2856	.0041	-.0659
#2	.0669	-.0557	-.0139	.8966	.3290	.0041	-.0596
#3	.0626	-.0486	-.0133	.8964	.3409	.0041	-.0631

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0018	1.140	.3436	.0028	.9661	.0013
SDev	.0047	.0002	.011	.0634	.0005	.0061	.0003

%RSD	282.8	12.38	.9997	18.46	16.99	.6313	25.35
#1	-.0043	.0017	1.138	.3023	.0027	.9697	.0009
#2	-.0044	.0016	1.130	.3118	.0024	.9590	.0015
#3	.0037	.0020	1.152	.4166	.0033	.9695	.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1069	.0036
SDev	.0019	.0005
%RSD	1.778	13.20
#1	.1080	.0034
#2	.1047	.0042
#3	.1080	.0033

Analysis Report Tue 09-12-95 11:32:09 AM page

Method: ICP1 Sample Name: 95-007935-A1 @50 Operator: DRS
Run Time: 09/12/95 11:30:50
Comment: SEG 3 DRAINABLE LIQUIDS @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	60.48	.0629	.0744	.0005	.0005	.0118
SDev	.0008	.34	.0104	.0005	.0002	.0001	.0028
%RSD	66.42	.5629	16.53	.6161	49.69	12.67	23.53
#1	-.0019	60.63	.0612	.0749	.0005	.0004	.0125
#2	-.0003	60.09	.0741	.0742	.0007	.0005	.0141
#3	-.0016	60.72	.0535	.0740	.0002	.0005	.0087

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0185	-.0013	.0053	.0148	.4857	.0125	.0011
SDev	.0009	.0005	.0039	.0005	.0042	.0022	.0005
%RSD	5.096	41.24	74.09	3.380	.8572	17.81	42.10
#1	-.0185	-.0013	.0028	.0149	.4843	.0102	.0008
#2	-.0176	-.0008	.0099	.0142	.4825	.0146	.0017
#3	-.0195	-.0019	.0033	.0152	.4904	.0126	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.1619	4.459	.0027	.0029	.0092	.0003
SDev	.0002	.0007	.179	.0016	.0009	.0062	.0005
%RSD	48.15	.4552	4.020	57.92	33.05	67.30	137.7
#1	.0002	.1611	4.431	.0016	.0036	.0077	.0003
#2	.0007	.1620	4.650	.0045	.0032	.0161	.0008
#3	.0005	.1626	4.295	.0021	.0018	.0039	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0254	296.5	.0053	.3959	.7246	.1585	.0297
SDev	.0013	2.2	.0050	.0033	.0223	.0074	.0189
%RSD	5.002	.7552	94.58	.8280	3.080	4.642	63.72
#1	.0247	298.1	.0027	.3997	.7203	.1537	.0264
#2	.0269	293.9	.0110	.3941	.7048	.1670	.0500
#3	.0247	297.5	.0021	.3939	.7488	.1548	.0126

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	.0109	.0065	.1533	.0482	.0031	-.0088
SDev	.0071	.0078	.0096	.0024	.0139	.0001	.0045
%RSD	42.39	71.70	147.0	1.537	28.73	2.206	51.44
#1	.0118	.0092	-.0032	.1511	.0324	.0030	-.0087
#2	.0249	.0194	.0161	.1530	.0584	.0031	-.0043
#3	.0137	.0040	.0067	.1557	.0539	.0031	-.0134

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0003	.1294	.0758	.0001	1.248	.0002
SDev	.0039	.0004	.0075	.1013	.0006	.015	.0006

%RSD	12600.	140.5	5.769	133.7	509.6	1.234	375.7
#1	-.0042	-.0000	.1211	.0781	-.0000	1.259	-.0004
#2	.0006	.0007	.1356	.1760	.0007	1.230	.0007
#3	.0036	.0002	.1315	-.0266	-.0004	1.253	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0186	.0001
SDev	.0006	.0007
%RSD	3.427	701.8
#1	.0186	.0003
#2	.0180	.0007
#3	.0193	-.0007

Analysis Report Tue 09-12-95 11:36:15 AM page

Method: ICP1 Sample Name: 95-007935-A1 @10 Operator: DRS
Run Time: 09/12/95 11:34:55
Comment: SEG 3 DRAINABLE LIQUIDS @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0051	299.5	.2712	.3552	.0014	.0026	.0430
SDev	.0001	1.8	.0174	.0038	.0002	.0000	.0097
%RSD	1.737	.6124	6.414	1.064	16.76	.3417	22.65
#1	-.0051	298.5	.2913	.3509	.0017	.0026	.0390
#2	-.0052	301.6	.2618	.3563	.0012	.0026	.0358
#3	-.0051	298.4	.2606	.3582	.0014	.0026	.0541

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0255	-.0021	.0215	.0705	2.351	.0772	.0036
SDev	.0016	.0009	.0038	.0005	.008	.0006	.0006
%RSD	6.284	44.29	17.68	.6470	.3591	.7652	15.22
#1	.0260	-.0030	.0255	.0710	2.348	.0768	.0040
#2	.0237	-.0022	.0180	.0701	2.361	.0769	.0030
#3	.0267	-.0011	.0209	.0705	2.345	.0778	.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.7766	22.24	.0088	.0079	.0333	.0029
SDev	.0003	.0037	.09	.0016	.0009	.0073	.0002
%RSD	18.01	.4708	.4024	18.54	12.03	22.05	6.485
#1	.0016	.7739	22.14	.0091	.0075	.0328	.0031
#2	.0012	.7808	22.31	.0070	.0072	.0262	.0028
#3	.0016	.7751	22.27	.0103	.0090	.0409	.0028

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1215	1387.	.0189	1.907	3.614	.7963	.0856
SDev	.0019	10.	.0046	.007	.038	.0064	.0130
%RSD	1.584	.7099	24.29	.3597	1.052	.8056	15.20
#1	.1220	1380.	.0218	1.903	3.631	.8034	.0898
#2	.1231	1398.	.0136	1.914	3.641	.7947	.0710
#3	.1193	1382.	.0211	1.902	3.571	.7909	.0960

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0478	-.0267	-.0098	.8600	.1576	.0138	-.0332
SDev	.0061	.0215	.0177	.0063	.0393	.0001	.0069
%RSD	12.83	80.51	180.4	.7367	24.92	.5217	20.68
#1	.0508	-.0057	-.0022	.8597	.1664	.0137	-.0333
#2	.0407	-.0487	.0028	.8665	.1147	.0138	-.0399
#3	.0518	-.0257	-.0300	.8539	.1918	.0137	-.0262

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0015	.6189	.3488	.0020	6.208	.0011
SDev	.0020	.0005	.0081	.0634	.0007	.015	.0001

%RSD	148.3	31.73	1.317	18.18	35.14	.2362	13.14
#1	-.0004	.0016	.6096	.3382	.0021	6.195	.0012
#2	.0035	.0010	.6248	.2914	.0013	6.224	.0009
#3	.0008	.0019	.6222	.4169	.0027	6.205	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0924	.0024
SDev	.0006	.0006
%RSD	.6648	26.47
#1	.0929	.0027
#2	.0925	.0017
#3	.0917	.0029

Analysis Report Tue 09-12-95 11:39:52 AM page 1

Method: ICP1 Sample Name: 95-007935-A1 @5 Operator: DRS
Run Time: 09/12/95 11:38:32
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0146	603.9	.4878	.7089	.0021	.0051	.0773
SDev	.0017	7.6	.0405	.0077	.0002	.0000	.0049
%RSD	11.64	1.253	8.308	1.082	9.599	.7744	6.325
#1	-.0159	610.6	.4727	.7162	.0020	.0052	.0768
#2	-.0153	605.5	.4571	.7095	.0020	.0051	.0726
#3	-.0127	595.7	.5338	.7009	.0024	.0051	.0824

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0852	-.0001	.0162	.1339	4.633	.1572	.0024
SDev	.0016	.0008	.0074	.0014	.035	.0020	.0009
%RSD	1.907	1482.	45.57	1.062	.7578	1.266	35.18
#1	.0838	.0002	.0113	.1341	4.668	.1573	.0016
#2	.0848	-.0010	.0127	.1324	4.634	.1591	.0024
#3	.0869	.0006	.0248	.1353	4.598	.1551	.0033

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	1.520	43.40	.0094	.0119	.0281	.0056
SDev	.0004	.013	.20	.0014	.0009	.0051	.0002
%RSD	22.55	.8222	.4499	14.40	7.573	18.04	2.835
#1	.0014	1.532	43.51	.0084	.0118	.0300	.0055
#2	.0017	1.522	43.51	.0088	.0129	.0223	.0056
#3	.0022	1.507	43.17	.0109	.0111	.0319	.0058

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2320	2603.	.0151	3.764	7.298	1.530	.0807
SDev	.0022	30.	.0057	.033	.072	.009	.0197
%RSD	.9412	1.166	37.86	.8787	.9934	.5847	24.38
#1	.2342	2629.	.0110	3.792	7.307	1.522	.0614
#2	.2298	2611.	.0127	3.772	7.366	1.527	.0801
#3	.2318	2570.	.0217	3.727	7.222	1.540	.1007

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0557	-.0898	-.0570	1.756	.2101	.0265	-.0838
SDev	.0116	.0114	.0144	.003	.0415	.0003	.0100
%RSD	20.75	12.68	25.22	.1887	19.76	1.120	11.93
#1	.0460	-.0958	-.0518	1.760	.1804	.0268	-.0859
#2	.0527	-.0968	-.0732	1.756	.1922	.0265	-.0926
#3	.0685	-.0766	-.0459	1.753	.2575	.0262	-.0729

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	.0013	1.204	.3060	.0017	12.31	.0009
SDev	.0041	.0005	.017	.0785	.0009	.15	.0005

%RSD	142.2	36.31	1.415	25.64	51.02	1.205	53.35
#1	.0033	.0008	1.221	.2160	.0008	12.43	.0007
#2	-.0014	.0014	1.204	.3417	.0019	12.36	.0006
#3	.0067	.0018	1.187	.3602	.0025	12.14	.0015

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1863	.0026
SDev	.0024	.0006
%RSD	1.293	22.03
#1	.1882	.0021
#2	.1871	.0025
#3	.1836	.0033

Analysis Report Tue 09-12-95 11:44:20 AM page

Method: ICP1 Sample Name: STD9 FDR W @50 PPM Operator: DRS
Run Time: 09/12/95 11:43:00
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0576	1.231	.1083	4.591	.0063	.0001	.0033
SDev	.0008	.005	.0018	.013	.0001	.0001	.0037
%RSD	1.367	.3848	1.696	.2862	1.105	36.31	112.0
#1	-.0584	1.235	.1065	4.602	.0062	.0001	-.0010
#2	-.0574	1.233	.1101	4.593	.0063	.0001	.0057
#3	-.0569	1.226	.1082	4.576	.0062	.0002	.0053

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0313	-.0008	-.0105	.0058	.0009	-.0001	.0008
SDev	.0006	.0008	.0044	.0001	.0019	.0012	.0003
%RSD	2.049	94.25	42.16	1.357	205.5	1643.	33.30
#1	.0309	-.0015	-.0128	.0057	-.0005	-.0015	.0006
#2	.0311	-.0010	-.0133	.0057	.0002	.0007	.0011
#3	.0321	.0000	-.0054	.0058	.0031	.0006	.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0337	-.3044	-.0004	.0011	-.0928	-.0003
SDev	.0001	.0006	.0737	.0011	.0013	.0075	.0001
%RSD	34.86	1.667	24.22	251.1	119.3	8.027	18.72
#1	.0002	.0332	-.3889	-.0015	.0014	-.1009	-.0003
#2	.0003	.0343	-.2537	-.0005	.0022	-.0914	-.0003
#3	.0003	.0336	-.2706	.0007	-.0004	-.0862	-.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	3.462	-.0037	.0125	-.1840	-.0083	50.07
SDev	.0007	.043	.0025	.0009	.0019	.0057	.14
%RSD	23.47	1.233	66.08	7.387	1.028	68.30	.2822
#1	.0021	3.435	-.0065	.0131	-.1818	-.0062	50.20
#2	.0033	3.511	-.0020	.0131	-.1851	-.0147	50.08
#3	.0034	3.440	-.0026	.0115	-.1850	-.0040	49.92

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.40	-.0314	-.0089	48.53	49.85	.0014	.0242
SDev	.16	.0025	.0060	.10	.12	.0001	.0050
%RSD	.3153	8.114	66.99	.2097	.2415	4.918	20.84
#1	50.56	-.0314	-.0124	48.58	49.95	.0013	.0195
#2	50.39	-.0289	-.0123	48.59	49.88	.0014	.0295
#3	50.24	-.0339	-.0020	48.41	49.71	.0014	.0237

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0288	.0074	-.1623	-.0539	-.0072	49.48	.0005
SDev	.0045	.0003	.0172	.0213	.0002	.18	.0003

%RSD	15.59	3.742	10.61	39.58	2.969	.3565	55.21
#1	.0261	.0071	-.1814	-.0566	-.0074	49.63	.0002
#2	.0340	.0076	-.1480	-.0738	-.0071	49.53	.0005
#3	.0264	.0075	-.1575	-.0314	-.0069	49.29	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0020	.0384
SDev	.0008	.0005
%RSD	38.42	1.232
#1	.0013	.0389
#2	.0018	.0379
#3	.0028	.0385

Analysis Report QC Standard Tue 09-12-95 11:48:29 AM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 11:47:10
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DRS 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4855	24.85	2.594	1.996	.5055	.0939	24.60
SDev	.0014	.10	.013	.008	.0019	.0002	.12
%RSD	.2779	.3930	.4955	.4052	.3828	.2193	.4831
#1	.4866	24.96	2.606	2.005	.5076	.0941	24.74
#2	.4840	24.78	2.580	1.989	.5038	.0937	24.52
#3	.4858	24.82	2.595	1.996	.5052	.0939	24.55
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.96	.4939	-.0349	1.024	1.016	.9870	-.0002
SDev	.06	.0032	.0011	.003	.007	.0026	.0003
%RSD	.2289	.6438	3.237	.2613	.6562	.2670	134.9
#1	24.99	.4921	-.0361	1.025	1.021	.9900	-.0005
#2	24.89	.4976	-.0348	1.021	1.019	.9859	-.0001
#3	24.99	.4921	-.0338	1.025	1.009	.9850	-.0000
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.34	25.95	.0042	1.954	26.36	.5110
SDev	.0002	.05	.26	.0003	.029	.07	.0007
%RSD	9.618	.2672	.9975	8.446	1.467	.2579	.1321
#1	.0018	20.39	26.25	.0045	1.986	26.44	.5115
#2	.0018	20.28	25.86	.0039	1.948	26.33	.5102
#3	.0021	20.34	25.76	.0041	1.929	26.33	.5113
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.028	25.29	.0044	1.060	.0618	2.586	-.0117
SDev	.003	.31	.0022	.004	.0106	.022	.0012
%RSD	.2464	1.209	51.02	.3843	17.07	.8518	10.08
#1	1.029	25.63	.0018	1.061	.0605	2.572	-.0125
#2	1.025	25.17	.0056	1.056	.0519	2.575	-.0104
#3	1.029	25.06	.0058	1.064	.0729	2.612	-.0123
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	2.535	2.483	19.78	-.0947	.5122	-.0070
SDev	.0020	.017	.004	.09	.0259	.0017	.0065
%RSD	729.2	.6884	.1473	.4456	27.38	.3242	92.30
#1	-.0006	2.524	2.481	19.88	-.1238	.5141	-.0142
#2	-.0021	2.525	2.487	19.74	-.0861	.5111	-.0050
#3	.0018	2.555	2.481	19.72	-.0741	.5114	-.0018
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0399	.9937	2.553	.0323	.9854	.0257	-.0005
SDev	.0016	.0024	.004	.0456	.0021	.0079	.0002
%RSD	4.051	.2416	.1503	141.2	.2133	30.79	33.50
#1	.0391	.9964	2.549	-.0196	.9876	.0227	-.0005
#2	.0417	.9919	2.554	.0507	.9834	.0198	-.0006
#3	.0388	.9929	2.556	.0659	.9851	.0347	-.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.019	2.038
SDev	.009	.003
%RSD	.8863	.1691
#1	1.026	2.041
#2	1.009	2.034
#3	1.022	2.038
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 11:53:02 AM page

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 11:51:42
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0111	99.60	.1148	.0032	.0001	.0006	.0582
SDev	.0002	.26	.0017	.0020	.0001	.0000	.0042
%RSD	2.028	.2584	1.485	60.51	63.46	4.446	7.119
#1	-.0112	99.38	.1161	.0055	.0002	.0007	.0535
#2	-.0108	99.88	.1129	.0019	.0001	.0006	.0603
#3	-.0113	99.53	.1155	.0023	.0001	.0006	.0610

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0752	.0071	-.1639	.0030	.0370	-.0166	-.0056
SDev	.0003	.0026	.0062	.0006	.0012	.0021	.0002
%RSD	.3664	36.02	3.783	20.05	3.344	12.58	3.736
#1	.0754	.0056	-.1603	.0025	.0384	-.0149	-.0055
#2	.0753	.0101	-.1711	.0028	.0362	-.0159	-.0058
#3	.0749	.0056	-.1604	.0037	.0364	-.0189	-.0054

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	20.18	-.4848	-.0003	.0029	.2757	.0010
SDev	.0002	.04	.0426	.0014	.0012	.0079	.0001
%RSD	81.27	.1864	8.779	482.0	43.52	2.881	5.296
#1	-.0004	20.15	-.4397	.0006	.0036	.2675	.0009
#2	-.0003	20.22	-.5242	-.0018	.0036	.2833	.0010
#3	-.0000	20.18	-.4904	.0004	.0014	.2762	.0010

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	-.0137	-.0376	52.57	.0178	.1767	-.4273
SDev	.0008	.0090	.0015	.06	.0188	.0072	.0074
%RSD	10.54	65.69	4.028	.1074	105.4	4.090	1.733
#1	.0090	-.0036	-.0359	52.51	.0048	.1784	-.4259
#2	.0080	-.0210	-.0379	52.62	.0393	.1828	-.4353
#3	.0073	-.0164	-.0389	52.57	.0093	.1687	-.4207

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0498	-.0047	.0243	.1465	-.0399	-.0000	-.0153
SDev	.0013	.0055	.0035	.0067	.0227	.0000	.0046
%RSD	2.656	117.9	14.51	4.547	56.75	27.38	30.18
#1	-.0492	-.0018	.0210	.1519	-.0185	-.0000	-.0204
#2	-.0488	-.0110	.0237	.1484	-.0376	-.0000	-.0140
#3	-.0513	-.0012	.0280	.1390	-.0637	-.0000	-.0114

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7025	.0004	.2316	50.98	-.0005	.0466	.0023
SDev	.0079	.0001	.0022	.12	.0004	.0110	.0001

%RSD	1.123	26.58	.9433	.2329	76.72	23.66	5.179
#1	.7001	.0003	.2341	50.89	-.0004	.0437	.0022
#2	.7114	.0005	.2307	51.12	-.0002	.0373	.0024
#3	.6962	.0004	.2299	50.95	-.0010	.0588	.0022

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0274	10.14
SDev	.0011	.02
%RSD	3.928	.2353
#1	-.0267	10.13
#2	-.0269	10.17
#3	-.0286	10.14

Analysis Report Tue 09-12-95 11:56:54 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 11:55:35
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0071	.0077	.0052	.0000	-.0000	.0003
SDev	.0010	.0033	.0004	.0014	.0001	.0000	.0013
%RSD	61.62	47.02	4.678	27.75	4439.	30.77	415.3
#1	-.0022	.0076	.0076	.0064	.0000	-.0000	.0007
#2	-.0022	.0035	.0073	.0036	-.0001	-.0000	.0014
#3	-.0005	.0101	.0080	.0055	.0001	-.0001	-.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	-.0005	-.0104	.0006	-.0001	-.0018	-.0006
SDev	.0022	.0012	.0057	.0013	.0006	.0007	.0009
%RSD	136.2	252.3	54.45	230.2	428.7	36.49	145.8
#1	.0014	-.0017	-.0120	-.0007	-.0000	-.0025	-.0008
#2	-.0005	-.0002	-.0151	.0005	-.0008	-.0016	-.0015
#3	.0039	.0005	-.0041	.0019	.0004	-.0012	.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0004	-.5355	-.0015	.0005	-.0023	-.0006
SDev	.0002	.0007	.1727	.0016	.0004	.0070	.0002
%RSD	139.6	184.6	32.26	107.9	86.66	306.4	43.27
#1	-.0003	.0012	-.6088	-.0024	.0007	-.0031	-.0006
#2	-.0003	-.0002	-.6595	-.0024	.0007	-.0088	-.0008
#3	.0001	.0001	-.3382	.0004	-.0000	.0051	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	-.0027	-.0088	.0082	.0003	-.0097	-.0028
SDev	.0008	.0105	.0061	.0011	.0123	.0030	.0179
%RSD	58.45	393.5	69.47	13.62	4180.	30.89	641.3
#1	.0017	-.0124	-.0126	.0080	.0142	-.0106	-.0081
#2	.0004	-.0040	-.0120	.0073	-.0091	-.0122	-.0175
#3	.0018	.0084	-.0017	.0095	-.0042	-.0064	.0172

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0056	.0066	-.0031	.0350	-.0448	.0002	-.0035
SDev	.0091	.0058	.0118	.0026	.0291	.0001	.0018
%RSD	161.9	88.73	385.1	7.446	65.05	45.23	49.99
#1	-.0110	.0025	-.0061	.0377	-.0275	.0001	-.0031
#2	-.0108	.0040	-.0131	.0325	-.0784	.0002	-.0054
#3	.0049	.0133	.0100	.0347	-.0284	.0003	-.0020

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0003	.0136	-.0744	-.0011	-.0033	-.0007
SDev	.0048	.0002	.0021	.0966	.0006	.0071	.0006

%RSD	210.3	60.91	15.59	130.0	53.95	216.1	85.21
#1	.0029	-.0004	.0112	-.1374	-.0011	.0025	-.0006
#2	-.0031	-.0005	.0152	-.1226	-.0017	-.0112	-.0012
#3	-.0065	-.0001	.0144	.0369	-.0005	-.0011	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	-.0003
SDev	.0001	.0008
%RSD	31.02	307.6
#1	.0003	-.0008
#2	.0002	-.0007
#3	.0004	.0007

Analysis Report Tue 09-12-95 11:58:47 AM page

Method: ICP1 Sample Name: 95-007935-A2 @50 Operator: DRS
Run Time: 09/12/95 11:57:28
Comment: SEG 3 DRAINABLE LIQUIDS DUP @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	61.65	.0434	.0776	.0004	.0004	.0123
SDev	.0006	.44	.0069	.0024	.0002	.0000	.0068
%RSD	19.84	.7092	15.96	3.083	41.23	5.163	55.14
#1	-.0026	61.22	.0441	.0749	.0006	.0005	.0152
#2	-.0039	62.09	.0362	.0789	.0002	.0004	.0045
#3	-.0032	61.63	.0500	.0791	.0005	.0004	.0171

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0241	-.0006	-.0074	.0143	.4801	.0135	-.0004
SDev	.0011	.0004	.0052	.0004	.0023	.0007	.0005
%RSD	4.753	70.32	70.44	2.698	.4862	5.112	145.6
#1	-.0242	-.0010	-.0064	.0144	.4793	.0142	.0002
#2	-.0251	-.0004	-.0131	.0139	.4784	.0128	-.0006
#3	-.0228	-.0003	-.0028	.0147	.4828	.0135	-.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.1750	4.538	.0003	.0017	.0017	.0004
SDev	.0002	.0013	.096	.0003	.0009	.0051	.0002
%RSD	282.7	.7291	2.119	113.9	53.73	301.5	53.25
#1	.0001	.1747	4.566	.0007	.0025	.0061	.0006
#2	-.0002	.1739	4.431	.0000	.0007	-.0039	.0002
#3	.0003	.1764	4.617	.0002	.0018	.0030	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0243	311.9	-.0052	.4102	.7260	.1407	.0053
SDev	.0004	3.8	.0042	.0028	.0064	.0114	.0097
%RSD	1.522	1.222	80.59	.6734	.8796	8.110	183.5
#1	.0240	308.5	-.0017	.4082	.7319	.1413	.0071
#2	.0247	316.0	-.0099	.4092	.7192	.1290	-.0052
#3	.0243	311.2	-.0041	.4134	.7268	.1517	.0139

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	-.0079	.0026	.2189	-.0388	.0081	-.0192
SDev	.0054	.0061	.0139	.0066	.0140	.0001	.0100
%RSD	282.7	77.31	537.8	3.031	36.13	.8955	52.44
#1	.0071	-.0010	.0037	.2126	-.0410	.0080	-.0126
#2	-.0037	-.0124	-.0118	.2183	-.0516	.0081	-.0307
#3	.0024	-.0102	.0159	.2258	-.0238	.0080	-.0141

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	-.0003	.1371	-.0283	-.0008	1.243	-.0003
SDev	.0049	.0004	.0043	.0567	.0008	.009	.0003

%RSD	219.5	142.4	3.121	200.7	90.97	.7575	114.4
#1	.0039	.0001	.1406	.0269	.0000	1.237	-.0001
#2	-.0033	-.0003	.1383	-.0864	-.0014	1.254	-.0006
#3	.0060	-.0007	.1323	-.0253	-.0012	1.238	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0192	-.0003
SDev	.0013	.0005
%RSD	6.772	138.3
#1	.0207	.0002
#2	.0182	-.0005
#3	.0187	-.0007

Analysis Report Tue 09-12-95 12:02:40 PM page

Method: ICP1 Sample Name: 95-007935-A2 @10 Operator: DRS
Run Time: 09/12/95 12:01:21
Comment: SEG 3 DRAINABLE LIQUIDS DUP @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0053	299.4	.2597	.3566	.0025	.0026	.0353
SDev	.0003	1.1	.0178	.0027	.0001	.0001	.0084
%RSD	5.086	.3721	6.847	.7542	2.787	2.047	23.76
#1	-.0056	299.8	.2652	.3563	.0025	.0025	.0418
#2	-.0053	298.2	.2399	.3541	.0025	.0026	.0382
#3	-.0051	300.3	.2742	.3594	.0024	.0026	.0258

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0224	.0003	.0193	.0709	2.328	.0794	.0033
SDev	.0005	.0026	.0031	.0010	.015	.0003	.0003
%RSD	2.181	839.1	16.27	1.355	.6249	.4218	10.50
#1	.0225	-.0026	.0224	.0718	2.335	.0796	.0029
#2	.0218	.0019	.0193	.0699	2.311	.0791	.0034
#3	.0228	.0016	.0161	.0711	2.337	.0797	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.8304	22.49	.0069	.0113	.0248	.0037
SDev	.0000	.0025	.27	.0010	.0010	.0044	.0003
%RSD	1.090	.3034	1.199	11.06	9.122	17.61	8.441
#1	.0014	.8317	22.31	.0097	.0107	.0283	.0034
#2	.0014	.8274	22.80	.0092	.0125	.0263	.0040
#3	.0015	.8319	22.36	.0078	.0107	.0199	.0039

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1189	1392.	.0189	1.946	3.655	.7774	.0830
SDev	.0008	3.	.0032	.011	.017	.0013	.0071
%RSD	.6674	.1989	16.91	.5863	.4690	.1718	8.566
#1	.1197	1391.	.0221	1.950	3.653	.7784	.0896
#2	.1189	1390.	.0189	1.933	3.640	.7759	.0839
#3	.1181	1395.	.0157	1.955	3.674	.7780	.0755

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0450	-.0401	-.0084	.9511	.1330	.0381	-.0349
SDev	.0022	.0044	.0135	.0111	.0222	.0002	.0019
%RSD	4.964	11.03	159.9	1.169	16.72	.4712	5.542
#1	.0424	-.0451	.0070	.9413	.1273	.0381	-.0330
#2	.0461	-.0384	-.0179	.9489	.1576	.0379	-.0348
#3	.0465	-.0368	-.0144	.9632	.1142	.0383	-.0369

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0016	.6182	.4086	.0019	6.176	.0010
SDev	.0038	.0001	.0015	.0278	.0003	.039	.0002

%RSD	128.7	9.042	.2429	6.796	15.42	.6302	18.39
#1	-.0011	.0017	.6196	.3984	.0016	6.160	.0012
#2	.0065	.0014	.6185	.4401	.0022	6.148	.0008
#3	.0035	.0016	.6166	.3875	.0021	6.220	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0924	.0034
SDev	.0011	.0003
%RSD	1.152	8.313
#1	.0935	.0031
#2	.0914	.0036
#3	.0923	.0033

Analysis Report Tue 09-12-95 12:06:36 PM page :

Method: ICP1 Sample Name: 95-007935-A2 @5 Operator: DRS
Run Time: 09/12/95 12:05:17
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0140	600.9	.5046	.7123	.0033	.0051	.0753
SDev	.0016	4.8	.0300	.0055	.0002	.0000	.0130
%RSD	11.27	.7957	5.943	.7675	6.184	.7787	17.28
#1	-.0158	606.0	.4780	.7173	.0032	.0051	.0610
#2	-.0134	600.3	.4987	.7130	.0032	.0051	.0785
#3	-.0128	596.5	.5371	.7065	.0036	.0051	.0864

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0724	.0000	.0217	.1341	4.608	.1574	.0032
SDev	.0010	.0006	.0080	.0015	.024	.0009	.0007
%RSD	1.327	4125.	37.10	1.126	.5119	.5685	23.00
#1	.0716	.0001	.0138	.1324	4.634	.1580	.0027
#2	.0721	.0006	.0214	.1347	4.603	.1578	.0029
#3	.0735	-.0006	.0298	.1352	4.588	.1564	.0040

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	1.628	43.37	.0109	.0178	.0268	.0072
SDev	.0003	.006	.28	.0018	.0014	.0069	.0001
%RSD	14.85	.3728	.6540	16.27	7.636	25.77	1.422
#1	.0016	1.635	43.70	.0092	.0193	.0219	.0071
#2	.0016	1.626	43.19	.0107	.0168	.0347	.0073
#3	.0021	1.624	43.22	.0127	.0172	.0239	.0072

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2321	2594.	.0193	3.835	7.357	1.519	.0908
SDev	.0012	20.	.0060	.011	.019	.016	.0207
%RSD	.5022	.7554	30.98	.2839	.2530	1.070	22.75
#1	.2314	2614.	.0130	3.843	7.345	1.502	.0704
#2	.2335	2591.	.0200	3.840	7.379	1.534	.0902
#3	.2316	2575.	.0249	3.823	7.348	1.520	.1117

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0604	-.0932	-.0427	1.872	.2258	.0742	-.0820
SDev	.0081	.0137	.0175	.017	.0311	.0004	.0149
%RSD	13.35	14.72	40.85	.8875	13.75	.5570	18.18
#1	.0525	-.1080	-.0620	1.854	.2389	.0746	-.0932
#2	.0600	-.0809	-.0382	1.875	.1904	.0742	-.0877
#3	.0687	-.0906	-.0280	1.887	.2482	.0738	-.0650

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	.0023	1.216	.4926	.0017	12.19	.0009
SDev	.0051	.0003	.014	.0648	.0008	.10	.0003

%RSD	86.51	12.79	1.134	13.16	47.09	.8373	34.23
#1	.0113	.0020	1.203	.4305	.0009	12.31	.0006
#2	.0053	.0023	1.216	.4875	.0017	12.15	.0011
#3	.0011	.0026	1.230	.5599	.0025	12.12	.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1884	.0034
SDev	.0041	.0010
%RSD	2.176	29.34
#1	.1923	.0023
#2	.1888	.0036
#3	.1841	.0042

Analysis Report QC Standard Tue 09-12-95 12:10:47 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 12:09:28
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4884	24.92	2.615	2.005	.5083	.0946	24.66
SDev	.0022	.21	.012	.014	.0054	.0007	.18
%RSD	.4449	.8351	.4736	.7169	1.056	.7640	.7394
#1	.4903	25.12	2.628	2.016	.5132	.0953	24.84
#2	.4888	24.94	2.604	2.010	.5090	.0948	24.67
#3	.4860	24.70	2.613	1.989	.5026	.0939	24.47
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.19	.4945	-.0325	1.035	1.031	.9896	.0004
SDev	.15	.0063	.0047	.006	.009	.0085	.0007
%RSD	.5771	1.275	14.61	.6022	.8608	.8607	194.1
#1	25.32	.5012	-.0374	1.040	1.037	.9972	-.0002
#2	25.22	.4934	-.0323	1.035	1.035	.9913	.0001
#3	25.03	.4867	-.0279	1.028	1.020	.9804	.0012
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.51	25.39	.0052	1.924	26.54	.5146
SDev	.0003	.14	.24	.0008	.028	.19	.0034
%RSD	13.55	.6976	.9566	14.44	1.445	.7254	.6563
#1	.0018	20.63	25.67	.0045	1.953	26.73	.5173
#2	.0021	20.54	25.30	.0053	1.922	26.55	.5158
#3	.0024	20.35	25.21	.0060	1.898	26.34	.5108
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.037	24.96	.0059	1.062	.0733	2.613	-.0066
SDev	.004	.33	.0074	.008	.0130	.011	.0147
%RSD	.3800	1.336	125.5	.7718	17.72	.4310	221.9
#1	1.041	25.30	-.0021	1.070	.0600	2.619	-.0176
#2	1.037	24.95	.0074	1.060	.0860	2.619	-.0123
#3	1.033	24.63	.0125	1.054	.0739	2.600	.0101
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	2.564	2.526	19.43	-.0793	.5155	.0029
SDev	.0065	.010	.018	.11	.0311	.0049	.0036
%RSD	183.5	.4085	.7051	.5695	39.22	.9536	122.2
#1	-.0034	2.573	2.543	19.52	-.1145	.5202	-.0008
#2	.0045	2.566	2.529	19.45	-.0677	.5160	.0033
#3	.0094	2.553	2.507	19.30	-.0556	.5104	.0064
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0400	1.001	2.546	.0893	.9918	.0355	-.0000
SDev	.0019	.007	.011	.0883	.0067	.0057	.0003
%RSD	4.854	.7471	.4197	98.96	.6795	16.03	1663.
#1	.0413	1.008	2.548	-.0008	.9982	.0315	-.0003
#2	.0378	1.002	2.556	.0928	.9923	.0420	-.0000
#3	.0409	.9933	2.535	.1758	.9848	.0329	.0002
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	2.050
SDev	.002	.017
%RSD	.2016	.8297
#1	1.036	2.065
#2	1.034	2.055
#3	1.032	2.032
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 12:13:51
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0082	96.98	.1334	.0019	.0007	.0007	.0642
SDev	.0005	.49	.0106	.0024	.0001	.0000	.0061
%RSD	5.550	.5002	7.953	122.0	10.12	2.898	9.516
#1	-.0087	97.25	.1437	.0019	.0007	.0007	.0624
#2	-.0079	97.28	.1225	-.0004	.0007	.0007	.0592
#3	-.0080	96.42	.1340	.0043	.0008	.0007	.0710

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0788	.0066	-.1391	.0058	.0367	-.0154	-.0021
SDev	.0009	.0007	.0062	.0001	.0017	.0009	.0003
%RSD	1.148	11.17	4.430	1.347	4.602	5.611	14.08
#1	.0777	.0060	-.1401	.0059	.0348	-.0148	-.0023
#2	.0792	.0075	-.1447	.0058	.0378	-.0164	-.0023
#3	.0794	.0065	-.1325	.0057	.0376	-.0152	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	19.89	.0000	.0049	.0062	.3016	.0014
SDev	.0002	.07	.1056	.0000	.0009	.0050	.0004
%RSD	23.63	.3689	155e6	.5091	14.59	1.654	32.58
#1	.0007	19.86	-.0338	.0049	.0071	.2994	.0014
#2	.0006	19.98	-.0846	.0049	.0061	.2981	.0009
#3	.0010	19.84	.1184	.0049	.0054	.3074	.0018

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0434	-.0177	52.01	.0264	.1944	-.3813
SDev	.0011	.0199	.0050	.17	.0112	.0053	.0029
%RSD	10.40	45.90	28.24	.3238	42.25	2.752	.7593
#1	.0098	.0321	-.0206	51.92	.0393	.1909	-.3787
#2	.0102	.0317	-.0207	52.20	.0198	.1917	-.3810
#3	.0119	.0664	-.0119	51.90	.0202	.2005	-.3844

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0195	.0121	.0182	.0642	.0641	.0002	.0055
SDev	.0079	.0069	.0050	.0020	.0064	.0000	.0066
%RSD	40.42	56.55	27.62	3.126	10.03	11.57	119.3
#1	-.0254	.0047	.0150	.0654	.0588	.0002	.0044
#2	-.0226	.0181	.0240	.0619	.0622	.0002	-.0005
#3	-.0105	.0135	.0157	.0653	.0712	.0002	.0125

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7076	.0015	.2320	49.76	.0022	.0516	.0033
SDev	.0069	.0003	.0099	.26	.0005	.0063	.0002

%RSD	.9704	17.95	4.251	.5212	21.12	12.26	7.354
#1	.7012	.0012	.2317	49.84	.0020	.0552	.0031
#2	.7065	.0016	.2420	49.97	.0019	.0443	.0033
#3	.7149	.0018	.2222	49.47	.0028	.0554	.0035

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0286	9.964
SDev	.0018	.047
%RSD	6.353	.4759
#1	-.0273	9.949
#2	-.0307	10.02
#3	-.0279	9.927

Analysis Report QC Standard Tue 09-12-95 12:18:59 PM page

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 12:17:39
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DKB 9/12

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.1534	.0303	.0022	.0005	.0002	-.0029
SDev	.0005	.0018	.0038	.0009	.0001	.0000	.0057
%RSD	25.65	1.148	12.57	41.78	13.43	12.29	194.6
#1	.0023	-.1524	.0269	.0026	.0006	.0003	.0033
#2	.0016	-.1555	.0297	.0029	.0005	.0002	-.0041
#3	.0015	-.1524	.0344	.0011	.0005	.0002	-.0079
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0230	.0009	1.979	.0036	.0012	-.0109	1.958
SDev	.0005	.0012	.004	.0003	.0011	.0010	.004
%RSD	2.089	140.9	.1805	9.621	92.25	9.553	.1848
#1	.0235	.0008	1.978	.0039	.0010	-.0118	1.955
#2	.0229	.0021	1.983	.0038	.0002	-.0097	1.962
#3	.0226	-.0003	1.976	.0032	.0024	-.0112	1.957
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.947	.0071	-.0958	1.959	.0029	.0919	.0004
SDev	.003	.0002	.0517	.005	.0012	.0080	.0001
%RSD	.1340	2.470	53.91	.2743	43.12	8.687	19.12
#1	1.945	.0072	-.1522	1.953	.0036	.0873	.0003
#2	1.950	.0069	-.0507	1.964	.0014	.0873	.0004
#3	1.947	.0072	-.0846	1.961	.0036	.1011	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0260	1.940	.0303	-.0077	.0488	2.087
SDev	.0010	.0129	.006	.0038	.0143	.0064	.006
%RSD	63.03	49.72	.3183	12.40	187.1	13.12	.2716
#1	.0021	.0401	1.933	.0346	.0088	.0455	2.082
#2	.0005	.0231	1.945	.0284	-.0174	.0562	2.086
#3	.0024	.0147	1.942	.0278	-.0143	.0447	2.093
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.986	.0199	.0186	.0576	2.026	.0006	1.818
SDev	.004	.0088	.0132	.0033	.023	.0000	.012
%RSD	.1870	44.46	71.25	5.659	1.151	.2775	.6842
#1	1.985	.0124	.0083	.0581	2.019	.0006	1.805
#2	1.990	.0177	.0139	.0607	2.052	.0006	1.829
#3	1.982	.0296	.0335	.0542	2.007	.0006	1.822
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.004	.0010	.0243	08.407	-.0011	0.4932	.9560
SDev	.015	.0003	.0079	.017	.0002	.0040	.0016
%RSD	.2907	29.92	32.43	.1964	14.03	.8186	.1730
#1	5.004	.0009	.0273	08.412	-.0012	0.4886	.9544
#2	5.018	.0007	.0154	08.421	-.0013	0.4946	.9577
#3	4.989	.0013	.0303	08.389	-.0009	0.4963	.9559
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0010	-.0083
SDev	.0010	.0006
%RSD	104.6	6.997
#1	.0001	-.0080
#2	.0008	-.0090
#3	.0020	-.0079
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 12:23:05 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 12:21:46
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0015	Q.1056	Q.0931	Q.1163	.0492	.0221	.0128
SDev	.0008	.0025	.0029	.0024	.0003	.0001	.0009
%RSD	54.17	2.340	3.088	2.094	.5670	.4063	7.181
#1	Q-.0018	Q.1028	Q.0962	Q.1136	.0494	.0221	.0126
#2	Q-.0021	Q.1071	Q.0906	.1184	.0494	.0222	.0138
#3	Q-.0006	Q.1070	Q.0925	Q.1168	.0489	.0220	.0119
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.72	.0112	-.0142	Q.0252	Q.0220	Q.0150	-.0019
SDev	.14	.0010	.0058	.0004	.0008	.0009	.0010
%RSD	.3907	8.974	40.91	1.484	3.838	5.756	54.88
#1	35.67	.0119	-.0155	Q.0249	Q.0229	Q.0152	-.0021
#2	35.87	.0117	-.0193	Q.0250	Q.0212	Q.0140	-.0027
#3	35.61	Q.0101	-.0079	Q.0256	Q.0221	Q.0157	-.0007
Errors	QC Pass	QC Pass	NOCHECK	QC Fail	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1190	Q1.640	.0030	Q.0130	Q9.920	.0349
SDev	.0002	.0001	.138	.0016	.0010	.050	.0003
%RSD	52.85	.1195	8.438	51.31	8.103	.5037	.8753
#1	.0005	Q.1191	Q1.674	.0022	Q.0136	Q9.917	.0352
#2	.0002	Q.1189	Q1.488	.0021	Q.0118	Q9.971	.0348
#3	.0006	Q.1191	Q1.759	.0049	Q.0136	Q9.871	.0346
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1071	11.99	-.0044	.0673	.0063	Q.0231	-.0296
SDev	.0003	.33	.0056	.0039	.0146	.0056	.0139
%RSD	.2566	2.789	126.4	5.807	229.3	24.35	46.81
#1	Q.1068	12.21	-.0029	.0653	-.0105	Q.0268	-.0284
#2	Q.1073	12.15	-.0107	.0647	.0148	Q.0166	-.0441
#3	Q.1073	Q11.60	.0003	Q.0718	.0147	Q.0259	-.0164
Errors	QC Fail	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0165	-.0043	Q.0237	.0077	-.0890	.2650	-.0059
SDev	.0084	.0086	.0003	.0029	.0165	.0022	.0091
%RSD	50.94	202.9	1.133	38.12	18.56	.8442	154.7
#1	-.0186	-.0011	Q.0239	.0080	-.0901	.2653	-.0078
#2	-.0236	-.0140	Q.0239	.0047	-.1049	Q.2670	.0040
#3	-.0072	.0024	Q.0234	.0105	-.0719	.2626	-.0138
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0041	.0072	Q.0180	.0048	Q.0263	.0016	-.0026
SDev	.0044	.0003	.0032	.0816	.0006	.0087	.0003
%RSD	106.1	3.657	17.77	1716.	2.122	548.2	11.75
#1	-.0067	.0073	Q.0185	-.0220	Q.0260	-.0084	-.0028
#2	-.0067	.0069	Q.0145	-.0601	Q.0259	.0068	-.0028
#3	.0009	.0075	Q.0209	.0963	Q.0269	.0063	-.0022
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0880	-.0021
SDev	.0017	.0004
%RSD	1.912	19.69
#1	Q.0873	-.0020
#2	Q.0869	-.0025
#3	Q.0900	-.0017
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Tue 09-12-95 12:26:42 PM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 12:25:23
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	1.922	2.055	1.966	1.004	.9774	1.943
SDev	.0004	.016	.013	.023	.012	.0094	.026
%RSD	77.15	.8088	.6155	1.152	1.240	.9653	1.338
#1	-.0004	1.919	2.052	1.962	1.005	.9768	1.923
#2	-.0001	1.908	2.044	1.946	.9916	.9682	1.934
#3	-.0009	1.939	2.069	1.990	1.016	.9871	1.972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.958	.9877	-.0034	1.046	.5169	2.012	-.0000
SDev	.010	.0041	.0079	.005	.0081	.022	.0014
%RSD	.4996	.4127	229.9	.4945	1.562	1.098	18460.
#1	1.955	.9867	-.0057	1.046	.5191	2.012	-.0000
#2	1.950	.9842	.0053	1.040	.5079	1.991	.0014
#3	1.969	.9921	-.0099	1.050	.5236	2.035	-.0014

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	2.031	4.673	.0011	1.964	2.099	1.029
SDev	.0003	.015	.093	.0019	.041	.013	.007
%RSD	71.58	.7415	1.993	169.2	2.098	.6027	.6880
#1	.0003	2.029	4.667	.0014	1.982	2.096	1.028
#2	.0008	2.017	4.769	.0028	1.917	2.088	1.022
#3	.0002	2.047	4.583	-.0009	1.993	2.113	1.036

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.015	8.136	-.0035	2.119	4.755	2.072	.0104
SDev	.014	.131	.0070	.010	.072	.007	.0185
%RSD	.6997	1.614	202.3	.4669	1.522	.3294	178.1
#1	2.013	8.197	-.0043	2.111	4.738	2.073	.0069
#2	2.002	7.986	.0039	2.115	4.693	2.065	.0304
#3	2.030	8.226	-.0101	2.130	4.835	2.078	-.0061

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0091	2.002	5.018	-.0147	2.045	-.0148
SDev	.0097	.0061	.005	.038	.0081	.025	.0025
%RSD	379.1	67.09	.2698	.7663	54.94	1.219	16.77
#1	.0000	.0048	2.007	5.017	-.0160	2.046	-.0175
#2	.0133	.0161	1.997	4.980	-.0061	2.020	-.0144
#3	-.0056	.0064	2.003	5.057	-.0221	2.070	-.0126

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037	.0001	2.004	-.0142	.9653	.0056	-.0003
SDev	.0020	.0007	.017	.1035	.0084	.0029	.0003

%RSD	54.11	888.3	.8626	730.0	.8657	51.27	95.09
#1	.0040	-.0001	1.999	-.0236	.9642	.0027	-.0005
#2	.0016	.0008	1.990	.0937	.9575	.0084	.0000
#3	.0056	-.0005	2.023	-.1126	.9741	.0058	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.044	-.0014
SDev	.010	.0007
%RSD	.9709	51.77
#1	1.047	-.0016
#2	1.033	-.0006
#3	1.053	-.0021

Analysis Report Tue 09-12-95 12:30:22 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 12:29:03
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.0019	.0094	.0026	.0001	.0000	.0091
SDev	.0011	.0063	.0065	.0012	.0001	.0000	.0034
%RSD	81.53	341.4	69.48	45.28	83.33	98.88	37.32
#1	-.0024	-.0054	.0048	.0027	.0000	.0000	.0056
#2	-.0002	.0047	.0169	.0038	.0001	.0001	.0093
#3	-.0013	.0062	.0066	.0014	.0001	.0000	.0124

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	-.0019	-.0089	.0011	.0008	-.0008	-.0005
SDev	.0014	.0002	.0055	.0009	.0007	.0009	.0004
%RSD	45.10	11.34	61.51	80.46	91.97	120.7	85.27
#1	.0015	-.0017	-.0151	.0001	.0010	-.0013	-.0008
#2	.0041	-.0018	-.0072	.0018	-.0000	-.0012	-.0000
#3	.0040	-.0021	-.0045	.0015	.0013	.0003	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0014	-.4904	-.0007	.0005	.0017	-.0003
SDev	.0002	.0004	.1184	.0007	.0011	.0043	.0001
%RSD	324.6	30.25	24.14	96.61	228.4	252.0	24.26
#1	-.0002	-.0018	-.6257	-.0016	-.0007	-.0025	-.0004
#2	-.0002	-.0010	-.4059	-.0003	.0014	.0015	-.0003
#3	.0002	-.0016	-.4397	-.0004	.0007	.0060	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.0083	-.0086	.0033	.0013	-.0087	.0028
SDev	.0010	.0152	.0057	.0012	.0128	.0035	.0082
%RSD	52.98	183.3	66.12	37.85	1005.	40.68	294.1
#1	.0009	-.0252	-.0152	.0024	-.0128	-.0108	-.0066
#2	.0017	-.0040	-.0053	.0047	.0122	-.0046	.0072
#3	.0028	.0043	-.0053	.0027	.0044	-.0106	.0078

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.0077	-.0025	-.0282	-.0280	.0006	-.0003
SDev	.0052	.0115	.0127	.0050	.0278	.0001	.0064
%RSD	1351.	148.4	499.9	17.88	99.31	12.23	1848.
#1	-.0061	.0052	.0104	-.0330	-.0595	.0005	-.0036
#2	.0040	.0203	-.0149	-.0229	-.0070	.0006	.0071
#3	.0010	-.0023	-.0031	-.0288	-.0174	.0006	-.0045

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	-.0006	.0098	-.0836	-.0009	-.0049	-.0009
SDev	.0072	.0005	.0114	.0290	.0007	.0008	.0002

%RSD	554.1	80.81	116.7	34.62	70.51	16.72	21.88
#1	-.0057	-.0011	.0032	-.0715	-.0016	-.0052	-.0009
#2	-.0052	-.0001	.0032	-.1167	-.0003	-.0039	-.0006
#3	.0070	-.0006	.0230	-.0627	-.0009	-.0054	-.0010

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0001	-.0012
SDev	.0006	.0005
%RSD	427.5	43.85
#1	-.0006	-.0015
#2	.0006	-.0006
#3	.0004	-.0015

Standardization Rpt. Tue 09-12-95 01:53:08 PM page

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6334	.2033	.1619	.1018	.0298	.0167	.1378
SDev	.0032	.0001	.0021	.0015	.0001	.0001	.0027
%RSD	.5123	.0492	1.290	1.474	.5132	.3464	1.949
#1	.6343	.2034	.1609	.1003	.0298	.0166	.1362
#2	.6298	.2032	.1643	.1019	.0296	.0167	.1363
#3	.6361	.2033	.1605	.1033	.0299	.0167	.1409

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1229	.0438	.6070	.1375	.0460	.0448	.1889
SDev	.0004	.0014	.0015	.0002	.0006	.0003	.0007
%RSD	.3289	3.139	.2473	.1514	1.198	.6824	.3830
#1	.1228	.0423	.6069	.1374	.0466	.0451	.1884
#2	.1225	.0450	.6055	.1377	.0456	.0447	.1885
#3	.1233	.0441	.6085	.1373	.0457	.0445	.1897

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0328	.0542	.2097	.0964	.0407	.2297	.0190
SDev	.0001	.0001	.0007	.0002	.0003	.0006	.0001
%RSD	.1758	.2817	.3127	.2395	.8511	.2551	.5263
#1	.0328	.0541	.2096	.0963	.0409	.2290	.0189
#2	.0328	.0542	.2091	.0963	.0403	.2299	.0190
#3	.0329	.0544	.2104	.0967	.0409	.2301	.0191

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0782	.0402	.3556	.0462	.1251	1.293	1.485
SDev	.0005	.0002	.0016	.0009	.0020	.004	.007
%RSD	.6565	.4975	.4604	1.941	1.610	.3453	.4695
#1	.0776	.0400	.3560	.0457	.1272	1.291	1.483
#2	.0786	.0402	.3538	.0456	.1232	1.290	1.478
#3	.0783	.0404	.3570	.0472	.1248	1.298	1.492

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.474	.2523	.1488	.3657	.6572	.0139	.9594
SDev	.006	.0016	.0009	.0016	.0018	.0001	.0028
%RSD	.4191	.6320	.6099	.4420	.2666	.4144	.2905
#1	1.474	.2531	.1496	.3648	.6554	.0139	.9602
#2	1.469	.2534	.1489	.3648	.6573	.0139	.9563
#3	1.481	.2505	.1478	.3676	.6589	.0140	.9617

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2281	.0628	.0344	1.666	.0945	.0296	.0247
SDev	.0011	.0001	.0003	.009	.0004	.0004	.0001
%RSD	.4941	.1838	.8890	.5288	.3815	1.280	.4049
#1	.2274	.0627	.0347	1.666	.0944	.0300	.0246
#2	.2275	.0629	.0341	1.658	.0942	.0293	.0247
#3	.2294	.0629	.0343	1.676	.0949	.0294	.0248

Elem	Zn	Zr
Avge	.0323	.0784
SDev	.0009	.0003

Standardization Rpt. Tue 09-12-95 01:53:08 PM page 2

%RSD	2.953	.4102
#1	.0317	.0780
#2	.0334	.0785
#3	.0318	.0786

Standardization Rpt. Tue 09-12-95 01:54:52 PM page 1

Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.206	17.63	12.68	4.546	74.70	45.60	12.14
SDev	.018	.02	.01	.011	.08	.05	.02
%RSD	.2133	.1095	.0575	.2524	.1010	.0994	.1647
#1	8.200	17.62	12.67	4.537	74.74	45.60	12.12
#2	8.191	17.61	12.67	4.541	74.61	45.55	12.12
#3	8.225	17.65	12.68	4.559	74.74	45.64	12.16

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.755	6.088	59.29	8.602	15.19	30.00	25.92
SDev	.025	.009	.04	.031	.02	.04	.03
%RSD	.4370	.1406	.0697	.3587	.1429	.1404	.0976
#1	5.729	6.093	59.28	8.580	15.19	29.99	25.92
#2	5.757	6.078	59.25	8.588	15.17	29.96	25.90
#3	5.780	6.092	59.33	8.637	15.21	30.04	25.95

Standardization Rpt. Tue 09-12-95 01:58:57 PM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.23	51.14	79.43	9.977	3.003	13.56	7.171
SDev	.25	.14	.20	.050	.014	.07	.020
%RSD	.3303	.2701	.2560	.5001	.4515	.5012	.2759
#1	75.51	51.30	79.61	10.03	3.019	13.64	7.192
#2	75.14	51.09	79.48	9.946	2.994	13.51	7.169
#3	75.04	51.03	79.21	9.950	2.997	13.54	7.153

Elem	P
Avge	13.99
SDev	.02
%RSD	.1609
#1	14.02
#2	13.97
#3	14.00

Standardization Rpt. Tue 09-12-95 02:02:49 PM page 1

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	49.67	11.45	6.312	17.12	12.03
SDev	.28	.06	.028	.08	.05
%RSD	.5658	.4884	.4372	.4797	.4140
#1	49.96	11.50	6.337	17.20	12.07
#2	49.39	11.39	6.283	17.04	11.97
#3	49.65	11.46	6.317	17.13	12.04

Standardization Rpt. Tue 09-12-95 02:06:28 PM page 1

Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.54	25.39	36.56	12.35	3.203
SDev	.07	.10	.08	.04	.015
%RSD	.2552	.4007	.2180	.3484	.4702
#1	27.61	25.51	36.65	12.39	3.220
#2	27.47	25.35	36.51	12.32	3.196
#3	27.54	25.32	36.52	12.32	3.193

Standardization Rpt. Tue 09-12-95 02:09:53 PM page

Method: ICP1 Standard: STD6

Elem	U
Avge	51.52
SDev	.22
%RSD	.4357
#1	51.71
#2	51.27
#3	51.58

Standardization Rpt. Tue 09-12-95 02:13:52 PM page 1

Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.878	78.48	56.08
SDev	.008	.27	.18
%RSD	.4066	.3389	.3130
#1	1.869	78.18	55.89
#2	1.881	78.56	56.15
#3	1.883	78.70	56.22

Standardization Rpt. Tue 09-12-95 02:17:33 PM page .

Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.53	27.34	3.962	1.228
SDev	.05	.03	.006	.001
%RSD	.1718	.1158	.1519	.1170
#1	30.59	27.37	3.965	1.226
#2	30.50	27.31	3.955	1.228
#3	30.50	27.33	3.966	1.229

Standardization Rpt. Tue 09-12-95 02:21:27 PM page 1

Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.02	50.06	8.461	3.237
SDev	.10	.26	.032	.021
%RSD	.4626	.5136	.3834	.6437
#1	20.91	49.76	8.424	3.213
#2	21.07	50.17	8.475	3.247
#3	21.08	50.24	8.484	3.251

Standardization Report Tue 09-12-95 02:21:40 PM page 1

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.334490	-.211866	09/12/95 02:20:09
Al	308.215	STD3	STD1-Blank	6.66407	-1.35481	09/12/95 02:20:09
As	193.600	STD5	STD1-Blank	3.65271	-.591374	09/12/95 02:20:09
B	249.600	STD3	STD1-Blank	.979631	-.099759	09/12/95 02:20:09
Ba	493.400	STD2	STD1-Blank	1.22313	-.036408	09/12/95 02:20:09
Be	313.042	STD7	STD1-Blank	.537317	-.008955	09/12/95 02:20:09
Bi	223.061	STD8	STD1-Blank	3.67656	-.506630	09/12/95 02:20:09
Ca	317.900	STD3	STD1-Blank	3.15214	-.387292	09/12/95 02:20:09
Cd	228.800	STD3	STD1-Blank	1.00674	-.044095	09/12/95 02:20:09
Ce	418.659	STD5	STD1-Blank	2.01736	-1.22447	09/12/95 02:20:09
Co	228.600	STD2	STD1-Blank	1.14353	-.157198	09/12/95 02:20:09
Cr	205.500	STD2	STD1-Blank	1.58351	-.072789	09/12/95 02:20:09
Cu	324.700	STD2	STD1-Blank	4.44365	-.198928	09/12/95 02:20:09
Dy	353.170	STD4	STD1-Blank	1.01053	-.190856	09/12/95 02:20:09
Eu	381.900	STD4	STD1-Blank	1.75158	-.057510	09/12/95 02:20:09
Fe	259.900	STD2	STD1-Blank	2.67949	-.145318	09/12/95 02:20:09
K	766.500	STD3	STD1-Blank	178.989	-37.5340	09/12/95 02:20:09
La	398.852	STD4	STD1-Blank	3.21750	-.310275	09/12/95 02:20:09
Li	670.700	STD3	STD1-Blank	3.69810	-.150513	09/12/95 02:20:09
Mg	279.078	STD2	STD1-Blank	5.51051	-1.26558	09/12/95 02:20:09
Mn	257.600	STD3	STD1-Blank	1.39816	-.026565	09/12/95 02:20:09
Mo	202.000	STD2	STD1-Blank	1.65879	-.129662	09/12/95 02:20:09
Na	588.900	STD2	STD1-Blank	43.7427	-1.75846	09/12/95 02:20:09
Nd	406.106	STD4	STD1-Blank	2.98191	-1.06037	09/12/95 02:20:09
Ni	231.600	STD2	STD1-Blank	3.31045	-.152833	09/12/95 02:20:09
P	214.900	STD3	STD1-Blank	7.21057	-.901802	09/12/95 02:20:
Pb	220.300	STD2	STD1-Blank	.862154	-1.11477	09/12/95 02:20:0
Pd	360.959	STD9	STD1-Blank	2.55960	-3.79981	09/12/95 02:20:09
Rh	343.489	STD9	STD1-Blank	1.02916	-1.51739	09/12/95 02:20:09
Sb	206.838	STD5	STD1-Blank	2.75449	-.695050	09/12/95 02:20:09
Se	196.026	STD8	STD1-Blank	5.24540	-.780340	09/12/95 02:20:09
Si	288.100	STD7	STD1-Blank	2.56031	-.936390	09/12/95 02:20:09
Sn	242.950	STD9	STD1-Blank	7.36500	-4.84028	09/12/95 02:20:09
Sr	421.500	STD2	STD1-Blank	1.16446	-.016225	09/12/95 02:20:09
Te	214.275	STD7	STD1-Blank	.907028	-.870203	09/12/95 02:20:09
Th	283.730	STD4	STD1-Blank	4.23798	-.966684	09/12/95 02:20:09
Ti	334.900	STD2	STD1-Blank	1.32196	-.083063	09/12/95 02:20:09
Tl	190.864	STD8	STD1-Blank	16.7579	-.575913	09/12/95 02:20:09
U	378.280	STD6	STD1-Blank	10.0291	-16.7128	09/12/95 02:20:09
V	292.402	STD5	STD1-Blank	1.63253	-.154274	09/12/95 02:20:09
W	224.875	STD9	STD1-Blank	15.7964	-.467046	09/12/95 02:20:09
Y	371.030	STD5	STD1-Blank	3.14611	-.077709	09/12/95 02:20:09
Zn	213.800	STD2	STD1-Blank	.667437	-.021558	09/12/95 02:20:09
Zr	339.100	STD2	STD1-Blank	1.93450	-.151600	09/12/95 02:20:09

Standardization Report Tue 09-12-95 02:22:07 PM page 1

Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.98963	.211866	09/12/95 02:20:09
Al	308.215	STD3	STD1-Blank	.150058	1.35481	09/12/95 02:20:09
As	193.600	STD5	STD1-Blank	.273769	.591374	09/12/95 02:20:09
B	249.600	STD3	STD1-Blank	1.02079	.099759	09/12/95 02:20:09
Ba	493.400	STD2	STD1-Blank	.817577	.036408	09/12/95 02:20:09
Be	313.042	STD7	STD1-Blank	1.86110	.008955	09/12/95 02:20:09
Bi	223.061	STD8	STD1-Blank	.271993	.506630	09/12/95 02:20:09
Ca	317.900	STD3	STD1-Blank	.317245	.387292	09/12/95 02:20:09
Cd	228.800	STD3	STD1-Blank	.993303	.044095	09/12/95 02:20:09
Ce	418.659	STD5	STD1-Blank	.495698	1.22447	09/12/95 02:20:09
Co	228.600	STD2	STD1-Blank	.874483	.157198	09/12/95 02:20:09
Cr	205.500	STD2	STD1-Blank	.631508	.072789	09/12/95 02:20:09
Cu	324.700	STD2	STD1-Blank	.225040	.198928	09/12/95 02:20:09
Dy	353.170	STD4	STD1-Blank	.989577	.190856	09/12/95 02:20:09
Eu	381.900	STD4	STD1-Blank	.570913	.057510	09/12/95 02:20:09
Fe	259.900	STD2	STD1-Blank	.373206	.145318	09/12/95 02:20:09
K	766.500	STD3	STD1-Blank	.005587	37.5340	09/12/95 02:20:09
La	398.852	STD4	STD1-Blank	.310800	.310275	09/12/95 02:20:09
Li	670.700	STD3	STD1-Blank	.270409	.150513	09/12/95 02:20:09
Mg	279.078	STD2	STD1-Blank	.181471	1.26558	09/12/95 02:20:09
Mn	257.600	STD3	STD1-Blank	.715223	.026565	09/12/95 02:20:09
Mo	202.000	STD2	STD1-Blank	.602848	.129662	09/12/95 02:20:09
Na	588.900	STD2	STD1-Blank	.022861	1.75846	09/12/95 02:20:09
Nd	406.106	STD4	STD1-Blank	.335355	1.06037	09/12/95 02:20:09
Ni	231.600	STD2	STD1-Blank	.302073	.152833	09/12/95 02:20:09
P	214.900	STD3	STD1-Blank	.138685	.901802	09/12/95 02:20:09
Pb	220.300	STD2	STD1-Blank	1.15989	1.11477	09/12/95 02:20:09
Pd	360.959	STD9	STD1-Blank	.390687	3.79981	09/12/95 02:20:09
Rh	343.489	STD9	STD1-Blank	.971670	1.51739	09/12/95 02:20:09
Sb	206.838	STD5	STD1-Blank	.363044	.695050	09/12/95 02:20:09
Se	196.026	STD8	STD1-Blank	.190643	.780340	09/12/95 02:20:09
Si	288.100	STD7	STD1-Blank	.390578	.936390	09/12/95 02:20:09
Sn	242.950	STD9	STD1-Blank	.135777	4.84028	09/12/95 02:20:09
Sr	421.500	STD2	STD1-Blank	.858770	.016225	09/12/95 02:20:09
Te	214.275	STD7	STD1-Blank	1.10250	.870203	09/12/95 02:20:09
Th	283.730	STD4	STD1-Blank	.235961	.966684	09/12/95 02:20:09
Ti	334.900	STD2	STD1-Blank	.756455	.083063	09/12/95 02:20:09
Tl	190.864	STD8	STD1-Blank	.059673	.575913	09/12/95 02:20:09
U	378.280	STD6	STD1-Blank	.099710	16.7128	09/12/95 02:20:09
V	292.402	STD5	STD1-Blank	.612547	.154274	09/12/95 02:20:09
W	224.875	STD9	STD1-Blank	.063306	.467046	09/12/95 02:20:09
Y	371.030	STD5	STD1-Blank	.317853	.077709	09/12/95 02:20:09
Zn	213.800	STD2	STD1-Blank	1.49827	.021558	09/12/95 02:20:09
Zr	339.100	STD2	STD1-Blank	.516930	.151600	09/12/95 02:20:09

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	-.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.00000	.000001
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	.000002	-.000002
		STD3	500.000	500.000	-.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	-.000002
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	.000001	-.000001
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 14:35:34
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0033	-.0001	.0045	-.0001	.0000	-.0008
SDev	.0003	.0026	.0122	.0015	.0001	.0000	.0030
%RSD	32.13	76.42	11100.	32.41	151.8	183.9	382.6
#1	-.0010	-.0060	-.0129	.0047	-.0002	-.0000	-.0034
#2	-.0005	-.0032	.0115	.0029	.0000	.0000	-.0014
#3	-.0009	-.0009	.0010	.0058	-.0001	.0000	.0025

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0001	-.0018	.0000	-.0013	.0047	-.0010
SDev	.0009	.0008	.0041	.0007	.0009	.0004	.0008
%RSD	180.7	1372.	224.9	2318.	65.08	8.208	86.73
#1	-.0009	-.0009	-.0048	-.0003	-.0023	.0047	-.0019
#2	.0006	-.0001	-.0035	-.0004	-.0007	.0043	-.0006
#3	-.0012	.0008	.0028	.0008	-.0009	.0050	-.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0007	-.1909	-.0012	.0004	-.0017	-.0000
SDev	.0001	.0009	.1192	.0002	.0004	.0030	.0002
%RSD	67.68	120.6	62.42	18.21	100.1	181.5	669.1
#1	-.0003	-.0014	-.3222	-.0013	.0007	-.0050	-.0002
#2	-.0002	.0002	-.0895	-.0010	.0004	-.0008	.0000
#3	-.0001	-.0009	-.1611	-.0014	-.0000	.0008	.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0276	-.0039	-.0013	.0091	-.0034	-.0100
SDev	.0010	.0090	.0021	.0021	.0015	.0051	.0122
%RSD	241.7	32.63	52.98	161.4	16.67	150.4	122.6
#1	-.0015	-.0304	-.0063	-.0025	.0106	-.0091	-.0240
#2	.0004	-.0349	-.0034	.0011	.0076	.0008	-.0018
#3	-.0001	-.0175	-.0022	-.0025	.0090	-.0020	-.0041

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0093	.0024	.0020	.0338	-.0054	.0001	-.0076
SDev	.0058	.0041	.0070	.0006	.0152	.0001	.0081
%RSD	62.51	168.0	345.2	1.822	282.0	50.32	106.7
#1	-.0158	-.0019	-.0036	.0338	-.0207	.0001	-.0146
#2	-.0079	.0030	-.0002	.0344	-.0051	.0001	-.0096
#3	-.0044	.0061	.0099	.0331	.0096	.0002	.0013

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0071	-.0003	-.0013	-.0616	-.0011	.0071	-.0005
SDev	.0032	.0002	.0076	.0974	.0005	.0103	.0003

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%RSD	45.39	61.59	566.5	158.1	42.18	145.1	63.82
#1	-.0102	-.0006	-.0061	-.1699	-.0017	.0057	-.0008
#2	-.0038	-.0001	.0075	-.0340	-.0007	-.0025	-.0003
#3	-.0073	-.0003	-.0054	.0190	-.0010	.0180	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0008
SDev	.0012	.0005
%RSD	685.4	65.56
#1	.0004	-.0014
#2	-.0015	-.0006
#3	.0006	-.0004

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Method: ICP1 Sample Name: 2% HNO3 DILUENT PUMP Operator: DRS
Run Time: 09/12/95 14:37:45
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0054	.0061	.0075	.0003	.0001	.0069
SDev	.0002	.0015	.0058	.0011	.0001	.0000	.0077
%RSD	12.18	28.10	96.51	14.79	21.78	45.14	111.6
#1	.0020	.0052	-.0007	.0076	.0003	.0001	.0107
#2	.0020	.0070	.0101	.0063	.0004	.0000	-.0020
#3	.0016	.0040	.0088	.0085	.0003	.0001	.0121

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0360	.0007	.0125	.0015	.0006	.0049	.0012
SDev	.0005	.0012	.0051	.0003	.0013	.0004	.0003
%RSD	1.319	167.9	40.72	16.68	195.4	9.031	25.41
#1	-.0357	.0011	.0097	.0014	.0006	.0046	.0009
#2	-.0365	-.0006	.0095	.0013	.0019	.0054	.0015
#3	-.0357	.0016	.0184	.0018	-.0006	.0046	.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0059	.3878	.0028	.0016	.0116	.0004
SDev	.0002	.0008	.0450	.0004	.0013	.0019	.0001
%RSD	30.82	13.10	11.61	13.87	80.96	16.39	38.97
#1	.0004	.0050	.3401	.0032	.0004	.0097	.0002
#2	.0005	.0066	.4296	.0024	.0015	.0115	.0003
#3	.0007	.0061	.3938	.0028	.0030	.0135	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0144	.0124	.0011	.0145	.0172	.0365
SDev	.0012	.0177	.0024	.0005	.0110	.0055	.0101
%RSD	221.2	122.8	19.10	46.21	76.10	31.73	27.73
#1	-.0008	.0173	.0097	.0017	.0154	.0218	.0263
#2	.0013	.0304	.0138	.0007	.0030	.0187	.0465
#3	.0011	-.0046	.0137	.0010	.0250	.0112	.0366

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	.0077	.0090	.0394	.0423	.0003	.0071
SDev	.0019	.0083	.0047	.0046	.0041	.0001	.0080
%RSD	13.18	107.0	51.88	11.62	9.741	20.83	112.8
#1	.0129	-.0007	.0070	.0356	.0392	.0004	-.0020
#2	.0137	.0082	.0057	.0383	.0470	.0003	.0132
#3	.0165	.0158	.0143	.0445	.0406	.0003	.0100

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	.0006	-.0041	.1722	.0008	.0068	.0008
SDev	.0035	.0001	.0076	.0333	.0003	.0060	.0003

%RSD	58.08	10.64	186.5	19.37	34.68	87.50	35.50
#1	-.0038	.0005	-.0087	.1447	.0011	.0111	.0005
#2	-.0099	.0006	.0047	.2093	.0005	.0094	.0011
#3	-.0042	.0006	-.0082	.1625	.0009	-.0000	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0003	.0012
SDev	.0003	.0004
%RSD	83.57	32.94
#1	-.0006	.0008
#2	-.0005	.0016
#3	-.0000	.0012

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Method: ICP1 Sample Name: "PIPETED" STD1-BLK Operator: DRS
Run Time: 09/12/95 14:40:28
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0052	.0070	.0054	.0004	.0000	.0042
SDev	.0002	.0013	.0110	.0016	.0001	.0000	.0101
%RSD	13.20	25.36	156.8	30.49	31.72	8.517	240.4
#1	.0013	.0068	.0115	.0066	.0005	.0000	-.0049
#2	.0016	.0048	-.0055	.0061	.0005	.0000	.0025
#3	.0016	.0042	.0150	.0035	.0003	.0001	.0150

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	-.0012	.0098	.0019	-.0006	.0063	.0014
SDev	.0003	.0005	.0031	.0008	.0010	.0001	.0003
%RSD	3.289	38.36	31.10	44.29	177.6	1.315	18.37
#1	.0101	-.0009	.0128	.0021	-.0002	.0062	.0015
#2	.0106	-.0010	.0099	.0026	.0002	.0063	.0016
#3	.0099	-.0018	.0067	.0010	-.0017	.0064	.0011

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0013	.2923	.0019	.0011	.0098	.0003
SDev	.0002	.0007	.0919	.0002	.0006	.0075	.0003
%RSD	43.40	51.69	31.42	9.294	58.02	76.66	110.9
#1	.0003	.0012	.2685	.0020	.0015	.0046	.0003
#2	.0007	.0021	.3938	.0018	.0004	.0183	-.0001
#3	.0004	.0007	.2148	.0021	.0015	.0064	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0157	.0115	.0021	.0395	.0114	.0381
SDev	.0002	.0197	.0002	.0024	.0100	.0095	.0022
%RSD	21.30	125.5	1.484	113.8	25.39	83.70	5.817
#1	.0006	.0346	.0117	-.0007	.0281	.0004	.0380
#2	.0010	.0172	.0116	.0033	.0472	.0170	.0403
#3	.0008	-.0047	.0113	.0037	.0432	.0167	.0359

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0101	.0108	.0098	.0251	.0373	.0003	.0071
SDev	.0018	.0015	.0040	.0011	.0047	.0001	.0018
%RSD	17.99	14.02	40.99	4.376	12.56	19.46	24.88
#1	.0111	.0091	.0062	.0262	.0338	.0004	.0053
#2	.0112	.0119	.0090	.0250	.0356	.0003	.0073
#3	.0080	.0113	.0141	.0240	.0427	.0003	.0088

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0055	.0005	-.0066	.1838	.0009	.0132	.0005
SDev	.0053	.0001	.0029	.0307	.0005	.0087	.0000

%RSD	95.82	17.15	43.41	16.70	51.10	66.01	3.611
#1	-.0057	.0004	-.0089	.2192	.0010	.0126	.0005
#2	-.0002	.0006	-.0034	.1658	.0014	.0048	.0005
#3	-.0107	.0005	-.0076	.1663	.0004	.0222	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0016
SDev	.0002	.0002
%RSD	20.01	11.12
#1	.0007	.0018
#2	.0008	.0017
#3	.0010	.0015

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Method: ICP1 Sample Name: MCVA @5X Operator: DRS
Run Time: 09/12/95 14:43:49
Comment: MCVA @5X DIL (Ca CONTAMINATIO CHECK)(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0982	5.015	.5176	.4049	.1032	.0190	4.985
SDev	.0002	.052	.0094	.0047	.0011	.0001	.045
%RSD	.2150	1.037	1.806	1.167	1.105	.4825	.9098
#1	.0981	4.957	.5129	.4004	.1019	.0189	4.944
#2	.0984	5.030	.5283	.4045	.1035	.0191	4.978
#3	.0980	5.057	.5114	.4098	.1041	.0190	5.034

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.017	.0983	-.0063	.2098	.2084	.2057	-.0005
SDev	.019	.0004	.0101	.0009	.0026	.0016	.0014
%RSD	.3796	.4383	160.1	.4120	1.228	.8043	285.4
#1	4.996	.0978	.0024	.2105	.2097	.2040	.0011
#2	5.034	.0984	-.0040	.2099	.2055	.2058	-.0011
#3	5.020	.0986	-.0174	.2088	.2101	.2073	-.0015

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	4.177	5.495	.0004	.4029	5.447	.1029
SDev	.0003	.025	.082	.0022	.0126	.048	.0006
%RSD	62.81	.5891	1.493	577.4	3.131	.8872	.5849
#1	.0007	4.149	5.584	.0025	.3897	5.396	.1022
#2	.0005	4.191	5.423	.0005	.4041	5.452	.1033
#3	.0002	4.192	5.477	-.0019	.4148	5.492	.1033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2086	5.257	.0029	.2129	.0380	.5344	.0013
SDev	.0015	.228	.0094	.0024	.0085	.0015	.0195
%RSD	.7435	4.331	323.4	1.111	22.36	.2884	1452.
#1	.2078	5.027	.0136	.2105	.0394	.5332	.0203
#2	.2103	5.263	-.0005	.2129	.0456	.5361	.0024
#3	.2075	5.482	-.0043	.2152	.0288	.5339	-.0187

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.4949	.5154	3.853	-.0158	.1040	-.0022
SDev	.0080	.0095	.0135	.027	.0163	.0010	.0037
%RSD	1767.	1.916	2.615	.7127	103.4	.9383	167.7
#1	.0080	.4840	.5308	3.822	.0003	.1029	.0013
#2	-.0015	.5007	.5060	3.863	-.0153	.1043	-.0060
#3	-.0079	.5001	.5093	3.875	-.0324	.1048	-.0019

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.2016	.5055	.0257	.2010	.0145	.0002
SDev	.0039	.0010	.0098	.1129	.0002	.0097	.0005

%RSD	337.2	.5196	1.937	439.1	.1142	66.68	217.6
#1	.0056	.2003	.4957	.1492	.2009	.0253	.0008
#2	-.0008	.2021	.5053	.0001	.2008	.0066	-.0001
#3	-.0014	.2022	.5153	-.0722	.2013	.0116	-.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2077	.4114
SDev	.0010	.0025
%RSD	.4983	.5983
#1	.2070	.4086
#2	.2071	.4131
#3	.2089	.4126

Analysis Report Tue 09-12-95 02:48:13 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 14:46:53
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	-.0100	-.0081	.0030	-.0004	.0000	-.0042
SDev	.0005	.0040	.0007	.0010	.0001	.0000	.0015
%RSD	20.40	39.90	9.234	33.83	38.73	147.7	34.98
#1	-.0025	-.0133	-.0087	.0039	-.0004	.0000	-.0028
#2	-.0021	-.0055	-.0082	.0019	-.0002	.0000	-.0041
#3	-.0031	-.0111	-.0073	.0033	-.0004	.0000	-.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	.0001	-.0144	-.0014	-.0012	.0019	-.0024
SDev	.0012	.0013	.0033	.0005	.0009	.0004	.0006
%RSD	43.20	983.5	23.18	35.13	72.66	23.10	25.80
#1	-.0041	-.0004	-.0176	-.0018	-.0005	.0014	-.0028
#2	-.0016	.0016	-.0109	-.0015	-.0021	.0019	-.0017
#3	-.0028	-.0008	-.0147	-.0008	-.0008	.0022	-.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0013	-.5191	-.0043	-.0020	-.0063	-.0002
SDev	.0001	.0003	.1860	.0012	.0006	.0004	.0002
%RSD	23.33	24.41	35.84	27.93	28.68	6.445	121.5
#1	-.0008	-.0016	-.6265	-.0040	-.0018	-.0067	-.0003
#2	-.0005	-.0009	-.3043	-.0033	-.0015	-.0059	.0000
#3	-.0006	-.0013	-.6265	-.0056	-.0026	-.0065	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	-.0419	-.0154	-.0012	-.0068	-.0105	-.0439
SDev	.0018	.0263	.0030	.0013	.0095	.0082	.0067
%RSD	211.8	62.72	19.26	108.9	140.0	78.07	15.29
#1	-.0027	-.0696	-.0165	-.0027	-.0031	-.0178	-.0503
#2	.0009	-.0172	-.0120	-.0005	.0003	-.0016	-.0369
#3	-.0008	-.0389	-.0177	-.0004	-.0176	-.0121	-.0444

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0202	-.0045	-.0125	.0100	-.0750	.0000	-.0131
SDev	.0053	.0036	.0029	.0047	.0250	.0001	.0048
%RSD	26.42	80.86	23.15	46.89	33.35	299.8	36.63
#1	-.0248	-.0047	-.0102	.0053	-.0831	-.0000	-.0180
#2	-.0144	-.0080	-.0157	.0147	-.0470	.0001	-.0084
#3	-.0214	-.0008	-.0115	.0099	-.0950	-.0000	-.0130

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0069	-.0011	-.0144	-.2240	-.0022	.0075	-.0009
SDev	.0040	.0004	.0067	.0700	.0006	.0125	.0002

%RSD	57.19	32.66	46.63	31.23	29.13	165.5	17.93
#1	-.0098	-.0013	-.0215	-.2674	-.0028	.0171	-.0011
#2	-.0086	-.0007	-.0081	-.1433	-.0015	.0121	-.0008
#3	-.0024	-.0014	-.0136	-.2613	-.0022	-.0066	-.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	-.0021
SDev	.0007	.0005
%RSD	370.4	23.60
#1	-.0006	-.0019
#2	.0003	-.0017
#3	.0008	-.0026

Analysis Report QC Standard Tue 09-12-95 02:51:09 PM page

Method: ICP1 Sample Name: MCVA 950728H901 Operator: DRS
Run Time: 09/12/95 14:49:50
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

FAIL-K DLG 9/11

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4875	25.04	2.563	1.983	.5141	.0935	24.53
SDev	.0020	.18	.013	.013	.0040	.0004	.15
%RSD	.4109	.7351	.4898	.6367	.7787	.4232	.6085
#1	.4891	25.15	2.567	1.986	.5170	.0937	24.66
#2	.4881	25.14	2.573	1.995	.5158	.0936	24.56
#3	.4853	24.83	2.549	1.970	.5095	.0930	24.36
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.80	.4914	-.0420	1.026	1.028	1.014	-.0007
SDev	.07	.0024	.0069	.002	.001	.005	.0008
%RSD	.2632	.4839	16.43	.2140	.1249	.5182	111.7
#1	24.84	.4898	-.0467	1.027	1.028	1.017	-.0015
#2	24.84	.4942	-.0453	1.027	1.030	1.017	-.0009
#3	24.72	.4904	-.0341	1.023	1.027	1.008	.0002
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	20.47	@27.79	.0033	2.030	26.69	.5097
SDev	.0003	.08	.41	.0011	.033	.14	.0027
%RSD	18.23	.4096	1.478	33.16	1.648	.5411	.5293
#1	.0015	20.53	@27.98	.0021	2.052	26.79	.5117
#2	.0017	20.51	@28.07	.0037	2.048	26.76	.5108
#3	.0021	20.38	27.31	.0042	1.992	26.53	.5066
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.032	26.47	.0074	1.051	.0595	2.625	-.0232
SDev	.002	.48	.0061	.008	.0043	.008	.0130
%RSD	.2103	1.831	83.11	.8037	7.190	.3199	55.97
#1	1.032	26.76	.0026	1.055	.0548	2.616	-.0299
#2	1.034	26.74	.0052	1.058	.0605	2.633	-.0314
#3	1.029	25.91	.0143	1.042	.0631	2.627	-.0082
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	2.552	2.495	18.91	-.1076	.5175	-.0115
SDev	.0060	.021	.014	.09	.0236	.0038	.0057
%RSD	96.30	.8310	.5712	.4794	21.91	.7421	49.79
#1	-.0113	2.535	2.510	18.97	-.1336	.5202	-.0140
#2	-.0077	2.576	2.493	18.96	-.1016	.5192	-.0156
#3	.0004	2.546	2.482	18.81	-.0876	.5131	-.0049
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0430	1.003	2.515	.0072	.9938	.0335	.0000
SDev	.0030	.006	.018	.0546	.0042	.0018	.0004
%RSD	7.016	.5713	.7014	754.2	.4209	5.403	1674.
#1	.0398	1.007	2.535	-.0292	.9970	.0314	-.0004
#2	.0432	1.006	2.503	-.0190	.9954	.0345	-.0001
#3	.0458	.9965	2.506	.0700	.9891	.0345	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.057
SDev	.004	.013
%RSD	.3570	.6224
#1	1.017	2.066
#2	1.015	2.063
#3	1.022	2.043
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 02:59:56 PM page 1

Method: ICP1 Sample Name: MCVA 950728H901 Operator: DRS
Run Time: 09/12/95 14:58:37
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DLW 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4846	24.53	2.548	1.969	.5078	.0927	24.35
SDev	.0037	.25	.018	.019	.0047	.0006	.21
%RSD	.7619	1.005	.6936	.9815	.9210	.6149	.8461
#1	.4814	24.37	2.528	1.961	.5047	.0924	24.22
#2	.4886	24.81	2.559	1.991	.5132	.0934	24.59
#3	.4839	24.41	2.558	1.955	.5055	.0924	24.25
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.67	.4973	-.0269	1.026	1.026	1.005	.0010
SDev	.12	.0044	.0069	.004	.005	.010	.0009
%RSD	.4846	.8769	25.68	.4152	.4508	1.009	85.02
#1	24.60	.4990	-.0217	1.024	1.024	.9965	.0021
#2	24.80	.5006	-.0347	1.031	1.032	1.016	.0005
#3	24.59	.4924	-.0242	1.022	1.023	1.002	.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	20.35	26.21	.0061	1.920	26.52	.5062
SDev	.0004	.12	.53	.0011	.039	.20	.0027
%RSD	17.47	.5990	2.040	18.72	2.030	.7604	.5288
#1	.0027	20.27	25.94	.0074	1.894	26.42	.5053
#2	.0019	20.49	26.83	.0059	1.965	26.75	.5092
#3	.0024	20.29	25.87	.0051	1.901	26.39	.5041
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.028	25.57	.0137	1.053	.0583	2.627	-.0004
SDev	.009	.49	.0051	.006	.0248	.013	.0129
%RSD	.8969	1.928	37.67	.5371	42.55	.4977	2986.
#1	1.022	25.23	.0158	1.054	.0449	2.634	.0106
#2	1.039	26.13	.0078	1.059	.0431	2.636	-.0147
#3	1.024	25.34	.0173	1.047	.0869	2.612	.0028
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	2.541	2.466	18.76	-.0494	.5112	.0012
SDev	.0076	.012	.047	.15	.0115	.0047	.0045
%RSD	74.78	.4541	1.887	.7894	23.30	.9207	380.0
#1	.0184	2.529	2.467	18.66	-.0404	.5079	.0031
#2	.0033	2.542	2.513	18.93	-.0454	.5166	-.0040
#3	.0089	2.552	2.420	18.69	-.0624	.5091	.0044
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0367	.9946	2.516	.1962	.9882	.0295	.0002
SDev	.0035	.0082	.018	.1009	.0060	.0095	.0002
%RSD	9.472	.8226	.7125	51.44	.6040	32.33	67.10
#1	.0374	.9888	2.504	.3128	.9843	.0231	.0003
#2	.0329	1.004	2.536	.1406	.9951	.0405	.0001
#3	.0397	.9911	2.507	.1354	.9853	.0249	.0004
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.042
SDev	.007	.015
%RSD	.7124	.7221
#1	1.010	2.032
#2	1.025	2.059
#3	1.019	2.035
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 03:03:47 PM page :

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 15:02:27
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Te, U, Wallhorn
PASS
DLG 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.1934	-.0100	.0096	-.0001	.0002	-.0045
SDev	.0012	.0092	.0083	.0020	.0001	.0000	.0062
%RSD	125.8	4.754	83.31	20.89	193.5	6.546	137.3
#1	.0004	-.1845	-.0018	.0089	.0001	.0002	-.0017
#2	-.0021	-.1930	-.0185	.0119	-.0002	.0002	-.0002
#3	-.0012	-.2029	-.0098	.0081	-.0002	.0003	-.0116
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0116	.0004	1.968	.0008	.0013	-.0051	2.004
SDev	.0018	.0011	.017	.0008	.0007	.0016	.020
%RSD	15.29	277.3	.8549	102.0	55.42	31.10	1.009
#1	.0134	.0016	1.960	.0017	.0005	-.0040	1.986
#2	.0099	-.0006	1.957	.0004	.0016	-.0044	2.001
#3	.0114	.0002	1.987	.0003	.0018	-.0070	2.026
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.991	.0033	-.2557	2.004	.0006	.0750	.0004
SDev	.019	.0006	.1563	.016	.0008	.0137	.0001
%RSD	.9712	18.31	61.11	.8130	134.4	18.23	41.04
#1	1.974	.0040	-.0756	1.990	.0011	.0901	.0004
#2	1.987	.0030	-.3371	1.999	.0011	.0713	.0004
#3	2.012	.0029	-.3545	2.022	-.0003	.0635	.0002
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	-.0072	1.963	.0044	-.0103	.0400	2.144
SDev	.0013	.0168	.017	.0005	.0128	.0064	.018
%RSD	88.20	232.5	.8691	11.86	124.4	15.92	.8250
#1	-.0003	.0119	1.951	.0039	-.0246	.0432	2.156
#2	-.0028	-.0143	1.955	.0049	-.0000	.0327	2.124
#3	-.0012	-.0193	1.983	.0044	-.0062	.0442	2.152
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.024	.0007	.0099	.0406	2.032	.0000	Q1.779
SDev	.009	.0108	.0069	.0008	.040	.0001	.019
%RSD	.4406	1533.	69.94	1.843	1.974	533.1	1.059
#1	2.015	.0128	.0097	.0415	2.064	.0001	Q1.766
#2	2.026	-.0083	.0030	.0405	1.987	.0001	Q1.770
#3	2.032	-.0024	.0168	.0400	2.046	-.0001	1.800
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.066	.0003	.0050	Q8.494	-.0029	Q.5029	.9724
SDev	.053	.0005	.0078	.126	.0011	.0125	.0082
%RSD	1.051	161.9	155.4	1.486	37.49	2.478	.8403
#1	5.022	.0008	.0035	Q8.469	-.0017	Q.4909	.9660
#2	5.051	.0002	-.0019	Q8.382	-.0038	Q.5021	.9695
#3	5.125	-.0001	.0135	Q8.631	-.0030	Q.5158	.9816
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0117
SDev	.0004	.0006
%RSD	27.77	5.423
#1	.0013	-.0121
#2	.0021	-.0110
#3	.0014	-.0121
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 03:07:48 PM page

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 15:06:29
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0020	Q.0921	Q.0723	Q.1167	.0495	.0217	.0061
SDev	.0008	.0074	.0079	.0020	.0003	.0001	.0021
%RSD	40.15	8.072	10.97	1.711	.6569	.5261	34.20
#1	Q-.0013	Q.1001	.0810	Q.1146	.0492	.0216	.0072
#2	Q-.0019	Q.0906	Q.0704	.1186	.0493	.0217	.0075
#3	Q-.0029	Q.0855	Q.0654	Q.1169	.0498	.0218	.0037
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q34.85	Q.0135	-.0142	Q.0202	.0186	Q.0156	-.0032
SDev	.14	.0007	.0050	.0009	.0005	.0010	.0006
%RSD	.3984	4.924	35.12	4.689	2.566	6.667	18.47
#1	Q34.69	.0127	-.0109	Q.0198	.0192	Q.0151	-.0026
#2	Q34.91	Q.0140	-.0117	Q.0213	.0185	Q.0168	-.0033
#3	Q34.95	Q.0136	-.0199	Q.0195	Q.0182	Q.0149	-.0038
Errors	QC Fail	QC Fail	NOCHECK	QC Fail	QC Pass	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	Q.1168	Q1.953	.0010	Q.0110	Q9.940	.0346
SDev	.0003	.0008	.126	.0008	.0011	.031	.0003
%RSD	526.1	.6720	6.459	81.43	10.41	.3111	.9562
#1	.0002	Q.1165	Q2.034	.0019	Q.0102	Q9.906	.0342
#2	.0002	Q.1177	Q2.017	.0006	Q.0124	Q9.947	.0347
#3	-.0003	Q.1163	Q1.807	.0005	Q.0105	Q9.966	.0348
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1025	Q13.06	-.0089	.0563	.0066	Q.0215	-.0588
SDev	.0013	.11	.0036	.0024	.0029	.0109	.0130
%RSD	1.247	.8772	40.86	4.341	43.19	50.90	22.03
#1	Q.1018	Q12.96	-.0098	.0536	.0096	Q.0237	-.0528
#2	Q.1018	Q13.03	-.0049	.0582	.0039	Q.0311	-.0499
#3	.1040	Q13.19	-.0120	.0573	.0064	Q.0096	-.0737
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0239	-.0065	Q-.0004	.0043	-.0859	.2647	-.0124
SDev	.0070	.0043	.0115	.0019	.0250	.0020	.0069
%RSD	29.13	66.01	2799.	43.36	29.07	.7603	55.42
#1	-.0172	-.0040	Q-.0083	.0051	-.0751	.2629	-.0088
#2	-.0235	-.0115	.0128	.0056	-.0682	.2643	-.0081
#3	-.0311	-.0040	Q-.0057	.0022	-.1145	Q.2669	-.0204
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0089	.0070	.0105	-.0653	Q.0262	.0035	-.0027
SDev	.0009	.0001	.0030	.0618	.0008	.0073	.0003
%RSD	10.23	2.175	28.23	94.68	3.076	210.8	10.87
#1	-.0082	.0071	.0084	-.0498	Q.0263	.0117	-.0024
#2	-.0085	.0072	Q.0139	-.0127	Q.0270	.0007	-.0028
#3	-.0099	.0069	.0092	-.1334	Q.0254	-.0021	-.0030
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0849	-.0024
SDev	.0010	.0009
%RSD	1.199	40.10
#1	Q.0847	-.0017
#2	Q.0860	-.0019
#3	Q.0840	-.0035
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

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Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 15:10:57
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	1.885	1.988	1.923	1.007	.9548	1.899
SDev	.0003	.016	.003	.015	.007	.0064	.015
%RSD	46.00	.8521	.1585	.7830	.6486	.6661	.8058
#1	-.0003	1.874	1.989	1.910	1.004	.9511	1.917
#2	-.0008	1.878	1.985	1.918	1.003	.9511	1.892
#3	-.0006	1.903	1.991	1.939	1.015	.9621	1.889

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.903	.9803	.0031	1.034	.5141	2.048	-.0003
SDev	.011	.0052	.0021	.005	.0043	.015	.0002
%RSD	.5847	.5349	66.49	.5204	.8465	.7207	61.06
#1	1.897	.9787	.0007	1.031	.5094	2.039	-.0001
#2	1.895	.9760	.0045	1.030	.5151	2.040	-.0004
#3	1.916	.9862	.0040	1.040	.5179	2.065	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	2.006	5.295	-.0009	2.025	2.087	1.006
SDev	.0000	.012	.122	.0009	.010	.012	.007
%RSD	13.91	.6171	2.305	108.4	.5150	.5684	.7042
#1	.0002	2.002	5.242	-.0017	2.013	2.078	1.002
#2	.0002	1.997	5.434	.0001	2.029	2.081	1.002
#3	.0002	2.020	5.207	-.0010	2.033	2.100	1.014

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.997	8.750	-.0026	2.090	4.751	2.057	-.0046
SDev	.009	.075	.0005	.014	.016	.010	.0017
%RSD	.4404	.8610	18.45	.6655	.3405	.5042	36.46
#1	1.989	8.664	-.0021	2.077	4.768	2.050	-.0028
#2	1.995	8.804	-.0025	2.087	4.736	2.052	-.0049
#3	2.006	8.782	-.0031	2.104	4.750	2.069	-.0062

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	-.0042	1.941	4.891	.0083	2.032	-.0197
SDev	.0011	.0101	.022	.027	.0094	.013	.0109
%RSD	33.08	238.9	1.136	.5518	113.0	.6621	55.28
#1	.0045	.0057	1.953	4.873	.0129	2.024	-.0234
#2	.0031	-.0144	1.915	4.878	.0146	2.025	-.0074
#3	.0023	-.0040	1.954	4.922	-.0025	2.048	-.0281

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0004	1.939	.0102	.9600	.0110	.0001
SDev	.0033	.0002	.019	.0656	.0051	.0042	.0003

%RSD	96.44	46.69	.9650	645.8	.5341	38.00	305.1
#1	.0071	.0002	1.942	.0079	.9567	.0157	.0001
#2	.0005	.0005	1.919	.0768	.9574	.0094	.0004
#3	.0028	.0004	1.956	-.0543	.9659	.0079	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.027	-.0011
SDev	.006	.0003
%RSD	.6311	22.83
#1	1.023	-.0012
#2	1.023	-.0008
#3	1.034	-.0013

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Method: ICP1 Sample Name: SST-ICS-1 9509[illegible]I101 Operator: DRS
Run Time: 09/12/95 15:18:41
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0054	89.85	.1300	.0026	.0006	.0008	.0601
SDev	.0011	1.31	.0079	.0011	.0002	.0000	.0061
%RSD	20.79	1.461	6.044	43.01	31.21	5.877	10.22
#1	-.0058	90.22	.1354	.0015	.0006	.0007	.0579
#2	-.0042	88.39	.1336	.0038	.0009	.0008	.0671
#3	-.0064	90.93	.1210	.0025	.0005	.0007	.0554

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0433	.0103	-.0917	.0078	.0379	-.0143	.0007
SDev	.0011	.0016	.0131	.0016	.0013	.0026	.0011
%RSD	2.477	15.95	14.24	20.08	3.286	18.08	155.0
#1	.0421	.0122	-.0974	.0069	.0369	-.0169	.0003
#2	.0440	.0097	-.0767	.0096	.0375	-.0117	.0020
#3	.0439	.0091	-.1009	.0069	.0393	-.0145	-.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	17.89	.4591	.0098	.0115	.2921	.0021
SDev	.0004	.18	.2480	.0024	.0009	.0087	.0003
%RSD	21.26	.9827	54.02	25.06	8.264	2.972	11.87
#1	.0016	17.94	.3429	.0103	.0119	.2868	.0018
#2	.0024	17.70	.7439	.0119	.0122	.3021	.0022
#3	.0018	18.04	.2906	.0071	.0104	.2873	.0023

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	3639.	.0044	46.46	.1017	.2197	-.3125
SDev	.0022	49.	.0098	.42	.0212	.0112	.0268
%RSD	21.60	1.346	223.4	.9039	20.83	5.088	8.561
#1	.0093	3653.	-.0005	46.59	.0775	.2166	-.3200
#2	.0127	3585.	.0157	45.99	.1168	.2322	-.2829
#3	.0086	3680.	-.0020	46.80	.1108	.2105	-.3348

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0260	.0420	-.0034	.1905	.0003	.0191
SDev	.0104	.0053	.0074	.0078	.0144	.0001	.0100
%RSD	97.52	20.18	17.72	229.0	7.586	40.78	52.25
#1	.0084	.0245	.0337	-.0101	.1806	.0002	.0198
#2	.0220	.0319	.0480	.0052	.2071	.0004	.0286
#3	.0016	.0218	.0443	-.0053	.1838	.0002	.0088

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6802	.0033	.2150	44.54	.0053	.0681	.0051
SDev	.0070	.0006	.0152	.49	.0014	.0060	.0005

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%RSD	1.024	17.09	7.072	1.100	26.89	8.812	10.35
#1	.6790	.0032	.2318	44.76	.0045	.0615	.0045
#2	.6739	.0039	.2021	43.97	.0069	.0733	.0056
#3	.6877	.0028	.2111	44.87	.0045	.0694	.0051

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0273	9.329
SDev	.0025	.114
%RSD	9.007	1.220
#1	-.0298	9.368
#2	-.0249	9.201
#3	-.0272	9.418

Analysis Report Tue 09-12-95 03:25:20 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 15:24:00
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0041	-.0048	-.0005	-.0001	.0000	.0036
SDev	.0003	.0031	.0057	.0014	.0001	.0000	.0065
%RSD	73.43	74.09	118.0	287.8	85.95	2.626	181.4
#1	.0005	-.0006	-.0052	-.0018	-.0000	.0000	.0049
#2	.0001	-.0062	.0011	.0010	-.0000	.0000	.0093
#3	.0007	-.0055	-.0102	-.0006	-.0002	.0000	-.0035

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	.0011	.0220	-.0004	-.0019	-.0031	-.0000
SDev	.0007	.0014	.0040	.0004	.0010	.0010	.0004
%RSD	20.47	128.6	17.93	93.90	53.80	33.65	1970.
#1	-.0025	.0028	.0181	-.0006	-.0030	-.0025	.0002
#2	-.0037	.0002	.0219	.0000	-.0013	-.0025	.0002
#3	-.0034	.0004	.0260	-.0006	-.0013	-.0043	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0012	.0232	-.0002	.0006	-.0096	.0001
SDev	.0001	.0005	.0439	.0002	.0004	.0029	.0001
%RSD	46.76	43.47	188.7	101.3	69.59	30.69	102.3
#1	.0003	-.0007	.0639	-.0003	.0004	-.0103	.0001
#2	.0002	-.0012	.0291	.0000	.0011	-.0121	.0001
#3	.0002	-.0018	-.0232	-.0003	.0004	-.0064	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.1079	.0002	.0021	.0003	.0001	.0013
SDev	.0007	.0091	.0005	.0014	.0275	.0018	.0076
%RSD	42.67	8.459	222.6	66.53	9042.	1596.	574.8
#1	-.0011	.1181	.0001	.0036	-.0144	.0022	.0075
#2	-.0014	.1006	-.0002	.0010	-.0167	-.0008	.0036
#3	-.0024	.1050	.0007	.0016	.0320	-.0010	-.0071

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0017	-.0015	-.0188	.0181	.0001	-.0029
SDev	.0020	.0056	.0072	.0012	.0191	.0000	.0043
%RSD	92.22	333.0	462.9	6.399	105.6	.5646	145.9
#1	.0041	-.0027	-.0098	-.0191	.0305	.0001	.0002
#2	.0025	.0080	.0033	-.0198	-.0039	.0001	-.0078
#3	.0000	-.0002	.0019	-.0174	.0276	.0001	-.0012

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	-.0000	-.0027	.0428	.0003	.0073	.0003
SDev	.0033	.0000	.0119	.0046	.0002	.0051	.0002

%RSD	43.29	8.428	439.3	10.82	55.17	69.82	67.59
#1	-.0069	-.0000	-.0154	.0422	.0004	.0051	.0005
#2	-.0111	-.0000	-.0008	.0477	.0005	.0131	.0002
#3	-.0047	-.0000	.0081	.0385	.0001	.0036	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	.0005
SDev	.0006	.0001
%RSD	139.3	25.59
#1	.0011	.0005
#2	.0002	.0006
#3	.0000	.0004

Analysis Report Tue 09-12-95 03:27:31 PM page

Method: ICP1 Sample Name: 95-007941-N3 @5 Operator: DRS
Run Time: 09/12/95 15:26:11
Comment: METHOD BLANK @5X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0077	.0365	.0058	.1309	.0024	.0002	.0100
SDev	.0014	.0049	.0099	.0026	.0003	.0000	.0100
%RSD	18.52	13.43	171.8	1.990	12.51	18.08	99.27
#1	-.0086	.0324	.0167	.1327	.0024	.0002	.0086
#2	-.0084	.0351	.0033	.1279	.0022	.0001	.0207
#3	-.0060	.0419	-.0027	.1320	.0028	.0002	.0009

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8145	.0014	-.1310	.0032	.0096	.0022	.0049
SDev	.0054	.0007	.0094	.0017	.0028	.0003	.0010
%RSD	.6651	49.58	7.156	52.24	29.20	11.43	20.35
#1	.8180	.0011	-.1321	.0027	.0063	.0021	.0045
#2	.8172	.0009	-.1398	.0019	.0109	.0020	.0042
#3	.8082	.0021	-.1212	.0051	.0114	.0025	.0061

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0640	.5986	.0059	.0065	.0274	.0019
SDev	.0003	.0005	.2166	.0014	.0008	.0045	.0002
%RSD	16.97	.7569	36.18	24.35	12.71	16.47	10.16
#1	.0016	.0644	.4649	.0053	.0061	.0255	.0017
#2	.0017	.0641	.4824	.0049	.0061	.0242	.0019
#3	.0022	.0634	.8485	.0076	.0075	.0325	.0021

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	2171.	.0221	.0976	.0271	.0291	.0062
SDev	.0003	19.	.0055	.0015	.0061	.0049	.0237
%RSD	9.561	.8543	25.00	1.561	22.55	16.94	383.7
#1	.0034	2181.	.0182	.0963	.0250	.0256	-.0149
#2	.0034	2181.	.0198	.0993	.0339	.0270	.0017
#3	.0040	2149.	.0285	.0972	.0223	.0348	.0318

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0185	.0159	.0162	.0467	.1318	.0132	.0140
SDev	.0030	.0101	.0072	.0039	.0214	.0002	.0035
%RSD	16.43	63.37	44.25	8.318	16.24	1.414	25.38
#1	.0190	.0181	.0083	.0423	.1186	.0134	.0108
#2	.0152	.0049	.0180	.0491	.1202	.0131	.0133
#3	.0213	.0247	.0224	.0489	.1564	.0130	.0178

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0572	.0029	.0103	-.0574	.0030	.0108	.0019
SDev	.0048	.0004	.0054	.1048	.0007	.0092	.0004

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%RSD	8.411	15.44	52.87	182.5	24.16	85.98	22.95
#1	.0591	.0027	.0118	-.1369	.0025	.0056	.0019
#2	.0608	.0025	.0042	-.0968	.0027	.0214	.0015
#3	.0517	.0034	.0147	.0614	.0039	.0052	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0037	9.937
SDev	.0006	.092
%RSD	15.26	.9262
#1	.0043	9.989
#2	.0032	9.992
#3	.0035	9.831

Analysis Report Tue 09-12-95 03:31:45 PM page 1

Method: ICP1 Sample Name: 95-007941-N3 @2 Operator: DRS
Run Time: 09/12/95 15:30:25
Comment: METHOD BLANK @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0166	.0900	.0215	.3049	.0061	.0004	.0353
SDev	.0014	.0035	.0082	.0023	.0003	.0000	.0026
%RSD	8.271	3.854	37.99	.7654	4.582	7.680	7.287
#1	-.0151	.0925	.0268	.3027	.0064	.0004	.0351
#2	-.0178	.0860	.0121	.3045	.0059	.0004	.0328
#3	-.0168	.0915	.0256	.3074	.0059	.0004	.0379

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.950	.0039	-.3126	.0087	.0257	.0119	.0126
SDev	.005	.0007	.0097	.0003	.0025	.0020	.0006
%RSD	.2600	17.73	3.101	3.885	9.816	17.08	4.757
#1	1.945	.0043	-.3028	.0090	.0263	.0134	.0133
#2	1.955	.0043	-.3126	.0083	.0229	.0128	.0122
#3	1.951	.0031	-.3222	.0089	.0279	.0096	.0124

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.1427	1.761	.0153	.0146	.0604	.0045
SDev	.0003	.0003	.192	.0010	.0019	.0051	.0001
%RSD	6.916	.2016	10.91	6.353	13.05	8.412	2.576
#1	.0050	.1426	1.982	.0164	.0168	.0600	.0046
#2	.0044	.1425	1.633	.0149	.0132	.0556	.0044
#3	.0046	.1430	1.668	.0146	.0139	.0657	.0044

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0071	4186.	.0641	.2299	.0762	.0623	.0238
SDev	.0003	53.	.0064	.0036	.0011	.0052	.0176
%RSD	3.987	1.273	9.926	1.585	1.426	8.374	73.69
#1	.0072	4125.	.0715	.2326	.0774	.0683	.0434
#2	.0068	4220.	.0606	.2314	.0758	.0594	.0093
#3	.0073	4214.	.0603	.2258	.0753	.0591	.0189

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0504	.0398	.0452	.1445	.2567	.0301	.0267
SDev	.0063	.0020	.0057	.0028	.0162	.0001	.0047
%RSD	12.47	5.034	12.57	1.948	6.325	.4765	17.42
#1	.0576	.0398	.0409	.1476	.2735	.0300	.0290
#2	.0460	.0418	.0430	.1420	.2556	.0302	.0214
#3	.0476	.0378	.0516	.1440	.2411	.0302	.0299

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1445	.0071	.0249	.0390	.0074	.0291	.0047
SDev	.0036	.0005	.0023	.1270	.0009	.0052	.0001

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%RSD	2.482	7.612	9.261	325.3	12.76	17.86	2.678
#1	.1467	.0077	.0233	.1525	.0085	.0351	.0048
#2	.1404	.0069	.0240	.0627	.0068	.0260	.0048
#3	.1465	.0066	.0276	-.0981	.0069	.0261	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0102	22.98
SDev	.0007	.15
%RSD	7.013	.6575
#1	.0094	22.81
#2	.0105	23.09
#3	.0108	23.05

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Method: ICP1 Sample Name: 95-007941-N1 @10 Operator: DRS
Run Time: 09/12/95 15:35:23
Comment: SEGMENT 1 @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	15.30	.0244	.1030	.0028	.0001	.0081
SDev	.0005	.08	.0018	.0026	.0001	.0000	.0022
%RSD	10.02	.5478	7.400	2.495	2.442	8.801	26.82
#1	.0047	15.36	.0229	.1002	.0029	.0002	.0090
#2	.0057	15.34	.0239	.1035	.0028	.0002	.0098
#3	.0053	15.21	.0264	.1053	.0029	.0001	.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4168	.0013	.0375	.0045	.0195	.0110	.0050
SDev	.0011	.0002	.0041	.0010	.0016	.0013	.0005
%RSD	.2700	16.50	10.82	21.84	8.214	11.98	10.51
#1	.4156	.0014	.0338	.0034	.0211	.0110	.0048
#2	.4178	.0010	.0369	.0052	.0195	.0097	.0047
#3	.4169	.0013	.0419	.0049	.0179	.0123	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.1575	1.075	.0085	.0099	.0330	.0037
SDev	.0001	.0010	.136	.0024	.0014	.0035	.0002
%RSD	7.806	.6241	12.67	28.68	13.76	10.54	4.848
#1	.0015	.1572	1.005	.0061	.0093	.0368	.0039
#2	.0017	.1586	.9880	.0084	.0115	.0299	.0036
#3	.0018	.1567	1.232	.0109	.0090	.0324	.0036

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	1133.	.0310	.0701	.5635	.0441	.0876
SDev	.0004	9.	.0049	.0009	.0092	.0028	.0147
%RSD	9.684	.8036	15.83	1.303	1.630	6.279	16.75
#1	.0043	1140.	.0258	.0711	.5626	.0411	.0727
#2	.0037	1135.	.0316	.0698	.5548	.0447	.0881
#3	.0037	1123.	.0356	.0694	.5731	.0466	.1020

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0438	.0162	.0058	.3741	.1457	.0088	.0213
SDev	.0040	.0037	.0116	.0037	.0292	.0001	.0018
%RSD	9.104	22.63	200.9	.9811	20.02	.8705	8.339
#1	.0408	.0147	.0185	.3703	.1531	.0089	.0232
#2	.0423	.0204	-.0040	.3744	.1136	.0089	.0207
#3	.0483	.0136	.0027	.3777	.1705	.0088	.0198

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0074	.0374	.5447	.0105	.0200	.0019
SDev	.0039	.0001	.0016	.1110	.0005	.0032	.0003

%RSD	197.0	1.871	4.363	20.37	4.437	15.90	15.51
#1	-.0000	.0075	.0364	.4859	.0103	.0212	.0018
#2	.0005	.0074	.0366	.4755	.0101	.0164	.0018
#3	-.0065	.0073	.0393	.6728	.0110	.0224	.0023

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0059	.0506
SDev	.0013	.0042
%RSD	22.65	8.362
#1	.0044	.0470
#2	.0061	.0495
#3	.0070	.0553

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Method: ICP1 Sample Name: 95-007941-N1 @2 Operator: DRS
Run Time: 09/12/95 15:39:53
Comment: SEGMENT 1 @2X DILL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	69.08	.1105	.4589	.0102	.0004	.0397
SDev	.0007	.42	.0019	.0044	.0001	.0000	.0034
%RSD	5.852	.6144	1.765	.9565	.6999	4.600	8.447
#1	.0110	69.28	.1124	.4619	.0102	.0004	.0432
#2	.0123	68.59	.1107	.4538	.0102	.0005	.0365
#3	.0121	69.36	.1085	.4608	.0103	.0004	.0394

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.031	.0049	.0983	.0132	.0842	.0596	.0122
SDev	.011	.0014	.0059	.0008	.0026	.0005	.0004
%RSD	.5435	28.11	6.036	6.347	3.069	.8243	3.035
#1	2.033	.0059	.0918	.0127	.0813	.0601	.0119
#2	2.020	.0033	.1035	.0142	.0848	.0591	.0126
#3	2.041	.0056	.0996	.0128	.0864	.0595	.0122

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	.6802	2.976	.0241	.0342	.1232	.0158
SDev	.0002	.0046	.070	.0009	.0017	.0061	.0002
%RSD	4.678	.6792	2.344	3.721	4.971	4.928	1.309
#1	.0037	.6812	2.906	.0231	.0329	.1233	.0157
#2	.0040	.6752	3.045	.0246	.0336	.1171	.0158
#3	.0040	.6843	2.976	.0246	.0362	.1292	.0161

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0161	3963.	.0824	.3127	2.528	.1533	.2165
SDev	.0007	11.	.0027	.0020	.035	.0034	.0126
%RSD	4.529	.2716	3.269	.6530	1.401	2.191	5.835
#1	.0153	3970.	.0822	.3117	2.531	.1536	.2029
#2	.0168	3951.	.0852	.3113	2.491	.1498	.2279
#3	.0163	3968.	.0799	.3150	2.561	.1565	.2187

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1010	.0473	.0479	1.753	.3154	.0383	.0467
SDev	.0033	.0102	.0082	.015	.0143	.0002	.0049
%RSD	3.231	21.59	17.13	.8807	4.540	.5518	10.52
#1	.1000	.0438	.0386	1.754	.2989	.0384	.0410
#2	.1046	.0589	.0506	1.737	.3228	.0380	.0495
#3	.0983	.0393	.0543	1.768	.3245	.0384	.0495

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0295	.1690	1.350	.0376	.0419	.0049
SDev	.0047	.0002	.0067	.111	.0001	.0092	.0003

%RSD	171.5	.7415	3.970	8.237	.2668	21.82	5.625
#1	.0033	.0297	.1613	1.269	.0375	.0316	.0049
#2	-.0022	.0295	.1736	1.476	.0377	.0454	.0051
#3	.0072	.0293	.1721	1.303	.0376	.0489	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0279	.2101
SDev	.0011	.0054
%RSD	3.966	2.596
#1	.0268	.2071
#2	.0290	.2069
#3	.0280	.2164

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Method: ICP1 Sample Name: 95-007941-N1 ~~SPK02.5~~ P.585 BK 9/11/95 Operator: DRS
Run Time: 09/12/95 15:45:55 5x DB 9/11/95
Comment: SEGMENT 1 POST DIGEST SPIKE ~~02.5~~ DIL(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	34.23	.0884	.1783	.0065	.0007	.0493
SDev	.0005	.22	.0091	.0024	.0001	.0000	.0079
%RSD	3.118	.6388	10.34	1.371	1.072	1.654	16.03
#1	.0172	33.98	.0828	.1809	.0065	.0007	.0489
#2	.0162	34.32	.0835	.1780	.0066	.0007	.0415
#3	.0170	34.39	.0989	.1760	.0065	.0007	.0573

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.902	.2187	.1187	.0159	1.293	.0248	.0144
SDev	.033	.0032	.0019	.0011	.013	.0005	.0003
%RSD	.6759	1.484	1.647	6.736	1.020	2.160	2.262
#1	4.865	.2150	.1206	.0169	1.280	.0251	.0146
#2	4.912	.2202	.1167	.0147	1.295	.0242	.0140
#3	4.928	.2210	.1187	.0161	1.306	.0250	.0146

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.2788	18.78	.0305	.0230	.2067	.0901
SDev	.0001	.0022	.11	.0005	.0002	.0099	.0007
%RSD	2.976	.7855	.5671	1.641	.9030	4.809	.7404
#1	.0048	.2763	18.67	.0307	.0229	.2167	.0893
#2	.0050	.2805	18.81	.0299	.0232	.2067	.0902
#3	.0051	.2795	18.88	.0308	.0229	.1968	.0906

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0107	1853.	.0972	4.430	1.019	4.587	.1621
SDev	.0010	10.	.0071	.038	.011	.046	.0087
%RSD	9.540	.5465	7.289	.8670	1.122	.9930	5.364
#1	.0103	1841.	.1036	4.386	1.027	4.535	.1722
#2	.0119	1858.	.0896	4.444	1.006	4.617	.1572
#3	.0100	1859.	.0984	4.459	1.023	4.610	.1570

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1250	.0451	.0633	9.100	.4699	.0156	.0621
SDev	.0030	.0118	.0052	.063	.0067	.0001	.0045
%RSD	2.366	26.13	8.291	.6950	1.423	.6936	7.203
#1	.1263	.0315	.0616	9.027	.4774	.0155	.0647
#2	.1216	.0512	.0591	9.129	.4646	.0156	.0570
#3	.1271	.0525	.0691	9.143	.4676	.0158	.0647

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2415	.0170	.1109	17.17	.0247	.0489	.0074
SDev	.0112	.0002	.0077	.12	.0003	.0146	.0005

%RSD	4.629	1.409	6.990	.7228	1.256	29.80	6.773
#1	.2431	.0172	.1021	17.03	.0247	.0390	.0076
#2	.2296	.0168	.1167	17.26	.0244	.0420	.0068
#3	.2517	.0172	.1138	17.23	.0250	.0657	.0078

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0097	.4829
SDev	.0010	.0046
%RSD	10.46	.9561
#1	.0086	.4776
#2	.0099	.4864
#3	.0106	.4846

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Method: ICP1 Sample Name: 95-007941-N2 @10 Operator: DRS
Run Time: 09/12/95 15:51:39
Comment: SEGMENT 1 DUP @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	13.75	.0373	.1086	.0043	.0003	.0343
SDev	.0006	.11	.0032	.0027	.0001	.0000	.0067
%RSD	5.706	.8281	8.507	2.493	3.239	3.564	19.65
#1	.0096	13.63	.0406	.1085	.0044	.0003	.0360
#2	.0102	13.77	.0342	.1059	.0042	.0003	.0400
#3	.0108	13.86	.0372	.1113	.0042	.0003	.0269

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3780	.0027	.0654	.0098	.0199	.0065	.0118
SDev	.0023	.0004	.0047	.0008	.0023	.0008	.0004
%RSD	.6112	15.59	7.115	8.624	11.60	12.60	3.624
#1	.3756	.0030	.0699	.0107	.0173	.0074	.0123
#2	.3782	.0030	.0658	.0096	.0218	.0059	.0116
#3	.3802	.0023	.0606	.0091	.0205	.0061	.0115

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	.1542	2.551	.0203	.0152	.0584	.0038
SDev	.0001	.0004	.113	.0011	.0006	.0008	.0002
%RSD	1.428	.2395	4.446	5.559	3.623	1.286	4.735
#1	.0035	.1537	2.662	.0214	.0147	.0581	.0037
#2	.0036	.1545	2.557	.0204	.0158	.0579	.0037
#3	.0036	.1543	2.435	.0192	.0151	.0593	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	1015.	.0711	.0775	.0925	.0822	.1964
SDev	.0004	7.	.0068	.0007	.0143	.0029	.0098
%RSD	6.010	.6419	9.565	.9378	15.51	3.595	4.982
#1	.0072	1009.	.0785	.0767	.1064	.0790	.2077
#2	.0077	1014.	.0651	.0781	.0778	.0848	.1911
#3	.0068	1022.	.0699	.0778	.0933	.0827	.1904

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0971	.0427	.0408	.4216	.3062	.0079	.0471
SDev	.0016	.0060	.0030	.0023	.0100	.0001	.0126
%RSD	1.656	14.00	7.314	.5447	3.249	.7506	26.83
#1	.0984	.0476	.0409	.4223	.3141	.0080	.0611
#2	.0976	.0443	.0378	.4234	.2950	.0079	.0436
#3	.0953	.0361	.0438	.4190	.3094	.0079	.0365

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	.0107	.0467	1.158	.0118	.0329	.0045
SDev	.0032	.0001	.0073	.088	.0004	.0066	.0001

%RSD	26.51	1.427	15.66	7.630	3.558	20.01	3.357
#1	.0094	.0107	.0441	1.255	.0121	.0349	.0045
#2	.0157	.0105	.0549	1.139	.0120	.0256	.0046
#3	.0115	.0108	.0409	1.081	.0113	.0383	.0043

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0046	1.039
SDev	.0005	.008
%RSD	11.87	.7923
#1	.0050	1.034
#2	.0048	1.035
#3	.0040	1.049

Analysis Report

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Method: ICP1 Sample Name: 95-007941-N2 @2 Operator: DRS
Run Time: 09/12/95 15:59:28
Comment: SEGMENT 1 DUP @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	64.05	.1212	.4910	.0109	.0005	.0524
SDev	.0011	.78	.0107	.0039	.0002	.0000	.0031
%RSD	10.08	1.213	8.870	.8014	1.913	1.621	5.934
#1	.0101	64.58	.1336	.4924	.0108	.0005	.0493
#2	.0123	63.16	.1143	.4865	.0112	.0005	.0555
#3	.0113	64.41	.1157	.4940	.0108	.0005	.0522

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.881	.0046	.0468	.0163	.0801	.0203	.0175
SDev	.013	.0010	.0071	.0010	.0029	.0004	.0012
%RSD	.6947	20.82	15.19	6.148	3.663	2.245	6.958
#1	1.889	.0047	.0395	.0159	.0818	.0198	.0161
#2	1.866	.0055	.0537	.0175	.0817	.0202	.0185
#3	1.889	.0036	.0472	.0156	.0767	.0207	.0178

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	.6675	3.894	.0303	.0379	.1481	.0136
SDev	.0003	.0067	.213	.0014	.0004	.0059	.0003
%RSD	5.275	.9988	5.472	4.457	1.096	3.998	2.082
#1	.0055	.6721	3.708	.0292	.0376	.1415	.0137
#2	.0061	.6598	4.126	.0318	.0376	.1501	.0138
#3	.0058	.6705	3.847	.0299	.0383	.1529	.0133

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0179	3829.	.1100	.3190	.3381	.1632	.2761
SDev	.0006	28.	.0054	.0040	.0069	.0086	.0173
%RSD	3.231	.7305	4.886	1.241	2.053	5.297	6.258
#1	.0181	3849.	.1049	.3166	.3324	.1545	.2586
#2	.0183	3797.	.1156	.3168	.3458	.1717	.2931
#3	.0172	3841.	.1094	.3236	.3362	.1633	.2765

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1352	.0525	.0729	1.963	.4273	.0332	.0717
SDev	.0090	.0053	.0031	.015	.0132	.0003	.0022
%RSD	6.675	10.10	4.307	.7429	3.098	.9546	3.092
#1	.1283	.0503	.0757	1.969	.4138	.0334	.0697
#2	.1454	.0586	.0695	1.946	.4402	.0329	.0741
#3	.1319	.0487	.0734	1.973	.4279	.0335	.0713

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0329	.0330	.1665	1.577	.0259	.0391	.0068
SDev	.0008	.0004	.0052	.104	.0004	.0099	.0004

%RSD	2.406	1.231	3.146	6.618	1.393	25.36	6.358
#1	.0327	.0326	.1610	1.523	.0255	.0278	.0064
#2	.0338	.0329	.1715	1.697	.0262	.0462	.0073
#3	.0323	.0334	.1669	1.510	.0260	.0435	.0067

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0236	5.014
SDev	.0011	.046
%RSD	4.822	.9146
#1	.0231	5.034
#2	.0228	4.962
#3	.0249	5.047

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Method: ICP1 Sample Name: 95-007943-N1 @10 Operator: DRS
Run Time: 09/12/95 16:04:16
Comment: QTR SEG 2D @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	14.48	.0398	.0394	.0055	.0004	.0374
SDev	.0004	.05	.0060	.0017	.0002	.0000	.0029
%RSD	2.830	.3425	15.01	4.344	3.824	6.723	7.610
#1	.0123	14.53	.0462	.0414	.0053	.0004	.0396
#2	.0131	14.44	.0388	.0384	.0057	.0004	.0342
#3	.0127	14.47	.0344	.0385	.0057	.0004	.0384

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4089	.0043	.0797	.0131	.0440	.0102	.0158
SDev	.0004	.0004	.0012	.0006	.0011	.0009	.0003
%RSD	.0949	9.076	1.506	4.620	2.548	9.257	1.855
#1	.4092	.0042	.0791	.0124	.0430	.0112	.0155
#2	.4090	.0047	.0789	.0136	.0438	.0100	.0160
#3	.4084	.0039	.0810	.0132	.0452	.0094	.0160

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.1416	3.487	.0265	.0228	.0717	.0042
SDev	.0001	.0003	.126	.0014	.0008	.0041	.0001
%RSD	2.130	.2107	3.617	5.474	3.294	5.758	1.868
#1	.0046	.1420	3.342	.0248	.0219	.0670	.0042
#2	.0048	.1415	3.551	.0275	.0230	.0735	.0041
#3	.0048	.1414	3.568	.0271	.0234	.0747	.0041

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	989.1	.0947	.1343	.1175	.1041	.2657
SDev	.0014	3.6	.0025	.0043	.0045	.0085	.0133
%RSD	14.46	.3630	2.674	3.168	3.803	8.174	5.001
#1	.0098	992.9	.0925	.1374	.1184	.0976	.2504
#2	.0079	985.7	.0942	.1294	.1214	.1137	.2737
#3	.0105	988.8	.0975	.1360	.1126	.1009	.2731

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1224	.0510	.0479	.2931	.4024	.0094	.0590
SDev	.0037	.0096	.0109	.0036	.0093	.0001	.0048
%RSD	3.000	18.82	22.73	1.213	2.309	.6901	8.079
#1	.1183	.0514	.0427	.2905	.4078	.0094	.0645
#2	.1236	.0412	.0604	.2971	.3917	.0094	.0563
#3	.1253	.0603	.0406	.2916	.4078	.0095	.0562

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0138	.0100	.0572	1.474	.0123	.0310	.0059
SDev	.0028	.0002	.0014	.034	.0004	.0072	.0005

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%RSD	20.16	2.268	2.490	2.318	3.138	23.27	8.128
#1	.0109	.0101	.0588	1.486	.0119	.0326	.0054
#2	.0165	.0102	.0561	1.435	.0123	.0231	.0060
#3	.0139	.0098	.0569	1.500	.0127	.0372	.0063

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0084	2.019
SDev	.0004	.006
%RSD	4.677	.2946
#1	.0082	2.021
#2	.0088	2.012
#3	.0081	2.023

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Method: ICP1 Sample Name: 95-007943-N1 @2 Operator: DRS
Run Time: 09/12/95 16:10:21
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0089	68.68	.1264	.1656	.0151	.0007	.0679
SDev	.0008	.29	.0029	.0017	.0001	.0000	.0074
%RSD	8.487	.4219	2.256	1.036	.8254	1.365	10.85
#1	.0084	68.97	.1263	.1676	.0152	.0007	.0638
#2	.0098	68.39	.1236	.1643	.0149	.0007	.0764
#3	.0086	68.68	.1293	.1650	.0151	.0007	.0635

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.984	.0064	-.0100	.0217	.1985	.0226	.0206
SDev	.006	.0009	.0040	.0003	.0052	.0009	.0007
%RSD	.2848	13.59	40.61	1.511	2.637	4.067	3.245
#1	1.989	.0061	-.0135	.0213	.2026	.0217	.0199
#2	1.978	.0073	-.0055	.0219	.1926	.0236	.0212
#3	1.985	.0056	-.0108	.0218	.2002	.0226	.0207

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.6137	4.981	.0339	.0674	.1440	.0143
SDev	.0002	.0014	.076	.0011	.0009	.0014	.0001
%RSD	2.555	.2306	1.526	3.165	1.346	.9999	.7181
#1	.0064	.6151	4.894	.0327	.0675	.1443	.0144
#2	.0067	.6123	5.033	.0347	.0665	.1453	.0142
#3	.0067	.6135	5.016	.0343	.0683	.1425	.0142

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0214	3820.	.1222	.6003	.2627	.1992	.2931
SDev	.0009	11.	.0005	.0025	.0106	.0014	.0076
%RSD	4.059	.2912	.4393	.4219	4.022	.6811	2.584
#1	.0211	3831.	.1217	.6028	.2719	.1988	.2873
#2	.0224	3809.	.1227	.6004	.2512	.2007	.2902
#3	.0207	3819.	.1222	.5977	.2651	.1981	.3017

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1455	.0659	.0751	1.271	.4903	.0395	.0717
SDev	.0066	.0066	.0048	.004	.0070	.0002	.0026
%RSD	4.572	10.02	6.387	.2907	1.434	.4623	3.636
#1	.1385	.0730	.0755	1.273	.4822	.0396	.0689
#2	.1518	.0647	.0797	1.267	.4953	.0393	.0723
#3	.1463	.0599	.0701	1.273	.4933	.0395	.0740

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0624	.0251	.1842	1.702	.0168	.0505	.0079
SDev	.0059	.0004	.0050	.092	.0004	.0064	.0003

%RSD	9.400	1.674	2.738	5.376	2.322	12.67	4.188
#1	.0615	.0248	.1900	1.599	.0163	.0497	.0078
#2	.0687	.0249	.1816	1.734	.0169	.0446	.0077
#3	.0571	.0256	.1809	1.774	.0171	.0573	.0083

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0366	9.431
SDev	.0008	.034
%RSD	2.230	.3609
#1	.0360	9.457
#2	.0375	9.392
#3	.0362	9.443

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Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:15:45
Comment:
Mode: CONC Corr. Factor: 1 SLUDGE (Na2O2 FUSION) K.SILVERS

Fail Beti, S. AJS 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4630	23.03	2.448	1.835	.4719	Q.0879	23.06
SDev	.0074	.54	.043	.048	.0123	.0020	.45
%RSD	1.592	2.341	1.761	2.593	2.603	2.281	1.946
#1	.4551	Q22.44	2.402	Q1.781	.4585	Q.0857	22.59
#2	.4642	23.15	2.453	1.851	.4746	Q.0882	23.12
#3	.4697	23.50	2.488	1.872	.4826	Q.0897	23.48
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.72	.4755	.0153	.9869	.9846	.9354	.0069
SDev	.40	.0084	.0170	.0169	.0202	.0233	.0018
%RSD	1.693	1.773	111.0	1.716	2.051	2.486	25.49
#1	23.29	.4661	.0340	.9687	.9647	.9092	.0089
#2	23.80	.4781	.0111	.9896	.9840	.9433	.0063
#3	24.08	.4823	.0008	1.002	1.005	.9537	.0056
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	19.35	24.89	.0154	Q1.744	25.23	.4816
SDev	.0004	.40	.07	.0033	.047	.52	.0097
%RSD	11.34	2.051	.2802	21.44	2.670	2.081	2.025
#1	.0044	18.92	24.82	.0192	Q1.693	24.66	.4711
#2	.0038	19.42	24.89	.0139	Q1.756	25.34	.4834
#3	.0035	19.71	24.96	.0131	Q1.784	25.69	.4903
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Fail	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9796	23.60	.0499	1.012	.1161	2.564	.1025
SDev	.0234	.57	.0110	.018	.0291	.026	.0356
%RSD	2.385	2.421	22.14	1.823	25.05	1.009	34.77
#1	.9533	22.95	.0623	.9962	.1476	2.535	.1413
#2	.9876	23.79	.0459	1.007	.1103	2.572	.0948
#3	.9979	24.05	.0413	1.032	.0904	2.584	.0713
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0582	2.435	2.368	Q17.86	.1156	.4775	.0274
SDev	.0139	.060	.040	.35	.0671	.0122	.0080
%RSD	23.88	2.452	1.669	1.974	58.05	2.561	29.20
#1	.0730	2.375	2.336	Q17.47	.1796	.4643	.0337
#2	.0565	2.435	2.356	Q17.94	.1215	.4797	.0301
#3	.0453	2.495	2.412	18.16	.0457	.4884	.0184
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0391	.9384	2.369	.7705	.9398	.0475	.0025
SDev	.0017	.0221	.049	.1651	.0192	.0034	.0006
%RSD	4.245	2.358	2.058	21.43	2.049	7.078	23.27
#1	.0405	.9144	2.313	.9521	.9190	.0486	.0031
#2	.0373	.9427	2.387	.7301	.9434	.0501	.0023
#3	.0396	.9581	2.406	.6293	.9570	.0437	.0020
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9797	1.978
SDev	.0197	.023
%RSD	2.007	1.177
#1	.9573	1.953
#2	.9876	1.984
#3	.9941	1.998
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:19:31
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4901	25.25	2.566	1.991	.5209	.0940	24.72
SDev	.0067	.44	.032	.037	.0109	.0015	.38
%RSD	1.372	1.724	1.260	1.856	2.089	1.644	1.552
#1	.4844	24.87	2.543	1.956	.5114	.0927	24.41
#2	.4885	25.17	2.552	1.986	.5187	.0935	24.60
#3	.4975	25.73	2.603	2.030	.5328	.0957	25.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.81	.4996	-.0436	1.034	1.036	1.029	-.0017
SDev	.27	.0057	.0134	.014	.017	.019	.0019
%RSD	1.097	1.137	30.71	1.382	1.644	1.895	109.6
#1	24.61	.4946	-.0340	1.026	1.026	1.012	.0001
#2	24.71	.4984	-.0380	1.026	1.026	1.024	-.0016
#3	25.12	.5058	-.0590	1.050	1.056	1.050	-.0036
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	20.59	Q29.12	.0024	2.105	26.93	.5113
SDev	.0006	.31	.39	.0030	.048	.38	.0076
%RSD	46.93	1.484	1.324	126.0	2.264	1.403	1.481
#1	.0019	20.35	Q28.76	.0053	2.053	26.63	.5049
#2	.0013	20.48	Q29.53	.0025	2.114	26.82	.5092
#3	.0007	20.94	Q29.08	-.0007	2.147	27.35	.5196
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.036	Q28.27	-.0026	1.060	.0477	2.622	-.0531
SDev	.014	.49	.0101	.012	.0219	.027	.0310
%RSD	1.369	1.719	390.7	1.127	45.79	1.044	58.43
#1	1.026	Q27.73	.0067	1.056	.0312	2.618	-.0270
#2	1.031	Q28.40	-.0011	1.051	.0395	2.598	-.0449
#3	1.052	Q28.67	-.0134	1.074	.0725	2.652	-.0874
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0172	2.568	2.508	19.08	-.1246	.5258	-.0175
SDev	.0119	.044	.049	.26	.0520	.0108	.0125
%RSD	69.55	1.727	1.946	1.357	41.71	2.056	71.42
#1	-.0061	2.528	2.476	18.86	-.0882	.5166	-.0071
#2	-.0156	2.560	2.484	19.01	-.1015	.5231	-.0140
#3	-.0298	2.616	2.564	19.36	-.1841	.5377	-.0313
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0394	1.014	2.537	-.1062	1.000	.0262	-.0007
SDev	.0022	.018	.033	.2002	.015	.0075	.0008
%RSD	5.520	1.746	1.291	188.6	1.513	28.53	114.5
#1	.0419	1.000	2.500	.0661	.9881	.0346	.0001
#2	.0383	1.008	2.563	-.0588	.9959	.0236	-.0008
#3	.0380	1.034	2.548	-.3258	1.017	.0204	-.0016
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.028	2.072
SDev	.013	.039
%RSD	1.216	1.890
#1	1.020	2.041
#2	1.021	2.058
#3	1.042	2.116
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 04:40:44 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:39:25
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS ALS 9/7/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4842	24.07	2.535	1.937	.5086	.0918	24.15
SDev	.0016	.06	.021	.006	.0017	.0005	.10
%RSD	.3285	.2522	.8350	.3260	.3368	.5811	.4327
#1	.4832	24.05	2.514	1.934	.5074	.0914	24.07
#2	.4834	24.03	2.534	1.933	.5079	.0916	24.11
#3	.4860	24.14	2.556	1.945	.5106	.0924	24.27
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.29	.4877	-.0106	1.012	1.007	1.009	.0035
SDev	.14	.0046	.0017	.006	.004	.005	.0003
%RSD	.5906	.9536	16.07	.5801	.3651	.5331	8.012
#1	24.18	.4871	-.0125	1.008	1.008	1.005	.0032
#2	24.24	.4834	-.0091	1.009	1.003	1.006	.0038
#3	24.45	.4926	-.0103	1.018	1.010	1.015	.0036
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	20.12	27.26	.0111	1.906	26.27	.4979
SDev	.0000	.12	.34	.0006	.016	.13	.0037
%RSD	.4484	.5756	1.235	5.271	.8499	.4853	.7507
#1	.0032	20.03	27.39	.0106	1.917	26.19	.4948
#2	.0031	20.07	Q27.50	.0117	1.913	26.21	.4967
#3	.0032	20.25	26.87	.0110	1.887	26.42	.5020
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.017	27.41	.0338	1.041	.0704	2.591	.0448
SDev	.006	.33	.0029	.001	.0122	.016	.0026
%RSD	.6247	1.191	8.546	.0963	17.35	.6199	5.800
#1	1.010	Q27.62	.0305	1.040	.0624	2.591	.0456
#2	1.016	Q27.58	.0349	1.042	.0642	2.575	.0419
#3	1.023	27.04	.0360	1.041	.0844	2.607	.0469
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0324	2.530	2.469	18.67	-.1484	.5139	.0027
SDev	.0033	.017	.017	.06	.0037	.0017	.0048
%RSD	10.20	.6806	.6975	.3404	2.486	.3286	176.7
#1	.0315	2.519	2.451	18.63	-.1490	.5130	.0017
#2	.0296	2.522	2.470	18.65	-.1518	.5128	-.0015
#3	.0360	2.550	2.485	18.75	-.1445	.5158	.0079
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0464	.9899	2.487	.4696	.9806	.0333	.0017
SDev	.0049	.0042	.014	.0464	.0047	.0055	.0000
%RSD	10.62	.4236	.5610	9.877	.4752	16.40	.8471
#1	.0407	.9873	2.477	.4914	.9766	.0277	.0017
#2	.0492	.9877	2.503	.5011	.9795	.0386	.0016
#3	.0493	.9948	2.481	.4163	.9857	.0337	.0017
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.007	2.026
SDev	.007	.009
%RSD	.7166	.4603
#1	1.010	2.020
#2	.9987	2.022
#3	1.012	2.037
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report

Tue 09-12-95 04:45:26 PM page

Method: ICP1 Sample Name: SST-ICS-1 9509~~11~~1101 Operator: DRS
Run Time: 09/12/95 16:44:06
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	89.11	.1833	.0154	.0014	.0007	.0705
SDev	.0022	1.06	.0146	.0024	.0003	.0000	.0099
%RSD	74.03	1.195	7.960	15.39	22.52	3.073	14.09
#1	-.0053	90.20	.1703	.0147	.0011	.0007	.0591
#2	-.0009	88.08	.1804	.0134	.0018	.0008	.0763
#3	-.0027	89.04	.1991	.0180	.0014	.0007	.0762

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0546	.0111	-.1090	.0113	.0390	-.0072	.0040
SDev	.0018	.0013	.0142	.0014	.0014	.0011	.0017
%RSD	3.366	11.89	13.03	12.04	3.559	14.79	42.01
#1	.0526	.0111	-.1225	.0098	.0401	-.0070	.0022
#2	.0562	.0123	-.0942	.0125	.0375	-.0063	.0055
#3	.0549	.0097	-.1102	.0117	.0395	-.0084	.0042

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	18.16	1.112	.0136	.0150	.3196	.0027
SDev	.0005	.12	.267	.0018	.0005	.0042	.0005
%RSD	19.34	.6571	24.03	13.02	3.412	1.325	18.23
#1	.0020	18.24	.8151	.0119	.0149	.3149	.0022
#2	.0030	18.02	1.333	.0154	.0155	.3233	.0030
#3	.0027	18.21	1.188	.0135	.0145	.3205	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0149	3676.	.0294	47.09	.0934	.2453	-.2512
SDev	.0007	46.	.0107	.25	.0143	.0163	.0259
%RSD	4.780	1.260	36.53	.5249	15.30	6.629	10.33
#1	.0142	3729.	.0185	47.22	.0784	.2288	-.2748
#2	.0156	3640.	.0400	46.80	.1068	.2613	-.2234
#3	.0149	3661.	.0297	47.25	.0950	.2458	-.2554

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0366	.0386	.0617	.0206	-.0633	.0006	.0398
SDev	.0168	.0099	.0073	.0101	.0302	.0001	.0056
%RSD	45.84	25.60	11.85	49.17	47.66	17.48	14.17
#1	.0180	.0297	.0533	.0093	-.0981	.0005	.0333
#2	.0507	.0492	.0662	.0288	-.0447	.0007	.0436
#3	.0411	.0368	.0657	.0238	-.0471	.0006	.0424

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6716	.0047	.2272	45.74	.0075	.0628	.0067
SDev	.0085	.0007	.0105	.47	.0012	.0039	.0008

%RSD	1.262	14.72	4.625	1.035	16.33	6.132	12.71
#1	.6768	.0040	.2177	46.22	.0062	.0605	.0057
#2	.6618	.0054	.2254	45.28	.0085	.0673	.0071
#3	.6762	.0048	.2384	45.73	.0080	.0607	.0072

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0298	9.459
SDev	.0018	.087
%RSD	5.896	.9176
#1	-.0298	9.531
#2	-.0316	9.363
#3	-.0281	9.484

Analysis Report Tue 09-12-95 04:49:56 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 16:48:37
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	.0152	-.0008	.0082	.0006	.0001	.0064
SDev	.0001	.0021	.0009	.0016	.0000	.0000	.0059
%RSD	5.106	13.60	112.0	20.10	.1380	3.831	92.03
#1	.0024	.0133	-.0010	.0099	.0006	.0001	.0060
#2	.0025	.0174	.0002	.0082	.0006	.0001	.0125
#3	.0027	.0151	-.0016	.0066	.0006	.0001	.0007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	.0013	.0170	.0022	-.0008	.0024	.0033
SDev	.0008	.0009	.0020	.0008	.0007	.0008	.0001
%RSD	18.58	67.78	11.68	34.93	89.26	35.67	2.582
#1	.0036	.0005	.0188	.0015	-.0010	.0033	.0032
#2	.0050	.0023	.0148	.0031	-.0000	.0018	.0033
#3	.0037	.0011	.0173	.0022	-.0014	.0019	.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0010	.5722	.0046	.0029	.0104	.0004
SDev	.0002	.0000	.0561	.0009	.0010	.0032	.0001
%RSD	19.64	4.079	9.804	18.86	35.33	30.45	21.23
#1	.0007	.0011	.5398	.0036	.0018	.0140	.0005
#2	.0010	.0010	.6370	.0051	.0038	.0080	.0004
#3	.0008	.0010	.5398	.0052	.0031	.0092	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.1715	.0196	.0045	.0193	.0179	.0570
SDev	.0015	.0141	.0023	.0004	.0008	.0045	.0026
%RSD	139.3	8.209	11.62	8.224	4.279	25.13	4.590
#1	.0008	.1817	.0175	.0041	.0202	.0228	.0590
#2	-.0002	.1772	.0221	.0047	.0191	.0169	.0578
#3	.0028	.1554	.0194	.0047	.0185	.0139	.0540

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0268	-.0021	.0073	.0116	.0590	.0003	.0109
SDev	.0024	.0039	.0117	.0013	.0130	.0000	.0002
%RSD	9.084	188.3	159.9	11.02	22.09	.7893	1.632
#1	.0257	.0001	.0182	.0126	.0542	.0003	.0111
#2	.0297	.0003	.0086	.0121	.0490	.0003	.0108
#3	.0252	-.0067	-.0050	.0102	.0737	.0003	.0109

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0011	.0005	.3200	.0019	.0095	.0013
SDev	.0061	.0001	.0027	.0269	.0003	.0039	.0002

%RSD	536.9	8.080	504.5	8.406	15.13	40.79	13.81
#1	.0026	.0011	-.0009	.2889	.0016	.0054	.0012
#2	.0063	.0011	.0037	.3352	.0022	.0131	.0015
#3	-.0055	.0010	-.0012	.3359	.0019	.0100	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0026
SDev	.0006	.0002
%RSD	77.48	6.366
#1	.0006	.0028
#2	.0003	.0025
#3	.0014	.0027

Analysis Report Tue 09-12-95 04:55:14 PM page 1

Method: ICP1 Sample Name: SST-ICS-1 950911I101 Operator: DRS
Run Time: 09/12/95 16:53:54
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	91.82	.1641	.0074	.0010	.0007	.0629
SDev	.0008	.40	.0118	.0022	.0001	.0000	.0008
%RSD	13.26	.4327	7.193	30.09	12.90	3.968	1.348
#1	-.0057	91.62	.1775	.0096	.0010	.0007	.0623
#2	-.0070	92.28	.1595	.0075	.0008	.0007	.0625
#3	-.0055	91.57	.1552	.0051	.0011	.0008	.0639

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0486	.0102	-.1264	.0102	.0410	-.0136	.0017
SDev	.0012	.0006	.0102	.0009	.0015	.0002	.0008
%RSD	2.446	5.405	8.100	8.785	3.678	1.262	47.98
#1	.0495	.0098	-.1230	.0097	.0406	-.0136	.0022
#2	.0473	.0108	-.1379	.0096	.0397	-.0138	.0008
#3	.0491	.0100	-.1183	.0112	.0426	-.0135	.0022

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	18.66	.7234	.0110	.0133	.3191	.0022
SDev	.0002	.03	.0799	.0023	.0005	.0120	.0002
%RSD	10.42	.1777	11.04	20.78	3.847	3.766	9.473
#1	.0021	18.64	.6856	.0121	.0138	.3165	.0022
#2	.0019	18.70	.6694	.0083	.0128	.3086	.0020
#3	.0023	18.64	.8151	.0125	.0132	.3322	.0024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	3751.	.0150	48.44	.1088	.2427	-.2964
SDev	.0011	19.	.0050	.04	.0070	.0031	.0105
%RSD	7.642	.5117	33.02	.0871	6.411	1.256	3.546
#1	.0133	3740.	.0135	48.42	.1039	.2393	-.2964
#2	.0142	3773.	.0111	48.49	.1168	.2437	-.3070
#3	.0155	3739.	.0206	48.41	.1057	.2452	-.2860

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0222	.0374	.0538	.0186	-.1053	.0003	.0263
SDev	.0058	.0046	.0155	.0057	.0183	.0001	.0107
%RSD	26.28	12.19	28.75	30.56	17.41	23.83	40.64
#1	.0232	.0392	.0631	.0178	-.1223	.0003	.0211
#2	.0159	.0322	.0359	.0134	-.1078	.0003	.0192
#3	.0274	.0407	.0623	.0247	-.0859	.0004	.0386

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6945	.0036	.2169	47.09	.0060	.0604	.0059
SDev	.0040	.0002	.0097	.16	.0005	.0023	.0004

%RSD	.5825	4.572	4.495	.3396	8.909	3.836	7.407
#1	.6904	.0038	.2281	47.03	.0060	.0610	.0062
#2	.6985	.0034	.2109	47.27	.0055	.0624	.0054
#3	.6945	.0035	.2115	46.97	.0066	.0579	.0062

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0293	9.750
SDev	.0018	.032
%RSD	6.068	.3265
#1	-.0301	9.744
#2	-.0273	9.784
#3	-.0306	9.721

Analysis Report Tue 09-12-95 05:06:21 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 17:05:02
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0306	.0007	.0247	-.0000	.0000	-.0036
SDev	.0006	.0015	.0034	.0026	.0002	.0000	.0019
%RSD	128.0	4.915	457.9	10.35	436.8	110.5	52.94
#1	.0006	.0300	.0001	.0268	.0001	.0000	-.0035
#2	.0009	.0323	-.0023	.0256	-.0000	-.0000	-.0017
#3	-.0002	.0295	.0044	.0219	-.0002	.0000	-.0055

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0164	.0015	.0015	.0009	-.0005	.0009	.0005
SDev	.0016	.0005	.0039	.0007	.0007	.0004	.0005
%RSD	10.05	31.43	268.8	84.62	134.5	46.88	95.51
#1	.0175	.0009	-.0019	.0005	.0002	.0009	.0003
#2	.0173	.0016	.0058	.0017	-.0011	.0004	.0011
#3	.0145	.0018	.0004	.0004	-.0006	.0012	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0008	.0818	.0005	.0043	-.0023	.0009
SDev	.0002	.0008	.1750	.0008	.0014	.0017	.0004
%RSD	281.6	101.7	213.9	175.3	31.91	74.15	50.62
#1	-.0001	-.0015	.0437	-.0001	.0041	-.0031	.0011
#2	.0003	.0001	.2728	.0014	.0058	-.0034	.0011
#3	.0000	-.0010	-.0709	.0001	.0030	-.0003	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.1358	.0044	-.0008	.0184	.0059	.0040
SDev	.0007	.0066	.0039	.0019	.0193	.0054	.0067
%RSD	38.90	4.832	87.28	236.9	105.2	91.53	165.9
#1	.0021	-.1430	.0027	-.0015	.0025	-.0003	-.0027
#2	.0010	-.1301	.0089	.0014	.0399	.0097	.0107
#3	.0024	-.1343	.0018	-.0022	.0127	.0083	.0042

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0033	-.0034	-.0065	.0240	-.0000	-.0002
SDev	.0079	.0065	.0016	.0025	.0092	.0001	.0028
%RSD	400.7	195.8	47.72	37.97	38.47	1136.	1433.
#1	.0030	-.0107	-.0017	-.0084	.0248	.0000	-.0012
#2	.0093	.0009	-.0037	-.0037	.0327	.0000	-.0023
#3	-.0064	-.0000	-.0049	-.0074	.0144	-.0001	.0030

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0003	-.0030	.0630	.0003	.0004	.0003
SDev	.0013	.0001	.0051	.0894	.0006	.0040	.0001

%RSD	74.23	58.71	171.3	141.9	185.2	1033.	47.52
#1	.0020	.0004	-.0057	-.0127	.0000	.0020	.0002
#2	.0029	.0003	-.0061	.1616	.0011	.0032	.0004
#3	.0003	.0001	.0029	.0401	-.0001	-.0041	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0004	-.0001
SDev	.0004	.0007
%RSD	83.73	1214.
#1	-.0006	-.0006
#2	-.0006	.0007
#3	-.0000	-.0003

Analysis Report Tue 09-12-95 05:08:23 PM page 1

Method: ICP1 Sample Name: 95-007944-N1 @10 Operator: DRS
Run Time: 09/12/95 17:07:04
Comment: QTR SEG 3A @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	3.648	.0219	.1076	.0027	.0001	.0090
SDev	.0003	.026	.0061	.0017	.0001	.0001	.0029
%RSD	13.26	.7053	27.91	1.593	4.538	75.79	32.01
#1	.0029	3.623	.0278	.1086	.0028	.0001	.0057
#2	.0023	3.647	.0156	.1086	.0027	.0001	.0102
#3	.0023	3.675	.0225	.1056	.0025	.0000	.0111

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4451	.0018	.0100	.0043	.0213	.0050	.0037
SDev	.0020	.0006	.0019	.0003	.0003	.0008	.0007
%RSD	.4554	33.53	19.28	7.120	1.328	15.11	18.52
#1	.4447	.0011	.0080	.0047	.0209	.0044	.0045
#2	.4433	.0018	.0118	.0041	.0214	.0058	.0033
#3	.4473	.0023	.0104	.0042	.0214	.0047	.0033

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.1841	.8948	.0070	.0103	.0261	.0027
SDev	.0003	.0008	.0982	.0014	.0002	.0044	.0002
%RSD	23.09	.4222	10.98	20.78	1.887	16.97	6.194
#1	.0014	.1832	.9931	.0074	.0101	.0236	.0028
#2	.0014	.1844	.8948	.0081	.0105	.0236	.0025
#3	.0009	.1847	.7966	.0053	.0105	.0313	.0028

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	1186.	.0277	.1196	.0766	.0425	.0651
SDev	.0018	6.	.0042	.0022	.0099	.0075	.0072
%RSD	32.75	.5384	15.27	1.862	12.91	17.60	11.04
#1	.0039	1179.	.0325	.1170	.0789	.0488	.0733
#2	.0050	1189.	.0246	.1207	.0658	.0445	.0615
#3	.0074	1191.	.0259	.1211	.0851	.0342	.0603

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0303	.0116	.0207	.1458	.0899	.0455	.0130
SDev	.0066	.0063	.0043	.0027	.0123	.0003	.0033
%RSD	21.93	54.93	20.56	1.867	13.71	.6557	25.39
#1	.0308	.0185	.0159	.1485	.0893	.0452	.0160
#2	.0366	.0100	.0238	.1460	.0779	.0454	.0095
#3	.0234	.0061	.0225	.1431	.1025	.0458	.0135

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	.0035	.0220	.4230	.0041	.0114	.0016
SDev	.0089	.0003	.0037	.0535	.0001	.0102	.0003

%RSD	138.9	6.973	16.97	12.66	2.962	90.06	17.73
#1	-.0032	.0036	.0260	.4712	.0041	.0180	.0019
#2	.0080	.0037	.0211	.4325	.0042	.0165	.0016
#3	.0145	.0033	.0187	.3654	.0040	-.0004	.0013

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0092	.7619
SDev	.0003	.0062
%RSD	3.018	.8107
#1	.0095	.7576
#2	.0091	.7591
#3	.0091	.7690

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Method: ICP1 Sample Name: 95-007944-N1 @2 Operator: DRS
Run Time: 09/12/95 17:10:48
Comment: QTR SEG 3A @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	17.07	.0525	.4215	.0111	.0003	.0385
SDev	.0013	.21	.0053	.0083	.0001	.0000	.0029
%RSD	22.86	1.247	10.01	1.959	1.092	5.071	7.541
#1	.0073	16.83	.0573	.4127	.0111	.0003	.0418
#2	.0046	17.25	.0532	.4290	.0109	.0003	.0376
#3	.0057	17.12	.0469	.4228	.0112	.0003	.0362

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.162	.0035	.0185	.0143	.1024	.0212	.0104
SDev	.015	.0007	.0124	.0012	.0016	.0012	.0014
%RSD	.6706	18.99	67.03	8.189	1.591	5.820	13.07
#1	2.146	.0043	.0310	.0149	.1006	.0226	.0118
#2	2.170	.0033	.0061	.0130	.1038	.0206	.0091
#3	2.172	.0030	.0184	.0151	.1027	.0203	.0104

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.8280	2.575	.0200	.0319	.0794	.0102
SDev	.0001	.0084	.191	.0017	.0002	.0032	.0003
%RSD	4.340	1.009	7.421	8.418	.6101	3.987	2.595
#1	.0036	.8184	2.745	.0218	.0320	.0799	.0101
#2	.0034	.8340	2.368	.0184	.0316	.0760	.0105
#3	.0034	.8314	2.614	.0198	.0320	.0823	.0101

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0176	4330.	.0846	.5550	.3251	.1178	.1500
SDev	.0017	65.	.0059	.0053	.0202	.0025	.0182
%RSD	9.584	1.510	7.003	.9548	6.224	2.159	12.17
#1	.0188	4257.	.0894	.5505	.3037	.1199	.1699
#2	.0157	4385.	.0780	.5536	.3439	.1150	.1340
#3	.0184	4347.	.0863	.5609	.3276	.1184	.1461

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0771	.0393	.0528	.7211	.2094	.2057	.0402
SDev	.0094	.0042	.0141	.0006	.0122	.0026	.0079
%RSD	12.18	10.78	26.83	.0873	5.827	1.257	19.55
#1	.0870	.0442	.0691	.7204	.2208	.2028	.0464
#2	.0684	.0376	.0437	.7214	.1965	.2077	.0314
#3	.0758	.0362	.0455	.7215	.2110	.2066	.0430

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0323	.0133	.0615	1.236	.0126	.0458	.0048
SDev	.0019	.0002	.0016	.126	.0008	.0045	.0006

%RSD	5.807	1.442	2.635	10.18	6.255	9.747	12.15
#1	.0329	.0134	.0630	1.366	.0134	.0423	.0053
#2	.0337	.0130	.0598	1.115	.0118	.0508	.0042
#3	.0302	.0134	.0615	1.227	.0126	.0443	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0458	3.600
SDev	.0001	.041
%RSD	.2644	1.127
#1	.0460	3.553
#2	.0458	3.628
#3	.0457	3.618

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Method: ICP1 Sample Name: 95-007945-N1 @10 Operator: DRS
Run Time: 09/12/95 17:15:17
Comment: QTR SEG 4A @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	1.717	.0200	.0493	.0333	.0001	.1482
SDev	.0004	.005	.0033	.0010	.0003	.0000	.0043
%RSD	24.56	.3134	16.68	1.979	.9684	2.402	2.893
#1	.0018	1.712	.0174	.0494	.0329	.0001	.1471
#2	.0020	1.718	.0238	.0483	.0334	.0001	.1530
#3	.0012	1.722	.0188	.0502	.0335	.0001	.1446

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.753	.0018	.0032	.0056	.0689	.0042	.0031
SDev	.010	.0006	.0065	.0001	.0013	.0004	.0006
%RSD	.5497	35.75	201.8	2.064	1.844	9.878	20.56
#1	1.742	.0020	.0107	.0057	.0702	.0046	.0035
#2	1.760	.0022	-.0003	.0056	.0690	.0042	.0034
#3	1.757	.0010	-.0007	.0055	.0676	.0038	.0024

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	2.292	.7366	.0110	.0049	.1728	.0343
SDev	.0002	.014	.1184	.0013	.0012	.0025	.0005
%RSD	12.50	.6109	16.08	11.45	25.08	1.456	1.454
#1	.0013	2.276	.8130	.0112	.0045	.1745	.0337
#2	.0015	2.301	.7966	.0121	.0062	.1699	.0344
#3	.0011	2.299	.6002	.0097	.0039	.1739	.0347

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	1201.	.0248	1.673	.0740	.1422	.0227
SDev	.0004	6.	.0020	.011	.0117	.0036	.0043
%RSD	7.858	.4603	8.098	.6844	15.81	2.524	19.18
#1	.0060	1199.	.0257	1.661	.0677	.1414	.0232
#2	.0054	1197.	.0262	1.677	.0668	.1461	.0268
#3	.0052	1207.	.0225	1.682	.0875	.1391	.0181

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0241	.0120	.0212	.2883	.0559	1.593	.0144
SDev	.0040	.0076	.0095	.0010	.0155	.010	.0020
%RSD	16.63	63.67	44.90	.3530	27.74	.6078	13.93
#1	.0269	.0175	.0137	.2872	.0543	1.582	.0150
#2	.0258	.0152	.0319	.2892	.0721	1.595	.0160
#3	.0195	.0033	.0179	.2884	.0412	1.601	.0122

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0578	.0051	.0082	4.014	.0033	.0053	.0021
SDev	.0046	.0001	.0052	.020	.0002	.0058	.0002

%RSD	7.967	2.737	63.15	.4942	6.665	110.1	8.092
#1	.0622	.0052	.0111	4.009	.0034	.0027	.0020
#2	.0530	.0052	.0022	4.036	.0035	.0120	.0023
#3	.0583	.0050	.0112	3.998	.0031	.0012	.0020

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0253	1.526
SDev	.0004	.010
%RSD	1.706	.6375
#1	.0252	1.515
#2	.0249	1.533
#3	.0257	1.531

Analysis Report Tue 09-12-95 05:20:21 PM page

Method: ICP1 Sample Name: 95-007945-N1 @2 Operator: DRS
Run Time: 09/12/95 17:19:02
Comment: QTR SEG 4A @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	8.033	.0646	.2099	.1477	.0005	.7154
SDev	.0014	.133	.0077	.0024	.0022	.0000	.0147
%RSD	59.78	1.655	11.92	1.135	1.502	4.820	2.061
#1	.0040	7.886	.0725	.2095	.1453	.0005	.7034
#2	.0013	8.145	.0572	.2124	.1497	.0006	.7319
#3	.0019	8.068	.0640	.2077	.1482	.0005	.7109

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.318	.0052	-.0301	.0212	.3214	.0188	.0083
SDev	.102	.0023	.0113	.0011	.0006	.0009	.0014
%RSD	1.221	43.18	37.57	5.113	.1740	4.767	17.21
#1	8.205	.0027	-.0174	.0224	.3208	.0190	.0099
#2	8.401	.0069	-.0337	.0208	.3219	.0178	.0071
#3	8.349	.0062	-.0391	.0203	.3215	.0195	.0080

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	10.46	2.504	.0415	.0177	.7679	.1558
SDev	.0005	.15	.295	.0015	.0014	.0071	.0017
%RSD	12.38	1.400	11.77	3.702	7.700	.9300	1.063
#1	.0047	10.30	2.843	.0432	.0177	.7615	.1539
#2	.0039	10.58	2.303	.0404	.0163	.7756	.1571
#3	.0037	10.50	2.368	.0408	.0190	.7665	.1564

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0145	4407.	.0754	7.615	.3242	.5990	.0050
SDev	.0008	95.	.0081	.090	.0077	.0077	.0269
%RSD	5.312	2.158	10.74	1.185	2.371	1.281	537.1
#1	.0154	4302.	.0847	7.519	.3325	.5988	.0341
#2	.0140	4488.	.0703	7.698	.3173	.6068	-.0190
#3	.0141	4432.	.0712	7.629	.3229	.5915	-.0000

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0623	.0255	.0467	1.412	.1049	7.206	.0441
SDev	.0134	.0073	.0102	.015	.0353	.135	.0017
%RSD	21.52	28.64	21.84	1.065	33.66	1.867	3.856
#1	.0771	.0322	.0582	1.396	.1401	7.054	.0457
#2	.0509	.0177	.0432	1.426	.0695	7.310	.0423
#3	.0588	.0267	.0387	1.413	.1050	7.255	.0442

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2742	.0212	.0544	17.24	.0098	.0339	.0082
SDev	.0064	.0003	.0033	.20	.0009	.0071	.0007

%RSD	2.322	1.344	6.144	1.136	9.587	20.91	8.967
#1	.2764	.0215	.0506	17.02	.0109	.0271	.0089
#2	.2792	.0211	.0562	17.34	.0092	.0412	.0075
#3	.2671	.0209	.0565	17.37	.0092	.0333	.0081

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1219	6.996
SDev	.0031	.116
%RSD	2.549	1.658
#1	.1198	6.865
#2	.1255	7.087
#3	.1205	7.035

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Method: ICP1 Sample Name: 95-007945-N1-PS @5 Operator: DRS
Run Time: 09/12/95 17:22:43
Comment: QTR SEG 4A POST DIGEST SPIKE @5X DIL(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	12.31	.0524	.0890	.0638	.0005	.3068
SDev	.0009	.08	.0150	.0017	.0004	.0000	.0112
%RSD	27.41	.6620	28.60	1.944	.6069	4.285	3.656
#1	.0038	12.24	.0400	.0909	.0633	.0005	.2965
#2	.0022	12.40	.0481	.0877	.0640	.0005	.3051
#3	.0035	12.30	.0690	.0883	.0639	.0005	.3187

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.070	.2404	-.0005	.0127	1.572	.0012	.0036
SDev	.035	.0028	.0066	.0006	.009	.0006	.0006
%RSD	.4339	1.156	1404.	4.326	.5768	48.66	17.69
#1	8.036	.2381	.0062	.0126	1.576	.0019	.0039
#2	8.106	.2435	-.0070	.0123	1.578	.0011	.0029
#3	8.068	.2396	-.0006	.0133	1.561	.0007	.0040

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	4.413	18.50	.0230	.0113	.4445	.1601
SDev	.0001	.020	.11	.0003	.0000	.0076	.0003
%RSD	2.400	.4583	.5688	1.240	.0307	1.709	.1639
#1	.0024	4.393	18.43	.0227	.0113	.4358	.1599
#2	.0023	4.433	18.62	.0232	.0113	.4488	.1600
#3	.0024	4.413	18.46	.0231	.0113	.4490	.1604

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	2195.	.0445	8.121	.1790	5.262	-.0947
SDev	.0005	18.	.0020	.032	.0129	.029	.0093
%RSD	6.037	.8322	4.412	.3928	7.229	.5458	9.805
#1	.0088	2180.	.0468	8.097	.1642	5.238	-.0841
#2	.0080	2215.	.0432	8.157	.1881	5.294	-.1013
#3	.0090	2191.	.0435	8.108	.1847	5.256	-.0987

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0345	.0123	.0287	10.30	.0822	3.090	.0245
SDev	.0060	.0063	.0059	.05	.0206	.020	.0035
%RSD	17.31	50.88	20.52	.4758	25.09	.6554	14.43
#1	.0410	.0106	.0253	10.26	.1060	3.070	.0278
#2	.0293	.0192	.0252	10.35	.0699	3.110	.0208
#3	.0331	.0071	.0354	10.28	.0706	3.090	.0251

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3587	.0107	.0500	26.43	.0070	.0214	.0054
SDev	.0020	.0001	.0016	.17	.0007	.0038	.0003

%RSD	.3547	.9918	3.208	.6383	9.515	17.96	4.662
#1	.3591	.0106	.0482	26.28	.0075	.0173	.0057
#2	.3565	.0106	.0507	26.61	.0062	.0249	.0052
#3	.3605	.0108	.0512	26.38	.0072	.0220	.0053

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0461	3.458
SDev	.0002	.025
%RSD	.3846	.7208
#1	.0463	3.432
#2	.0462	3.482
#3	.0459	3.461

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Method: ICP1 Sample Name: 95-007946-N1 @10 Operator: DRS
Run Time: 09/12/95 17:26:30
Comment: QTR SEG 4B @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	1.280	.0273	.0547	.0668	.0002	.3293
SDev	.0014	.009	.0114	.0021	.0004	.0000	.0036
%RSD	174.5	.6646	41.96	3.779	.6276	17.22	1.100
#1	-.0004	1.289	.0147	.0527	.0670	.0001	.3324
#2	.0005	1.279	.0300	.0546	.0670	.0002	.3253
#3	.0023	1.272	.0371	.0568	.0663	.0002	.3303

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.753	.0021	-.0169	.0067	.0559	.0042	.0039
SDev	.008	.0007	.0099	.0011	.0012	.0006	.0014
%RSD	.4462	32.94	58.74	16.22	2.198	14.30	35.76
#1	1.757	.0023	-.0251	.0059	.0545	.0039	.0024
#2	1.758	.0013	-.0197	.0063	.0562	.0038	.0040
#3	1.744	.0027	-.0059	.0080	.0569	.0049	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	3.203	.9767	.0096	.0061	.1799	.0387
SDev	.0003	.023	.1661	.0018	.0011	.0117	.0002
%RSD	22.10	.7103	17.01	18.88	17.79	6.482	.5745
#1	.0013	3.221	.8294	.0079	.0049	.1792	.0389
#2	.0015	3.212	.9439	.0094	.0066	.1686	.0388
#3	.0020	3.178	1.157	.0115	.0069	.1919	.0385

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	1140.	.0320	1.963	.6150	.1266	.0069
SDev	.0011	12.	.0080	.008	.0175	.0115	.0216
%RSD	21.27	1.095	25.06	.3949	2.854	9.044	312.6
#1	.0040	1147.	.0262	1.969	.5964	.1194	-.0132
#2	.0054	1146.	.0287	1.965	.6313	.1206	.0041
#3	.0061	1125.	.0412	1.954	.6174	.1398	.0297

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0253	.0083	.0214	.2530	.0601	2.936	.0197
SDev	.0138	.0041	.0076	.0049	.0139	.030	.0008
%RSD	54.35	49.12	35.26	1.938	23.12	1.006	4.052
#1	.0153	.0064	.0128	.2480	.0568	2.958	.0192
#2	.0197	.0055	.0268	.2531	.0481	2.949	.0194
#3	.0410	.0130	.0247	.2578	.0753	2.903	.0207

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1085	.0063	.0161	6.757	.0038	.0158	.0032
SDev	.0037	.0008	.0016	.049	.0009	.0030	.0007

%RSD	3.438	13.24	9.944	.7281	24.48	19.16	23.45
#1	.1086	.0058	.0146	6.764	.0030	.0134	.0027
#2	.1047	.0059	.0178	6.802	.0036	.0148	.0027
#3	.1121	.0073	.0159	6.704	.0048	.0192	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0164	3.066
SDev	.0006	.029
%RSD	3.882	.9372
#1	.0162	3.084
#2	.0172	3.081
#3	.0159	3.033

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Method: ICP1 Sample Name: 95-007946-N1 @2 Operator: DRS
Run Time: 09/12/95 17:30:32
Comment: QTR SEG 4B @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	6.027	.0579	.2331	.2993	.0007	1.520
SDev	.0012	.055	.0069	.0003	.0027	.0000	.014
%RSD	45.58	.9123	11.97	.1216	.9015	6.581	.9529
#1	-.0039	6.091	.0570	.2327	.3025	.0006	1.532
#2	-.0015	5.997	.0514	.2333	.2979	.0007	1.504
#3	-.0024	5.994	.0651	.2331	.2977	.0007	1.524

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.324	.0060	-.0898	.0204	.2578	.0169	.0072
SDev	.047	.0011	.0121	.0009	.0024	.0020	.0013
%RSD	.5610	17.56	13.44	4.506	.9301	11.74	17.44
#1	8.377	.0073	-.1036	.0196	.2557	.0148	.0058
#2	8.308	.0053	-.0811	.0201	.2604	.0187	.0079
#3	8.289	.0055	-.0847	.0214	.2573	.0172	.0080

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	14.65	2.641	.0307	.0172	.7854	.1768
SDev	.0001	.11	.183	.0019	.0007	.0148	.0012
%RSD	3.043	.7699	6.911	6.268	4.096	1.880	.6651
#1	.0044	14.78	2.434	.0285	.0167	.7771	.1782
#2	.0047	14.60	2.712	.0322	.0180	.8025	.1764
#3	.0047	14.58	2.777	.0315	.0170	.7767	.1759

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0140	4246.	.0864	9.015	2.068	.5357	-.1047
SDev	.0015	62.	.0073	.063	.031	.0027	.0233
%RSD	10.98	1.449	8.384	.7042	1.485	.5070	22.25
#1	.0128	4317.	.0782	9.088	2.089	.5351	-.1315
#2	.0134	4212.	.0919	8.974	2.082	.5386	-.0933
#3	.0157	4209.	.0892	8.984	2.033	.5333	-.0893

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0465	.0323	.0639	1.232	.0318	13.48	.0542
SDev	.0072	.0064	.0064	.005	.0408	.12	.0059
%RSD	15.56	19.84	10.08	.3691	128.7	.8890	10.92
#1	.0398	.0251	.0579	1.236	-.0148	13.62	.0485
#2	.0542	.0375	.0707	1.231	.0482	13.41	.0537
#3	.0455	.0341	.0632	1.227	.0618	13.41	.0603

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4676	.0249	.0562	29.46	.0108	.0332	.0109
SDev	.0055	.0003	.0051	.17	.0009	.0036	.0005

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%RSD	1.182	1.325	9.094	.5660	8.550	10.87	4.227
#1	.4739	.0246	.0503	29.65	.0097	.0352	.0104
#2	.4651	.0252	.0594	29.34	.0113	.0290	.0112
#3	.4637	.0249	.0589	29.40	.0113	.0353	.0112

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0806	11.52
SDev	.0007	.11
%RSD	.8480	.9856
#1	.0809	11.65
#2	.0810	11.46
#3	.0798	11.45

Analysis Report Tue 09-12-95 05:36:00 PM page

Method: ICP1 Sample Name: 95-007947-N1 @10 Operator: DRS
Run Time: 09/12/95 17:34:40
Comment: QTR SEG 4C @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.8162	.0251	.0302	.0124	.0002	.1128
SDev	.0009	.0027	.0018	.0009	.0003	.0000	.0017
%RSD	15.89	.3322	7.203	2.867	2.057	2.605	1.513
#1	.0045	.8130	.0269	.0292	.0123	.0002	.1145
#2	.0059	.8178	.0233	.0307	.0122	.0002	.1129
#3	.0061	.8177	.0251	.0308	.0127	.0002	.1111

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.245	.0022	.0294	.0076	.0115	.0101	.0066
SDev	.007	.0004	.0032	.0006	.0004	.0001	.0003
%RSD	.3117	18.14	10.84	7.814	3.475	.7966	5.304
#1	2.248	.0020	.0274	.0072	.0115	.0102	.0064
#2	2.237	.0020	.0331	.0083	.0112	.0100	.0063
#3	2.250	.0027	.0278	.0074	.0120	.0100	.0070

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	3.889	1.479	.0152	.0079	.1612	.0410
SDev	.0002	.011	.074	.0010	.0009	.0030	.0002
%RSD	10.30	.2922	4.992	6.343	11.40	1.857	.5356
#1	.0022	3.895	1.402	.0141	.0069	.1622	.0412
#2	.0023	3.876	1.550	.0159	.0085	.1635	.0408
#3	.0027	3.897	1.484	.0156	.0082	.1578	.0410

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	1106.	.0505	.7509	.4575	.1627	.0786
SDev	.0008	5.	.0068	.0055	.0107	.0043	.0124
%RSD	8.885	.4963	13.55	.7295	2.329	2.623	15.80
#1	.0093	1112.	.0430	.7504	.4642	.1612	.0643
#2	.0086	1102.	.0563	.7457	.4452	.1675	.0844
#3	.0078	1103.	.0521	.7567	.4631	.1594	.0871

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0498	.0222	.0318	.1674	.1213	.1417	.0303
SDev	.0048	.0065	.0094	.0041	.0228	.0006	.0036
%RSD	9.659	29.33	29.65	2.455	18.81	.4550	11.85
#1	.0447	.0279	.0216	.1667	.0950	.1423	.0266
#2	.0543	.0236	.0403	.1718	.1352	.1410	.0305
#3	.0504	.0151	.0335	.1637	.1337	.1417	.0338

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0816	.0059	.0219	5.772	.0059	.0155	.0043
SDev	.0124	.0005	.0088	.041	.0003	.0069	.0002

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%RSD	15.16	7.951	40.11	.7136	5.301	44.53	3.965
#1	.0929	.0054	.0123	5.725	.0055	.0203	.0042
#2	.0834	.0063	.0240	5.788	.0059	.0185	.0045
#3	.0684	.0061	.0296	5.803	.0061	.0076	.0042

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0261	1.592
SDev	.0013	.003
%RSD	4.960	.1933
#1	.0250	1.590
#2	.0275	1.596
#3	.0259	1.591

Analysis Report Tue 09-12-95 05:40:48 PM page 1

Method: ICP1 Sample Name: 95-007947-N1 @2 Operator: DRS
Run Time: 09/12/95 17:39:28
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	3.886	.0598	.1331	.0519	.0005	.4879
SDev	.0005	.013	.0023	.0019	.0001	.0000	.0043
%RSD	8.924	.3460	3.845	1.453	.1334	5.125	.8911
#1	.0056	3.897	.0584	.1344	.0520	.0005	.4888
#2	.0052	3.871	.0625	.1309	.0518	.0005	.4832
#3	.0062	3.890	.0585	.1339	.0518	.0005	.4918

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.79	.0049	.0229	.0175	.0509	.0345	.0051
SDev	.02	.0027	.0018	.0002	.0017	.0007	.0007
%RSD	.2062	54.90	7.883	1.361	3.373	2.128	13.27
#1	10.82	.0040	.0219	.0173	.0521	.0339	.0044
#2	10.77	.0028	.0219	.0176	.0517	.0343	.0051
#3	10.79	.0079	.0250	.0177	.0490	.0353	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	18.20	2.379	.0300	.0166	.6692	.1912
SDev	.0001	.05	.096	.0017	.0008	.0064	.0011
%RSD	2.358	.2843	4.032	5.573	4.725	.9552	.5614
#1	.0040	18.26	2.270	.0284	.0157	.6658	.1924
#2	.0040	18.16	2.417	.0297	.0171	.6652	.1904
#3	.0042	18.20	2.450	.0317	.0171	.6766	.1907

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	4276.	.0908	3.509	.8392	.5983	-.0334
SDev	.0009	25.	.0010	.012	.0094	.0033	.0074
%RSD	4.406	.5907	1.117	.3471	1.120	.5449	22.09
#1	.0207	4301.	.0897	3.522	.8380	.5976	-.0410
#2	.0191	4250.	.0908	3.498	.8305	.5954	-.0263
#3	.0206	4276.	.0918	3.507	.8491	.6018	-.0328

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0464	.0294	.0644	.8129	-.0105	.6590	.0413
SDev	.0027	.0085	.0095	.0018	.0191	.0025	.0052
%RSD	5.726	28.78	14.80	.2267	183.0	.3768	12.54
#1	.0450	.0233	.0587	.8149	-.0315	.6618	.0400
#2	.0447	.0391	.0591	.8113	-.0058	.6571	.0471
#3	.0495	.0258	.0754	.8126	.0060	.6582	.0370

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3531	.0176	.0434	24.55	.0093	.0286	.0105
SDev	.0063	.0004	.0057	.08	.0003	.0111	.0001

%RSD	1.774	2.111	13.03	.3259	3.717	38.85	1.325
#1	.3468	.0173	.0485	24.62	.0089	.0255	.0106
#2	.3593	.0174	.0373	24.46	.0096	.0194	.0104
#3	.3531	.0180	.0444	24.57	.0093	.0410	.0106

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1294	3.993
SDev	.0004	.009
%RSD	.3476	.2217
#1	.1289	4.002
#2	.1298	3.985
#3	.1296	3.991

Analysis Report QC Standard Tue 09-12-95 05:46:18 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 17:44:59
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DLS 9/12/

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4936	24.55	2.627	1.966	.5223	.0953	24.84
SDev	.0030	.21	.005	.017	.0053	.0007	.17
%RSD	.6053	.8714	.1986	.8894	1.023	.7245	.7040
#1	.4943	24.61	2.626	1.971	.5237	.0956	24.88
#2	.4962	24.73	2.622	1.981	.5268	.0957	24.98
#3	.4903	24.31	2.632	1.947	.5164	.0945	24.64
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.91	.4946	-.0325	1.043	1.039	1.027	.0016
SDev	.11	.0046	.0090	.005	.011	.010	.0009
%RSD	.4447	.9230	27.68	.5120	1.065	1.021	58.87
#1	24.96	.4943	-.0344	1.044	1.036	1.027	.0014
#2	24.99	.4993	-.0404	1.047	1.052	1.038	.0008
#3	24.79	.4902	-.0227	1.037	1.030	1.017	.0026
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	20.78	24.19	.0058	1.826	27.03	.5117
SDev	.0004	.13	.12	.0008	.024	.15	.0033
%RSD	16.46	.6371	.5078	14.57	1.332	.5593	.6427
#1	.0022	20.83	24.07	.0056	1.830	27.07	.5134
#2	.0019	20.88	24.32	.0051	1.848	27.15	.5137
#3	.0027	20.63	24.19	.0068	Q1.800	26.86	.5079
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.046	25.64	.0169	1.076	.0566	2.644	-.0087
SDev	.005	.29	.0079	.005	.0168	.010	.0220
%RSD	.4989	1.126	46.65	.4965	29.70	.3936	251.2
#1	1.048	25.63	.0160	1.080	.0759	2.633	-.0127
#2	1.050	25.93	.0095	1.077	.0486	2.654	-.0285
#3	1.040	25.35	.0253	1.070	.0452	2.647	.0149
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	2.585	2.546	19.10	-.1748	.5481	-.0046
SDev	.0105	.017	.009	.12	.0499	.0052	.0036
%RSD	167.6	.6447	.3718	.6537	28.56	.9491	77.73
#1	.0038	2.567	2.535	19.14	-.2066	.5495	-.0051
#2	-.0028	2.590	2.552	19.21	-.2005	Q.5524	-.0078
#3	.0177	2.599	2.551	18.96	-.1172	.5423	-.0008
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0433	1.023	2.524	.2112	1.011	.0318	.0006
SDev	.0031	.008	.017	.1186	.006	.0063	.0005
%RSD	7.225	.8016	.6744	56.17	.5666	19.80	79.47
#1	.0401	1.026	2.521	.2130	1.013	.0390	.0003
#2	.0464	1.030	2.542	.0917	1.016	.0282	.0004
#3	.0434	1.014	2.509	.3290	1.005	.0280	.0012
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	2.103
SDev	.004	.018
%RSD	.3613	.8652
#1	1.030	2.112
#2	1.038	2.115
#3	1.033	2.082
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 05:53:37 PM page 1

Method: ICP1 Sample Name: SST-ICS-1 95-9~~11~~1101 Operator: DRS
Run Time: 09/12/95 17:52:17
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	91.24	.1788	.0002	.0007	.0007	.0656
SDev	.0011	.64	.0103	.0014	.0002	.0000	.0110
%RSD	18.34	.7045	5.733	664.5	29.08	3.652	16.82
#1	-.0057	90.99	.1752	.0018	.0008	.0007	.0783
#2	-.0072	91.98	.1709	-.0006	.0005	.0007	.0579
#3	-.0051	90.77	.1904	-.0006	.0007	.0007	.0607

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0467	.0091	-.1297	.0106	.0404	-.0139	.0012
SDev	.0014	.0003	.0073	.0001	.0022	.0013	.0009
%RSD	2.936	3.888	5.612	1.129	5.346	9.031	75.64
#1	.0465	.0089	-.1315	.0106	.0384	-.0127	.0019
#2	.0455	.0095	-.1358	.0107	.0427	-.0152	.0002
#3	.0482	.0088	-.1216	.0105	.0402	-.0139	.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	18.55	.5456	.0090	.0128	.3141	.0021
SDev	.0003	.10	.1229	.0005	.0014	.0082	.0004
%RSD	16.39	.5143	22.52	5.995	10.74	2.622	18.20
#1	.0019	18.53	.6657	.0089	.0142	.3124	.0026
#2	.0014	18.65	.4201	.0086	.0115	.3069	.0018
#3	.0019	18.47	.5511	.0096	.0125	.3231	.0020

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0151	3733.	.0098	48.20	.0922	.2407	-.3180
SDev	.0022	23.	.0059	.16	.0061	.0061	.0127
%RSD	14.62	.6233	60.34	.3388	6.571	2.553	4.004
#1	.0155	3722.	.0132	48.24	.0956	.2468	-.3104
#2	.0127	3760.	.0030	48.35	.0852	.2407	-.3327
#3	.0171	3717.	.0133	48.03	.0957	.2345	-.3108

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	.0207	.0624	-.0054	-.1215	.0008	.0247
SDev	.0053	.0043	.0094	.0030	.0352	.0001	.0101
%RSD	42.20	20.91	15.02	56.56	28.95	11.42	41.08
#1	.0148	.0257	.0619	-.0068	-.0877	.0008	.0347
#2	.0064	.0182	.0533	-.0075	-.1579	.0007	.0145
#3	.0161	.0182	.0720	-.0019	-.1189	.0008	.0248

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6876	.0033	.2265	46.60	.0053	.0534	.0052
SDev	.0093	.0006	.0070	.28	.0011	.0057	.0004

%RSD	1.358	17.50	3.080	.6095	20.23	10.61	8.801
#1	.6967	.0039	.2289	46.45	.0063	.0530	.0057
#2	.6880	.0028	.2319	46.93	.0042	.0479	.0048
#3	.6781	.0033	.2186	46.42	.0056	.0592	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0299	9.691
SDev	.0013	.065
%RSD	4.246	.6663
#1	-.0310	9.662
#2	-.0302	9.765
#3	-.0285	9.646

Analysis Report Tue 09-12-95 05:57:57 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 17:56:38
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0102	.0030	.0002	.0002	.0000	-.0006
SDev	.0003	.0060	.0014	.0010	.0000	.0000	.0043
%RSD	11.36	58.23	47.01	464.9	.5997	289.5	739.3
#1	.0026	.0104	.0046	-.0009	.0002	-.0000	-.0033
#2	.0023	.0161	.0023	.0011	.0002	.0000	.0044
#3	.0029	.0042	.0021	.0005	.0002	-.0000	-.0028

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0034	.0022	.0101	.0025	-.0010	.0027	.0023
SDev	.0010	.0018	.0014	.0005	.0018	.0008	.0002
%RSD	29.05	83.44	13.53	20.39	175.7	29.70	10.47
#1	.0039	.0006	.0107	.0019	.0003	.0034	.0023
#2	.0041	.0018	.0111	.0027	-.0003	.0029	.0025
#3	.0023	.0041	.0086	.0029	-.0030	.0018	.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0019	.4365	.0026	.0029	.0081	.0004
SDev	.0002	.0007	.1022	.0007	.0005	.0026	.0003
%RSD	25.50	38.41	23.42	27.97	17.62	31.99	84.01
#1	.0008	.0027	.4692	.0029	.0034	.0101	.0004
#2	.0008	.0019	.5184	.0032	.0030	.0090	.0007
#3	.0005	.0012	.3219	.0018	.0024	.0052	.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	.0901	.0109	.0032	.0099	.0146	.0281
SDev	.0005	.0448	.0010	.0023	.0105	.0074	.0086
%RSD	20.15	49.74	9.570	72.41	106.5	50.80	30.51
#1	.0024	.1017	.0101	.0053	.0098	.0130	.0341
#2	.0028	.1280	.0121	.0036	-.0006	.0226	.0319
#3	.0019	.0406	.0105	.0007	.0204	.0081	.0183

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0145	.0006	.0092	-.0062	.0678	.0006	.0059
SDev	.0018	.0052	.0103	.0022	.0104	.0001	.0041
%RSD	12.17	892.6	112.6	35.81	15.38	18.72	70.02
#1	.0148	.0062	.0171	-.0044	.0652	.0007	.0084
#2	.0161	-.0041	.0128	-.0056	.0793	.0006	.0082
#3	.0126	-.0004	-.0025	-.0087	.0590	.0005	.0011

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0090	.0009	.0021	.1934	.0015	.0051	.0008
SDev	.0019	.0001	.0041	.0549	.0004	.0070	.0003

%RSD	21.03	11.79	196.0	28.41	25.87	136.0	40.60
#1	.0099	.0010	-.0013	.2148	.0018	.0046	.0010
#2	.0069	.0010	.0067	.2345	.0017	.0123	.0010
#3	.0103	.0008	.0009	.1310	.0011	-.0016	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0011	.0013
SDev	.0005	.0002
%RSD	45.07	13.19
#1	.0009	.0013
#2	.0017	.0015
#3	.0008	.0012

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Method: ICP1 Sample Name: 95-007948-N1 @10 Operator: DRS
Run Time: 09/12/95 17:58:51
Comment: QTR SEG 4D @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0048	.9648	.0325	.0485	.0147	.0001	.1277
SDev	.0014	.0050	.0124	.0022	.0001	.0001	.0080
%RSD	28.08	.5195	38.25	4.621	.4872	39.72	6.284
#1	.0052	.9596	.0458	.0511	.0146	.0001	.1241
#2	.0059	.9695	.0306	.0471	.0147	.0002	.1368
#3	.0033	.9655	.0211	.0474	.0147	.0001	.1220

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.329	.0027	.0263	.0075	.0140	.0145	.0049
SDev	.007	.0015	.0061	.0013	.0005	.0011	.0012
%RSD	.5266	55.67	23.07	17.48	3.377	7.349	25.07
#1	1.321	.0013	.0308	.0084	.0140	.0137	.0057
#2	1.330	.0026	.0287	.0081	.0135	.0157	.0056
#3	1.335	.0043	.0194	.0060	.0145	.0142	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	5.075	1.211	.0134	.0074	.1824	.0601
SDev	.0003	.045	.248	.0014	.0011	.0073	.0002
%RSD	17.85	.8966	20.51	10.82	14.71	3.989	.2779
#1	.0022	5.028	1.435	.0139	.0066	.1823	.0599
#2	.0021	5.078	1.255	.0144	.0086	.1897	.0602
#3	.0015	5.118	.9439	.0117	.0070	.1752	.0602

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	1088.	.0428	.8640	.2167	.3626	.0503
SDev	.0004	13.	.0072	.0025	.0062	.0024	.0244
%RSD	7.160	1.234	16.82	.2842	2.875	.6609	48.57
#1	.0059	1077.	.0482	.8612	.2174	.3630	.0736
#2	.0054	1085.	.0455	.8649	.2101	.3648	.0522
#3	.0062	1103.	.0346	.8659	.2225	.3601	.0249

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0391	.0249	.0266	.2050	.0819	.1801	.0260
SDev	.0056	.0009	.0137	.0023	.0279	.0021	.0067
%RSD	14.34	3.795	51.60	1.121	34.14	1.136	25.98
#1	.0444	.0253	.0352	.2074	.1101	.1781	.0243
#2	.0396	.0255	.0108	.2046	.0813	.1799	.0334
#3	.0332	.0238	.0339	.2029	.0542	.1822	.0203

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0900	.0063	.0156	6.552	.0049	.0177	.0042
SDev	.0028	.0008	.0083	.060	.0007	.0032	.0005

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0202	-.0072	Q.0074	-.0005	-.0543	Q.2807	-.0123
SDev	.0096	.0050	.0108	.0053	.0192	.0019	.0011
%RSD	47.77	68.84	145.1	1151.	35.35	.6595	9.017
#1	-.0282	-.0081	Q.0157	-.0046	-.0761	Q.2823	-.0130
#2	-.0228	-.0117	Q-.0048	-.0023	-.0467	Q.2811	-.0129
#3	-.0095	-.0019	Q.0114	.0055	-.0401	Q.2787	-.0110
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	.0074	.0100	.0074	Q.0270	-.0009	-.0023
SDev	.0052	.0003	.0040	.1002	.0005	.0091	.0003
%RSD	83.61	4.629	40.60	1347.	1.941	980.8	13.43
#1	-.0114	.0073	.0055	-.0396	Q.0269	-.0101	-.0024
#2	-.0063	.0072	Q.0134	-.0606	Q.0265	-.0008	-.0024
#3	-.0010	.0078	.0110	.1225	Q.0276	.0081	-.0019
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0862	-.0026
SDev	.0019	.0002
%RSD	2.243	6.967
#1	Q.0851	-.0024
#2	Q.0885	-.0028
#3	Q.0852	-.0025
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

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Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 18:33:05
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	1.881	2.012	1.900	1.026	.9633	1.928
SDev	.0013	.015	.019	.023	.013	.0098	.023
%RSD	1477.	.8071	.9492	1.215	1.276	1.013	1.217
#1	.0015	1.863	1.999	1.876	1.012	.9535	1.913
#2	-.0003	1.886	2.003	1.903	1.028	.9635	1.916
#3	-.0010	1.892	2.034	1.922	1.038	.9730	1.955

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.899	.9696	.0012	1.037	.5174	2.073	.0002
SDev	.011	.0041	.0108	.007	.0006	.029	.0007
%RSD	.5970	.4198	907.2	.6589	.1201	1.412	405.1
#1	1.889	.9651	.0125	1.032	.5181	2.040	.0008
#2	1.895	.9728	.0001	1.034	.5171	2.083	.0003
#3	1.911	.9710	-.0090	1.045	.5169	2.096	-.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	2.017	5.205	.0010	1.954	2.122	1.004
SDev	.0002	.018	.200	.0017	.028	.021	.008
%RSD	77.13	.9100	3.843	172.2	1.430	.9781	.8319
#1	.0005	1.998	5.380	.0029	1.922	2.105	.9948
#2	.0002	2.019	5.249	-.0004	1.975	2.116	1.005
#3	.0001	2.035	4.987	.0005	1.966	2.145	1.011

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.006	8.714	.0026	2.095	4.744	2.066	-.0038
SDev	.014	.106	.0079	.017	.059	.008	.0150
%RSD	.7095	1.215	310.1	.8289	1.248	.3796	391.0
#1	1.992	8.594	.0112	2.079	4.677	2.063	.0125
#2	2.005	8.796	.0008	2.093	4.766	2.060	-.0070
#3	2.020	8.752	-.0044	2.113	4.789	2.075	-.0170

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0087	1.959	4.936	-.0140	2.141	-.0215
SDev	.0077	.0123	.036	.046	.0443	.026	.0053
%RSD	1975.	141.0	1.857	.9235	315.4	1.212	24.71
#1	.0078	-.0025	1.922	4.885	.0366	2.115	-.0174
#2	-.0015	-.0008	1.962	4.951	-.0332	2.143	-.0196
#3	-.0075	-.0229	1.994	4.972	-.0455	2.166	-.0275

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.0007	1.928	.0254	.9684	-.0029	-.0000
SDev	.0072	.0003	.010	.0876	.0083	.0061	.0001

%RSD	142.8	40.06	.5135	344.2	.8581	213.2	548.3
#1	.0132	.0010	1.919	.1074	.9598	-.0098	.0000
#2	.0002	.0006	1.927	.0358	.9689	.0013	.0001
#3	.0016	.0005	1.938	-.0669	.9764	-.0001	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.035	-.0012
SDev	.009	.0006
%RSD	.9001	49.13
#1	1.028	-.0006
#2	1.032	-.0013
#3	1.046	-.0017

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 18:36:05
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	-.0002	.0028	-.0038	.0000	.0001	-.0022
SDev	.0002	.0035	.0043	.0010	.0001	.0000	.0095
%RSD	25.59	1603.	153.5	26.54	169.1	2.276	431.5
#1	-.0010	.0038	.0037	-.0033	.0001	.0001	.0014
#2	-.0010	-.0027	-.0019	-.0031	.0000	.0001	.0050
#3	-.0006	-.0018	.0065	-.0049	.0000	.0001	-.0130

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0049	.0003	-.0034	.0002	-.0018	.0004	.0001
SDev	.0006	.0014	.0016	.0006	.0017	.0009	.0003
%RSD	11.40	507.9	46.64	251.5	90.54	204.8	227.0
#1	-.0055	-.0012	-.0021	.0005	-.0020	.0002	-.0001
#2	-.0043	.0017	-.0052	-.0004	-.0034	.0014	.0004
#3	-.0050	.0004	-.0029	.0006	-.0001	-.0003	.0000

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0008	-.0764	-.0002	.0005	-.0018	.0003
SDev	.0002	.0001	.0526	.0010	.0010	.0023	.0001
%RSD	138.2	17.84	68.89	522.0	228.4	129.2	52.09
#1	-.0002	-.0009	-.1364	-.0009	.0014	-.0036	.0001
#2	.0001	-.0006	-.0382	.0010	-.0007	-.0025	.0004
#3	-.0003	-.0009	-.0546	-.0006	.0007	.0008	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	-.1720	-.0042	-.0015	-.0030	-.0005	-.0179
SDev	.0015	.0025	.0027	.0027	.0036	.0035	.0035
%RSD	68.63	1.460	64.51	178.4	121.6	721.6	19.31
#1	.0005	-.1734	-.0071	-.0038	.0010	.0005	-.0216
#2	.0033	-.1691	-.0019	-.0022	-.0037	.0025	-.0175
#3	.0028	-.1735	-.0034	.0015	-.0062	-.0044	-.0147

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	-.0077	-.0050	-.0207	-.0079	.0007	-.0089
SDev	.0011	.0029	.0100	.0014	.0260	.0001	.0044
%RSD	39.42	37.76	200.0	6.827	328.6	9.965	49.25
#1	-.0040	-.0106	-.0049	-.0222	-.0377	.0006	-.0116
#2	-.0022	-.0077	.0049	-.0194	.0099	.0007	-.0039
#3	-.0021	-.0048	-.0151	-.0206	.0041	.0006	-.0114

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0001	-.0081	-.0592	-.0003	-.0030	-.0002
SDev	.0041	.0002	.0065	.0174	.0001	.0078	.0002

%RSD	114.7	220.2	80.08	29.37	17.27	263.4	98.80
#1	-.0010	.0001	-.0150	-.0793	-.0004	-.0102	-.0004
#2	.0070	-.0001	-.0020	-.0500	-.0003	-.0040	-.0001
#3	.0046	.0003	-.0075	-.0484	-.0003	.0053	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0010	-.0014
SDev	.0006	.0002
%RSD	58.18	17.03
#1	-.0003	-.0013
#2	-.0014	-.0013
#3	-.0012	-.0017

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%RSD	3.131	11.89	52.87	.9162	14.02	18.06	11.60
#1	.0868	.0066	.0213	6.595	.0053	.0145	.0043
#2	.0920	.0068	.0195	6.483	.0054	.0209	.0047
#3	.0912	.0054	.0061	6.577	.0041	.0179	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0345	.8404
SDev	.0001	.0080
%RSD	.2543	.9468
#1	.0346	.8314
#2	.0344	.8435
#3	.0344	.8464

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Method: ICP1 Sample Name: 95-007948-N1 @2 Operator: DRS
Run Time: 09/12/95 18:02:44
Comment: QTR SEG 4D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0076	4.496	.0634	.2188	.0631	.0005	.5919
SDev	.0011	.056	.0053	.0049	.0006	.0000	.0009
%RSD	14.17	1.251	8.309	2.254	.9981	2.610	.1602
#1	.0079	4.481	.0585	.2138	.0627	.0005	.5919
#2	.0084	4.448	.0689	.2190	.0627	.0005	.5909
#3	.0063	4.558	.0627	.2237	.0638	.0005	.5928

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.306	.0069	.0600	.0202	.0601	.0575	.0060
SDev	.053	.0013	.0109	.0005	.0024	.0006	.0014
%RSD	.8401	18.43	18.17	2.421	4.018	.9905	23.02
#1	6.287	.0082	.0674	.0199	.0604	.0571	.0065
#2	6.265	.0066	.0651	.0207	.0576	.0573	.0071
#3	6.366	.0058	.0475	.0199	.0624	.0582	.0045

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	23.11	2.630	.0357	.0173	.7562	.2743
SDev	.0001	.23	.205	.0012	.0011	.0018	.0018
%RSD	2.670	.9858	7.799	3.371	6.316	.2381	.6474
#1	.0048	23.03	2.646	.0350	.0165	.7578	.2738
#2	.0047	22.94	2.826	.0370	.0185	.7543	.2729
#3	.0046	23.37	2.417	.0350	.0168	.7567	.2763

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0154	4041.	.1095	3.968	.7910	1.572	-.0275
SDev	.0003	43.	.0069	.045	.0256	.006	.0208
%RSD	2.304	1.074	6.297	1.130	3.231	.3529	75.85
#1	.0151	4038.	.1121	3.988	.7931	1.568	-.0281
#2	.0158	3999.	.1148	3.917	.7644	1.570	-.0063
#3	.0153	4086.	.1017	4.000	.8154	1.579	-.0480

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0555	.0310	.0789	.9824	-.0165	.8079	.0630
SDev	.0078	.0024	.0158	.0050	.0192	.0100	.0054
%RSD	13.99	7.772	20.08	.5079	116.2	1.243	8.544
#1	.0572	.0290	.0843	.9775	-.0064	.8041	.0645
#2	.0623	.0337	.0913	.9821	-.0044	.8004	.0675
#3	.0471	.0303	.0611	.9875	-.0386	.8193	.0570

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4141	.0223	.0435	27.89	.0114	.0407	.0137
SDev	.0038	.0004	.0047	.18	.0014	.0047	.0006

%RSD	.9276	1.678	10.77	.6493	11.80	11.54	4.636
#1	.4150	.0227	.0442	27.82	.0124	.0397	.0140
#2	.4100	.0223	.0477	27.76	.0119	.0366	.0141
#3	.4175	.0219	.0385	28.10	.0099	.0458	.0129

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1667	3.441
SDev	.0015	.044
%RSD	.8809	1.274
#1	.1682	3.420
#2	.1653	3.412
#3	.1667	3.492

Analysis Report Tue 09-12-95 06:09:52 PM page 1

Method: ICP1 Sample Name: SRM-2709-N @10X DIL Operator: DRS
Run Time: 09/12/95 18:08:32
Comment: SOIL STD @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	10.53	.0495	.0362	.1388	.0011	.0288
SDev	.0009	.04	.0051	.0024	.0007	.0000	.0064
%RSD	41.57	.3779	10.24	6.520	.5297	.5956	22.27
#1	.0016	10.57	.0551	.0380	.1395	.0011	.0218
#2	.0017	10.54	.0453	.0335	.1388	.0011	.0301
#3	.0032	10.49	.0479	.0371	.1380	.0011	.0345

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.228	.0032	-.0228	.0116	.0369	.0139	.0101
SDev	.007	.0018	.0092	.0012	.0007	.0008	.0009
%RSD	.2215	57.52	40.36	10.00	1.920	5.993	8.861
#1	3.236	.0024	-.0311	.0105	.0377	.0133	.0099
#2	3.224	.0019	-.0245	.0116	.0364	.0136	.0093
#3	3.224	.0053	-.0129	.0128	.0366	.0149	.0110

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	5.352	4.158	.0182	.0158	2.425	.0839
SDev	.0002	.019	.157	.0012	.0005	.017	.0008
%RSD	7.122	.3514	3.783	6.599	3.278	.6868	.9550
#1	.0032	5.371	3.989	.0170	.0163	2.443	.0848
#2	.0033	5.352	4.185	.0182	.0153	2.421	.0836
#3	.0036	5.333	4.300	.0194	.0156	2.410	.0832

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0095	1111.	.0597	.0861	.1437	.2768	.1200
SDev	.0001	6.	.0052	.0030	.0155	.0007	.0156
%RSD	.9357	.5791	8.717	3.525	10.81	.2473	12.97
#1	.0094	1117.	.0538	.0826	.1486	.2760	.1031
#2	.0095	1111.	.0620	.0878	.1263	.2771	.1231
#3	.0096	1104.	.0634	.0878	.1563	.2773	.1338

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0669	.0292	.0545	43.13	.1486	.0434	.0370
SDev	.0059	.0119	.0059	.17	.0086	.0001	.0022
%RSD	8.768	40.85	10.89	.3940	5.824	.2789	5.846
#1	.0618	.0301	.0605	43.31	.1402	.0435	.0374
#2	.0655	.0168	.0486	43.11	.1481	.0434	.0390
#3	.0733	.0406	.0544	42.97	.1575	.0433	.0347

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0463	.4978	.0512	.6999	.0234	.0318	.0062
SDev	.0052	.0025	.0048	.0477	.0005	.0111	.0004

%RSD	11.24	.4937	9.296	6.810	2.219	34.99	7.321
#1	.0523	.5006	.0458	.6471	.0228	.0190	.0058
#2	.0440	.4970	.0548	.7130	.0234	.0375	.0061
#3	.0427	.4959	.0530	.7397	.0239	.0389	.0067

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0199	5.470
SDev	.0003	.023
%RSD	1.237	.4281
#1	.0198	5.490
#2	.0197	5.475
#3	.0201	5.444

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Method: ICP1 Sample Name: SRM-2709-N @2 Operator: DRS
Run Time: 09/12/95 18:12:26
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0168	50.30	.1433	.1672	.6347	.0046	.0719
SDev	.0018	.78	.0081	.0025	.0098	.0000	.0037
%RSD	10.59	1.549	5.641	1.503	1.549	.4049	5.087
#1	-.0152	49.72	.1519	.1648	.6271	.0046	.0702
#2	-.0187	51.19	.1359	.1698	.6458	.0046	.0695
#3	-.0165	50.00	.1420	.1670	.6313	.0046	.0761

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.22	.0069	-.3170	.0259	.1595	.0478	.0174
SDev	.14	.0008	.0142	.0012	.0007	.0008	.0012
%RSD	.9118	11.30	4.491	4.783	.4407	1.634	6.934
#1	15.12	.0074	-.3083	.0253	.1603	.0477	.0179
#2	15.37	.0072	-.3334	.0250	.1589	.0471	.0161
#3	15.16	.0060	-.3091	.0273	.1593	.0487	.0184

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0077	24.52	13.99	.0378	.0441	10.96	.3863
SDev	.0004	.28	.09	.0023	.0017	.11	.0044
%RSD	5.081	1.123	.6191	6.051	3.848	.9776	1.152
#1	.0080	24.31	14.06	.0397	.0453	10.88	.3828
#2	.0072	24.83	13.89	.0353	.0422	11.08	.3913
#3	.0078	24.41	14.02	.0385	.0449	10.91	.3848

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0241	4174.	.0978	.3668	.5249	1.098	.0761
SDev	.0018	77.	.0078	.0039	.0199	.002	.0255
%RSD	7.253	1.850	7.987	1.053	3.801	.1541	33.56
#1	.0254	4110.	.1024	.3702	.5454	1.096	.0915
#2	.0221	4260.	.0888	.3676	.5236	1.098	.0466
#3	.0248	4152.	.1023	.3626	.5056	1.099	.0901

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0683	.1020	.1212	207.1	.0547	.1968	.0675
SDev	.0109	.0100	.0109	2.5	.0231	.0031	.0060
%RSD	15.97	9.782	8.977	1.203	42.10	1.562	8.835
#1	.0758	.0958	.1275	205.3	.0743	.1946	.0736
#2	.0558	.0967	.1087	210.0	.0293	.2003	.0618
#3	.0735	.1135	.1275	206.1	.0607	.1955	.0670

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1935	2.294	.2099	.3316	.0851	.0659	.0177
SDev	.0004	.030	.0019	.1317	.0003	.0115	.0004

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%RSD	.2268	1.324	.9128	39.72	.3131	17.45	2.129
#1	.1940	2.273	.2092	.4324	.0848	.0791	.0179
#2	.1934	2.329	.2121	.1826	.0854	.0580	.0173
#3	.1932	2.280	.2085	.3798	.0852	.0605	.0179

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0953	25.60
SDev	.0009	.36
%RSD	.9671	1.421
#1	.0955	25.34
#2	.0943	26.01
#3	.0961	25.44

Analysis Report QC Standard Tue 09-12-95 06:18:20 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 18:17:01
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4751	23.91	2.523	1.915	.5116	.0920	23.96
SDev	.0015	.02	.009	.003	.0014	.0004	.05
%RSD	.3231	.1044	.3386	.1344	.2718	.4135	.2183
#1	.4758	23.93	2.533	1.916	.5132	.0925	24.00
#2	.4761	23.88	2.518	1.917	.5107	.0919	23.97
#3	.4733	23.92	2.519	1.912	.5110	.0917	23.90
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.95	.4708	-.0429	1.008	1.006	1.004	-.0012
SDev	.06	.0017	.0094	.003	.002	.004	.0005
%RSD	.2544	.3525	22.00	.2735	.2285	.3514	37.77
#1	24.01	.4698	-.0483	1.011	1.004	1.008	-.0016
#2	23.95	.4727	-.0483	1.008	1.009	1.001	-.0013
#3	23.89	.4699	-.0320	1.005	1.006	1.003	-.0007
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	20.09	24.85	.0040	1.861	26.15	.4947
SDev	.0002	.06	.63	.0011	.018	.04	.0014
%RSD	11.71	.3218	2.554	28.24	.9507	.1705	.2827
#1	.0013	20.16	24.40	.0028	1.848	26.20	.4962
#2	.0016	20.07	24.58	.0040	1.854	26.13	.4945
#3	.0016	20.03	25.58	.0051	1.881	26.13	.4934
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.016	26.19	.0019	1.037	.0458	2.534	-.0450
SDev	.006	.36	.0021	.002	.0161	.004	.0010
%RSD	.5699	1.372	113.2	.2064	35.12	.1654	2.229
#1	1.012	25.93	-.0002	1.040	.0561	2.537	-.0456
#2	1.023	26.04	.0041	1.036	.0539	2.537	-.0456
#3	1.014	26.60	.0018	1.036	.0272	2.530	-.0439
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0117	2.486	2.420	18.17	-.2425	.5344	-.0116
SDev	.0035	.019	.013	.04	.0132	.0014	.0022
%RSD	30.03	.7468	.5546	.2219	5.465	.2589	18.96
#1	-.0155	2.473	2.436	18.22	-.2573	.5360	-.0140
#2	-.0085	2.507	2.413	18.15	-.2318	.5337	-.0113
#3	-.0112	2.478	2.411	18.14	-.2384	.5336	-.0096
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0404	.9933	2.416	-.0325	.9805	.0241	-.0003
SDev	.0031	.0030	.009	.0519	.0029	.0038	.0005
%RSD	7.597	.3059	.3716	159.7	.2902	15.72	163.0
#1	.0395	.9967	2.416	-.0899	.9836	.0237	.0002
#2	.0438	.9919	2.424	.0112	.9800	.0281	-.0004
#3	.0378	.9911	2.406	-.0189	.9780	.0206	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9952	2.031
SDev	.0029	.009
%RSD	.2967	.4232
#1	.9920	2.040
#2	.9978	2.028
#3	.9957	2.023
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

WHC-SD-WM-DP-145, REV. 1

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Method: ICP1 Sample Name: SST-ICS-1 ~~95-9111101~~ 950908 I101 Operator: DRS
Run Time: 09/12/95 18:20:49
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0050	89.95	.1776	-.0003	.0010	.0007	.0596
SDev	.0016	1.01	.0030	.0021	.0003	.0001	.0050
%RSD	32.73	1.120	1.696	630.4	31.50	8.677	8.444
#1	-.0038	89.65	.1797	.0021	.0010	.0007	.0601
#2	-.0044	89.12	.1742	-.0016	.0013	.0008	.0644
#3	-.0069	91.07	.1789	-.0015	.0007	.0007	.0544

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0481	.0099	-.1214	.0111	.0417	-.0105	.0025
SDev	.0019	.0009	.0117	.0010	.0009	.0019	.0015
%RSD	3.949	8.798	9.631	9.024	2.202	18.09	60.83
#1	.0492	.0098	-.1170	.0115	.0418	-.0095	.0027
#2	.0492	.0108	-.1125	.0118	.0407	-.0092	.0040
#3	.0459	.0090	-.1346	.0099	.0425	-.0126	.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	18.27	.7693	.0120	.0129	.3162	.0021
SDev	.0005	.13	.1840	.0022	.0009	.0077	.0004
%RSD	22.98	.7203	23.91	18.23	6.954	2.444	17.37
#1	.0022	18.21	.8130	.0113	.0135	.3248	.0019
#2	.0025	18.17	.9276	.0145	.0132	.3097	.0025
#3	.0016	18.42	.5675	.0102	.0118	.3141	.0019

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0157	3700.	.0152	47.56	.1086	.2409	-.3014
SDev	.0006	38.	.0084	.26	.0153	.0093	.0229
%RSD	4.161	1.025	55.52	.5381	14.08	3.867	7.596
#1	.0164	3693.	.0140	47.43	.0957	.2411	-.3000
#2	.0152	3666.	.0242	47.39	.1045	.2501	-.2792
#3	.0154	3741.	.0074	47.85	.1255	.2315	-.3249

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0188	.0340	.0627	.0130	-.0929	.0008	.0273
SDev	.0091	.0080	.0125	.0052	.0363	.0001	.0123
%RSD	48.32	23.62	19.98	40.40	39.10	12.30	45.02
#1	.0211	.0378	.0679	.0122	-.0974	.0009	.0282
#2	.0266	.0394	.0717	.0185	-.0546	.0009	.0392
#3	.0088	.0247	.0484	.0081	-.1268	.0007	.0146

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6821	.0040	.2147	45.95	.0063	.0619	.0057
SDev	.0065	.0008	.0016	.45	.0013	.0083	.0007

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%RSD	.9560	19.74	.7257	.9752	21.05	13.41	11.99
#1	.6863	.0045	.2132	45.76	.0065	.0537	.0057
#2	.6854	.0046	.2163	45.63	.0075	.0616	.0064
#3	.6746	.0031	.2147	46.47	.0049	.0703	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0323	9.522
SDev	.0014	.081
%RSD	4.389	.8549
#1	-.0307	9.501
#2	-.0328	9.454
#3	-.0334	9.612

Analysis Report QC Standard Tue 09-12-95 06:26:42 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 18:25:22
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.1825	-.0002	-.0041	.0005	.0003	-.0065
SDev	.0013	.0090	.0075	.0011	.0002	.0001	.0062
%RSD	90.44	4.942	4323.	27.48	35.96	18.91	95.54
#1	.0001	-.1920	-.0088	-.0045	.0004	.0002	-.0137
#2	.0014	-.1816	.0034	-.0028	.0005	.0003	-.0022
#3	.0027	-.1740	.0049	-.0049	.0007	.0003	-.0037
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	.0009	2.003	.0038	.0012	-.0067	2.014
SDev	.0015	.0008	.004	.0009	.0006	.0020	.018
%RSD	13.47	91.93	.2204	22.39	48.40	29.02	.8876
#1	.0101	.0000	2.007	.0030	.0007	-.0090	2.031
#2	.0108	.0010	2.003	.0038	.0018	-.0057	2.016
#3	.0130	.0016	1.998	.0047	.0011	-.0056	1.995
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.995	.0059	.2728	1.991	.0019	.0916	.0007
SDev	.017	.0008	.2051	.011	.0016	.0043	.0002
%RSD	.8303	13.95	75.18	.5673	83.82	4.657	26.54
#1	2.010	.0056	.0600	2.002	.0007	.0870	.0005
#2	1.996	.0053	.2892	1.991	.0013	.0925	.0008
#3	1.977	.0069	.4692	1.979	.0037	.0954	.0008
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0420	2.001	.0064	.0018	.0563	Q2.261
SDev	.0010	.0318	.011	.0004	.0024	.0115	.016
%RSD	134.8	75.87	.5437	5.691	135.8	20.42	.7044
#1	-.0000	.0214	2.012	.0061	-.0006	.0443	Q2.254
#2	.0004	.0259	1.998	.0068	.0017	.0572	Q2.279
#3	.0019	.0786	1.991	.0062	.0042	.0673	Q2.250
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

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Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.048	.0003	.0155	.0393	Q1.753	.0007	1.800
SDev	.001	.0060	.0013	.0049	.040	.0001	.008
%RSD	.0679	2311.	8.164	12.37	2.257	17.66	.4518
#1	2.049	-.0043	.0162	.0379	Q1.712	.0006	1.807
#2	2.048	.0070	.0162	.0352	Q1.756	.0007	1.802
#3	2.047	-.0019	.0140	.0447	Q1.791	.0008	Q1.792
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.032	.0010	-.0053	Q8.692	-.0011	Q.5127	.9710
SDev	.030	.0007	.0004	.068	.0012	.0072	.0070
%RSD	.6017	67.13	7.470	.7861	103.6	1.398	.7194
#1	5.066	.0002	-.0058	Q8.720	-.0023	Q.5205	.9771
#2	5.023	.0013	-.0051	Q8.743	-.0011	Q.5064	.9727
#3	5.008	.0014	-.0051	Q8.615	.0000	Q.5112	.9634
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0011	-.0079
SDev	.0004	.0012
%RSD	33.19	15.19
#1	.0015	-.0090
#2	.0010	-.0066
#3	.0008	-.0081
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 06:30:43 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 18:29:24
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0014	Q.0963	Q.0879	Q.1081	.0510	.0221	.0045
SDev	.0008	.0003	.0038	.0025	.0004	.0001	.0115
%RSD	56.36	.2656	4.301	2.277	.6988	.3377	256.9
#1	Q-.0021	Q.0960	Q.0867	Q.1106	.0512	.0222	-.0088
#2	Q-.0015	Q.0964	Q.0922	Q.1081	.0512	.0222	.0119
#3	Q-.0006	Q.0965	Q.0849	Q.1057	.0506	.0220	.0103
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.00	Q.0100	-.0180	.0227	Q.0197	Q.0192	-.0023
SDev	.07	.0002	.0072	.0009	.0017	.0007	.0009
%RSD	.2052	2.276	40.19	3.777	8.577	3.852	39.24
#1	Q35.09	Q.0099	-.0232	.0228	Q.0212	.0196	-.0029
#2	Q34.97	Q.0098	-.0211	Q.0219	Q.0179	Q.0183	-.0028
#3	Q34.96	Q.0102	-.0097	.0236	Q.0201	.0196	-.0013
Errors	QC Fail	QC Fail	NOCHECK	QC Pass	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1196	Q1.888	.0042	Q.0111	Q10.09	.0349
SDev	.0003	.0006	.115	.0016	.0005	.06	.0002
%RSD	60.51	.5282	6.090	39.04	4.560	.6188	.6443
#1	.0003	Q.1193	Q1.779	.0026	Q.0116	Q10.14	.0346
#2	.0003	Q.1204	Q1.877	.0041	Q.0110	Q10.11	.0351
#3	.0007	Q.1193	Q2.008	.0059	Q.0106	Q10.02	.0350
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1052	Q12.77	-.0042	.0570	.0201	Q.0275	-.0492
SDev	.0006	.26	.0042	.0007	.0102	.0048	.0112
%RSD	.6033	2.009	98.48	1.303	50.47	17.48	22.84
#1	.1048	Q12.92	-.0077	.0575	.0144	Q.0298	-.0532
#2	.1048	Q12.92	-.0055	.0561	.0142	Q.0220	-.0578
#3	.1059	12.47	.0004	.0574	.0319	Q.0307	-.0365
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

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KOH AND Na_2O_2 FUSION SPIKE RERUNS

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DATE TO QC: 09/20/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - KOH & Na2O2 Spike Re-runs

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07941-N1 95-07941-H1T

PNL ACL Quality Representative

9/22/95
Date

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

Core '99
Post Spike Reruns (Special)

File: m091995b
Analyzed: 09/19/95

			Seg 1	Seg 1		Blank	Blank Spk	
		Sam Log#:	95-07941-	95-07941-		95-07941-	95-07941-	
		Split#:	H1T-Smp	H1T-Smp-PS		HCB-Smp	HCB-Smp-PS	
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	4975.1	4975.1		4975.1	4975.1	
		Run Time:	13:46	13:50		13:39	13:43	
Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	0.50	Ag	ND	(0.62)	123.0%	ND	(0.60)	120.3%
0.060	75.00	Al	144,823	68.17	90.9%	(1,119)	69.05	92.1%
0.080	2.50	As	ND	(2.83)	113.2%	ND	(2.69)	107.7%
0.020	2.00	B	(442)	1.87	93.7%	(405)	1.84	92.0%
0.010	0.50	Ba	ND	(0.50)	99.7%	ND	(0.47)	94.3%
0.005	0.10	Be	ND	(0.09)	92.1%	ND	(0.09)	89.3%
0.100	25.00	Bi	ND	24.11	96.4%	ND	23.23	92.9%
0.050	50.00	Ca	(749)	48.43	96.9%	(363)	46.80	93.6%
0.015	1.75	Cd	ND	1.74	99.5%	ND	1.73	98.7%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	(68)	1.00	100.1%	(55)	0.98	98.4%
0.020	8.50	Cr	(139)	8.37	98.4%	ND	8.18	96.3%
0.010	1.00	Cu	ND	0.98	97.9%	ND	0.92	92.3%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,606	19.61	98.1%	(674)	19.13	95.7%
2.000	125.00	K	n/a	n/a	n/a	n/a	n/a	n/a
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.87	93.3%	ND	1.82	91.1%
0.100	25.00	Mg	(571)	26.81	107.3%	ND	26.53	106.1%
0.005	1.00	Mn	329	0.98	98.1%	(204)	0.96	95.6%
0.030	1.00	Mo	ND	(1.01)	101.1%	ND	(1.01)	101.1%
0.080	106.85	Na	107,789	94.87	88.8%	4,976	95.32	89.2%
0.050		Nd	ND	ND		ND	(0.27)	
0.030	26.00	Ni	n/a	n/a	n/a	n/a	n/a	n/a
0.100		P	24,798	(0.29)		ND	ND	
0.060	27.50	Pb	(448)	28.33	103.0%	(346)	27.68	100.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	(259)	2.66	106.4%	ND	2.73	109.4%
0.100	2.50	Se	ND	(2.58)	103.1%	ND	(2.57)	102.7%
0.500	70.00	Si	(7,343)	66.81	95.4%	ND	67.10	95.9%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(31)	0.48	95.3%	ND	0.47	94.2%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	390	0.96	95.6%	(246)	0.94	93.7%
0.500	2.50	Tl	ND	(2.93)	117.0%	ND	(2.61)	104.3%
2.000	100.00	U	ND	(91.13)	91.1%	ND	(88.99)	89.0%
0.010	1.00	V	(69)	0.95	95.2%	ND	0.96	96.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	(109)	1.00	100.2%	ND	1.03	103.2%
0.010	4.50	Zr	(185)	4.31	95.8%	(150)	4.18	92.8%

Note: 1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Analyzed Date: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D262a

File: m091995b
Reported: 09/20/95
Data Page 1 of 2

Sample Log#		95-07941-H1T-Smp	95-07941-H1T-Smp-PS	95-07941-HCB-Smp	95-07941-HCB-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1005	0.1005	0.1005	0.1005
Makeup Vol-mL		100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Vol-mL					
Prep Factor		995.02	995.02	995.02	995.02
Spike ID		>>>> 1:1	950830H901 & MVCA	950728I901	<<<<
Spike PreDil'n			1.0		1.0
ICP Dilution		5.00	5.00	5.00	5.00
Dil Fctr		4975.1	4975.1	4975.1	4975.1
Run Time		13:46	13:50	13:39	13:43
ug/g	Ag	41.4	612.0	42.4	598.5
	Al	144822.8	212654.3	1119.4	69826.0
	As	178.2	2814.8	184.5	2679.7
	B	442.1	2306.1	405.0	2236.8
	Ba	28.6	496.0	13.9	468.9
	Be	1.0	91.7	0.6	88.9
	Bi	414.6	23986.7	163.7	23114.9
	Ca	748.7	48933.3	362.9	46928.1
	Cd	25.0	1732.9	21.7	1719.5
	Ce	206.2	242.8	210.0	283.4
	Co	67.8	1063.4	54.9	1034.3
	Cr	138.6	8464.8	47.0	8143.0
	Cu	15.9	973.8	-24.5	918.5
	Dy	35.3	28.5	28.7	27.3
	Eu	8.9	13.2	8.5	15.2
	Fe	1606.2	21123.0	673.7	19713.3
	K	10924029.8	10790500.6	10881220.1	10754794.1
	La	62.3	107.4	62.7	115.3
	Li	120.6	1857.6	131.8	1813.7
	Mg	571.0	27250.5	254.5	26397.5
	Mn	328.8	1304.8	203.5	1154.8
	Mo	28.0	1005.8	37.6	1006.1
	Na	107789.2	202191.7	4975.7	99821.4
	Nd	194.3	246.9	181.6	265.3
	Ni	105603.8	129058.3	23908.0	48862.8
	P	24797.7	24510.6	225.4	423.7
	Pb	448.2	28640.3	346.4	27892.0
	Pd	690.6	575.2	615.0	657.4
	Rh	336.6	453.4	350.3	484.6
	Sb	259.4	2905.5	190.6	2720.3
	Se	74.1	2565.0	195.3	2554.8
	Si	7343.3	73823.5	2106.2	66764.9
	Sn	1515.8	2910.0	1287.4	2901.6
	Sr	30.8	505.2	7.9	468.6
	Te	209.3	302.5	232.7	300.2
	Th	59.3	1623.3	61.7	1562.0
	Ti	390.2	1341.3	245.8	1178.6
	Tl	447.4	2911.3	154.9	2594.5
	U	2909.7	90678.9	2392.0	88550.5
	V	69.4	1016.9	27.1	956.0
	W	150.5	206.7	135.7	148.5
	Y	10.0	20.0	9.2	22.2
	Zn	108.7	1105.5	48.8	1027.2
ug/g	Zr	184.8	4475.6	149.5	4304.0

Template: TC-NA202

ICP RAW DATA -- IEC Corrected

File: m091995b
Reported: 09/20/95

Raw Data
Data Page 2 of 2

Analyzed: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS

Reviewer: 9/20/95

Sample ID:		95-07941-H1T-Smp	95-07941-H1T-Smp-PS	95-07941-HCB-Smp	95-07941-HCB-Smp-PS
Split ID:					
Run Time:		13:46	13:50	13:39	13:43
(ug/mL)	Ag	0.0083	0.1230	0.0085	0.1203
	Al	29.1094	42.7435	0.2250	14.0350
	As	0.0358	0.5658	0.0371	0.5386
	B	0.0889	0.4635	0.0814	0.4496
	Ba	0.0058	0.0997	0.0028	0.0942
	Be	0.0002	0.0184	0.0001	0.0179
	Bi	0.0833	4.8213	0.0329	4.6461
	Ca	0.1505	9.8356	0.0730	9.4325
	Cd	0.0050	0.3483	0.0044	0.3456
	Ce	0.0415	0.0488	0.0422	0.0570
	Co	0.0136	0.2137	0.0110	0.2079
	Cr	0.0279	1.7014	0.0095	1.6367
	Cu	0.0032	0.1957	-0.0049	0.1846
	Dy	0.0071	0.0057	0.0058	0.0055
	Eu	0.0018	0.0027	0.0017	0.0031
	Fe	0.3229	4.2457	0.1354	3.9624
	K	2195.7300	2168.8906	2187.1252	2161.7136
	La	0.0125	0.0216	0.0126	0.0232
	Li	0.0243	0.3734	0.0265	0.3645
	Mg	0.1148	5.4774	0.0512	5.3059
	Mn	0.0661	0.2623	0.0409	0.2321
	Mo	0.0056	0.2022	0.0076	0.2022
	Na	21.6656	40.6405	1.0001	20.0641
	Nd	0.0391	0.0496	0.0365	0.0533
	Ni	21.2264	25.9407	4.8055	9.8214
	P	4.9843	4.9266	0.0453	0.0852
	Pb	0.0901	5.7567	0.0696	5.6063
	Pd	0.1388	0.1156	0.1236	0.1321
	Rh	0.0677	0.0911	0.0704	0.0974
	Sb	0.0521	0.5840	0.0383	0.5468
	Se	0.0149	0.5156	0.0393	0.5135
	Si	1.4760	14.8385	0.4233	13.4197
	Sn	0.3047	0.5849	0.2588	0.5832
	Sr	0.0062	0.1015	0.0016	0.0942
	Te	0.0421	0.0608	0.0468	0.0604
	Th	0.0119	0.3263	0.0124	0.3140
	Ti	0.0784	0.2696	0.0494	0.2369
	Tl	0.0899	0.5852	0.0311	0.5215
	U	0.5848	18.2265	0.4808	17.7987
	V	0.0139	0.2044	0.0054	0.1921
	W	0.0303	0.0416	0.0273	0.0298
	Y	0.0020	0.0040	0.0018	0.0045
	Zn	0.0219	0.2222	0.0098	0.2065
(ug/mL)	Zr	0.0372	0.8996	0.0301	0.8651

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

File: m091995a
Analyzed: 09/19/95

Core 99
Post Spike Reruns (Special)

Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Seg 1 Sample ug/g	Seg 1 Net PSpk ug/mL	Post Spk Recovery	Blank Sample ug/g	Blank Net PSpk ug/mL	Blank Post Spk Recovery
		Sam Log#:	95-07941-N1-Smp	95-07941-N1-Smp-PS		95-07941-N3-Blk	95-07941-N3-Blk-PS	
		Split#:						
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	3779.3	3779.3		3779.3	3779.3	
		Run Time:	14:16	14:20		14:08	14:12	
0.015	0.50	Ag	ND	(0.61)	121.1%	(64)	(0.58)	115.5%
0.060	75.00	Al	122,327	64.48	86.0%	(321)	71.44	95.3%
0.080	2.50	As	ND	(2.80)	111.8%	ND	(2.81)	112.3%
0.020	2.00	B	836	1.85	92.4%	(516)	1.90	95.1%
0.010	0.50	Ba	ND	(0.48)	96.6%	ND	(0.48)	96.4%
0.005	0.10	Be	ND	(0.09)	90.2%	ND	(0.09)	90.3%
0.100	25.00	Bi	ND	23.74	95.0%	ND	24.30	97.2%
0.050	50.00	Ca	4,222	47.04	94.1%	7,612	43.51	87.0%
0.015	1.75	Cd	ND	1.72	98.0%	ND	1.78	101.5%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	ND	1.03	102.9%	ND	1.05	105.0%
0.020	8.50	Cr	(150)	8.19	96.3%	ND	8.39	98.6%
0.010	1.00	Cu	(130)	0.96	95.6%	(60)	0.98	97.9%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,209	19.18	95.9%	(262)	19.53	97.7%
2.000	125.00	K	ND	122.60	98.1%	ND	125.64	100.5%
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.79	89.3%	ND	1.77	88.7%
0.100	25.00	Mg	ND	26.85	107.4%	ND	27.31	109.2%
0.005	1.00	Mn	(30)	0.96	96.2%	ND	0.99	99.2%
0.030	1.00	Mo	ND	(1.00)	100.1%	ND	(1.01)	101.0%
0.080	106.85	Na	n/a	n/a	n/a	n/a	n/a	n/a
0.050		Nd	ND	(0.30)		(208)	(0.07)	
0.030	26.00	Ni	(575)	25.60	98.5%	(410)	25.97	99.9%
0.100		P	4,074	0.11		ND	ND	
0.060	27.50	Pb	(273)	28.01	101.8%	ND	28.78	104.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	ND	2.79	111.6%	ND	2.78	111.4%
0.100	2.50	Se	ND	(2.50)	99.9%	ND	(2.62)	105.0%
0.500	70.00	Si	(3,046)	66.27	94.7%	ND	68.12	97.3%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(69)	0.46	92.7%	(54)	0.47	93.5%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	(53)	0.94	94.3%	ND	0.98	98.2%
0.500	2.50	Tl	ND	(2.88)	115.3%	ND	(2.64)	105.6%
2.000	100.00	U	ND	(88.92)	88.9%	ND	(87.75)	87.8%
0.010	1.00	V	(66)	0.94	93.5%	ND	0.98	98.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	ND	1.10	110.0%	(89)	0.97	97.1%
0.010	4.50	Zr	n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Analyzed Date: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D262a

File: m091995a
Reported: 09/20/95

Sample Log#		95-07941-N1-Smp	95-07941-N1-Smp-PS	95-07941-N3-Blk	95-07941-N3-Blk-PS
Prep Type		Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1323	0.1323	0.1323	0.1323
Makeup Vol-mL		100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Vol-mL					
Prep Factor		755.86	755.86	755.86	755.86
Spike ID		>>>> 1:1	950830H901 & MVCA 950728I901		<<<<
Spike PreDil'n			1.0		1.0
ICP Dilution		5.00	5.00	5.00	5.00
Dil Fctr		3779.3	3779.3	3779.3	3779.3
Run Time		14:16	14:20	14:08	14:12
ug/g	Ag	30.4	457.8	64.0	500.5
	Al	122326.9	171067.7	320.8	54318.8
	As	80.7	2113.1	70.4	2122.8
	B	836.4	2233.1	515.8	1953.7
	Ba	18.6	365.0	13.6	364.4
	Be	0.6	68.2	0.3	68.3
	Bi	105.0	17943.4	135.2	18370.6
	Ca	4222.3	39780.7	7612.4	40503.3
	Cd	5.6	1296.6	1.4	1342.3
	Ce	189.3	247.2	-353.3	-251.9
	Co	32.2	778.2	30.7	793.5
	Cr	149.7	6337.7	41.7	6337.9
	Cu	130.1	852.8	59.6	799.6
	Dy	23.8	24.0	36.4	33.4
	Eu	8.1	12.6	13.1	17.2
	Fe	1209.5	15708.5	261.8	15024.8
	K	5693.1	92669.9	6587.3	94965.1
	La	53.2	93.3	62.5	95.6
	Li	68.2	1350.5	36.4	1341.5
	Mg	308.0	20292.6	269.6	20643.1
	Mn	29.7	757.0	10.7	750.1
	Mo	19.4	756.4	27.4	763.5
	Na	8258355.6	8020094.3	8048331.9	8002944.4
	Nd	165.6	227.6	207.6	258.7
	Ni	575.4	19923.4	410.0	20036.4
	P	4073.7	4157.5	88.3	212.6
	Pb	273.4	21444.0	217.7	21757.2
	Pd	552.3	509.2	668.7	583.4
	Rh	224.4	336.1	257.7	361.1
	Sb	150.6	2108.7	144.8	2104.6
	Se	33.4	1888.2	131.6	1983.6
	Si	3046.2	53134.2	408.5	51491.5
	Sn	806.8	2040.3	1178.2	2292.3
	Sr	68.7	418.9	54.2	407.4
	Te	103.5	154.3	189.6	205.5
	Th	34.6	1185.6	93.5	1269.8
	Ti	53.3	766.2	18.2	742.4
	Tl	302.2	2179.3	125.4	1995.7
	U	2209.1	67209.1	828.2	66326.9
	V	65.9	772.6	24.9	741.3
	W	58.3	91.5	67.6	128.9
	Y	7.7	17.4	13.0	21.1
	Zn	60.8	831.7	89.3	823.1
ug/g	Zr	331.9	3550.8	37926.0	40696.5

Template: TC-NA202 ICP RAW DATA -- IEC Corrected File: m091995a
Reported: 09/20/95

Raw Data
Data Page 2 of 2

Analyzed: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS Reviewer: MW Thu 9/21/95

Sample ID:		95-07941-N1-Smp	95-07941-N1-Smp-PS	95-07941-N3-Blk	95-07941-N3-Blk-PS
Split ID:					
Run Time:		14:16	14:20	14:08	14:12
(ug/mL)	Ag	0.0081	0.1211	0.0169	0.1324
	Al	32.3677	45.2645	0.0849	14.3727
	As	0.0214	0.5591	0.0186	0.5617
	B	0.2213	0.5909	0.1365	0.5169
	Ba	0.0049	0.0966	0.0036	0.0964
	Be	0.0002	0.0181	0.0001	0.0181
	Bi	0.0278	4.7478	0.0358	4.8609
	Ca	1.1172	10.5260	2.0142	10.7172
	Cd	0.0015	0.3431	0.0004	0.3552
	Ce	0.0501	0.0654	-0.0935	-0.0667
	Co	0.0085	0.2059	0.0081	0.2100
	Cr	0.0396	1.6769	0.0110	1.6770
	Cu	0.0344	0.2256	0.0158	0.2116
	Dy	0.0063	0.0064	0.0096	0.0088
	Eu	0.0021	0.0033	0.0035	0.0046
	Fe	0.3200	4.1565	0.0693	3.9756
	K	1.5064	24.5205	1.7430	25.1278
	La	0.0141	0.0247	0.0165	0.0253
	Li	0.0180	0.3573	0.0096	0.3550
	Mg	0.0815	5.3694	0.0713	5.4622
	Mn	0.0079	0.2003	0.0028	0.1985
	Mo	0.0051	0.2001	0.0072	0.2020
	Na	2185.1609	2122.1169	2129.5886	2117.5791
	Nd	0.0438	0.0602	0.0549	0.0685
	Ni	0.1523	5.2717	0.1085	5.3016
	P	1.0779	1.1001	0.0234	0.0563
	Pb	0.0723	5.6741	0.0576	5.7570
	Pd	0.1462	0.1347	0.1769	0.1544
	Rh	0.0594	0.0889	0.0682	0.0956
	Sb	0.0399	0.5579	0.0383	0.5569
	Se	0.0088	0.4996	0.0348	0.5249
	Si	0.8060	14.0593	0.1081	13.6247
	Sn	0.2135	0.5399	0.3118	0.6066
	Sr	0.0182	0.1108	0.0143	0.1078
	Te	0.0274	0.0408	0.0502	0.0544
	Th	0.0092	0.3137	0.0247	0.3360
	Ti	0.0141	0.2027	0.0048	0.1965
	Tl	0.0800	0.5766	0.0332	0.5281
	U	0.5845	17.7835	0.2192	17.5501
	V	0.0174	0.2044	0.0066	0.1961
	W	0.0154	0.0242	0.0179	0.0341
	Y	0.0020	0.0046	0.0034	0.0056
	Zn	0.0161	0.2201	0.0236	0.2178
(ug/mL)	Zr	0.0878	0.9395	10.0352	10.7683

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								MCVA 950728I901	A 950728	A 950728	A 950728
								95D262A	95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95	9/19/95
Statistical Summary for 'MCVA 950728I901'								13:23	13:54	13:57	14:24
(MCVA)								CONC	CONC	CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	361	406	451	498
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag	0.500	4	0.475	0.005	1	-0.025	-4.9	0.471	0.472	0.478	0.482
Al	25.000	4	24.858	0.328	1	-0.142	-0.6	24.767	24.540	24.810	25.317
As	2.500	4	2.536	0.034	1	0.036	1.4	2.520	2.507	2.533	2.585
B	2.000	4	1.976	0.028	1	-0.024	-1.2	1.971	1.944	1.975	2.013
Ba	0.500	4	0.517	0.008	2	0.017	3.4	0.519	0.508	0.514	0.526
Be	0.100	4	0.091	0.001	1	-0.009	-8.6	0.092	0.090	0.091	0.092
Bi	25.000	4	23.943	0.282	1	-1.057	-4.2	23.829	23.671	23.940	24.332
Ca	25.000	4	24.678	0.205	1	-0.322	-1.3	24.552	24.477	24.752	24.932
Cd	0.500	4	0.490	0.003	1	-0.010	-1.9	0.486	0.490	0.492	0.493
Ce		4	-0.037	0.012	-33			-0.051	-0.022	-0.032	-0.041
Co	1.000	4	1.020	0.009	1	0.020	2.0	1.015	1.011	1.023	1.032
Cr	1.000	4	1.020	0.010	1	0.020	2.0	1.022	1.007	1.022	1.031
Cu	1.000	4	1.000	0.013	1	0.000	0.0	1.003	0.985	0.997	1.016
Dy		4	0.000	0.002	-568			-0.002	0.001	0.001	-0.001
Eu		4	0.002	0.000	26			0.001	0.002	0.002	0.002
Fe	20.000	4	20.309	0.202	1	0.309	1.5	20.304	20.075	20.291	20.568
K	25.000	4	26.863	0.334	1	1.863	7.5	26.405	27.123	26.823	27.099
La		4	0.008	0.003	32			0.005	0.010	0.010	0.007
Li	2.000	4	2.085	0.043	2	0.085	4.3	2.085	2.053	2.057	2.146
Mg	25.000	4	26.250	0.254	1	1.250	5.0	26.133	26.004	26.268	26.594
Mn	0.500	4	0.506	0.005	1	0.006	1.2	0.506	0.500	0.505	0.512
Mo	1.000	4	1.035	0.010	1	0.035	3.5	1.035	1.022	1.035	1.047
Na	25.000	4	26.667	0.605	2	1.667	6.7	26.445	26.329	26.323	27.571
Nd		4	0.008	0.011	139			-0.003	0.017	0.017	0.000
Ni	1.000	4	1.045	0.010	1	0.045	4.5	1.036	1.037	1.051	1.056
P		4	0.030	0.021	70			0.000	0.036	0.049	0.034
Pb	2.500	4	2.556	0.023	1	0.056	2.2	2.523	2.555	2.571	2.574
Pd		4	-0.011	0.035	-312			-0.048	0.024	0.012	-0.032
Rh		4	-0.001	0.016	-1468			-0.017	0.013	0.013	-0.013
Sb	2.500	4	2.549	0.031	1	0.049	2.0	2.533	2.515	2.564	2.585
Se	2.500	4	2.403	0.026	1	-0.097	-3.9	2.394	2.371	2.415	2.431
Si	20.000	4	18.162	0.202	1	-1.838	-9.2	18.089	17.965	18.153	18.442
Sn		4	0.204	0.046	23			0.152	0.241	0.244	0.178
Sr	0.500	4	0.523	0.008	1	0.023	4.6	0.525	0.514	0.520	0.533
Te		4	0.002	0.010	420			-0.002	0.010	0.011	-0.009
Th		4	0.041	0.003	9			0.043	0.038	0.044	0.038
Ti	1.000	4	1.010	0.012	1	0.010	1.0	1.010	0.996	1.007	1.026
Tl		4	2.439	0.029	1			2.419	2.412	2.449	2.476
U		4	-0.028	0.161	-569			-0.197	0.119	0.099	-0.134
V	1.000	4	0.984	0.010	1	-0.016	-1.6	0.983	0.973	0.983	0.997
W		4	0.024	0.004	18			0.021	0.022	0.030	0.022
Y		4	0.000	0.001	-298			-0.001	0.000	0.000	-0.001
Zn	1.000	4	0.998	0.013	1	-0.002	-0.2	0.987	0.990	0.999	1.015
Zr	2.000	4	2.066	0.023	1	0.066	3.3	2.069	2.038	2.061	2.094
TIME		4	#######	0.000	0			10000.000	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								MCVB 950911H901	B 950911	B 950911H901
								95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95
Statistical Summary for 'MCVB 950911H901'								13:27	14:01	14:28
(MCVB)								CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	541	586	631
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		3	0.020	0.003	14			0.017	0.022	0.021
Al		3	0.056	0.023	40			0.030	0.067	0.071
As		3	0.059	0.014	24			0.044	0.073	0.059
B		3	0.004	0.001	13			0.004	0.005	0.004
Ba		3	0.001	0.000	85			0.000	0.001	0.001
Be		3	0.000	0.000	180			0.000	0.000	0.000
Bi		3	0.016	0.004	25			0.012	0.019	0.017
Ca		3	0.010	0.005	46			0.005	0.013	0.012
Cd		3	0.001	0.001	128			0.000	0.001	0.001
Ce	2.000	3	2.055	0.016	1	0.055	2.7	2.038	2.071	2.056
Co		3	0.005	0.002	37			0.003	0.006	0.006
Cr		3	0.002	0.001	30			0.002	0.001	0.002
Cu		3	-0.001	0.001	-129			-0.003	0.000	-0.001
Dy	2.000	3	2.035	0.010	1	0.035	1.8	2.044	2.039	2.024
Eu	2.000	3	2.021	0.010	0	0.021	1.0	2.026	2.027	2.009
Fe		3	0.007	0.002	32			0.005	0.009	0.007
K		3	0.405	0.304	75			0.055	0.607	0.552
La	2.000	3	2.024	0.008	0	0.024	1.2	2.019	2.034	2.019
Li		3	0.003	0.002	56			0.001	0.003	0.004
Mg		3	0.180	0.017	9			0.161	0.192	0.187
Mn		3	0.001	0.000	16			0.001	0.001	0.001
Mo		3	0.002	0.002	74			0.000	0.003	0.003
Na		3	0.077	0.041	53			0.032	0.086	0.113
Nd	2.000	3	2.028	0.011	1	0.028	1.4	2.020	2.040	2.023
Ni		3	0.006	0.002	25			0.005	0.006	0.008
P		3	-0.006	0.017	-299			-0.024	0.006	0.002
Pb		3	0.075	0.009	12			0.065	0.083	0.077
Pd	2.000	3	3.135	0.036	1	1.135	56.8	3.094	3.155	3.158
Rh	2.000	3	2.105	0.030	1	0.105	5.3	2.073	2.132	2.111
Sb		3	0.024	0.004	17			0.019	0.025	0.027
Se		3	0.011	0.009	82			0.001	0.014	0.018
Si		3	0.138	0.010	8			0.147	0.141	0.126
Sn	2.000	3	2.298	0.105	5	0.298	14.9	2.181	2.383	2.331
Sr		3	0.001	0.000	23			0.001	0.001	0.001
Te	2.000	3	1.854	0.022	1	-0.146	-7.3	1.836	1.879	1.848
Th	5.000	3	5.230	0.036	1	0.230	4.6	5.211	5.272	5.207
Ti		3	0.002	0.001	36			0.001	0.003	0.002
Tl		3	0.021	0.003	13			0.018	0.022	0.023
U	10.000	3	8.506	0.089	1	-1.494	-14.9	8.463	8.609	8.446
V		3	0.000	0.001	-380			-0.002	0.001	0.000
W	2.000	3	0.524	0.009	2	-1.476	-73.8	0.514	0.532	0.525
Y	1.000	3	1.003	0.007	1	0.003	0.3	1.005	1.009	0.996
Zn		3	0.002	0.000	24			0.002	0.002	0.001
Zr		3	0.010	0.003	27			0.013	0.009	0.008
TIME		3	########	0.000	0			10000.000	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10
								95D262A	95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95	9/19/95
Statistical Summary for 'STD1-Blank 108444'								11:16	13:16	13:35	14:39
(STD1-Blank)								CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	946	991	1036	1081
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		4	0.000	0.001	-486			0.002	-0.001	-0.001	-0.001
Al		4	0.001	0.006	903			0.007	-0.006	0.003	-0.002
As		4	-0.001	0.011	-875			0.016	-0.005	-0.007	-0.009
B		4	0.004	0.004	103			0.009	0.005	0.001	0.001
Ba		4	0.000	0.000	-265			0.000	0.000	0.000	0.000
Be		4	0.000	0.000	177			0.000	0.000	0.000	0.000
Bi		4	-0.006	0.006	-101			0.001	-0.013	-0.004	-0.006
Ca		4	0.004	0.002	55			0.003	0.002	0.004	0.007
Cd		4	0.000	0.001	1335			0.002	-0.001	-0.001	0.000
Ce		4	-0.003	0.010	-386			0.008	-0.016	0.001	-0.003
Co		4	0.001	0.001	77			0.002	0.001	0.001	0.001
Cr		4	0.000	0.001	-207			0.001	-0.001	0.000	-0.001
Cu		4	0.002	0.001	35			0.004	0.002	0.002	0.002
Dy		4	0.000	0.001	1407			0.001	-0.001	0.000	0.000
Eu		4	0.000	0.000	185			0.001	0.000	0.000	0.000
Fe		4	0.000	0.001	-205			0.000	-0.001	0.000	0.000
K		4	-0.115	0.315	-273			0.264	-0.292	0.008	-0.442
La		4	0.000	0.001	372			0.002	-0.001	0.000	0.000
Li		4	0.000	0.001	432			0.002	-0.001	-0.001	0.001
Mg		4	0.007	0.005	67			0.012	0.002	0.011	0.005
Mn		4	0.000	0.000	-559			-0.001	0.000	0.000	0.000
Mo		4	0.001	0.001	63			0.001	0.001	0.001	0.002
Na		4	0.051	0.101	198			0.023	-0.014	-0.005	0.202
Nd		4	0.000	0.008	5857			0.010	-0.008	0.000	-0.002
Ni		4	0.002	0.002	83			0.005	0.000	0.003	0.003
P		4	-0.001	0.020	-1837			0.007	-0.020	0.024	-0.015
Pb		4	-0.002	0.011	-568			0.014	-0.011	-0.003	-0.008
Pd		4	0.022	0.018	80			0.048	0.010	0.017	0.013
Rh		4	-0.001	0.008	-1343			0.011	-0.006	-0.001	-0.007
Sb		4	0.003	0.006	202			-0.004	-0.001	0.009	0.007
Se		4	-0.001	0.007	-1074			0.004	-0.001	0.004	-0.010
Si		4	0.086	0.096	112			0.216	0.100	0.032	-0.002
Sn		4	0.016	0.038	246			0.053	-0.003	0.042	-0.029
Sr		4	0.000	0.000	13			0.000	0.000	0.000	0.000
Te		4	0.004	0.008	212			0.013	-0.001	0.007	-0.005
Th		4	0.002	0.002	120			0.003	0.001	0.003	-0.001
Ti		4	0.000	0.000	2012			0.001	0.000	0.000	0.000
Tl		4	0.007	0.002	23			0.010	0.006	0.006	0.007
U		4	-0.027	0.089	-336			0.094	-0.096	-0.011	-0.093
V		4	0.000	0.001	-193			0.001	-0.001	0.000	-0.001
W		4	0.003	0.005	161			0.007	-0.001	-0.001	0.006
Y		4	0.000	0.000	-142			0.000	0.000	-0.001	0.000
Zn		4	0.000	0.001	-230			-0.001	-0.001	0.000	0.000
Zr		4	-0.001	0.001	-105			0.000	-0.001	0.000	-0.001
TIME		4	########	0.000	0			10000.000	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								SST-ICS-1 950908I10	S-1 950908I101		
								95D262A	95D262A		
								9/19/95	9/19/95		
Statistical Summary for 'SST-ICS-1 950908I101'								14:04	14:35		
(Interference Check Std for Na fusion)								CONC	CONC		
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	766	811		
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)		
Ag		2	0.063	0.000	1			0.063	0.063		
Al	100	2	93.834	0.967	1	-6.166	-6.2	93.150	94.518		
As		2	0.092	0.010	10			0.099	0.086		
B		2	0.012	0.002	14			0.011	0.013		
Ba		2	0.001	0.000	24			0.002	0.001		
Be		2	0.000	0.000	31			0.000	0.000		
Bi		2	0.126	0.003	2			0.124	0.128		
Ca		2	0.042	0.001	3			0.043	0.041		
Cd		2	0.014	0.002	14			0.015	0.013		
Ce		2	-0.041	0.009	-21			-0.034	-0.047		
Co		2	0.011	0.000	4			0.011	0.011		
Cr		2	0.028	0.000	2			0.028	0.028		
Cu		2	0.016	0.002	14			0.018	0.015		
Dy		2	0.007	0.001	8			0.007	0.007		
Eu		2	0.004	0.001	13			0.005	0.004		
Fe	20	2	18.367	0.143	1	-1.633	-8.2	18.265	18.468		
K		2	1.345	0.061	5			1.388	1.301		
La		2	0.027	0.000	0			0.027	0.027		
Li		2	0.016	0.001	4			0.017	0.016		
Mg		2	0.623	0.002	0			0.621	0.624		
Mn		2	0.004	0.000	5			0.004	0.004		
Mo		2	0.005	0.001	11			0.005	0.005		
Na	5000	2	3825.721	41.948	1	-1174.3	-23.5	3796.059	3855.382		
Nd		2	0.052	0.004	7			0.054	0.049		
Ni	50	2	48.562	0.461	1	-1.438	-2.9	48.236	48.888		
P		2	0.013	0.005	43			0.017	0.009		
Pb		2	0.275	0.012	4			0.284	0.266		
Pd		2	0.082	0.019	24			0.096	0.069		
Rh		2	0.129	0.006	4			0.133	0.125		
Sb		2	0.088	0.003	3			0.090	0.086		
Se		2	0.033	0.005	16			0.030	0.037		
Si		2	0.247	0.012	5			0.256	0.239		
Sn		2	1.032	0.035	3			1.057	1.006		
Sr		2	0.001	0.000	8			0.001	0.001		
Te		2	0.060	0.011	17			0.068	0.053		
Th		2	0.776	0.006	1			0.772	0.780		
Ti		2	0.007	0.000	4			0.007	0.007		
Tl		2	0.226	0.004	2			0.223	0.228		
U	50	2	41.471	0.343	1	-8.529	-17.1	41.228	41.714		
V		2	0.013	0.001	5			0.013	0.012		
W		2	0.056	0.000	0			0.056	0.056		
Y		2	0.008	0.000	2			0.008	0.007		
Zn		2	0.011	0.000	1			0.011	0.011		
Zr	10	2	9.268	0.077	1	-0.732	-7.3	9.214	9.323		
TIME		2	########	0.000	0			10000.000	########		

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								SST-ICS-2 950908I10	S-2 950908I102		
								95D262A	95D262A		
								9/19/95	9/19/95		
Statistical Summary for 'SST-ICS-2 950908I102'								13:31	14:31		
(Interference Check Std for KOH fusion)								CONC	CONC		
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	856	901		
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)		
Ag		2	0.068	0.001	1			0.069	0.068		
Al	100	2	96.699	2.076	2	-3.301	-3.3	95.231	98.167		
As		2	0.097	0.010	11			0.090	0.104		
B		2	0.014	0.001	5			0.014	0.013		
Ba		2	0.002	0.000	1			0.002	0.002		
Be		2	0.000	0.000	9			0.000	0.000		
Bi		2	0.135	0.004	3			0.138	0.132		
Ca		2	0.051	0.001	2			0.050	0.051		
Cd		2	0.015	0.000	2			0.015	0.015		
Ce		2	-0.043	0.005	-11			-0.040	-0.047		
Co		2	0.013	0.001	4			0.013	0.014		
Cr		2	0.030	0.002	8			0.029	0.032		
Cu		2	-0.025	0.003	-10			-0.023	-0.027		
Dy		2	0.008	0.000	2			0.008	0.008		
Eu		2	0.005	0.000	2			0.005	0.005		
Fe	20	2	19.295	0.294	2	-0.705	-3.5	19.087	19.502		
K	5000	2	4370.721	75.873	2	######	-12.6	4317.070	4424.372		
La		2	0.027	0.000	1			0.027	0.027		
Li		2	0.011	0.000	2			0.011	0.011		
Mg		2	0.667	0.018	3			0.654	0.680		
Mn		2	0.004	0.000	7			0.004	0.004		
Mo		2	0.007	0.000	2			0.007	0.007		
Na		2	0.402	0.019	5			0.388	0.416		
Nd		2	0.055	0.003	6			0.058	0.053		
Ni	50	2	51.009	0.918	2	1.009	2.0	50.360	51.658		
P		2	0.040	0.005	13			0.044	0.036		
Pb		2	0.316	0.000	0			0.316	0.316		
Pd		2	0.094	0.021	22			0.109	0.080		
Rh		2	0.140	0.001	0			0.140	0.141		
Sb		2	0.106	0.003	3			0.104	0.108		
Se		2	0.045	0.012	27			0.053	0.036		
Si		2	0.323	0.026	8			0.341	0.304		
Sn		2	1.169	0.010	1			1.176	1.162		
Sr		2	0.001	0.000	3			0.001	0.001		
Te		2	0.084	0.003	4			0.086	0.082		
Th		2	0.826	0.021	3			0.812	0.841		
Ti		2	0.008	0.000	4			0.008	0.008		
Tl		2	0.229	0.001	0			0.228	0.230		
U	50	2	43.770	0.750	2	-6.230	-12.5	43.240	44.300		
V		2	0.015	0.000	1			0.015	0.015		
W		2	0.067	0.006	9			0.063	0.071		
Y		2	0.008	0.000	1			0.008	0.008		
Zn		2	0.014	0.002	13			0.013	0.016		
Zr	10	2	9.674	0.154	2	-0.326	-3.3	9.565	9.783		
TIME		2	########	0.000	0			10000.000	########		

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Profile 950814I101		Maint	K28798	950262A	ICP1	9/19/95
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓		✓						SPC-STD 950731I101						
	4	✓				✓	✓				STD1-Blank 108444					ICP6	
	5	✓				✓					" 2 950830I10 2						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓				✓	✓				STD1-Blank 108444		Silvers BY-108	K29966		ICP1	
	15	✓				✓					" 2 950830I10 2						
	16	✓				✓					" 3 3						
	17	✓				✓					" 4 4						
	18	✓				✓					" 5 5						
	19	✓				✓					" 6 6						
	20	✓				✓					" 7 7						
	21	✓				✓					" 8 8						
	22	✓				✓					" 9 9						
	23	✓					✓				" 1-Blank 108444						
	24	✓							✓	PASS	MCVA 960728I901						
	25	✓							✓	PASS ⊗	MCVB 950911H901						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\QPRO\PROGRAMS\RUNLOG.TJ2 (04-02-93)

⊗ Pd, Sn, W, U - N/A for QC. on MCVB. DKS 9/19/95

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓						✓			SST-ICS-2 950908I102		Silvers	K28966	950262A	ICP1	9/19/95 DP
	2						✓				STD1-Blank 108444						
	3									95-007941-HCB	1st Sample KOH/Ni Prep Blank	5X					
	4									95-007941-HCB-PS	2nd " " " " Post Spike	5X					
	5									95-007941-HIT	3rd Sample Sample	5X					
	6									95-007941-HIT	4th Sample " Post Spike	5X					
	7								✓	Fail-Si Low	MCVA 950728I901						
	8								✓	PASS	" "						
	9								✓	PASS (X)	MCVB 950911H901						
	10										SST-ICS-1 950905I101						
	11									95-007941-N3	5th Sample Na2O2/Zr Prep Blank	5X					
	12									95-007941-N3-PS	6th " " " " " Post Spike	5X					
	13									95-007941-N1	7th " Sample	5X					
	14									95-007941-N1	8th " " Post Spike	5X					
	15								✓	PASS	MCVA 950728I901						
	16								✓	PASS (X)	MCVB 950911H901						
	17							✓			SST-ICS-2 950908I102						
	18							✓			SST-ICS-1 950908I101						
	19						✓				STD1-Blank 108444						
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x).
file: C:\OPRO\PROGRAMS\RUNLOG.TJ2 (04-02-93)

3-839

Analysis Report Summary Tue 09-19-95 02:45:23 PM page 1

95D262A ICP-325-VOS-1 9/14/95 AKL

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D262A	ICP1	09/19/95	10:23	DRS	S	INT
2	SPC-BLK 108444	95D262A	ICP1	09/19/95	10:23	DRS	S	CONC
3	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:26	DRS	S	INT
4	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:27	DRS	S	INT
5	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:27	DRS	S	CONC
6	STD1-Blank	95D262A	ICP0	09/19/95	10:38		X	IR
7	STD2	95D262A	ICP0	09/19/95	10:40		X	IR
8	STD3	95D262A	ICP0	09/19/95	10:44		X	IR
9	STD4	95D262A	ICP0	09/19/95	10:49		X	IR
10	STD5	95D262A	ICP0	09/19/95	10:53		X	IR
11	STD6	95D262A	ICP0	09/19/95	10:57		X	IR
12	STD7	95D262A	ICP0	09/19/95	11:01		X	IR
13	STD8	95D262A	ICP0	09/19/95	11:04		X	IR
14	STD9	95D262A	ICP0	09/19/95	11:09		X	IR
15	STD1-Blank 108444	95D262A	ICP0	09/19/95	11:18	DRS	S	CONC
16	STD1-Blank	95D262A	ICP1	09/19/95	12:40		X	IR
17	STD2	95D262A	ICP1	09/19/95	12:42		X	IR
18	STD3	95D262A	ICP1	09/19/95	12:45		X	IR
19	STD4	95D262A	ICP1	09/19/95	12:49		X	IR
20	STD5	95D262A	ICP1	09/19/95	12:52		X	IR
21	STD6	95D262A	ICP1	09/19/95	12:56		X	IR
22	STD7	95D262A	ICP1	09/19/95	12:59		X	IR
23	STD8	95D262A	ICP1	09/19/95	13:03		X	IR
24	STD9	95D262A	ICP1	09/19/95	13:06		X	IR
25	STD1-Blank 108444	95D262A	ICP1	09/19/95	13:16	DRS	S	CONC
26	MCVA 950728I901	95D262A	ICP1	09/19/95	13:23	DRS	Q	CONC
27	MCVB 950911H901	95D262A	ICP1	09/19/95	13:27	DRS	Q	CONC
28	SST-ICS-2 950908I102	95D262A	ICP1	09/19/95	13:31	DRS	S	CONC
29	STD1-Blank 108444	95D262A	ICP1	09/19/95	13:35	DRS	S	CONC
30	FIRST SAMP PREP BLK	95D262A	ICP1	09/19/95	13:39	DRS	S	CONC
31	2ND SAMPLE PREP BLK	95D262A	ICP1	09/19/95	13:43	DRS	S	CONC
32	3RD SAMP SAMPLE @5	95D262A	ICP1	09/19/95	13:46	DRS	S	CONC
33	4TH SAMP PS @5	95D262A	ICP1	09/19/95	13:50	DRS	S	CONC
34	MCVA 950728I901	95D262A	ICP1	09/19/95	13:54	DRS	Q	CONC
35	MCVA 950728I901	95D262A	ICP1	09/19/95	13:57	DRS	Q	CONC
36	MCVB 950911H901	95D262A	ICP1	09/19/95	14:01	DRS	Q	CONC
37	SST-ICS-1 950908I101	95D262A	ICP1	09/19/95	14:04	DRS	S	CONC
38	5TH SAMP PREP BLK @5	95D262A	ICP1	09/19/95	14:08	DRS	S	CONC
39	6TH SAMP BLK-PS @5	95D262A	ICP1	09/19/95	14:12	DRS	S	CONC
40	7TH SAMP SAMPLE @5	95D262A	ICP1	09/19/95	14:16	DRS	S	CONC
41	8TH SAMPLE PS @5	95D262A	ICP1	09/19/95	14:20	DRS	S	CONC
42	MCVA 950728I901	95D262A	ICP1	09/19/95	14:24	DRS	Q	CONC
43	MCVB 950911H901	95D262A	ICP1	09/19/95	14:28	DRS	Q	CONC
44	SST-ICS-2 950908I102	95D262A	ICP1	09/19/95	14:31	DRS	S	CONC
45	SST-ICS-1 950908I101	95D262A	ICP1	09/19/95	14:35	DRS	S	CONC
46	STD1-Blank 108444	95D262A	ICP1	09/19/95	14:39	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	8387.67	2588	2225.33	1381	382.333	192.333
2	SPC-BLK 108444	.0504	.2195	.2023	.0337	.0098	.0006
3	SPC-STD 950831I101	8377.33	2582.33	2208.67	1362	383	192.333
4	SPC-STD 950831I101	8506.67	2625	2270.33	1413.67	386.667	193.333
5	SPC-STD 950831I101	.0543	.2201	.2196	.0371	.0104	.0006
6	STD1-Blank	.84566	.26129	.22263	.13693	.03863	.01936
7	STD2					7.57656	
8	STD3		57.9372		45.3185		
9	STD4						
10	STD5			22.871			
11	STD6						
12	STD7						2.07753
13	STD8	22.8974					
14	STD9						
15	STD1-Blank 108444	.0016	.0072	.0157	.0091	.0004	.0000
16	STD1-Blank	.84906	.2632	.22786	.1409	.03903	.0195
17	STD2					7.59933	
18	STD3		59.4483		46.3166		
19	STD4						
20	STD5			23.7895			
21	STD6						
22	STD7						2.1741
23	STD8	24.3225					
24	STD9						
25	STD1-Blank 108444	-.0012	-.0064	-.0054	.0050	-.0003	.0000
26	MCVA 950728I901	.4707	24.77	2.520	1.971	.5191	.0918
27	MCVB 950911H901	.0168	.0300	.0441	.0045	.0000	-.0000
28	SST-ICS-2 950908I102	.0688	95.23	.0897	.0142	.0024	.0002
29	STD1-Blank 108444	-.0007	.0035	-.0067	.0007	-.0001	-.0000
30	FIRST SAMP PREP BLK	.0085	.2250	.0371	.0814	.0028	.0001
31	2ND SAMPLE PREP BLK	.1203	14.04	.5386	.4496	.0943	.0179
32	3RD SAMP SAMPLE @5	.0083	29.11	.0358	.0889	.0058	.0002
33	4TH SAMP PS @5	.1230	42.74	.5658	.4635	.0997	.0184
34	MCVA 950728I901	.4716	24.54	2.507	1.944	.5081	.0901
35	MCVA 950728I901	.4780	24.81	2.533	1.975	.5139	.0911
36	MCVB 950911H901	.0220	.0666	.0726	.0050	.0009	.0000
37	SST-ICS-1 950908I101	.0630	93.15	.0990	.0106	.0017	.0001
38	5TH SAMP PREP BLK @5	.0169	.0849	.0186	.1365	.0036	.0001
39	6TH SAMP BLK-PS @5	.1324	14.37	.5617	.5169	.0964	.0181
40	7TH SAMP SAMPLE @5	.0081	32.37	.0214	.2213	.0049	.0002
41	8TH SAMPLE PS @5	.1211	45.26	.5591	.5909	.0966	.0181
42	MCVA 950728I901	.4817	25.32	2.585	2.013	.5265	.0924
43	MCVB 950911H901	.0213	.0710	.0592	.0038	.0008	.0001
44	SST-ICS-2 950908I102	.0678	98.17	.1044	.0132	.0024	.0001
45	SST-ICS-1 950908I101	.0625	94.52	.0855	.0131	.0012	.0001
46	STD1-Blank 108444	-.0008	-.0017	-.0089	.0008	-.0004	.0000

Analysis Report Averages Tue 09-19-95 02:45:23 PM page 3

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1866	1709	579	7927.67	1877.67	600.333
2	SPC-BLK 108444	.1742	.1379	.0128	.3274	.0538	.0219
3	SPC-STD 950831I101	1851.33	1710	583.333	7935	1868	613
4	SPC-STD 950831I101	2089.33	1566.67	576.667	7995.33	1894.67	626
5	SPC-STD 950831I101	.1791	.0885	.0124	.3414	.0558	.0263
6	STD1-Blank	.18823	.17229	.0584	.79949	.18873	.06133
7	STD2					16.9242	11.8826
8	STD3		76.8899	7.44959			
9	STD4						
10	STD5				22.9633		
11	STD6						
12	STD7						
13	STD8	19.0948					
14	STD9						
15	STD1-Blank 108444	.0009	.0027	.0019	.0080	.0024	.0005
16	STD1-Blank	.1911	.16743	.05913	.80313	.19086	.06303
17	STD2					17.1959	12.021
18	STD3		79.0414	7.66246			
19	STD4						
20	STD5				23.5204		
21	STD6						
22	STD7						
23	STD8	20.3474					
24	STD9						
25	STD1-Blank 108444	-.0127	.0020	-.0006	-.0161	.0006	-.0006
26	MCVA 950728I901	23.83	24.55	.4863	-.0507	1.015	1.022
27	MCVB 950911H901	.0115	.0046	-.0001	2.038	.0027	.0015
28	SST-ICS-2 950908I102	.1379	.0498	.0147	-.0397	.0130	.0286
29	STD1-Blank 108444	-.0043	.0039	-.0006	.0007	.0007	-.0001
30	FIRST SAMP PREP BLK	.0329	.0730	.0044	.0422	.0110	.0095
31	2ND SAMPLE PREP BLK	4.646	9.433	.3456	.0570	.2079	1.637
32	3RD SAMP SAMPLE @5	.0833	.1505	.0050	.0415	.0136	.0279
33	4TH SAMP PS @5	4.821	9.836	.3483	.0488	.2137	1.701
34	MCVA 950728I901	23.67	24.48	.4902	-.0224	1.011	1.007
35	MCVA 950728I901	23.94	24.75	.4924	-.0322	1.023	1.022
36	MCVB 950911H901	.0191	.0128	.0005	2.071	.0059	.0014
37	SST-ICS-1 950908I101	.1242	.0428	.0153	-.0344	.0114	.0284
38	5TH SAMP PREP BLK @5	.0358	2.014	.0004	-.0935	.0081	.0110
39	6TH SAMP BLK-PS @5	4.861	10.72	.3552	-.0667	.2100	1.677
40	7TH SAMP SAMPLE @5	.0278	1.117	.0015	.0501	.0085	.0396
41	8TH SAMPLE PS @5	4.748	10.53	.3431	.0654	.2059	1.677
42	MCVA 950728I901	24.33	24.93	.4926	-.0409	1.032	1.031
43	MCVB 950911H901	.0172	.0122	.0012	2.056	.0058	.0024
44	SST-ICS-2 950908I102	.1321	.0514	.0151	-.0465	.0138	.0322
45	SST-ICS-1 950908I101	.1280	.0409	.0126	-.0467	.0108	.0277
46	STD1-Blank 108444	-.0061	.0068	-.0004	-.0030	.0007	-.0013

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	577	2434.67	428	725.667	2614.33	1258.67
2	SPC-BLK 108444	.0423	.0461	.0142	.0398	9.015	.0813
3	SPC-STD 950831I101	574.333	2432.33	427.333	725.333	2612.33	1258.67
4	SPC-STD 950831I101	18492.3	2620.67	431.333	780.667	2635.33	1269.67
5	SPC-STD 950831I101	8.740	.0402	.0147	.0403	9.425	.0848
6	STD1-Blank	.05846	.2452	.04316	.07303	.26326	.1271
7	STD2	3.66143			71.6045		
8	STD3					2.34279	
9	STD4		47.3686	10.7581			5.5269
10	STD5						
11	STD6						
12	STD7						
13	STD8						
14	STD9						
15	STD1-Blank 108444	.0035	.0005	.0006	.0005	.2645	.0022
16	STD1-Blank	.05866	.24636	.04346	.07363	.2626	.12773
17	STD2	3.66649			72.2312		
18	STD3					2.3758	
19	STD4		48.1317	10.9831			5.65993
20	STD5						
21	STD6						
22	STD7						
23	STD8						
24	STD9						
25	STD1-Blank 108444	.0023	-.0007	-.0001	-.0012	-.2918	-.0010
26	MCVA 950728I901	1.003	-.0023	.0012	20.30	26.41	.0051
27	MCVB 950911H901	-.0028	2.044	2.026	.0045	.0552	2.019
28	SST-ICS-2 950908I102	-.0230	.0077	.0047	19.09	4317.	.0271
29	STD1-Blank 108444	.0019	.0001	.0001	-.0003	.0079	.0001
30	FIRST SAMP PREP BLK	-.0049	.0058	.0017	.1354	2187.	.0126
31	2ND SAMPLE PREP BLK	.1846	.0055	.0031	3.962	2162.	.0232
32	3RD SAMP SAMPLE @5	.0032	.0071	.0018	.3229	2196.	.0125
33	4TH SAMP PS @5	.1957	.0057	.0027	4.246	2169.	.0216
34	MCVA 950728I901	.9845	.0012	.0022	20.08	27.12	.0104
35	MCVA 950728I901	.9972	.0012	.0022	20.29	26.82	.0105
36	MCVB 950911H901	.0001	2.039	2.027	.0088	.6073	2.034
37	SST-ICS-1 950908I101	.0179	.0073	.0046	18.27	1.388	.0272
38	5TH SAMP PREP BLK @5	.0158	.0096	.0035	.0693	1.743	.0165
39	6TH SAMP BLK-PS @5	.2116	.0088	.0046	3.976	25.13	.0253
40	7TH SAMP SAMPLE @5	.0344	.0063	.0021	.3200	1.506	.0141
41	8TH SAMPLE PS @5	.2256	.0064	.0033	4.156	24.52	.0247
42	MCVA 950728I901	1.016	-.0014	.0016	20.57	27.10	.0071
43	MCVB 950911H901	-.0007	2.024	2.009	.0071	.5521	2.019
44	SST-ICS-2 950908I102	-.0266	.0076	.0046	19.50	4424.	.0273
45	SST-ICS-1 950908I101	.0148	.0065	.0038	18.47	1.301	.0273
46	STD1-Blank 108444	.0017	.0002	.0000	-.0003	-.4417	.0001

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	507.667	3059.67	252.333	1060.67	537	4650.33
2	SPC-BLK 108444	.0338	.2403	.0067	.0444	.5325	.2890
3	SPC-STD 950831I101	508.667	3060.67	252.667	1062.33	538	4650.67
4	SPC-STD 950831I101	26303.7	3159	65164.3	1099.67	545.667	4679.33
5	SPC-STD 950831I101	10.42	.2474	9.965	.0465	.5719	.2976
6	STD1-Blank	.0513	.30883	.026	.10716	.05449	.46843
7	STD2		38.8219		11.9222	4.82293	
8	STD3	11.9467		6.39236			
9	STD4						15.7539
10	STD5						
11	STD6						
12	STD7						
13	STD8						
14	STD9						
15	STD1-Blank 108444	.0021	.0117	-.0007	.0008	.0227	.0105
16	STD1-Blank	.05156	.31009	.02559	.10876	.05453	.47123
17	STD2		39.3145		12.1008	4.80626	
18	STD3	12.0572		6.54376			
19	STD4						16.0192
20	STD5						
21	STD6						
22	STD7						
23	STD8						
24	STD9						
25	STD1-Blank 108444	-.0008	.0017	.0002	.0006	-.0138	-.0078
26	MCVA 950728I901	2.085	26.13	.5058	1.035	26.44	-.0027
27	MCVB 950911H901	.0010	.1611	.0009	.0003	.0322	2.020
28	SST-ICS-2 950908I102	.0107	.6538	.0044	.0072	.3882	.0578
29	STD1-Blank 108444	-.0007	.0108	.0002	.0009	-.0053	-.0003
30	FIRST SAMP PREP BLK	.0265	.0512	.0409	.0076	1.000	.0365
31	2ND SAMPLE PREP BLK	.3646	5.306	.2321	.2022	20.06	.0533
32	3RD SAMP SAMPLE @5	.0243	.1148	.0661	.0056	21.67	.0391
33	4TH SAMP PS @5	.3734	5.477	.2623	.2022	40.64	.0496
34	MCVA 950728I901	2.053	26.00	.5002	1.022	26.33	.0170
35	MCVA 950728I901	2.057	26.27	.5054	1.035	26.32	.0168
36	MCVB 950911H901	.0034	.1923	.0012	.0031	.0861	2.040
37	SST-ICS-1 950908I101	.0167	.6212	.0041	.0054	3796.	.0544
38	5TH SAMP PREP BLK @5	.0096	.0713	.0028	.0072	2130.	.0549
39	6TH SAMP BLK-PS @5	.3550	5.462	.1985	.2020	2118.	.0685
40	7TH SAMP SAMPLE @5	.0180	.0815	.0079	.0051	2185.	.0438
41	8TH SAMPLE PS @5	.3573	5.369	.2003	.2002	2122.	.0602
42	MCVA 950728I901	2.146	26.59	.5119	1.047	Q27.57	-.0004
43	MCVB 950911H901	.0039	.1869	.0013	.0033	.1129	2.023
44	SST-ICS-2 950908I102	.0110	.6798	.0040	.0070	.4157	.0529
45	SST-ICS-1 950908I101	.0159	.6242	.0039	.0046	3855.	.0493
46	STD1-Blank 108444	.0007	.0046	-.0000	.0021	.2018	-.0019

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	606.333	1686.67	17574	19434.7	19358.7	3442.33
2	SPC-BLK 108444	.0463	.2960	.3871	.8362	.4157	.2386
3	SPC-STD 950831I101	605	1708	17593.7	19406	19299.7	3472
4	SPC-STD 950831I101	617	1821.33	114863	19626	19467.3	3553
5	SPC-STD 950831I101	.0500	.2963	9.290	.8767	.4263	.2714
6	STD1-Blank	.06043	.17023	1.77719	1.95743	1.94863	.35053
7	STD2	5.66839		48.4081			
8	STD3		12.4302				
9	STD4						
10	STD5						27.0093
11	STD6						
12	STD7						
13	STD8						
14	STD9				18.7164	42.8699	
15	STD1-Blank 108444	.0045	.0065	.0138	.0481	.0113	-.0035
16	STD1-Blank	.06156	.17386	1.79659	1.97083	1.96023	.35293
17	STD2	5.76329		49.2685			
18	STD3		12.7695				
19	STD4						
20	STD5						28.1074
21	STD6						
22	STD7						
23	STD8						
24	STD9				19.2646	44.2751	
25	STD1-Blank 108444	-.0004	-.0201	-.0107	.0101	-.0062	-.0008
26	MCVA 950728I901	1.036	.0002	2.523	-.0483	-.0173	2.533
27	MCVB 950911H901	.0048	-.0244	.0650	Q3.094	2.073	.0191
28	SST-ICS-2 950908I102	50.36	.0435	.3163	.1089	.1401	.1040
29	STD1-Blank 108444	.0029	.0238	-.0027	.0169	-.0005	.0090
30	FIRST SAMP PREP BLK	4.806	.0453	.0696	.1236	.0704	.0383
31	2ND SAMPLE PREP BLK	9.821	.0852	5.606	.1321	.0974	.5468
32	3RD SAMP SAMPLE @5	21.23	4.984	.0901	.1388	.0677	.0521
33	4TH SAMP PS @5	25.94	4.927	5.757	.1156	.0911	.5840
34	MCVA 950728I901	1.037	.0360	2.555	.0243	.0127	2.515
35	MCVA 950728I901	1.051	.0492	2.571	.0117	.0130	2.564
36	MCVB 950911H901	.0062	.0062	.0830	Q3.155	2.132	.0249
37	SST-ICS-1 950908I101	48.24	.0167	.2837	.0962	.1326	.0900
38	5TH SAMP PREP BLK @5	.1085	.0234	.0576	.1769	.0682	.0383
39	6TH SAMP BLK-PS @5	5.302	.0563	5.757	.1544	.0956	.5569
40	7TH SAMP SAMPLE @5	.1523	1.078	.0723	.1462	.0594	.0398
41	8TH SAMPLE PS @5	5.272	1.100	5.674	.1347	.0889	.5579
42	MCVA 950728I901	1.056	.0338	2.574	-.0318	-.0129	2.585
43	MCVB 950911H901	.0079	.0016	.0771	Q3.158	2.111	.0270
44	SST-ICS-2 950908I102	51.66	.0360	.3161	.0798	.1408	.1079
45	SST-ICS-1 950908I101	48.89	.0089	.2664	.0687	.1247	.0863
46	STD1-Blank 108444	.0030	-.0146	-.0083	.0131	-.0071	.0073

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	2060.67	4829	8917.33	175.333	13056.7	3000
2	SPC-BLK 108444	.2924	.2298	1.514	.0033	.3104	.0709
3	SPC-STD 950831I101	2047.33	4815.67	8688	175.333	13045.7	2997.33
4	SPC-STD 950831I101	2072	4906	9000.33	176	13686.7	3034.33
5	SPC-STD 950831I101	.2986	.2472	1.528	.0033	.3178	.0774
6	STD1-Blank	.20559	.4896	.89563	.01769	1.31066	.30226
7	STD2				8.25773		
8	STD3						
9	STD4						11.7473
10	STD5						
11	STD6						
12	STD7		61.2638			43.114	
13	STD8	3.56299					
14	STD9			6.76606			
15	STD1-Blank 108444	.0044	.2158	.0525	.0003	.0126	.0031
16	STD1-Blank	.21113	.4851	.9024	.01793	1.32896	.30376
17	STD2				8.37546		
18	STD3						
19	STD4						12.0716
20	STD5						
21	STD6						
22	STD7		64.4211			45.4993	
23	STD8	3.7906					
24	STD9			6.96386			
25	STD1-Blank 108444	-.0015	.0997	-.0034	.0002	-.0006	.0007
26	MCVA 950728I901	2.394	18.09	.1517	.5246	-.0024	.0434
27	MCVB 950911H901	.0010	.1466	2.181	.0006	1.836	5.211
28	SST-ICS-2 950908I102	.0530	.3409	1.176	.0011	.0862	.8118
29	STD1-Blank 108444	.0044	.0318	.0416	.0003	.0069	.0033
30	FIRST SAMP PREP BLK	.0393	.4233	.2588	.0016	.0468	.0124
31	2ND SAMPLE PREP BLK	.5135	13.42	.5832	.0942	.0604	.3140
32	3RD SAMP SAMPLE @5	.0149	1.476	.3047	.0062	.0421	.0119
33	4TH SAMP PS @5	.5156	14.84	.5849	.1015	.0608	.3263
34	MCVA 950728I901	2.371	Q17.96	.2407	.5142	.0098	.0375
35	MCVA 950728I901	2.415	18.15	.2445	.5204	.0110	.0439
36	MCVB 950911H901	.0135	.1409	Q2.383	.0009	1.879	5.272
37	SST-ICS-1 950908I101	.0296	.2557	1.057	.0012	.0678	.7719
38	5TH SAMP PREP BLK @5	.0348	.1081	.3118	.0143	.0502	.0247
39	6TH SAMP BLK-PS @5	.5249	13.62	.6066	.1078	.0544	.3360
40	7TH SAMP SAMPLE @5	.0088	.8060	.2135	.0182	.0274	.0092
41	8TH SAMPLE PS @5	.4996	14.06	.5399	.1108	.0408	.3137
42	MCVA 950728I901	2.431	18.44	.1779	.5327	-.0091	.0377
43	MCVB 950911H901	.0185	.1264	Q2.331	.0008	1.848	5.207
44	SST-ICS-2 950908I102	.0362	.3042	1.162	.0011	.0818	.8410
45	SST-ICS-1 950908I101	.0370	.2386	1.006	.0011	.0529	.7799
46	STD1-Blank 108444	-.0098	-.0024	-.0286	.0003	-.0045	-.0007

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#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	808.667	461	21897.3	1257.33	394.667	321
2	SPC-BLK 108444	.0185	.1927	4.802	.0422	.1377	.0195
3	SPC-STD 950831I101	807.667	456	21883.7	1254.67	390.333	321
4	SPC-STD 950831I101	817.333	477	22090.7	1271	398	323
5	SPC-STD 950831I101	.0196	.2227	4.996	.0444	.1316	.0201
6	STD1-Blank	.0815	.04606	2.21143	.12673	.03936	.03233
7	STD2	14.4399					
8	STD3						
9	STD4						
10	STD5				12.0567		3.02286
11	STD6			50.7353			
12	STD7						
13	STD8		1.12826				
14	STD9					3.24366	
15	STD1-Blank 108444	.0006	.0099	.0938	.0006	.0073	.0003
16	STD1-Blank	.08186	.04589	2.22296	.12736	.03959	.03253
17	STD2	14.5518					
18	STD3						
19	STD4						
20	STD5				12.3867		3.08186
21	STD6			53.0859			
22	STD7						
23	STD8		1.18133				
24	STD9					3.32019	
25	STD1-Blank 108444	-.0003	.0061	-.0958	-.0008	-.0013	-.0005
26	MCVA 950728I901	1.010	2.419	-.1971	.9835	.0210	-.0007
27	MCVB 950911H901	.0013	.0176	08.463	-.0020	0.5138	1.005
28	SST-ICS-2 950908I102	.0080	.2284	43.24	.0152	.0627	.0083
29	STD1-Blank 108444	-.0001	.0065	-.0113	-.0003	-.0010	-.0005
30	FIRST SAMP PREP BLK	.0494	.0311	.4808	.0054	.0273	.0018
31	2ND SAMPLE PREP BLK	.2369	.5215	17.80	.1921	.0298	.0045
32	3RD SAMP SAMPLE @5	.0784	.0899	.5848	.0139	.0303	.0020
33	4TH SAMP PS @5	.2696	.5852	18.23	.2044	.0415	.0040
34	MCVA 950728I901	.9957	2.412	.1191	.9726	.0223	.0003
35	MCVA 950728I901	1.007	2.449	.0989	.9833	.0301	.0004
36	MCVB 950911H901	.0027	.0220	08.609	.0007	0.5316	1.009
37	SST-ICS-1 950908I101	.0074	.2233	41.23	.0135	.0564	.0077
38	5TH SAMP PREP BLK @5	.0048	.0332	.2192	.0066	.0179	.0034
39	6TH SAMP BLK-PS @5	.1965	.5281	17.55	.1961	.0341	.0056
40	7TH SAMP SAMPLE @5	.0141	.0800	.5845	.0174	.0154	.0020
41	8TH SAMPLE PS @5	.2027	.5766	17.78	.2044	.0242	.0046
42	MCVA 950728I901	1.026	2.476	-.1341	.9966	.0217	-.0007
43	MCVB 950911H901	.0024	.0227	08.446	.0002	0.5255	.9955
44	SST-ICS-2 950908I102	.0075	.2299	44.30	.0150	.0712	.0082
45	SST-ICS-1 950908I101	.0070	.2284	41.71	.0125	.0565	.0074
46	STD1-Blank 108444	-.0001	.0069	-.0928	-.0007	.0064	-.0005

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	436	1030
2	SPC-BLK 108444	.0070	.0367
3	SPC-STD 950831I101	445.333	1029
4	SPC-STD 950831I101	116652	1037.67
5	SPC-STD 950831I101	8.316	.0377
6	STD1-Blank	.04459	.10383
7	STD2	23.2699	25.7728
8	STD3		
9	STD4		
10	STD5		
11	STD6		
12	STD7		
13	STD8		
14	STD9		
15	STD1-Blank 108444	-.0006	.0000
16	STD1-Blank	.04443	.10426
17	STD2	23.7471	25.9347
18	STD3		
19	STD4		
20	STD5		
21	STD6		
22	STD7		
23	STD8		
24	STD9		
25	STD1-Blank 108444	-.0005	-.0009
26	MCVA 950728I901	.9869	2.069
27	MCVB 950911H901	.0022	.0129
28	SST-ICS-2 950908I102	.0131	9.565
29	STD1-Blank 108444	-.0002	-.0002
30	FIRST SAMP PREP BLK	.0098	.0301
31	2ND SAMPLE PREP BLK	.2065	.8651
32	3RD SAMP SAMPLE @5	.0219	.0372
33	4TH SAMP PS @5	.2222	.8996
34	MCVA 950728I901	.9895	2.038
35	MCVA 950728I901	.9986	2.061
36	MCVB 950911H901	.0018	.0093
37	SST-ICS-1 950908I101	.0105	9.214
38	5TH SAMP PREP BLK @5	.0236	10.04
39	6TH SAMP BLK-PS @5	.2178	10.77
40	7TH SAMP SAMPLE @5	.0161	.0878
41	8TH SAMPLE PS @5	.2201	.9395
42	MCVA 950728I901	1.015	2.094
43	MCVB 950911H901	.0013	.0077
44	SST-ICS-2 950908I102	.0157	9.783
45	SST-ICS-1 950908I101	.0107	9.323
46	STD1-Blank 108444	.0005	-.0014

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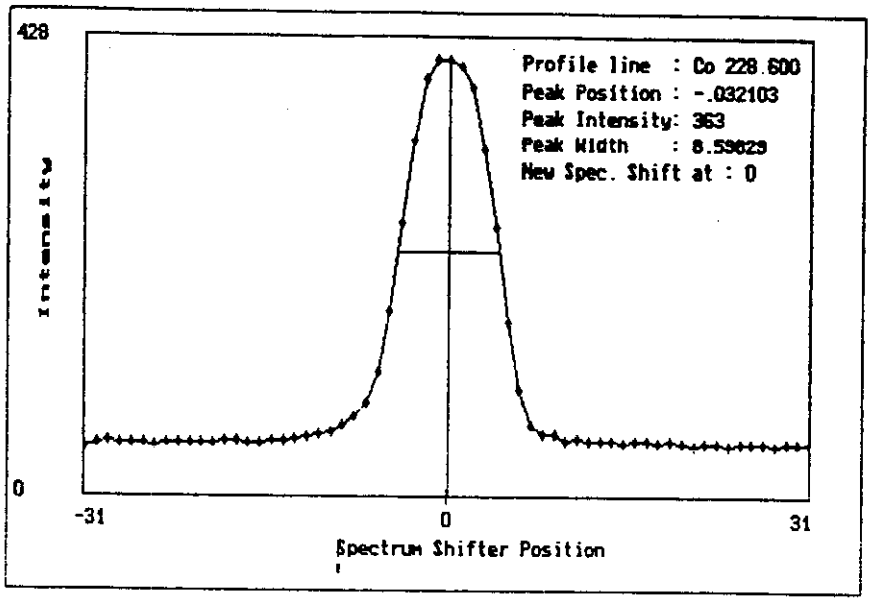

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/19/95 10:23:52
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8388	2588	2225	1381	382	192	1866
SDev	16	5	17	6	1	1	10
%RSD	.1927	.1771	.7443	.4522	.3020	.3002	.5112
#1	8385	2584	2208	1379	381	192	1872
#2	8373	2587	2227	1376	383	192	1871
#3	8405	2593	2241	1388	383	193	1855

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1709	579	7928	1878	600	577	2435
SDev	1	17	31	9	14	0	6
%RSD	.0585	2.951	.3911	.4530	2.249	.0000	.2641
#1	1709	561	7927	1881	587	577	2432
#2	1708	595	7897	1868	614	577	2430
#3	1710	581	7959	1884	600	577	2442

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	428	726	2614	1259	508	3060	252
SDev	1	3	5	2	2	13	1
%RSD	.2336	.3468	.1808	.1214	.3009	.4138	.4576
#1	428	723	2616	1260	509	3074	253
#2	427	726	2609	1257	506	3055	251
#3	429	728	2618	1259	508	3050	253

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1061	537	4650	606	1687	17570	19430
SDev	7	2	22	5	15	41	59
%RSD	.6820	.3724	.4624	.8136	.8639	.2310	.3049
#1	1057	539	4645	603	1685	17540	19420
#2	1056	535	4632	612	1673	17620	19390
#3	1069	537	4674	604	1702	17570	19500

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19360	3442	2061	4829	8917	175	13060
SDev	64	6	25	16	19	1	41
%RSD	.3291	.1868	1.218	.3235	.2084	.3293	.3160
#1	19330	3435	2037	4837	8912	175	13060
#2	19320	3447	2087	4811	8938	175	13010
#3	19430	3445	2058	4839	8902	176	13090

Elem	Th	Ti	Tl	U	V	W	Y
Avge	3000	809	461	21900	1257	395	321
SDev	10	3	5	51	1	4	1
%RSD	.3283	.3975	1.148	.2322	.0459	.8898	.3115
#1	3008	811	465	21920	1257	391	322
#2	2989	805	455	21840	1257	398	320
#3	3003	810	463	21940	1258	395	321

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Elem	Zn	Zr
Avge	436	1030
SDev	7	3
%RSD	1.606	.3363
#1	429	1032
#2	436	1026
#3	443	1032

Analysis Report Tue 09-19-95 10:25:53 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/19/95 10:23:52
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0504	.2195	.2023	.0337	.0098	.0006	.1742
SDev	.0004	.0034	.0065	.0006	.0002	.0000	.0040
%RSD	.8670	1.527	3.221	1.881	1.583	5.196	2.310
#1	.0503	.2157	.1954	.0335	.0097	.0006	.1767
#2	.0501	.2208	.2032	.0332	.0099	.0006	.1764
#3	.0509	.2221	.2084	.0344	.0099	.0006	.1696

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1379	.0128	.3274	.0538	.0219	.0423	.0461
SDev	.0002	.0018	.0066	.0010	.0023	.0002	.0006
%RSD	.1432	14.14	2.016	1.903	10.56	.3715	1.388
#1	.1378	.0109	.3272	.0542	.0196	.0423	.0458
#2	.1377	.0145	.3209	.0526	.0243	.0425	.0457
#3	.1381	.0130	.3341	.0546	.0219	.0422	.0468

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0142	.0398	9.015	.0813	.0338	.2403	.0067
SDev	.0002	.0007	.092	.0004	.0006	.0075	.0002
%RSD	1.104	1.809	1.023	.5469	1.813	3.114	2.399
#1	.0142	.0390	9.048	.0817	.0344	.2481	.0068
#2	.0140	.0400	8.911	.0808	.0332	.2395	.0066
#3	.0143	.0404	9.087	.0813	.0340	.2332	.0068

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0444	.5325	.2890	.0463	.2960	.3871	.8362
SDev	.0013	.0091	.0070	.0018	.0114	.0037	.0143
%RSD	2.867	1.704	2.409	3.841	3.862	.9662	1.712
#1	.0438	.5417	.2871	.0451	.2949	.3839	.8280
#2	.0436	.5235	.2831	.0484	.2852	.3912	.8278
#3	.0459	.5325	.2967	.0455	.3080	.3863	.8527

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4157	.2386	.2924	.2298	1.514	.0033	.3104
SDev	.0069	.0019	.0149	.0038	.016	.0001	.0041
%RSD	1.667	.7811	5.096	1.671	1.086	2.121	1.324
#1	.4118	.2364	.2785	.2321	1.510	.0032	.3111
#2	.4115	.2399	.3081	.2254	1.532	.0032	.3061
#3	.4237	.2393	.2907	.2320	1.500	.0034	.3142

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0709	.0185	.1927	4.802	.0422	.1377	.0195
SDev	.0027	.0004	.0101	.052	.0001	.0062	.0003

Analysis Report Tue 09-19-95 10:25:53 AM page :

%RSD	3.756	2.293	5.253	1.082	.1855	4.490	1.680
#1	.0738	.0188	.2005	4.821	.0421	.1313	.0198
#2	.0686	.0180	.1813	4.743	.0423	.1436	.0192
#3	.0704	.0186	.1963	4.842	.0423	.1381	.0195

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0070	.0367
SDev	.0005	.0005
%RSD	7.124	1.485
#1	.0065	.0369
#2	.0070	.0361
#3	.0075	.0371

Analysis Report Disregard, uptake in 2%HNO3 OK 9/19/95 Tue 09-19-95 10:27:38 AM page 1

Method: ICP1 Sample Name: ~~SPC-STD 9508511~~101 Operator: DRS
Run Time: 09/19/95 10:26:21 2%HNO3
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8377	2582	2209	1362	383	192	1851
SDev	24	6	18	16	2	1	14
%RSD	.2886	.2366	.8254	1.154	.5222	.3002	.7683
#1	8355	2577	2189	1369	381	192	1858
#2	8374	2581	2212	1344	383	192	1861
#3	8403	2589	2225	1373	385	193	1835

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1710	583	7935	1868	613	574	2432
SDev	4	12	51	17	3	3	6
%RSD	.2549	2.060	.6440	.9148	.4316	.4382	.2374
#1	1707	584	7905	1852	610	572	2429
#2	1708	595	7906	1866	615	574	2429
#3	1715	571	7994	1886	614	577	2439

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	427	725	2612	1259	509	3061	253
SDev	2	5	8	3	3	9	2
%RSD	.3575	.6801	.2873	.1999	.6320	.2779	.6046
#1	426	722	2605	1256	510	3051	251
#2	427	723	2612	1259	505	3067	254
#3	429	731	2620	1261	511	3064	253

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1062	538	4651	605	1708	17590	19410
SDev	7	4	21	2	15	63	56
%RSD	.6407	.6702	.4563	.2863	.8625	.3585	.2868
#1	1057	534	4636	607	1724	17660	19370
#2	1060	539	4641	604	1695	17530	19380
#3	1070	541	4675	604	1705	17600	19470

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19300	3472	2047	4816	8888	175	13050
SDev	43	16	15	6	72	1	38
%RSD	.2203	.4490	.7250	.1319	.8122	.3293	.2919
#1	19270	3463	2031	4812	8813	175	13000
#2	19280	3490	2051	4812	8894	175	13060
#3	19350	3463	2060	4823	8957	176	13070

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2997	808	456	21880	1255	390	321
SDev	16	5	1	55	5	5	0
%RSD	.5279	.5851	.2193	.2510	.3681	1.289	.0000
#1	2980	806	456	21840	1252	385	321
#2	3001	804	457	21870	1252	391	321
#3	3011	813	455	21950	1260	395	321

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Elem	Zn	Zr
Avge	445	1029
SDev	16	4
%RSD	3.706	.4236
#1	450	1026
#2	427	1027
#3	459	1034

Analysis Report Tue 09-19-95 10:29:16 AM page 1

Method: ICP1 Sample Name: SPC-STD 9508311101 Operator: DRS
Run Time: 09/19/95 10:27:58
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8507	2625	2270	1414	387	193	2089
SDev	18	8	18	36	1	1	6
%RSD	.2175	.2975	.7883	2.582	.1493	.2986	.2722
#1	8488	2621	2255	1414	387	193	2091
#2	8507	2620	2266	1377	386	193	2083
#3	8525	2634	2290	1450	387	194	2094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1567	577	7995	1895	626	18490	2621
SDev	7	5	29	3	3	85	6
%RSD	.4153	.7820	.3595	.1612	.4226	.4573	.2102
#1	1560	572	7969	1892	625	18570	2617
#2	1567	581	7991	1894	629	18510	2618
#3	1573	577	8026	1898	624	18400	2627

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	431	781	2635	1270	26300	3159	65160
SDev	1	1	9	3	477	13	211
%RSD	.1339	.0740	.3422	.1982	1.814	.4140	.3234
#1	431	781	2626	1270	26820	3144	65320
#2	431	780	2636	1267	25880	3168	65250
#3	432	781	2644	1272	26220	3165	64930

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1100	546	4679	617	1821	114900	19630
SDev	8	4	14	9	43	79	69
%RSD	.6886	.6938	.2948	1.413	2.387	.0691	.3497
#1	1091	543	4674	621	1772	114900	19580
#2	1103	550	4669	607	1838	114900	19590
#3	1105	544	4695	623	1854	114800	19710

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19470	3553	2072	4906	9000	176	13690
SDev	68	23	10	12	41	1	72
%RSD	.3475	.6362	.4604	.2351	.4563	.5682	.5226
#1	19420	3542	2071	4893	8958	175	13610
#2	19440	3538	2063	4910	9003	176	13760
#3	19540	3579	2082	4915	9040	177	13690

Elem	Th	Ti	Tl	U	V	W	Y
Avge	3034	817	477	22090	1271	398	323
SDev	4	3	3	94	4	1	0
%RSD	.1248	.3079	.6289	.4249	.3147	.2513	.0000
#1	3030	815	474	22000	1267	399	323
#2	3036	817	477	22080	1271	398	323
#3	3037	820	480	22190	1275	397	323

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Elem	Zn	Zr
Avge	116700	1038
SDev	485	4
%RSD	.4157	.3649
#1	117000	1035
#2	116900	1036
#3	116100	1042

Analysis Report Tue 09-19-95 10:30:50 AM page 1

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/19/95 10:27:58
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0543	.2201	.2196	.0371	.0104	.0006	.1791
SDev	.0004	.0040	.0068	.0039	.0001	.0000	.0025
%RSD	.6921	1.824	3.104	10.56	.7418	3.871	1.380
#1	.0539	.2194	.2138	.0372	.0105	.0006	.1797
#2	.0543	.2165	.2180	.0331	.0103	.0006	.1764
#3	.0546	.2244	.2271	.0409	.0105	.0006	.1813

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0885	.0124	.3414	.0558	.0263	8.740	.0402
SDev	.0019	.0005	.0058	.0003	.0005	.041	.0006
%RSD	2.190	3.751	1.689	.5775	1.747	.4728	1.431
#1	.0865	.0119	.3361	.0555	.0261	8.776	.0399
#2	.0886	.0129	.3405	.0557	.0268	8.749	.0399
#3	.0903	.0123	.3476	.0561	.0259	8.694	.0409

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0147	.0403	9.425	.0848	10.42	.2474	9.965
SDev	.0001	.0002	.176	.0008	.19	.0056	.032
%RSD	.4549	.5039	1.867	.9670	1.844	2.280	.3247
#1	.0147	.0405	9.243	.0852	10.63	.2417	9.989
#2	.0147	.0401	9.438	.0839	10.25	.2529	9.977
#3	.0148	.0403	9.594	.0855	10.38	.2475	9.928

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0465	.5719	.2976	.0500	.2963	9.290	.8767
SDev	.0013	.0173	.0042	.0031	.0345	.007	.0175
%RSD	2.889	3.021	1.408	6.175	11.66	.0789	2.000
#1	.0449	.5599	.2964	.0515	.2572	9.294	.8663
#2	.0471	.5917	.2942	.0465	.3094	9.295	.8669
#3	.0474	.5641	.3023	.0521	.3225	9.282	.8970

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4263	.2714	.2986	.2472	1.528	.0033	.3178
SDev	.0070	.0066	.0054	.0020	.030	.0001	.0072
%RSD	1.633	2.433	1.821	.7945	1.978	3.519	2.257
#1	.4212	.2683	.2983	.2449	1.497	.0032	.3105
#2	.4235	.2669	.2934	.2484	1.531	.0033	.3248
#3	.4343	.2790	.3042	.2481	1.557	.0035	.3180

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0774	.0196	.2227	4.996	.0444	.1316	.0201
SDev	.0036	.0003	.0055	.104	.0006	.0019	.0001

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%RSD	4.615	1.450	2.478	2.076	1.290	1.472	.3080
#1	.0802	.0193	.2171	4.898	.0438	.1336	.0201
#2	.0786	.0195	.2227	4.987	.0444	.1317	.0201
#3	.0734	.0199	.2282	5.105	.0449	.1297	.0200

Elem	Zn	Zr
Units	ppm	ppm
Avge	8.316	.0377
SDev	.035	.0010
%RSD	.4170	2.569
#1	8.338	.0370
#2	8.335	.0373
#3	8.276	.0388

Standardization Rot. Tue 09-19-95 10:39:42 AM page 1

Method: ICP0 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.8457	.2613	.2226	.1369	.0386	.0194	.1882
SDev	.0022	.0010	.0004	.0006	.0001	.0001	.0007
%RSD	.2581	.3884	.1815	.4695	.1494	.2981	.3731
#1	.8476	.2624	.2227	.1372	.0387	.0194	.1889
#2	.8461	.2604	.2222	.1374	.0386	.0193	.1875
#3	.8433	.2611	.2230	.1362	.0386	.0194	.1883

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1723	.0584	.7995	.1887	.0613	.0585	.2452
SDev	.0006	.0003	.0014	.0003	.0008	.0002	.0006
%RSD	.3231	.4530	.1764	.1619	1.245	.3560	.2547
#1	.1729	.0587	.8010	.1888	.0605	.0583	.2459
#2	.1722	.0582	.7982	.1890	.0615	.0587	.2450
#3	.1718	.0583	.7993	.1884	.0620	.0584	.2447

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0432	.0730	.2633	.1271	.0513	.3088	.0260
SDev	.0001	.0005	.0009	.0006	.0003	.0022	.0001
%RSD	.2675	.7026	.3447	.4786	.5157	.7141	.3846
#1	.0433	.0736	.2643	.1278	.0515	.3107	.0261
#2	.0431	.0729	.2626	.1268	.0514	.3094	.0259
#3	.0431	.0726	.2629	.1267	.0510	.3064	.0260

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.1072	.0545	.4684	.0604	.1702	1.777	1.957
SDev	.0007	.0007	.0022	.0009	.0015	.007	.009
%RSD	.6878	1.284	.4737	1.483	.8560	.4154	.4648
#1	.1080	.0550	.4708	.0610	.1714	1.781	1.967
#2	.1066	.0537	.4681	.0594	.1707	1.782	1.955
#3	.1069	.0548	.4664	.0609	.1686	1.769	1.950

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.949	.3505	.2056	.4896	.8956	.0177	1.311
SDev	.008	.0017	.0017	.0024	.0039	.0000	.005
%RSD	.4047	.4878	.8182	.4906	.4378	.0000	.3438
#1	1.957	.3497	.2050	.4923	.8993	.0177	1.315
#2	1.946	.3525	.2043	.4888	.8915	.0177	1.310
#3	1.942	.3494	.2075	.4877	.8961	.0177	1.306

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.3023	.0815	.0461	2.211	.1267	.0394	.0323
SDev	.0011	.0003	.0002	.008	.0003	.0007	.0001
%RSD	.3806	.4250	.4519	.3408	.2537	1.784	.3571
#1	.3034	.0819	.0463	2.218	.1271	.0401	.0324
#2	.3011	.0813	.0460	2.212	.1266	.0387	.0324
#3	.3023	.0813	.0459	2.204	.1265	.0393	.0322

Elem	Zn	Zr
Avge	.0446	.1038
SDev	.0019	.0004

%RSD	4.260	.4010
#1	.0465	.1043
#2	.0446	.1035
#3	.0427	.1037

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 10:41:54 AM page 1

Method: ICP0 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	7.577	16.92	11.88	3.661	71.60	38.82	11.92
SDev	.094	.14	.10	.045	.62	.32	.11
%RSD	1.246	.8205	.8373	1.225	.8629	.8229	.9486
#1	7.627	16.99	11.94	3.685	71.93	38.98	11.97
#2	7.468	16.76	11.77	3.610	70.89	38.45	11.79
#3	7.635	17.02	11.94	3.690	71.99	39.03	12.00

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	4.823	5.668	48.41	8.258	14.44	23.27	25.77
SDev	.101	.041	.33	.101	.15	.22	.27
%RSD	2.099	.7219	.6865	1.220	1.013	.9331	1.030
#1	4.907	5.688	48.54	8.294	14.51	23.41	25.92
#2	4.710	5.621	48.03	8.144	14.27	23.02	25.47
#3	4.852	5.696	48.66	8.335	14.54	23.38	25.93

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 10:45:45 AM page 1

Method: ICPO Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	57.94	45.32	76.89	7.450	2.343	11.95	6.392
SDev	.17	.14	.23	.019	.008	.08	.018
%RSD	.2930	.3145	.3040	.2592	.3506	.6380	.2748
#1	57.88	45.28	77.04	7.449	2.333	11.86	6.396
#2	58.13	45.48	77.01	7.469	2.349	11.99	6.408
#3	57.81	45.20	76.62	7.431	2.346	11.99	6.373

Elem	P
Avge	12.43
SDev	.03
%RSD	.2156
#1	12.45
#2	12.44
#3	12.40

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	47.37	10.76	5.527	15.75	11.75
SDev	.23	.04	.015	.07	.02
%RSD	.4826	.3607	.2693	.4153	.1771
#1	47.41	10.76	5.529	15.75	11.75
#2	47.57	10.80	5.541	15.82	11.77
#3	47.12	10.72	5.511	15.69	11.73

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	22.87	22.96	27.01	12.06	3.023
SDev	.13	.14	.13	.07	.016
%RSD	.5645	.6108	.4762	.5643	.5441
#1	22.85	22.97	27.03	12.06	3.025
#2	22.75	22.82	26.87	11.99	3.005
#3	23.01	23.10	27.13	12.12	3.038

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD6

Elem	U
Avge	50.74
SDev	.19
%RSD	.3648
#1	50.74
#2	50.55
#3	50.92

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD7

Elem	Be	Si	Te
Avge	2.078	61.26	43.11
SDev	.005	.13	.13
%RSD	.2571	.2087	.2982
#1	2.083	61.40	43.26
#2	2.073	61.15	43.01
#3	2.076	61.24	43.08

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	22.90	19.09	3.563	1.128
SDev	.06	.06	.018	.007
%RSD	.2636	.2973	.5170	.6089
#1	22.84	19.05	3.546	1.121
#2	22.90	19.08	3.560	1.129
#3	22.96	19.16	3.583	1.135

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	18.72	42.87	6.766	3.244
SDev	.10	.26	.030	.019
%RSD	.5172	.6032	.4443	.5792
#1	18.75	42.95	6.791	3.252
#2	18.79	43.08	6.775	3.257
#3	18.61	42.58	6.733	3.222

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Report Tue 09-19-95 11:11:42 AM page 1

Method: ICP0 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.453479	-.383492	09/19/95 11:09:15
Al	308.215	STD3	STD1-Blank	8.66914	-2.26525	09/19/95 11:09:15
As	193.600	STD5	STD1-Blank	4.41532	-.982998	09/19/95 11:09:15
B	249.600	STD3	STD1-Blank	1.10665	-.151537	09/19/95 11:09:15
Ba	493.400	STD2	STD1-Blank	1.32662	-.051252	09/19/95 11:09:15
Be	313.042	STD7	STD1-Blank	.485869	-.009410	09/19/95 11:09:15
Bi	223.061	STD8	STD1-Blank	5.28918	-.995599	09/19/95 11:09:15
Ca	317.900	STD3	STD1-Blank	3.25870	-.561475	09/19/95 11:09:15
Cd	228.800	STD3	STD1-Blank	1.35296	-.079013	09/19/95 11:09:15
Ce	418.659	STD5	STD1-Blank	2.25593	-1.80361	09/19/95 11:09:15
Co	228.600	STD2	STD1-Blank	1.19506	-.225549	09/19/95 11:09:15
Cr	205.500	STD2	STD1-Blank	1.69187	-.103768	09/19/95 11:09:15
Cu	324.700	STD2	STD1-Blank	5.55098	-.324547	09/19/95 11:09:15
Dy	353.170	STD4	STD1-Blank	1.06104	-.260168	09/19/95 11:09:15
Eu	381.900	STD4	STD1-Blank	1.86656	-.080573	09/19/95 11:09:15
Fe	259.900	STD2	STD1-Blank	2.79597	-.204199	09/19/95 11:09:15
K	766.500	STD3	STD1-Blank	240.439	-63.2995	09/19/95 11:09:15
La	398.852	STD4	STD1-Blank	3.70384	-.470758	09/19/95 11:09:15
Li	670.700	STD3	STD1-Blank	4.20329	-.215629	09/19/95 11:09:15
Mg	279.078	STD2	STD1-Blank	6.49131	-2.00473	09/19/95 11:09:15
Mn	257.600	STD3	STD1-Blank	1.57075	-.040840	09/19/95 11:09:15
Mo	202.000	STD2	STD1-Blank	1.69276	-.181408	09/19/95 11:09:15
Na	588.900	STD2	STD1-Blank	52.4281	-2.85733	09/19/95 11:09:15
Nd	406.106	STD4	STD1-Blank	3.27108	-1.53228	09/19/95 11:09:15
Ni	231.600	STD2	STD1-Blank	3.56636	-.215527	09/19/95 11:09:15
P	214.900	STD3	STD1-Blank	8.15665	-1.38853	09/19/95 11:09:15
Pb	220.300	STD2	STD1-Blank	1.07225	-1.90560	09/19/95 11:09:15
Pd	360.959	STD9	STD1-Blank	2.98348	-5.83996	09/19/95 11:09:15
Rh	343.489	STD9	STD1-Blank	1.22186	-2.38095	09/19/95 11:09:15
Sb	206.838	STD5	STD1-Blank	3.75111	-1.31489	09/19/95 11:09:15
Se	196.026	STD8	STD1-Blank	5.95699	-1.22476	09/19/95 11:09:15
Si	288.100	STD7	STD1-Blank	3.29087	-1.61121	09/19/95 11:09:15
Sn	242.950	STD9	STD1-Blank	8.51726	-7.62634	09/19/95 11:09:15
Sr	421.500	STD2	STD1-Blank	1.21359	-.021480	09/19/95 11:09:15
Te	214.275	STD7	STD1-Blank	1.19608	-1.56766	09/19/95 11:09:15
Th	283.730	STD4	STD1-Blank	4.36872	-1.32052	09/19/95 11:09:15
Ti	334.900	STD2	STD1-Blank	1.39291	-.113522	09/19/95 11:09:15
Tl	190.864	STD8	STD1-Blank	18.4809	-.851352	09/19/95 11:09:15
U	378.280	STD6	STD1-Blank	10.3042	-22.7871	09/19/95 11:09:15
V	292.402	STD5	STD1-Blank	1.67646	-.212463	09/19/95 11:09:15
W	224.875	STD9	STD1-Blank	15.6040	-.614279	09/19/95 11:09:15
Y	371.030	STD5	STD1-Blank	3.34389	-.108119	09/19/95 11:09:15
Zn	213.800	STD2	STD1-Blank	.861131	-.038406	09/19/95 11:09:15
Zr	339.100	STD2	STD1-Blank	1.94788	-.202255	09/19/95 11:09:15

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Method: ICP0 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.20517	.383492	09/19/95 11:09:15
Al	308.215	STD3	STD1-Blank	.115352	2.26525	09/19/95 11:09:15
As	193.600	STD5	STD1-Blank	.226484	.982998	09/19/95 11:09:15
B	249.600	STD3	STD1-Blank	.903631	.151537	09/19/95 11:09:15
Ba	493.400	STD2	STD1-Blank	.753793	.051252	09/19/95 11:09:15
Be	313.042	STD7	STD1-Blank	2.05817	.009410	09/19/95 11:09:15
Bi	223.061	STD8	STD1-Blank	.189065	.995599	09/19/95 11:09:15
Ca	317.900	STD3	STD1-Blank	.306871	.561475	09/19/95 11:09:15
Cd	228.800	STD3	STD1-Blank	.739120	.079013	09/19/95 11:09:15
Ce	418.659	STD5	STD1-Blank	.443277	1.80361	09/19/95 11:09:15
Co	228.600	STD2	STD1-Blank	.836775	.225549	09/19/95 11:09:15
Cr	205.500	STD2	STD1-Blank	.591063	.103768	09/19/95 11:09:15
Cu	324.700	STD2	STD1-Blank	.180148	.324547	09/19/95 11:09:15
Dy	353.170	STD4	STD1-Blank	.942468	.260168	09/19/95 11:09:15
Eu	381.900	STD4	STD1-Blank	.535745	.080573	09/19/95 11:09:15
Fe	259.900	STD2	STD1-Blank	.357657	.204199	09/19/95 11:09:15
K	766.500	STD3	STD1-Blank	.004159	63.2995	09/19/95 11:09:15
La	398.852	STD4	STD1-Blank	.269990	.470758	09/19/95 11:09:15
Li	670.700	STD3	STD1-Blank	.237909	.215629	09/19/95 11:09:15
Mg	279.078	STD2	STD1-Blank	.154052	2.00473	09/19/95 11:09:15
Mn	257.600	STD3	STD1-Blank	.636637	.040840	09/19/95 11:09:15
Mo	202.000	STD2	STD1-Blank	.590750	.181408	09/19/95 11:09:15
Na	588.900	STD2	STD1-Blank	.019074	2.85733	09/19/95 11:09:15
Nd	406.106	STD4	STD1-Blank	.305709	1.53228	09/19/95 11:09:15
Ni	231.600	STD2	STD1-Blank	.280398	.215527	09/19/95 11:09:15
P	214.900	STD3	STD1-Blank	.122599	1.38853	09/19/95 11:09:
Pb	220.300	STD2	STD1-Blank	.932617	1.90560	09/19/95 11:09:
Pd	360.959	STD9	STD1-Blank	.335179	5.83996	09/19/95 11:09:15
Rh	343.489	STD9	STD1-Blank	.818425	2.38095	09/19/95 11:09:15
Sb	206.838	STD5	STD1-Blank	.266588	1.31469	09/19/95 11:09:15
Se	196.026	STD8	STD1-Blank	.167870	1.22476	09/19/95 11:09:15
Si	288.100	STD7	STD1-Blank	.303871	1.61121	09/19/95 11:09:15
Sn	242.950	STD9	STD1-Blank	.117409	7.62834	09/19/95 11:09:15
Sr	421.500	STD2	STD1-Blank	.824003	.021480	09/19/95 11:09:15
Te	214.275	STD7	STD1-Blank	.836066	1.56766	09/19/95 11:09:15
Th	283.730	STD4	STD1-Blank	.228900	1.32052	09/19/95 11:09:15
Ti	334.900	STD2	STD1-Blank	.717922	.113522	09/19/95 11:09:15
Tl	190.864	STD8	STD1-Blank	.054110	.851352	09/19/95 11:09:15
U	378.280	STD6	STD1-Blank	.097048	22.7871	09/19/95 11:09:15
V	292.402	STD5	STD1-Blank	.596497	.212463	09/19/95 11:09:15
W	224.875	STD9	STD1-Blank	.064086	.614279	09/19/95 11:09:15
Y	371.030	STD5	STD1-Blank	.299053	.108119	09/19/95 11:09:15
Zn	213.800	STD2	STD1-Blank	1.16126	.038406	09/19/95 11:09:15
Zr	339.100	STD2	STD1-Blank	.513379	.202255	09/19/95 11:09:15

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Method: ICP0

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	-.000000	.000000
		STD8	10.0000	10.0000	.000000
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000000
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	-.000008
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000004
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Be	313.042	STD1-Blank	.000000	.000000	-.000000
		STD7	1.00000	1.00000	.000000
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Ca	317.900	STD1-Blank	.000000	-.000000	.000000
		STD3	250.000	250.000	.000015
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Ce	418.659	STD1-Blank	.000000	.000000	-.000000
		STD5	50.0000	50.0000	-.000004
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	-.000000	.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	-.000000	.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	-.000000	.000000
		STD6	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP0 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 11:18:27
Comment: IEC CHECK RUN AFTER TORCH REPLACEMENT
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0072	.0157	.0091	.0004	.0000	.0009
SDev	.0006	.0022	.0042	.0033	.0001	.0000	.0040
%RSD	33.37	30.20	26.75	36.46	37.50	57.73	453.0
#1	.0016	.0069	.0113	.0124	.0002	.0001	.0004
#2	.0022	.0052	.0197	.0057	.0005	.0001	.0051
#3	.0011	.0095	.0162	.0093	.0004	.0000	-.0028

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0019	.0080	.0024	.0005	.0035	.0005
SDev	.0005	.0015	.0025	.0005	.0007	.0015	.0004
%RSD	18.33	81.13	31.56	22.16	134.7	41.78	80.00
#1	.0026	.0030	.0061	.0029	.0013	.0024	.0010
#2	.0023	.0026	.0108	.0021	.0001	.0052	.0001
#3	.0033	.0001	.0070	.0020	.0001	.0030	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0005	.2645	.0022	.0021	.0117	-.0007
SDev	.0001	.0005	.1772	.0000	.0004	.0117	.0002
%RSD	19.24	103.9	67.01	.0000	20.00	100.2	24.74
#1	.0006	.0007	.4648	.0022	.0025	.0238	-.0009
#2	.0006	.0007	.1282	.0022	.0021	.0108	-.0006
#3	.0004	-.0001	.2004	.0022	.0017	.0004	-.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0227	.0105	.0045	.0065	.0138	.0481
SDev	.0007	.0132	.0032	.0007	.0082	.0080	.0189
%RSD	89.22	58.08	30.35	15.79	125.2	57.94	39.18
#1	.0002	.0210	.0140	.0038	-.0027	.0072	.0572
#2	.0016	.0105	.0097	.0045	.0095	.0116	.0265
#3	.0006	.0367	.0077	.0052	.0128	.0227	.0608

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	-.0035	.0044	.2158	.0525	.0003	.0126
SDev	.0033	.0040	.0168	.0116	.0162	.0001	.0043
%RSD	28.99	112.9	383.4	5.363	30.81	21.65	34.22
#1	.0122	-.0073	-.0149	.2248	.0704	.0004	.0128
#2	.0077	.0006	.0125	.2198	.0483	.0002	.0168
#3	.0140	-.0039	.0155	.2027	.0389	.0004	.0082

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0006	.0099	.0938	.0006	.0073	.0003
SDev	.0015	.0002	.0112	.0420	.0002	.0086	.0002

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%RSD	50.17	35.25	114.1	44.80	34.64	118.0	57.73
#1	.0032	.0008	-.0031	.1058	.0004	-.0026	.0002
#2	.0045	.0006	.0154	.0471	.0004	.0130	.0002
#3	.0015	.0004	.0172	.1285	.0008	.0114	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0006	-.0000
SDev	.0015	.0002
%RSD	234.7	4104000.
#1	-.0023	-.0003
#2	.0000	.0001
#3	.0004	.0001

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 12:41:54 PM page 1

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.8491	.2632	.2279	.1409	.0390	.0195	.1911
SDev	.0008	.0002	.0013	.0021	.0001	.0000	.0006
%RSD	.0952	.0658	.5844	1.482	.1479	.0000	.2914
#1	.8498	.2630	.2294	.1385	.0390	.0195	.1905
#2	.8492	.2633	.2270	.1423	.0391	.0195	.1912
#3	.8482	.2633	.2272	.1419	.0390	.0195	.1916

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1674	.0591	.8031	.1909	.0630	.0587	.2464
SDev	.0003	.0006	.0023	.0002	.0005	.0001	.0003
%RSD	.1920	.9909	.2875	.1210	.7985	.2604	.1240
#1	.1672	.0589	.8018	.1906	.0625	.0585	.2461
#2	.1673	.0587	.8018	.1910	.0631	.0588	.2463
#3	.1678	.0598	.8058	.1910	.0635	.0587	.2467

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0435	.0736	.2626	.1277	.0516	.3101	.0256
SDev	.0001	.0001	.0006	.0001	.0001	.0008	.0003
%RSD	.1328	.0784	.2316	.0452	.1120	.2580	1.033
#1	.0434	.0736	.2619	.1277	.0516	.3101	.0254
#2	.0435	.0737	.2630	.1277	.0516	.3109	.0255
#3	.0435	.0736	.2629	.1278	.0515	.3093	.0259

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.1088	.0545	.4712	.0616	.1739	1.797	1.971
SDev	.0006	.0007	.0010	.0006	.0018	.009	.003
%RSD	.5982	1.221	.2147	.8946	1.031	.4822	.1711
#1	.1081	.0553	.4706	.0616	.1750	1.787	1.969
#2	.1088	.0542	.4707	.0610	.1748	1.798	1.969
#3	.1094	.0541	.4724	.0621	.1718	1.805	1.975

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.960	.3529	.2111	.4851	.9024	.0179	1.329
SDev	.005	.0014	.0010	.0010	.0029	.0001	.003
%RSD	.2749	.4010	.4768	.2172	.3167	.3219	.2349
#1	1.958	.3538	.2122	.4841	.9007	.0179	1.325
#2	1.956	.3537	.2102	.4850	.9008	.0179	1.331
#3	1.966	.3513	.2110	.4862	.9057	.0180	1.330

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.3038	.0819	.0459	2.223	.1274	.0396	.0325
SDev	.0009	.0002	.0001	.004	.0001	.0006	.0001
%RSD	.2838	.2543	.2179	.1904	.0453	1.406	.1775
#1	.3036	.0818	.0460	2.226	.1273	.0395	.0326
#2	.3030	.0817	.0459	2.218	.1274	.0391	.0325
#3	.3047	.0821	.0458	2.225	.1274	.0402	.0325

Elem	Zn	Zr
Avge	.0444	.1043
SDev	.0006	.0003

Standardization Rpt. Tue 09-19-95 12:41:54 PM page 1

%RSD	1.319	.2414
#1	.0442	.1040
#2	.0451	.1043
#3	.0440	.1045

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	7.599	17.20	12.02	3.666	72.23	39.31	12.10
SDev	.044	.06	.05	.020	.27	.11	.05
%RSD	.5829	.3529	.4555	.5365	.3697	.2699	.4288
#1	7.555	17.13	11.96	3.646	71.95	39.20	12.04
#2	7.644	17.24	12.06	3.685	72.48	39.40	12.14
#3	7.599	17.22	12.05	3.669	72.26	39.35	12.12

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	4.806	5.763	49.27	8.375	14.55	23.75	25.93
SDev	.007	.022	.18	.051	.07	.09	.10
%RSD	.1418	.3904	.3606	.6125	.4867	.3955	.3910
#1	4.810	5.740	49.07	8.318	14.48	23.65	25.83
#2	4.798	5.785	49.41	8.416	14.62	23.83	26.03
#3	4.810	5.765	49.33	8.393	14.56	23.76	25.94

Standardization Rpt. Tue 09-19-95 12:46:44 PM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	59.45	46.32	79.04	7.662	2.376	12.06	6.544
SDev	.44	.31	.32	.033	.020	.13	.037
%RSD	.7461	.6622	.4048	.4298	.8566	1.043	.5595
#1	59.91	46.64	79.36	7.680	2.396	12.18	6.581
#2	59.02	46.03	78.72	7.624	2.355	11.93	6.508
#3	59.42	46.28	79.05	7.683	2.376	12.06	6.543

Elem	P
Avge	12.77
SDev	.09
%RSD	.6703
#1	12.85
#2	12.68
#3	12.78

Standardization Rpt. Tue 09-19-95 12:50:26 PM page 1

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	48.13	10.98	5.660	16.02	12.07
SDev	.47	.10	.047	.14	.09
%RSD	.9726	.8662	.8240	.8925	.7184
#1	48.33	11.02	5.675	16.07	12.10
#2	48.47	11.06	5.697	16.13	12.14
#3	47.60	10.88	5.608	15.86	11.98

Standardization Rpt. Tue 09-19-95 12:53:58 PM page 1

Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	23.79	23.52	28.11	12.39	3.082
SDev	.09	.10	.11	.05	.015
%RSD	.3594	.4117	.3964	.4295	.4836
#1	23.69	23.41	27.98	12.33	3.065
#2	23.84	23.58	28.18	12.42	3.089
#3	23.84	23.58	28.17	12.42	3.092

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Method: ICP1 Standard: STD6

Elem	U
Avge	53.09
SDev	.38
%RSD	.7100
#1	52.65
#2	53.31
#3	53.30

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	2.174	64.42	45.50
SDev	.015	.48	.35
%RSD	.7115	.7412	.7636
#1	2.162	64.06	45.23
#2	2.191	64.96	45.89
#3	2.169	64.24	45.38

Standardization Rpt. Tue 09-19-95 01:04:28 PM page 1

Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	24.32	20.35	3.791	1.181
SDev	.05	.04	.004	.002
%RSD	.2119	.2197	.1038	.1655
#1	24.34	20.34	3.795	1.181
#2	24.27	20.30	3.790	1.180
#3	24.36	20.39	3.787	1.184

Standardization Rpt. Tue 09-19-95 01:07:53 PM page 1

Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	19.26	44.28	6.964	3.320
SDev	.06	.10	.019	.011
%RSD	.3102	.2211	.2752	.3187
#1	19.20	44.16	6.942	3.313
#2	19.31	44.32	6.971	3.332
#3	19.28	44.34	6.979	3.315

Standardization Report Tue 09-19-95 01:11:12 PM page 1

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.426014	-.361714	09/19/95 01:06:36
Al	308.215	STD3	STD1-Blank	8.44808	-2.22353	09/19/95 01:06:36
As	193.600	STD5	STD1-Blank	4.24418	-.967108	09/19/95 01:06:36
B	249.600	STD3	STD1-Blank	1.08282	-.152569	09/19/95 01:06:36
Ba	493.400	STD2	STD1-Blank	1.32270	-.051629	09/19/95 01:06:36
Be	313.042	STD7	STD1-Blank	.464123	-.009050	09/19/95 01:06:36
Bi	223.061	STD8	STD1-Blank	4.96122	-.948089	09/19/95 01:06:36
Ca	317.900	STD3	STD1-Blank	3.16961	-.530699	09/19/95 01:06:36
Cd	228.800	STD3	STD1-Blank	1.31521	-.077773	09/19/95 01:06:36
Ce	418.659	STD5	STD1-Blank	2.20097	-1.76767	09/19/95 01:06:36
Co	228.600	STD2	STD1-Blank	1.17612	-.224482	09/19/95 01:06:36
Cr	205.500	STD2	STD1-Blank	1.67252	-.105425	09/19/95 01:06:36
Cu	324.700	STD2	STD1-Blank	5.54349	-.325218	09/19/95 01:06:36
Dy	353.170	STD4	STD1-Blank	1.04416	-.257246	09/19/95 01:06:36
Eu	381.900	STD4	STD1-Blank	1.82821	-.079466	09/19/95 01:06:36
Fe	259.900	STD2	STD1-Blank	2.77171	-.204090	09/19/95 01:06:36
K	766.500	STD3	STD1-Blank	236.608	-62.1333	09/19/95 01:06:36
La	398.852	STD4	STD1-Blank	3.61520	-.461781	09/19/95 01:06:36
Li	670.700	STD3	STD1-Blank	4.16470	-.214760	09/19/95 01:06:36
Mg	279.078	STD2	STD1-Blank	6.40953	-1.98759	09/19/95 01:06:36
Mn	257.600	STD3	STD1-Blank	1.53417	-.039275	09/19/95 01:06:36
Mo	202.000	STD2	STD1-Blank	1.66778	-.181399	09/19/95 01:06:36
Na	588.900	STD2	STD1-Blank	52.6124	-2.86913	09/19/95 01:06:36
Nd	406.106	STD4	STD1-Blank	3.21585	-1.51541	09/19/95 01:06:36
Ni	231.600	STD2	STD1-Blank	3.50771	-.215958	09/19/95 01:06:36
P	214.900	STD3	STD1-Blank	7.93926	-1.38037	09/19/95 01:06:36
Pb	220.300	STD2	STD1-Blank	1.05325	-1.89228	09/19/95 01:06:36
Pd	360.959	STD9	STD1-Blank	2.89122	-5.69810	09/19/95 01:06:36
Rh	343.489	STD9	STD1-Blank	1.18162	-2.31625	09/19/95 01:06:36
Sb	206.838	STD5	STD1-Blank	3.60303	-1.27163	09/19/95 01:06:36
Se	196.026	STD8	STD1-Blank	5.58742	-1.17969	09/19/95 01:06:36
Si	288.100	STD7	STD1-Blank	3.12813	-1.51745	09/19/95 01:06:36
Sn	242.950	STD9	STD1-Blank	9.48235	-8.55687	09/19/95 01:06:36
Sr	421.500	STD2	STD1-Blank	1.19653	-.021458	09/19/95 01:06:36
Te	214.275	STD7	STD1-Blank	1.13198	-1.50437	09/19/95 01:06:36
Th	283.730	STD4	STD1-Blank	4.24886	-1.29066	09/19/95 01:06:36
Ti	334.900	STD2	STD1-Blank	1.38218	-.113154	09/19/95 01:06:36
Tl	190.864	STD8	STD1-Blank	17.6144	-.808502	09/19/95 01:06:36
U	378.280	STD6	STD1-Blank	9.83035	-21.8525	09/19/95 01:06:36
V	292.402	STD5	STD1-Blank	1.63141	-.207787	09/19/95 01:06:36
W	224.875	STD9	STD1-Blank	15.4444	-.611598	09/19/95 01:06:36
Y	371.030	STD5	STD1-Blank	3.27941	-.106690	09/19/95 01:06:36
Zn	213.800	STD2	STD1-Blank	.843788	-.037492	09/19/95 01:06:36
Zr	339.100	STD2	STD1-Blank	1.93570	-.201829	09/19/95 01:06:36

Standardization Report Tue 09-19-95 01:11:41 PM page

Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.34734	.361714	09/19/95 01:06:36
Al	308.215	STD3	STD1-Blank	.118370	2.22353	09/19/95 01:06:36
As	193.600	STD5	STD1-Blank	.235617	.967108	09/19/95 01:06:36
B	249.600	STD3	STD1-Blank	.923514	.152569	09/19/95 01:06:36
Ba	493.400	STD2	STD1-Blank	.756030	.051629	09/19/95 01:06:36
Be	313.042	STD7	STD1-Blank	2.15460	.009050	09/19/95 01:06:36
Bi	223.061	STD8	STD1-Blank	.201563	.948089	09/19/95 01:06:36
Ca	317.900	STD3	STD1-Blank	.315496	.530699	09/19/95 01:06:36
Cd	228.800	STD3	STD1-Blank	.760333	.077773	09/19/95 01:06:36
Ce	418.659	STD5	STD1-Blank	.454345	1.76767	09/19/95 01:06:36
Co	228.600	STD2	STD1-Blank	.850253	.224482	09/19/95 01:06:36
Cr	205.500	STD2	STD1-Blank	.597900	.105425	09/19/95 01:06:36
Cu	324.700	STD2	STD1-Blank	.180392	.325218	09/19/95 01:06:36
Dy	353.170	STD4	STD1-Blank	.957707	.257246	09/19/95 01:06:36
Eu	381.900	STD4	STD1-Blank	.546982	.079466	09/19/95 01:06:36
Fe	259.900	STD2	STD1-Blank	.360788	.204090	09/19/95 01:06:36
K	766.500	STD3	STD1-Blank	.004226	62.1333	09/19/95 01:06:36
La	398.852	STD4	STD1-Blank	.276610	.461781	09/19/95 01:06:36
Li	670.700	STD3	STD1-Blank	.240113	.214760	09/19/95 01:06:36
Mg	279.078	STD2	STD1-Blank	.156018	1.98759	09/19/95 01:06:36
Mn	257.600	STD3	STD1-Blank	.651817	.039275	09/19/95 01:06:36
Mo	202.000	STD2	STD1-Blank	.599600	.181399	09/19/95 01:06:36
Na	588.900	STD2	STD1-Blank	.019007	2.86913	09/19/95 01:06:36
Nd	406.106	STD4	STD1-Blank	.310960	1.51541	09/19/95 01:06:36
Ni	231.600	STD2	STD1-Blank	.285087	.215958	09/19/95 01:06:36
P	214.900	STD3	STD1-Blank	.125956	1.38037	09/19/95 01:06:
Pb	220.300	STD2	STD1-Blank	.949438	1.89228	09/19/95 01:06:
Pd	360.959	STD9	STD1-Blank	.345875	5.69810	09/19/95 01:06:36
Rh	343.489	STD9	STD1-Blank	.846297	2.31625	09/19/95 01:06:36
Sb	206.838	STD5	STD1-Blank	.277544	1.27163	09/19/95 01:06:36
Se	196.026	STD8	STD1-Blank	.178973	1.17969	09/19/95 01:06:36
Si	288.100	STD7	STD1-Blank	.319680	1.51745	09/19/95 01:06:36
Sn	242.950	STD9	STD1-Blank	.105459	8.55687	09/19/95 01:06:36
Sr	421.500	STD2	STD1-Blank	.835753	.021458	09/19/95 01:06:36
Te	214.275	STD7	STD1-Blank	.883407	1.50437	09/19/95 01:06:36
Th	283.730	STD4	STD1-Blank	.235357	1.29066	09/19/95 01:06:36
Ti	334.900	STD2	STD1-Blank	.723497	.113154	09/19/95 01:06:36
Tl	190.864	STD8	STD1-Blank	.056772	.808502	09/19/95 01:06:36
U	378.280	STD6	STD1-Blank	.101726	21.8525	09/19/95 01:06:36
V	292.402	STD5	STD1-Blank	.612967	.207787	09/19/95 01:06:36
W	224.875	STD9	STD1-Blank	.064748	.611598	09/19/95 01:06:36
Y	371.030	STD5	STD1-Blank	.304933	.106690	09/19/95 01:06:36
Zn	213.800	STD2	STD1-Blank	1.18513	.037492	09/19/95 01:06:36
Zr	339.100	STD2	STD1-Blank	.516609	.201829	09/19/95 01:06:36

Standardization Readback Report Tue 09-19-95 01:12:10 PM page 1

Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000000
As	193.600	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	-.000008
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	-.000004
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Bi	223.061	STD1-Blank	.000000	-.000000	.000000
		STD6	100.000	100.000	.000000
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000000
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	-.000004
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	.000000	-.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000004
Sb	206.838	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47694

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			Known Concentration	Measured Concentration	Residual Concentration
Element Sr	Wavelength 421.500	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element Te	Wavelength 214.275	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	-.000004
Element Th	Wavelength 283.730	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element Ti	Wavelength 334.900	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element Tl	Wavelength 190.864	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element U	Wavelength 378.280	Standard			
		STD1-Blank	.000000	.000001	-.000001
		STD6	500.000	500.000	.000000
Element V	Wavelength 292.402	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD5	20.0000	20.0000	.000000
Element W	Wavelength 224.875	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.6669	-.666901
Element Y	Wavelength 371.030	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element Zn	Wavelength 213.800	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element Zr	Wavelength 339.100	Standard			
		STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 13:16:14 95 02228 SCH-325-405-1
Comment: BY-108 POST SPIKE CHECK RUN 9/19/95 AB
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	-.0064	-.0054	.0050	-.0003	-.0000	-.0127
SDev	.0002	.0045	.0095	.0003	.0001	.0000	.0086
%RSD	17.57	71.33	177.5	6.700	21.41	4541.	67.77
#1	-.0013	-.0092	.0014	.0046	-.0003	.0000	-.0038
#2	-.0014	-.0011	-.0163	.0051	-.0004	-.0000	-.0210
#3	-.0010	-.0087	-.0012	.0053	-.0003	.0000	-.0133

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0006	-.0161	.0006	-.0006	.0023	-.0007
SDev	.0012	.0008	.0022	.0010	.0007	.0016	.0003
%RSD	57.87	144.6	13.66	159.9	107.7	68.68	41.18
#1	.0027	-.0002	-.0186	-.0005	.0001	.0037	-.0005
#2	.0007	-.0000	-.0149	.0013	-.0009	.0006	-.0011
#3	.0027	-.0015	-.0147	.0010	-.0012	.0026	-.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0012	-.2918	-.0010	-.0008	.0017	.0002
SDev	.0002	.0008	.1118	.0015	.0005	.0037	.0002
%RSD	268.5	64.36	38.32	156.0	57.91	218.6	92.71
#1	.0001	-.0005	-.1656	.0008	-.0011	.0052	.0002
#2	-.0002	-.0021	-.3786	-.0020	-.0011	.0020	.0001
#3	-.0001	-.0011	-.3313	-.0018	-.0003	-.0022	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0138	-.0078	-.0004	-.0201	-.0107	.0101
SDev	.0006	.0185	.0024	.0016	.0154	.0034	.0087
%RSD	98.27	133.4	31.29	371.9	76.43	31.54	85.52
#1	.0004	-.0332	-.0061	-.0020	-.0075	-.0072	.0145
#2	.0001	-.0120	-.0106	-.0005	-.0372	-.0140	.0002
#3	.0013	.0036	-.0068	.0012	-.0156	-.0108	.0158

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	-.0008	-.0015	.0997	-.0034	.0002	-.0006
SDev	.0041	.0103	.0083	.0035	.0389	.0001	.0074
%RSD	66.51	1340.	561.8	3.513	1133.	27.08	1254.
#1	-.0104	-.0080	.0022	.1022	.0415	.0002	.0071
#2	-.0059	.0110	-.0110	.1013	-.0249	.0002	-.0077
#3	-.0022	-.0053	.0044	.0957	-.0268	.0003	-.0012

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0003	.0061	-.0958	-.0008	-.0013	-.0005
SDev	.0065	.0003	.0083	.0348	.0005	.0055	.0002

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%RSD	889.0	78.52	134.9	36.38	70.33	430.2	41.45
#1	.0040	-.0004	.0054	-.0797	-.0002	.0003	-.0007
#2	-.0068	-.0005	.0148	-.1357	-.0012	-.0074	-.0003
#3	.0050	-.0000	-.0018	-.0719	-.0010	.0033	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0005	-.0009
SDev	.0007	.0002
%RSD	143.7	20.06
#1	-.0004	-.0009
#2	-.0013	-.0007
#3	.0001	-.0010

Analysis Report QC Standard Tue 09-19-95 01:24:49 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:23:30
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

PASS DLG 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4707	24.77	2.520	1.971	.5191	.0918	23.83
SDev	.0015	.14	.007	.015	.0031	.0003	.10
%RSD	.3256	.5731	.2872	.7730	.5893	.3786	.4191
#1	.4724	24.83	2.526	1.972	.5210	.0921	23.82
#2	.4700	24.87	2.522	1.985	.5208	.0919	23.93
#3	.4696	24.61	2.512	1.955	.5156	.0914	23.73
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.55	.4863	-.0507	1.015	1.022	1.003	-.0023
SDev	.04	.0035	.0065	.001	.003	.005	.0005
%RSD	.1457	.7237	12.85	.1297	.2682	.5122	22.35
#1	24.58	.4904	-.0543	1.017	1.024	1.006	-.0023
#2	24.56	.4844	-.0546	1.015	1.019	1.006	-.0028
#3	24.51	.4842	-.0431	1.014	1.023	.9969	-.0018
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	20.30	26.41	.0051	2.085	26.13	.5058
SDev	.0003	.06	.23	.0012	.025	.10	.0009
%RSD	22.09	.2891	.8548	22.61	1.197	.3725	.1707
#1	.0011	20.34	26.26	.0047	2.091	26.20	.5065
#2	.0011	20.33	26.67	.0042	2.106	26.17	.5059
#3	.0016	20.24	26.29	.0064	2.057	26.02	.5048
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	26.44	-.0027	1.036	.0002	2.523	-.0483
SDev	.005	.30	.0078	.009	.0103	.002	.0149
%RSD	.4776	1.124	290.0	.9174	5069.	.0899	30.74
#1	1.041	26.44	-.0116	1.030	.0120	2.522	-.0454
#2	1.032	26.74	.0007	1.030	-.0061	2.521	-.0644
#3	1.032	26.15	.0029	1.047	-.0053	2.526	-.0352
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0173	2.533	2.394	18.09	.1517	.5246	-.0024
SDev	.0025	.005	.005	.05	.0324	.0029	.0048
%RSD	14.31	.1923	.2154	.2694	21.38	.5490	196.6
#1	-.0191	2.528	2.393	18.12	.1763	.5261	-.0071
#2	-.0182	2.533	2.389	18.12	.1150	.5264	-.0027
#3	-.0145	2.538	2.399	18.03	.1639	.5213	.0025
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0434	1.010	2.419	-.1971	.9835	.0210	-.0007
SDev	.0097	.004	.005	.0978	.0031	.0098	.0001
%RSD	22.33	.3823	.2100	49.62	.3186	46.82	19.60
#1	.0346	1.013	2.416	-.1778	.9867	.0168	-.0006
#2	.0538	1.012	2.425	-.3031	.9834	.0140	-.0009
#3	.0417	1.006	2.417	-.1104	.9804	.0323	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9869	2.069
SDev	.0047	.009
%RSD	.4717	.4142
#1	.9841	2.073
#2	.9923	2.074
#3	.9844	2.059
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 13:27:10
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Pd,U-Fail
Hi Fe recv. OK
DRS
9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	.0300	.0441	.0045	.0000	-.0000	.0115
SDev	.0001	.0010	.0050	.0031	.0001	.0000	.0134
%RSD	.7432	3.331	11.39	68.21	1275.	15.06	116.6
#1	.0169	.0303	.0460	.0031	-.0001	-.0000	.0261
#2	.0166	.0289	.0480	.0080	.0000	-.0000	.0088
#3	.0168	.0308	.0385	.0024	.0001	-.0000	-.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	-.0002	2.038	.0027	.0015	-.0028	2.044
SDev	.0008	.0019	.005	.0005	.0022	.0010	.004
%RSD	17.53	1209.	.2319	18.16	144.8	36.17	.1939
#1	.0045	.0001	2.033	.0028	.0011	-.0019	2.043
#2	.0054	.0016	2.039	.0032	-.0004	-.0025	2.040
#3	.0038	-.0022	2.042	.0022	.0039	-.0039	2.048
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.026	.0045	.0552	2.019	.0010	.1612	.0009
SDev	.004	.0003	.0595	.003	.0015	.0047	.0001
%RSD	.2046	7.772	107.9	.1254	146.3	2.936	7.619
#1	2.024	.0046	-.0000	2.018	-.0006	.1602	.0009
#2	2.023	.0049	.1183	2.017	.0014	.1663	.0009
#3	2.031	.0042	.0473	2.022	.0023	.1570	.0010
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0322	2.020	.0048	-.0244	.0650	Q3.094
SDev	.0011	.0212	.010	.0007	.0016	.0035	.021
%RSD	345.2	65.85	.4800	14.33	6.440	5.335	.6905
#1	-.0006	.0445	2.014	.0041	-.0231	.0655	Q3.090
#2	.0016	.0077	2.016	.0048	-.0262	.0613	Q3.074
#3	.0000	.0444	2.032	.0054	-.0240	.0682	Q3.117
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

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Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.073	.0191	.0010	.1466	2.181	.0006	1.836
SDev	.008	.0045	.0075	.0060	.008	.0000	.004
%RSD	.3952	23.71	727.1	4.084	.3723	.9592	.2232
#1	2.065	.0153	-.0034	.1402	2.174	.0006	1.832
#2	2.081	.0179	.0096	.1521	2.190	.0006	1.840
#3	2.072	.0241	-.0031	.1475	2.180	.0005	1.837
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.211	.0013	.0176	08.463	-.0020	0.5138	1.005
SDev	.010	.0001	.0149	.050	.0009	.0042	.001
%RSD	.1942	8.968	84.69	.5966	45.21	.8155	.1113
#1	5.203	.0012	.0168	08.445	-.0024	0.5186	1.003
#2	5.222	.0014	.0031	08.424	-.0010	0.5107	1.005
#3	5.207	.0012	.0328	08.520	-.0027	0.5122	1.006
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0022	.0129
SDev	.0012	.0011
%RSD	53.18	8.668
#1	.0029	.0130
#2	.0029	.0118
#3	.0009	.0140
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SST-ICS-2 9509081102 Operator: DRS
Run Time: 09/19/95 13:31:43
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0688	95.23	.0897	.0142	.0024	.0002	.1379
SDev	.0006	.67	.0121	.0007	.0001	.0000	.0188
%RSD	.8248	.7085	13.45	5.055	6.232	24.76	13.64
#1	.0682	96.01	.0763	.0149	.0025	.0001	.1411
#2	.0693	94.90	.0929	.0134	.0022	.0002	.1177
#3	.0691	94.79	.0998	.0142	.0025	.0002	.1549

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0498	.0147	-.0397	.0130	.0286	-.0230	.0077
SDev	.0020	.0014	.0076	.0005	.0036	.0018	.0009
%RSD	3.937	9.694	19.05	3.826	12.44	7.790	12.05
#1	.0477	.0149	-.0476	.0128	.0253	-.0245	.0069
#2	.0502	.0132	-.0390	.0126	.0282	-.0233	.0075
#3	.0516	.0160	-.0325	.0136	.0324	-.0210	.0088

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	19.09	4317.	.0271	.0108	.6538	.0044
SDev	.0003	.10	34.	.0011	.0005	.0054	.0002
%RSD	5.387	.5263	.7801	4.038	4.490	.8336	4.677
#1	.0044	19.20	4356.	.0258	.0113	.6486	.0042
#2	.0048	19.02	4302.	.0279	.0105	.6595	.0045
#3	.0049	19.04	4293.	.0275	.0105	.6532	.0045

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	.3882	.0578	50.36	.0435	.3163	.1089
SDev	.0015	.0246	.0066	.24	.0214	.0059	.0165
%RSD	20.42	6.329	11.51	.4756	49.11	1.879	15.15
#1	.0060	.3736	.0503	50.61	.0203	.3109	.0899
#2	.0088	.3745	.0601	50.14	.0480	.3154	.1189
#3	.0067	.4166	.0630	50.33	.0623	.3226	.1179

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1401	.1040	.0530	.3409	1.176	.0011	.0862
SDev	.0107	.0072	.0115	.0063	.031	.0001	.0037
%RSD	7.637	6.910	21.76	1.848	2.630	8.175	4.350
#1	.1288	.0963	.0411	.3469	1.150	.0010	.0889
#2	.1413	.1052	.0641	.3413	1.167	.0012	.0820
#3	.1501	.1105	.0540	.3343	1.210	.0012	.0879

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8118	.0080	.2284	43.24	.0152	.0627	.0083
SDev	.0057	.0006	.0067	.27	.0009	.0111	.0005

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%RSD	.6997	8.181	2.918	.6285	6.048	17.74	6.260
#1	.8171	.0072	.2209	43.55	.0141	.0527	.0077
#2	.8058	.0084	.2310	43.09	.0158	.0747	.0086
#3	.8125	.0083	.2334	43.08	.0156	.0607	.0086

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0131	9.565
SDev	.0032	.058
%RSD	24.20	.6029
#1	.0166	9.631
#2	.0104	9.530
#3	.0123	9.533

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 13:35:53
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0035	-.0067	.0007	-.0001	-.0000	-.0043
SDev	.0003	.0048	.0028	.0007	.0001	.0000	.0049
%RSD	45.91	137.5	41.28	100.9	56.37	175.7	114.2
#1	-.0011	.0013	-.0090	.0013	-.0002	-.0000	-.0078
#2	-.0007	.0002	-.0074	.0000	-.0002	.0000	-.0064
#3	-.0004	.0089	-.0036	.0006	-.0000	-.0000	.0013

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	-.0006	.0007	.0007	-.0001	.0019	.0001
SDev	.0005	.0032	.0035	.0006	.0014	.0004	.0011
%RSD	12.63	586.1	526.7	77.58	2404.	19.87	772.1
#1	.0033	-.0028	.0003	.0001	.0011	.0015	-.0011
#2	.0042	-.0019	-.0026	.0011	.0003	.0019	.0006
#3	.0041	.0031	.0044	.0009	-.0016	.0022	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0003	.0079	.0001	-.0007	.0108	.0002
SDev	.0002	.0005	.0985	.0017	.0007	.0046	.0003
%RSD	249.1	205.4	1249.	1330.	103.6	42.17	148.1
#1	.0001	-.0008	-.0710	-.0018	-.0011	.0071	-.0001
#2	-.0001	.0002	-.0237	.0006	-.0011	.0159	.0005
#3	.0002	-.0002	.1183	.0015	.0001	.0094	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0053	-.0003	.0029	.0238	-.0027	.0169
SDev	.0005	.0248	.0049	.0003	.0246	.0054	.0064
%RSD	53.21	470.7	1847.	10.95	103.6	204.0	38.01
#1	.0004	-.0332	-.0059	.0026	.0118	-.0033	.0222
#2	.0009	.0035	.0020	.0029	.0074	.0031	.0098
#3	.0014	.0139	.0031	.0032	.0521	-.0077	.0186

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0090	.0044	.0318	.0416	.0003	.0069
SDev	.0070	.0095	.0153	.0037	.0280	.0000	.0093
%RSD	1356.	105.6	347.2	11.53	67.22	1.876	134.2
#1	-.0083	.0043	.0195	.0282	.0158	.0003	-.0030
#2	.0053	.0200	.0049	.0317	.0377	.0003	.0154
#3	.0014	.0028	-.0111	.0355	.0714	.0003	.0084

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	-.0001	.0065	-.0113	-.0003	-.0010	-.0005
SDev	.0087	.0003	.0053	.0653	.0001	.0093	.0003

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%RSD	260.4	382.2	82.34	577.9	17.84	952.7	62.55
#1	-.0044	-.0005	.0023	-.0556	-.0003	-.0090	-.0007
#2	.0127	.0001	.0125	-.0420	-.0003	-.0031	-.0007
#3	.0017	.0001	.0046	.0637	-.0004	.0092	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0002
SDev	.0009	.0006
%RSD	377.3	372.9
#1	-.0009	.0004
#2	-.0006	-.0008
#3	.0008	-.0001

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Method: ICP1 Sample Name: FIRST SAMP PREP BLK @5 Operator: DRS
Run Time: 09/19/95 13:39:40
Comment: KOH/Ni PREP BLANK 9507941-HCB @5% oil
Mode: CONC Corr. Factor: 1 DS 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	.2250	.0371	.0814	.0028	.0001	.0329
SDev	.0015	.0058	.0071	.0026	.0001	.0001	.0006
%RSD	18.05	2.592	19.21	3.230	5.366	37.53	1.900
#1	.0072	.2314	.0447	.0839	.0027	.0001	.0327
#2	.0102	.2237	.0306	.0787	.0030	.0001	.0324
#3	.0082	.2199	.0360	.0817	.0027	.0002	.0336

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0730	.0044	.0422	.0110	.0093	-.0049	.0058
SDev	.0022	.0014	.0075	.0018	.0009	.0015	.0014
%RSD	3.012	32.14	17.84	15.95	9.641	29.40	24.46
#1	.0704	.0050	.0349	.0094	.0086	-.0051	.0047
#2	.0741	.0028	.0499	.0129	.0094	-.0034	.0074
#3	.0744	.0054	.0419	.0108	.0104	-.0063	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.1354	2187.	.0126	.0265	.0512	.0409
SDev	.0004	.0021	25.	.0022	.0010	.0017	.0003
%RSD	22.44	1.557	1.149	17.28	3.951	3.308	.7855
#1	.0013	.1372	2206.	.0118	.0255	.0510	.0409
#2	.0019	.1331	2159.	.0151	.0276	.0496	.0406
#3	.0020	.1360	2196.	.0109	.0264	.0529	.0412

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0076	1.000	.0365	4.806	.0453	.0696	.1236
SDev	.0003	.015	.0067	.042	.0138	.0100	.0218
%RSD	4.212	1.506	18.44	.8826	30.56	14.34	17.61
#1	.0076	.9915	.0294	4.835	.0293	.0652	.1073
#2	.0079	1.018	.0428	4.757	.0533	.0811	.1483
#3	.0072	.9913	.0373	4.824	.0533	.0626	.1152

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0704	.0383	.0393	.4233	.2588	.0016	.0468
SDev	.0113	.0009	.0018	.0066	.0536	.0001	.0066
%RSD	16.08	2.457	4.621	1.547	20.72	7.114	14.00
#1	.0647	.0383	.0394	.4244	.2177	.0015	.0450
#2	.0835	.0393	.0410	.4163	.3194	.0017	.0540
#3	.0631	.0374	.0374	.4293	.2392	.0016	.0413

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	.0494	.0311	.4808	.0054	.0273	.0018
SDev	.0038	.0001	.0058	.0702	.0006	.0092	.0003

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%RSD	30.65	.2208	18.75	14.60	11.97	33.85	15.07
#1	.0090	.0495	.0259	.4238	.0050	.0182	.0016
#2	.0117	.0495	.0374	.5592	.0062	.0269	.0021
#3	.0165	.0493	.0301	.4594	.0052	.0367	.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0098	.0301
SDev	.0009	.0006
%RSD	9.350	2.084
#1	.0109	.0299
#2	.0094	.0307
#3	.0091	.0295

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Method: ICP1 Sample Name: 2ND SAMPLE PREP BLK Operator: DRS
Run Time: 09/19/95 13:43:24
Comment: KOH/Ni PREP BLANK 9507941-HCB POST SPIKE @ 5x DIL
Mode: CONC Corr. Factor: 1 DH 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1203	14.04	.5386	.4496	.0943	.0179	4.646
SDev	.0015	.11	.0057	.0094	.0008	.0001	.039
%RSD	1.257	.8105	1.050	2.081	.7956	.5780	.8499
#1	.1193	13.92	.5381	.4418	.0936	.0178	4.615
#2	.1195	14.15	.5445	.4600	.0951	.0180	4.691
#3	.1220	14.04	.5332	.4471	.0940	.0178	4.633

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.433	.3456	.0570	.2079	1.637	.1846	.0055
SDev	.059	.0011	.0022	.0003	.023	.0013	.0005
%RSD	.6222	.3294	3.800	.1205	1.404	.7002	9.719
#1	9.373	.3458	.0561	.2080	1.615	.1853	.0058
#2	9.490	.3467	.0554	.2081	1.660	.1855	.0049
#3	9.434	.3444	.0594	.2076	1.635	.1831	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	3.962	2162.	.0232	.3646	5.306	.2321
SDev	.0002	.028	19.	.0008	.0054	.043	.0018
%RSD	7.548	.7092	.8561	3.233	1.482	.8161	.7757
#1	.0032	3.935	2142.	.0236	.3592	5.260	.2304
#2	.0028	3.991	2179.	.0223	.3700	5.346	.2340
#3	.0032	3.962	2164.	.0237	.3646	5.312	.2320

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2022	20.06	.0533	9.821	.0852	5.606	.1321
SDev	.0016	.20	.0056	.055	.0267	.026	.0202
%RSD	.7914	.9874	10.42	.5635	31.41	.4657	15.32
#1	.2006	19.84	.0558	9.769	.1122	5.583	.1398
#2	.2022	20.23	.0470	9.879	.0846	5.635	.1092
#3	.2038	20.12	.0572	9.817	.0587	5.601	.1474

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0974	.5468	.5135	13.42	.5832	.0942	.0604
SDev	.0076	.0009	.0058	.12	.0204	.0009	.0043
%RSD	7.825	.1744	1.126	.8781	3.500	.9501	7.042
#1	.1025	.5474	.5070	13.30	.5849	.0934	.0650
#2	.0886	.5457	.5156	13.53	.5620	.0951	.0594
#3	.1010	.5473	.5180	13.43	.6028	.0941	.0566

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3140	.2369	.5215	17.80	.1922	.0298	.0045
SDev	.0054	.0023	.0097	.11	.0008	.0085	.0002

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%RSD	1.734	.9858	1.868	.6156	.4427	28.52	5.355
#1	.3197	.2346	.5288	17.69	.1914	.0284	.0046
#2	.3089	.2393	.5253	17.91	.1931	.0221	.0042
#3	.3133	.2368	.5104	17.79	.1919	.0390	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2065	.8651
SDev	.0035	.0084
%RSD	1.698	.9756
#1	.2025	.8565
#2	.2090	.8733
#3	.2079	.8655

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Method: ICP1 Sample Name: 3RD SAMP SAMPLE @5 Operator: DRS
Run Time: 09/19/95 13:46:56
Comment: KOH/Ni 95-007941-H1T @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0083	29.11	.0358	.0889	.0058	.0002	.0833
SDev	.0002	.06	.0036	.0040	.0001	.0000	.0156
%RSD	2.279	.2040	9.948	4.452	2.295	20.85	18.72
#1	.0081	29.12	.0362	.0934	.0058	.0002	.0864
#2	.0085	29.16	.0392	.0873	.0056	.0002	.0664
#3	.0083	29.05	.0321	.0860	.0059	.0002	.0972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1505	.0050	.0415	.0136	.0279	.0032	.0071
SDev	.0014	.0018	.0036	.0014	.0018	.0006	.0006
%RSD	.9366	36.40	8.603	10.49	6.561	19.55	8.916
#1	.1489	.0047	.0379	.0123	.0261	.0038	.0065
#2	.1510	.0070	.0415	.0135	.0297	.0031	.0070
#3	.1516	.0034	.0450	.0151	.0278	.0026	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.3229	2196.	.0125	.0243	.1148	.0661
SDev	.0003	.0012	4.	.0005	.0008	.0013	.0003
%RSD	14.76	.3613	.1735	4.088	3.431	1.116	.4514
#1	.0016	.3215	2194.	.0121	.0234	.1149	.0658
#2	.0017	.3237	2200.	.0131	.0243	.1160	.0664
#3	.0021	.3234	2193.	.0124	.0251	.1134	.0661

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	21.67	.0391	21.23	4.984	.0901	.1388
SDev	.0009	.10	.0037	.06	.042	.0005	.0097
%RSD	15.58	.4485	9.417	.2858	.8475	.5104	6.969
#1	.0046	21.61	.0348	21.25	4.954	.0905	.1354
#2	.0059	21.78	.0410	21.27	4.966	.0903	.1313
#3	.0063	21.61	.0414	21.16	5.033	.0896	.1497

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0677	.0521	.0149	1.476	.3047	.0062	.0421
SDev	.0057	.0132	.0074	.003	.0178	.0001	.0049
%RSD	8.470	25.39	49.90	.2323	5.855	1.131	11.69
#1	.0611	.0369	.0109	1.472	.2895	.0063	.0398
#2	.0700	.0606	.0235	1.477	.3243	.0062	.0387
#3	.0719	.0589	.0103	1.479	.3002	.0061	.0477

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	.0784	.0899	.5848	.0139	.0303	.0020
SDev	.0049	.0003	.0061	.0237	.0004	.0030	.0002

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%RSD	41.44	.4211	6.822	4.048	2.746	9.852	8.510
#1	.0108	.0786	.0831	.5577	.0135	.0273	.0018
#2	.0077	.0780	.0917	.6011	.0141	.0302	.0021
#3	.0173	.0786	.0950	.5957	.0142	.0333	.0021

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0219	.0372
SDev	.0004	.0005
%RSD	2.065	1.312
#1	.0221	.0366
#2	.0221	.0376
#3	.0213	.0373

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Method: ICP1 Sample Name: 4TH SAMP PS @5 Operator: DRS
Run Time: 09/19/95 13:50:38
Comment: KOH/Ni 95-007941-H1T-PS @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1230	42.74	.5658	.4635	.0997	.0184	4.821
SDev	.0015	.41	.0066	.0066	.0010	.0002	.053
%RSD	1.230	.9690	1.170	1.414	1.034	.9460	1.104
#1	.1219	42.27	.5592	.4560	.0985	.0182	4.772
#2	.1247	42.95	.5725	.4682	.1002	.0185	4.815
#3	.1224	43.01	.5657	.4664	.1004	.0185	4.878

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.836	.3483	.0488	.2137	1.701	.1957	.0057
SDev	.081	.0064	.0040	.0011	.016	.0011	.0002
%RSD	.8229	1.834	8.216	.5198	.9456	.5583	4.173
#1	9.742	.3424	.0470	.2125	1.686	.1950	.0060
#2	9.883	.3474	.0534	.2145	1.718	.1970	.0055
#3	9.882	.3551	.0460	.2143	1.700	.1952	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	4.246	2169.	.0216	.3734	5.477	.2623
SDev	.0002	.033	22.	.0008	.0027	.056	.0017
%RSD	6.799	.7887	1.035	3.725	.7130	1.018	.6627
#1	.0025	4.207	2143.	.0219	.3703	5.413	.2606
#2	.0029	4.265	2183.	.0222	.3753	5.505	.2641
#3	.0026	4.265	2181.	.0207	.3745	5.514	.2621

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2022	40.64	.0496	25.94	4.927	5.757	.1156
SDev	.0024	.50	.0044	.20	.070	.048	.0153
%RSD	1.166	1.230	8.815	.7891	1.420	.8268	13.22
#1	.1994	40.07	.0545	25.71	4.850	5.705	.1325
#2	.2034	40.98	.0459	26.08	4.944	5.799	.1027
#3	.2037	40.88	.0485	26.03	4.986	5.766	.1118

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0911	.5840	.5156	14.84	.5849	.1015	.0608
SDev	.0075	.0083	.0134	.18	.0180	.0009	.0015
%RSD	8.174	1.421	2.593	1.213	3.076	.8792	2.410
#1	.0944	.5754	.5009	14.63	.5812	.1005	.0608
#2	.0964	.5920	.5188	14.92	.6045	.1021	.0623
#3	.0826	.5846	.5270	14.97	.5691	.1021	.0594

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3263	.2696	.5852	18.23	.2044	.0416	.0040
SDev	.0150	.0022	.0083	.08	.0017	.0120	.0003

%RSD	4.600	.8005	1.427	.4442	.8170	28.97	7.485
#1	.3160	.2672	.5850	18.14	.2028	.0494	.0037
#2	.3435	.2705	.5936	18.23	.2061	.0476	.0043
#3	.3194	.2712	.5769	18.30	.2043	.0277	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2222	.8996
SDev	.0022	.0071
%RSD	.9727	.7860
#1	.2217	.8915
#2	.2204	.9029
#3	.2246	.9044

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:54:31
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Fail-Si low DB 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4716	24.54	2.507	1.944	.5081	.0901	23.67
SDev	.0009	.07	.027	.014	.0021	.0003	.04
%RSD	.1896	.2731	1.078	.7274	.4192	.2817	.1676
#1	.4719	24.59	2.530	1.958	.5098	.0904	23.70
#2	.4706	24.56	2.514	1.944	.5087	.0901	23.69
#3	.4723	24.46	2.477	1.930	.5057	Q.0899	23.63
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.48	.4902	-.0224	1.011	1.007	.9845	.0012
SDev	.03	.0024	.0014	.002	.004	.0042	.0005
%RSD	.1344	.4894	6.279	.1854	.4054	.4292	41.56
#1	24.52	.4900	-.0237	1.011	1.005	.9893	.0010
#2	24.46	.4927	-.0227	1.009	1.011	.9830	.0008
#3	24.46	.4879	-.0209	1.012	1.003	.9812	.0017
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.08	27.12	.0104	2.053	26.00	.5002
SDev	.0002	.05	.05	.0011	.013	.05	.0008
%RSD	8.516	.2244	.2015	10.96	.6527	.1838	.1620
#1	.0022	20.12	27.09	.0115	2.052	26.05	.5011
#2	.0020	20.07	27.19	.0092	2.068	26.01	.4997
#3	.0023	20.03	27.09	.0106	2.041	25.95	.4997
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.022	26.33	.0170	1.037	.0360	2.555	.0243
SDev	.001	.16	.0026	.006	.0103	.022	.0110
%RSD	.0893	.6023	15.59	.5586	28.56	.8619	45.20
#1	1.023	26.31	.0187	1.037	.0242	2.544	.0168
#2	1.023	26.50	.0183	1.031	.0426	2.541	.0191
#3	1.021	26.18	.0139	1.042	.0413	2.581	.0368
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	2.515	2.371	Q17.96	.2407	.5142	.0098
SDev	.0045	.014	.007	.04	.0218	.0018	.0024
%RSD	35.37	.5398	.2994	.2068	9.067	.3531	24.28
#1	.0153	2.524	2.363	18.00	.2333	.5155	.0106
#2	.0075	2.500	2.375	Q17.97	.2236	.5150	.0116
#3	.0154	2.522	2.375	Q17.93	.2653	.5121	.0071
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0375	.9957	2.412	.1191	.9726	.0223	.0003
SDev	.0021	.0029	.027	.0576	.0018	.0040	.0004
%RSD	5.566	.2908	1.102	48.35	.1850	17.78	143.5
#1	.0353	.9984	2.382	.0560	.9738	.0208	.0005
#2	.0380	.9961	2.433	.1325	.9735	.0193	-.0002
#3	.0394	.9926	2.420	.1688	.9706	.0268	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9895	2.038
SDev	.0011	.006
%RSD	.1094	.3188
#1	.9896	2.045
#2	.9906	2.038
#3	.9883	2.032
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:57:32
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4780	24.81	2.533	1.975	.5139	.0911	23.94
SDev	.0005	.09	.014	.011	.0024	.0004	.09
%RSD	.1063	.3493	.5711	.5362	.4617	.4368	.3558
#1	.4783	24.91	2.524	1.987	.5167	.0916	24.01
#2	.4783	24.75	2.525	1.969	.5124	.0908	23.84
#3	.4774	24.78	2.549	1.968	.5127	.0910	23.97
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.75	.4924	-.0322	1.023	1.022	.9972	.0012
SDev	.06	.0052	.0061	.002	.010	.0035	.0007
%RSD	.2479	1.052	18.88	.2427	1.006	.3527	57.10
#1	24.82	.4917	-.0392	1.026	1.033	1.001	.0004
#2	24.70	.4876	-.0285	1.022	1.017	.9967	.0016
#3	24.73	.4979	-.0289	1.022	1.014	.9940	.0017
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.29	26.82	.0105	2.057	26.27	.5054
SDev	.0000	.06	.17	.0008	.009	.07	.0005
%RSD	1.638	.3003	.6258	7.826	.4479	.2828	.0955
#1	.0022	20.36	26.64	.0098	2.050	26.35	.5060
#2	.0021	20.25	26.86	.0103	2.054	26.20	.5050
#3	.0021	20.26	26.97	.0114	2.068	26.26	.5053
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	26.32	.0168	1.051	.0492	2.571	.0117
SDev	.004	.12	.0021	.009	.0114	.006	.0067
%RSD	.4005	.4471	12.80	.8924	23.21	.2288	57.12
#1	1.039	26.27	.0151	1.055	.0469	2.577	.0059
#2	1.031	26.24	.0160	1.040	.0392	2.565	.0102
#3	1.036	26.46	.0192	1.057	.0617	2.569	.0190
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0130	2.564	2.415	18.15	.2445	.5204	.0110
SDev	.0035	.014	.018	.04	.0457	.0020	.0100
%RSD	27.08	.5576	.7502	.1960	18.68	.3891	90.81
#1	.0095	2.547	2.435	18.19	.2026	.5227	.0007
#2	.0165	2.572	2.399	18.12	.2376	.5190	.0207
#3	.0129	2.572	2.411	18.15	.2932	.5194	.0117
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0439	1.007	2.449	.0989	.9833	.0301	.0004
SDev	.0023	.004	.023	.0828	.0037	.0024	.0001
%RSD	5.207	.3505	.9370	83.72	.3811	7.920	38.76
#1	.0465	1.011	2.473	.0033	.9874	.0297	.0002
#2	.0431	1.005	2.427	.1472	.9801	.0279	.0005
#3	.0421	1.005	2.448	.1463	.9824	.0327	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9986	2.061
SDev	.0050	.009
%RSD	.4997	.4332
#1	.9950	2.071
#2	1.004	2.055
#3	.9965	2.057
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 14:01:12
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0220	.0666	.0726	.0050	.0008	.0000	.0191
SDev	.0010	.0103	.0109	.0006	.0001	.0000	.0056
%RSD	4.580	15.40	14.99	12.19	17.03	2.618	29.04
#1	.0220	.0681	.0820	.0056	.0008	.0000	.0166
#2	.0210	.0556	.0607	.0044	.0007	.0000	.0255
#3	.0230	.0760	.0752	.0050	.0009	.0000	.0153
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	.0005	2.071	.0059	.0015	.0001	2.039
SDev	.0007	.0011	.010	.0013	.0020	.0026	.022
%RSD	5.357	217.6	.4925	21.37	138.5	3141.	1.079
#1	.0129	-.0004	2.071	.0073	-.0006	.0017	2.030
#2	.0121	.0018	2.081	.0049	.0016	-.0029	2.064
#3	.0134	.0001	2.060	.0055	.0034	.0014	2.022
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.027	.0088	.6073	2.034	.0034	.1923	.0012
SDev	.020	.0004	.2274	.018	.0013	.0117	.0001
%RSD	1.005	4.625	37.44	.8692	37.66	6.062	6.518
#1	2.021	.0093	.5679	2.030	.0048	.2046	.0011
#2	2.049	.0085	.4022	2.053	.0023	.1814	.0013
#3	2.010	.0087	.8518	2.018	.0031	.1909	.0011
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0861	2.040	.0062	.0062	.0830	Q3.155
SDev	.0014	.0321	.015	.0017	.0177	.0163	.018
%RSD	43.82	37.29	.7272	28.02	284.1	19.60	.5826
#1	.0045	.0703	2.037	.0054	.0256	.0947	Q3.139
#2	.0017	.0649	2.056	.0082	.0023	.0644	Q3.175
#3	.0031	.1230	2.027	.0050	-.0092	.0900	Q3.150
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.132	.0249	.0135	.1409	Q2.383	.0009	1.879
SDev	.010	.0152	.0120	.0012	.027	.0001	.015
%RSD	.4557	60.90	88.63	.8702	1.135	8.084	.7869
#1	2.129	.0422	.0187	.1405	Q2.375	.0009	1.863
#2	2.143	.0138	-.0002	.1399	Q2.414	.0008	1.893
#3	2.124	.0187	.0220	.1423	Q2.362	.0009	1.880
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.272	.0027	.0220	Q8.609	.0007	Q.5316	1.009
SDev	.029	.0003	.0056	.020	.0011	.0124	.008
%RSD	.5579	11.39	25.40	.2327	166.3	2.336	.7950
#1	5.275	.0027	.0161	Q8.627	.0008	Q.5203	1.006
#2	5.300	.0024	.0271	Q8.588	-.0005	Q.5449	1.019
#3	5.241	.0030	.0228	Q8.612	.0017	Q.5296	1.004
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0018	.0093
SDev	.0005	.0015
%RSD	29.52	15.67
#1	.0019	.0077
#2	.0022	.0103
#3	.0012	.0100
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SST-ICS-1 9509081101 Operator: DRS
Run Time: 09/19/95 14:04:52
Comment: KOH/Ni 95-007941-H1T-FS @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0630	93.15	.0990	.0106	.0017	.0001	.1242
SDev	.0020	1.49	.0145	.0014	.0005	.0001	.0046
%RSD	3.143	1.598	14.66	13.14	30.14	30.91	3.693
#1	.0618	93.92	.1116	.0094	.0013	.0001	.1206
#2	.0620	94.10	.0831	.0122	.0015	.0001	.1293
#3	.0653	91.44	.1023	.0103	.0023	.0002	.1226

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0428	.0153	-.0344	.0114	.0284	.0179	.0073
SDev	.0017	.0011	.0191	.0017	.0020	.0024	.0016
%RSD	3.906	7.351	55.54	15.27	7.153	13.38	22.07
#1	.0409	.0165	-.0525	.0103	.0268	.0164	.0058
#2	.0432	.0142	-.0364	.0105	.0277	.0167	.0071
#3	.0442	.0152	-.0144	.0134	.0306	.0207	.0090

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	18.27	1.388	.0272	.0167	.6212	.0041
SDev	.0006	.21	.399	.0026	.0021	.0078	.0003
%RSD	12.85	1.153	28.74	9.674	12.43	1.259	7.735
#1	.0041	18.37	1.112	.0245	.0146	.6141	.0040
#2	.0045	18.40	1.207	.0273	.0167	.6296	.0039
#3	.0053	18.02	1.846	.0298	.0188	.6200	.0045

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	3796.	.0544	48.24	.0167	.2837	.0962
SDev	.0014	58.	.0100	.47	.0271	.0222	.0369
%RSD	26.87	1.529	18.44	.9811	162.6	7.821	38.38
#1	.0039	3826.	.0466	48.44	.0465	.2658	.0671
#2	.0055	3833.	.0510	48.57	.0103	.2768	.0839
#3	.0068	3729.	.0657	47.69	-.0067	.3085	.1378

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1326	.0900	.0296	.2557	1.057	.0012	.0678
SDev	.0187	.0053	.0199	.0069	.062	.0001	.0185
%RSD	14.08	5.939	67.02	2.702	5.822	12.83	27.35
#1	.1156	.0840	.0145	.2527	1.038	.0011	.0667
#2	.1296	.0916	.0521	.2508	1.006	.0012	.0498
#3	.1526	.0943	.0223	.2636	1.125	.0014	.0869

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7719	.0074	.2233	41.23	.0135	.0564	.0077
SDev	.0048	.0007	.0097	.49	.0016	.0058	.0004

%RSD	.6170	9.162	4.350	1.184	11.73	10.32	5.128
#1	.7758	.0067	.2192	41.47	.0123	.0497	.0073
#2	.7733	.0076	.2343	41.54	.0128	.0602	.0079
#3	.7666	.0080	.2162	40.67	.0153	.0593	.0080

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0105	9.214
SDev	.0025	.137
%RSD	24.20	1.485
#1	.0135	9.285
#2	.0090	9.301
#3	.0091	9.056

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Method: ICP1 Sample Name: 5TH SAMP PREP BLK @5 Operator: DRS
Run Time: 09/19/95 14:08:35
Comment: Na2O2/Zr PREP BLANK 95-007941-N3 @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0169	.0849	.0186	.1365	.0036	.0001	.0358
SDev	.0019	.0070	.0052	.0016	.0001	.0000	.0155
%RSD	11.04	8.224	27.69	1.189	2.096	24.57	43.41
#1	.0164	.0778	.0132	.1375	.0035	.0001	.0337
#2	.0154	.0851	.0191	.1374	.0036	.0001	.0214
#3	.0190	.0918	.0235	.1346	.0036	.0001	.0522

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.014	.0004	-.0935	.0081	.0110	.0158	.0096
SDev	.008	.0020	.0109	.0003	.0010	.0011	.0009
%RSD	.4104	548.3	11.64	3.699	9.302	7.055	9.208
#1	2.015	.0027	-.1028	.0081	.0121	.0160	.0090
#2	2.022	-.0010	-.0960	.0079	.0111	.0167	.0092
#3	2.006	-.0006	-.0815	.0084	.0100	.0145	.0107

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0693	1.743	.0165	.0096	.0713	.0028
SDev	.0003	.0003	.083	.0011	.0023	.0014	.0002
%RSD	9.346	.3579	4.767	6.421	23.77	2.016	7.340
#1	.0031	.0694	1.656	.0159	.0070	.0729	.0028
#2	.0035	.0694	1.751	.0160	.0108	.0711	.0027
#3	.0038	.0690	1.822	.0178	.0112	.0700	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	2130.	.0549	.1085	.0234	.0576	.1769
SDev	.0004	16.	.0081	.0014	.0251	.0037	.0049
%RSD	6.242	.7741	14.75	1.336	107.5	6.474	2.740
#1	.0077	2142.	.0526	.1077	-.0053	.0550	.1714
#2	.0072	2136.	.0483	.1102	.0341	.0619	.1800
#3	.0068	2111.	.0640	.1076	.0414	.0560	.1795

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0682	.0383	.0348	.1081	.3118	.0143	.0502
SDev	.0105	.0089	.0023	.0065	.0152	.0001	.0059
%RSD	15.46	23.17	6.569	6.044	4.886	.5296	11.72
#1	.0607	.0476	.0322	.1028	.2994	.0143	.0446
#2	.0636	.0299	.0366	.1061	.3288	.0144	.0563
#3	.0802	.0375	.0356	.1154	.3071	.0143	.0497

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0247	.0048	.0332	.2192	.0066	.0179	.0034
SDev	.0040	.0003	.0082	.1014	.0003	.0099	.0001

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%RSD	16.11	6.391	24.73	46.26	4.079	55.12	4.084
#1	.0242	.0045	.0291	.1866	.0063	.0073	.0034
#2	.0290	.0051	.0426	.1381	.0068	.0197	.0034
#3	.0211	.0049	.0278	.3328	.0066	.0267	.0036

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0236	10.04
SDev	.0010	.07
%RSD	4.314	.6849
#1	.0240	10.07
#2	.0244	10.08
#3	.0225	9.956

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Method: ICP1 Sample Name: 6TH SAMP BLK-PS @5 Operator: DRS
Run Time: 09/19/95 14:12:21
Comment: Na2O2/Zr PREP BLANK 95-007941-N3 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1324	14.37	.5617	.5169	.0964	.0181	4.861
SDev	.0010	.16	.0194	.0091	.0010	.0002	.048
%RSD	.7732	1.115	3.458	1.767	1.086	1.085	.9864
#1	.1312	14.56	.5719	.5250	.0976	.0183	4.916
#2	.1330	14.28	.5740	.5070	.0960	.0180	4.833
#3	.1330	14.28	.5393	.5188	.0956	.0180	4.834

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.72	.3552	-.0667	.2100	1.677	.2116	.0088
SDev	.07	.0048	.0140	.0018	.008	.0011	.0012
%RSD	.6471	1.362	20.98	.8460	.4773	.5011	14.06
#1	10.80	.3525	-.0827	.2115	1.684	.2122	.0074
#2	10.67	.3608	-.0569	.2103	1.678	.2104	.0094
#3	10.69	.3523	-.0604	.2080	1.668	.2122	.0097

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	3.976	25.13	.0253	.3550	5.462	.1985
SDev	.0002	.031	.17	.0013	.0024	.042	.0017
%RSD	5.131	.7776	.6790	5.047	.6746	.7683	.8431
#1	.0043	4.011	24.99	.0238	.3577	5.507	.2004
#2	.0047	3.955	25.32	.0258	.3536	5.424	.1976
#3	.0047	3.961	25.08	.0263	.3536	5.455	.1974

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2020	2118.	.0685	5.302	.0563	5.757	.1544
SDev	.0027	27.	.0041	.050	.0170	.026	.0289
%RSD	1.324	1.271	6.039	.9392	30.16	.4507	18.71
#1	.2050	2148.	.0637	5.359	.0419	5.781	.1210
#2	.1998	2107.	.0701	5.271	.0518	5.729	.1703
#3	.2012	2098.	.0715	5.274	.0750	5.761	.1718

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0956	.5569	.5249	13.62	.6066	.1078	.0544
SDev	.0066	.0064	.0015	.14	.0405	.0011	.0092
%RSD	6.862	1.156	.2875	1.018	6.673	.9877	17.00
#1	.0899	.5624	.5236	13.78	.5598	.1090	.0445
#2	.0940	.5498	.5265	13.56	.6289	.1073	.0558
#3	.1028	.5584	.5244	13.53	.6309	.1071	.0628

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3360	.1965	.5281	17.55	.1961	.0341	.0056
SDev	.0094	.0016	.0079	.10	.0010	.0108	.0004

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%RSD	2.804	.8246	1.497	.5880	.5134	31.72	7.988
#1	.3469	.1983	.5191	17.66	.1971	.0218	.0051
#2	.3310	.1956	.5342	17.53	.1951	.0419	.0058
#3	.3302	.1955	.5309	17.46	.1962	.0388	.0059

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2178	10.77
SDev	.0037	.12
%RSD	1.679	1.077
#1	.2217	10.90
#2	.2144	10.70
#3	.2173	10.70

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Method: ICP1 Sample Name: 7TH SAMP SAMPLE @5 Operator: DRS
Run Time: 09/19/95 14:16:16
Comment: Na202/Zr 95-007941-N1 @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	32.37	.0214	.2213	.0049	.0002	.0278
SDev	.0004	.12	.0059	.0030	.0001	.0000	.0082
%RSD	5.550	.3709	27.81	1.354	3.101	16.18	29.56
#1	.0085	32.23	.0255	.2180	.0051	.0002	.0370
#2	.0077	32.46	.0241	.2237	.0048	.0002	.0212
#3	.0079	32.41	.0145	.2222	.0048	.0001	.0252

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.117	.0015	.0501	.0085	.0396	.0344	.0063
SDev	.004	.0010	.0030	.0005	.0012	.0009	.0003
%RSD	.3415	65.89	6.041	6.072	3.006	2.694	5.500
#1	1.115	.0004	.0534	.0091	.0398	.0355	.0067
#2	1.116	.0016	.0494	.0080	.0407	.0339	.0060
#3	1.122	.0024	.0475	.0085	.0383	.0339	.0063

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.3200	1.506	.0141	.0180	.0815	.0079
SDev	.0002	.0007	.060	.0007	.0010	.0092	.0002
%RSD	9.900	.2263	3.953	5.154	5.331	11.35	1.991
#1	.0023	.3193	1.443	.0149	.0192	.0769	.0077
#2	.0023	.3201	1.562	.0135	.0175	.0754	.0079
#3	.0019	.3207	1.514	.0138	.0175	.0922	.0080

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	2185.	.0438	.1523	1.078	.0723	.1462
SDev	.0006	8.	.0022	.0057	.013	.0025	.0086
%RSD	11.74	.3560	4.938	3.729	1.201	3.507	5.860
#1	.0054	2176.	.0445	.1471	1.071	.0702	.1548
#2	.0056	2190.	.0414	.1513	1.093	.0751	.1376
#3	.0045	2190.	.0456	.1583	1.070	.0717	.1461

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0594	.0399	.0088	.8060	.2135	.0182	.0274
SDev	.0021	.0015	.0045	.0076	.0086	.0001	.0072
%RSD	3.555	3.769	51.27	.9445	4.022	.3905	26.27
#1	.0618	.0390	.0043	.7975	.2193	.0181	.0241
#2	.0581	.0416	.0133	.8122	.2176	.0182	.0224
#3	.0582	.0389	.0089	.8084	.2036	.0182	.0356

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0092	.0141	.0800	.5845	.0174	.0154	.0020
SDev	.0059	.0002	.0025	.0209	.0006	.0062	.0000

%RSD	64.41	1.578	3.085	3.567	3.206	40.00	.6731
#1	.0025	.0139	.0802	.6086	.0177	.0210	.0020
#2	.0136	.0143	.0774	.5734	.0168	.0088	.0020
#3	.0114	.0141	.0823	.5717	.0178	.0165	.0020

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0161	.0878
SDev	.0017	.0049
%RSD	10.37	5.607
#1	.0173	.0875
#2	.0168	.0831
#3	.0142	.0929

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Method: ICP1 Sample Name: 8TH SAMPLE FS @5 Operator: DRS
Run Time: 09/19/95 14:20:05
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1211	45.26	.5591	.5909	.0966	.0181	4.748
SDev	.0013	.60	.0104	.0068	.0014	.0002	.046
%RSD	1.043	1.321	1.859	1.144	1.505	.8961	.9779
#1	.1198	45.95	.5665	.5976	.0983	.0182	4.801
#2	.1223	44.85	.5472	.5841	.0956	.0179	4.725
#3	.1213	44.99	.5636	.5909	.0959	.0180	4.717

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.53	.3431	.0654	.2059	1.677	.2256	.0064
SDev	.07	.0095	.0107	.0009	.017	.0022	.0016
%RSD	.7087	2.784	16.40	.4211	.9993	.9650	25.92
#1	10.61	.3541	.0533	.2064	1.696	.2282	.0046
#2	10.47	.3369	.0693	.2049	1.665	.2244	.0067
#3	10.49	.3382	.0737	.2064	1.670	.2244	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	4.156	24.52	.0247	.3573	5.369	.2003
SDev	.0005	.042	.05	.0037	.0043	.034	.0018
%RSD	15.31	1.009	.2009	14.97	1.214	.6363	.9119
#1	.0028	4.205	24.54	.0206	.3623	5.409	.2023
#2	.0035	4.131	24.47	.0277	.3553	5.353	.1998
#3	.0037	4.134	24.56	.0259	.3544	5.346	.1987

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2002	2122.	.0602	5.272	1.100	5.674	.1347
SDev	.0022	29.	.0090	.056	.018	.019	.0336
%RSD	1.093	1.366	14.90	1.065	1.619	.3377	24.95
#1	.2025	2155.	.0499	5.337	1.114	5.696	.0965
#2	.1981	2103.	.0663	5.240	1.107	5.660	.1594
#3	.1999	2108.	.0644	5.239	1.080	5.667	.1484

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0889	.5580	.4996	14.06	.5399	.1108	.0408
SDev	.0134	.0100	.0057	.15	.0284	.0015	.0077
%RSD	15.10	1.784	1.139	1.088	5.268	1.316	18.95
#1	.0737	.5592	.5040	14.23	.5073	.1125	.0346
#2	.0989	.5474	.5017	13.95	.5595	.1098	.0384
#3	.0942	.5672	.4932	13.99	.5528	.1102	.0495

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3137	.2027	.5766	17.78	.2044	.0242	.0046
SDev	.0052	.0018	.0035	.15	.0004	.0149	.0004

%RSD	1.659	.8908	.6124	.8587	.2047	61.54	9.660
#1	.3113	.2048	.5727	17.96	.2049	.0268	.0041
#2	.3197	.2015	.5776	17.70	.2041	.0082	.0049
#3	.3101	.2018	.5796	17.69	.2043	.0376	.0049

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2201	.9395
SDev	.0017	.0104
%RSD	.7777	1.106
#1	.2184	.9515
#2	.2218	.9329
#3	.2200	.9342

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 14:24:00
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4817	25.32	2.585	2.013	.5265	.0924	24.33
SDev	.0023	.14	.030	.008	.0027	.0007	.15
%RSD	.4837	.5349	1.149	.4012	.5080	.7118	.6327
#1	.4838	25.42	2.597	2.019	.5284	.0930	24.43
#2	.4822	25.36	2.606	2.016	.5275	.0926	24.41
#3	.4792	25.16	2.551	2.004	.5234	.0917	24.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.93	.4926	-.0409	1.032	1.031	1.016	-.0014
SDev	.20	.0026	.0054	.008	.006	.006	.0001
%RSD	.8099	.5170	13.24	.7853	.6053	.6051	10.56
#1	25.11	.4931	-.0362	1.038	1.037	1.016	-.0013
#2	24.97	.4949	-.0468	1.035	1.031	1.022	-.0013
#3	24.71	.4899	-.0398	1.023	1.024	1.010	-.0015
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	20.57	27.10	.0071	2.146	26.59	.5119
SDev	.0000	.15	.16	.0006	.021	.21	.0042
%RSD	.5996	.7156	.5813	8.376	.9881	.7950	.8127
#1	.0016	20.69	26.93	.0065	2.122	26.78	.5152
#2	.0016	20.61	27.14	.0071	2.162	26.64	.5134
#3	.0016	20.40	27.23	.0077	2.154	26.36	.5072
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	Q27.57	-.0004	1.056	.0338	2.574	-.0318
SDev	.008	.11	.0025	.011	.0151	.013	.0056
%RSD	.7812	.3957	670.1	1.062	44.76	.4989	17.53
#1	1.054	27.45	-.0006	1.061	.0504	2.583	-.0276
#2	1.050	Q27.65	.0022	1.064	.0301	2.580	-.0382
#3	1.038	Q27.62	-.0028	1.043	.0208	2.560	-.0298
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Na with Na-Interference PASS DRS 9/19

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0129	2.585	2.431	18.44	.1779	.5327	-.0091
SDev	.0038	.034	.026	.12	.0035	.0030	.0075
%RSD	29.25	1.317	1.084	.6470	1.968	.5571	82.76
#1	-.0118	2.616	2.462	18.53	.1811	.5348	-.0011
#2	-.0097	2.590	2.416	18.49	.1742	.5340	-.0102
#3	-.0170	2.549	2.416	18.31	.1785	.5293	-.0160
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0377	1.026	2.476	-.1341	.9966	.0217	-.0007
SDev	.0156	.007	.023	.0468	.0067	.0077	.0000
%RSD	41.34	.6381	.9246	34.92	.6729	35.61	3.144
#1	.0524	1.031	2.474	-.1341	1.002	.0128	-.0007
#2	.0394	1.028	2.499	-.1809	.9984	.0269	-.0007
#3	.0213	1.018	2.454	-.0872	.9891	.0255	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.015	2.094
SDev	.009	.013
%RSD	.8807	.6366
#1	1.025	2.105
#2	1.012	2.098
#3	1.008	2.080
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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File : ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 14:28:03
Comment: BY-108 POST SPIKE CHECK RUN
Type: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0213	.0710	.0592	.0038	.0008	.0001	.0172
SDev	.0012	.0106	.0005	.0004	.0001	.0000	.0153
%RSD	5.845	14.90	.8560	10.01	18.22	13.86	89.01
#1	.0199	.0603	.0586	.0042	.0007	.0001	-.0002
#2	.0223	.0815	.0596	.0034	.0009	.0001	.0233
#3	.0216	.0714	.0593	.0039	.0009	.0000	.0284
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	.0012	2.056	.0058	.0024	-.0007	2.024
SDev	.0004	.0031	.003	.0010	.0032	.0008	.014
%RSD	3.165	264.8	.1685	16.45	132.0	113.9	.6899
#1	.0119	.0000	2.060	.0047	.0006	-.0014	2.037
#2	.0126	-.0012	2.057	.0063	.0006	.0002	2.009
#3	.0120	.0046	2.053	.0065	.0061	-.0010	2.025
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.009	.0071	.5521	2.019	.0039	.1869	.0013
SDev	.013	.0006	.1662	.010	.0019	.0152	.0001
%RSD	.6639	8.291	30.10	.5030	48.50	8.124	7.439
#1	2.022	.0068	.3786	2.030	.0035	.2041	.0012
#2	1.996	.0077	.7098	2.010	.0060	.1811	.0014
#3	2.011	.0067	.5679	2.018	.0023	.1754	.0013
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	.1129	2.023	.0079	.0016	.0771	Q3.158
SDev	.0011	.0316	.012	.0003	.0117	.0022	.018
%RSD	33.19	27.96	.5810	4.329	712.3	2.864	.5611
#1	.0022	.0812	2.036	.0083	-.0111	.0795	Q3.173
#2	.0032	.1130	2.013	.0076	.0118	.0751	Q3.139
#3	.0043	.1443	2.019	.0079	.0043	.0768	Q3.161
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Analysis Report QC Standard Tue 09-19-95 02:29:23 PM page 1

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.111	.0270	.0185	.1264	Q2.331	.0008	1.848
SDev	.012	.0212	.0018	.0032	.033	.0001	.010
%RSD	.5690	78.38	9.854	2.559	1.427	8.995	.5567
#1	2.123	.0220	.0172	.1227	Q2.369	.0008	1.851
#2	2.099	.0503	.0176	.1282	Q2.310	.0009	1.837
#3	2.112	.0089	.0205	.1283	Q2.313	.0008	1.857
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.207	.0024	.0227	Q8.446	.0002	Q.5255	.9955
SDev	.021	.0005	.0088	.082	.0008	.0042	.0062
%RSD	.4082	19.40	38.67	.9677	314.0	.8073	.6212
#1	5.230	.0019	.0126	Q8.426	-.0006	Q.5270	1.001
#2	5.187	.0029	.0268	Q8.377	.0008	Q.5288	.9891
#3	5.204	.0026	.0287	Q8.536	.0005	Q.5207	.9959
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0013	.0077
SDev	.0005	.0008
%RSD	38.99	10.19
#1	.0009	.0076
#2	.0012	.0069
#3	.0019	.0085
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report Tue 09-19-95 02:33:01 PM page 1

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/19/95 14:31:41
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0678	98.17	.1044	.0132	.0024	.0002	.1321
SDev	.0006	.68	.0176	.0008	.0001	.0000	.0201
%RSD	.8821	.6958	16.90	5.983	3.452	20.17	15.23
#1	.0678	97.45	.1234	.0141	.0025	.0002	.1177
#2	.0672	98.81	.0884	.0125	.0023	.0001	.1551
#3	.0684	98.24	.1014	.0130	.0023	.0002	.1236

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0514	.0151	-.0465	.0138	.0322	-.0266	.0076
SDev	.0004	.0006	.0063	.0006	.0022	.0012	.0006
%RSD	.7878	3.850	13.57	4.642	6.866	4.628	8.588
#1	.0511	.0157	-.0416	.0132	.0347	-.0280	.0080
#2	.0519	.0145	-.0537	.0138	.0306	-.0258	.0068
#3	.0512	.0151	-.0444	.0145	.0313	-.0259	.0079

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	19.50	4424.	.0273	.0110	.6799	.0040
SDev	.0002	.12	33.	.0005	.0012	.0082	.0002
%RSD	5.207	.6046	.7542	1.931	10.90	1.210	6.018
#1	.0048	19.39	4387.	.0279	.0096	.6731	.0038
#2	.0047	19.62	4452.	.0271	.0117	.6890	.0040
#3	.0043	19.49	4433.	.0270	.0117	.6774	.0043

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	.4157	.0529	51.66	.0360	.3161	.0798
SDev	.0011	.0385	.0023	.34	.0253	.0116	.0105
%RSD	15.67	9.259	4.297	.6596	70.19	3.663	13.18
#1	.0063	.4408	.0549	51.31	.0587	.3230	.0918
#2	.0082	.3714	.0504	52.00	.0088	.3225	.0722
#3	.0063	.4349	.0532	51.66	.0406	.3027	.0754

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1408	.1079	.0362	.3042	1.162	.0011	.0818
SDev	.0060	.0151	.0047	.0025	.020	.0000	.0061
%RSD	4.239	14.00	13.06	.8267	1.736	1.511	7.477
#1	.1469	.1072	.0319	.3015	1.185	.0011	.0882
#2	.1406	.0931	.0354	.3065	1.152	.0010	.0760
#3	.1350	.1233	.0412	.3046	1.149	.0011	.0812

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8410	.0075	.2299	44.30	.0150	.0712	.0082
SDev	.0110	.0001	.0054	.20	.0004	.0025	.0001

%RSD	1.313	1.166	2.358	.4443	2.540	3.570	1.078
#1	.8304	.0076	.2313	44.08	.0151	.0735	.0081
#2	.8524	.0075	.2344	44.46	.0154	.0685	.0082
#3	.8403	.0075	.2239	44.36	.0146	.0717	.0082

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0157	9.783
SDev	.0021	.065
%RSD	13.48	.6599
#1	.0168	9.719
#2	.0133	9.848
#3	.0170	9.780

Analysis Report Tue 09-19-95 02:36:57 PM page 1

Method: ICP1 Sample Name: SST-ICS-1 950908I101 Operator: DRS
Run Time: 09/19/95 14:35:38
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0625	94.52	.0855	.0131	.0012	.0001	.1280
SDev	.0004	.58	.0075	.0017	.0001	.0000	.0096
%RSD	.6424	.6105	8.715	13.10	11.43	28.45	7.463
#1	.0622	93.88	.0925	.0133	.0013	.0001	.1369
#2	.0624	94.67	.0864	.0146	.0012	.0001	.1179
#3	.0630	95.00	.0777	.0112	.0011	.0001	.1293

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0409	.0126	-.0467	.0108	.0277	.0148	.0065
SDev	.0005	.0009	.0043	.0009	.0009	.0007	.0006
%RSD	1.195	7.410	9.224	8.400	3.227	4.741	8.439
#1	.0405	.0134	-.0447	.0101	.0287	.0141	.0069
#2	.0415	.0115	-.0438	.0118	.0277	.0155	.0068
#3	.0408	.0128	-.0517	.0104	.0269	.0147	.0059

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	18.47	1.301	.0273	.0159	.6242	.0039
SDev	.0002	.09	.103	.0001	.0011	.0033	.0001
%RSD	5.354	.5135	7.925	.5515	6.933	.5215	1.989
#1	.0039	18.36	1.420	.0274	.0146	.6237	.0038
#2	.0040	18.49	1.254	.0271	.0167	.6276	.0038
#3	.0036	18.55	1.230	.0273	.0163	.6212	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	3855.	.0493	48.89	.0089	.2664	.0687
SDev	.0007	22.	.0008	.24	.0128	.0047	.0076
%RSD	15.55	.5773	1.586	.4982	143.1	1.762	11.12
#1	.0051	3831.	.0484	48.61	.0208	.2699	.0743
#2	.0038	3860.	.0497	49.02	-.0046	.2610	.0718
#3	.0049	3875.	.0498	49.03	.0105	.2682	.0600

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1247	.0863	.0370	.2386	1.006	.0011	.0529
SDev	.0015	.0131	.0106	.0035	.015	.0001	.0064
%RSD	1.213	15.18	28.51	1.482	1.536	5.989	12.08
#1	.1252	.0999	.0401	.2365	1.024	.0011	.0506
#2	.1259	.0853	.0252	.2366	.9972	.0012	.0480
#3	.1230	.0737	.0456	.2427	.9979	.0010	.0601

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7799	.0070	.2284	41.71	.0125	.0565	.0074
SDev	.0113	.0002	.0046	.19	.0003	.0132	.0005

%RSD	1.445	3.205	2.017	.4635	2.530	23.46	7.180
#1	.7720	.0068	.2308	41.49	.0128	.0619	.0072
#2	.7749	.0072	.2231	41.80	.0121	.0661	.0081
#3	.7928	.0070	.2313	41.85	.0125	.0414	.0070

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0107	9.323
SDev	.0020	.047
%RSD	18.97	.5084
#1	.0110	9.270
#2	.0085	9.335
#3	.0125	9.362

Analysis Report Tue 09-19-95 02:40:45 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 14:39:26
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0017	-.0089	.0008	-.0004	.0000	-.0061
SDev	.0001	.0038	.0108	.0004	.0002	.0000	.0109
%RSD	16.93	223.1	121.0	48.70	51.11	95.18	177.8
#1	-.0008	.0007	-.0182	.0009	-.0006	.0000	-.0186
#2	-.0007	.0003	-.0115	.0012	-.0004	.0000	.0011
#3	-.0009	-.0061	.0029	.0004	-.0002	.0001	-.0009

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0068	-.0004	-.0030	.0007	-.0013	.0017	.0002
SDev	.0005	.0009	.0027	.0007	.0023	.0003	.0005
%RSD	7.310	209.9	89.88	92.93	173.3	16.24	262.2
#1	.0063	-.0014	.0001	-.0000	.0013	.0016	-.0002
#2	.0071	.0003	-.0042	.0009	-.0022	.0015	.0001
#3	.0071	-.0002	-.0048	.0012	-.0031	.0020	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0003	-.4417	.0001	.0007	.0046	-.0000
SDev	.0001	.0001	.1575	.0007	.0009	.0033	.0002
%RSD	246.2	37.85	35.67	1022.	125.0	71.50	751.8
#1	-.0001	-.0005	-.6152	.0001	.0010	.0060	-.0001
#2	.0001	-.0002	-.4022	-.0007	-.0003	.0008	-.0001
#3	.0001	-.0003	-.3076	.0008	.0014	.0069	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.2018	-.0019	.0030	-.0146	-.0083	.0131
SDev	.0009	.0152	.0012	.0033	.0074	.0021	.0013
%RSD	42.97	7.537	65.79	112.7	50.66	25.76	10.02
#1	.0031	.2193	-.0008	.0026	-.0061	-.0100	.0120
#2	.0012	.1930	-.0032	-.0002	-.0196	-.0059	.0128
#3	.0021	.1930	-.0017	.0065	-.0180	-.0090	.0145

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0071	.0073	-.0098	-.0024	-.0286	.0003	-.0045
SDev	.0036	.0122	.0062	.0030	.0283	.0000	.0046
%RSD	50.18	168.5	62.83	123.4	98.75	.6406	102.1
#1	-.0093	.0079	-.0029	-.0057	.0017	.0003	-.0025
#2	-.0030	.0192	-.0147	-.0018	-.0334	.0003	-.0098
#3	-.0092	-.0053	-.0119	.0002	-.0542	.0003	-.0013

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0001	.0069	-.0928	-.0007	.0064	-.0005
SDev	.0025	.0001	.0036	.0266	.0002	.0016	.0004

%RSD	355.8	67.84	52.19	28.69	28.67	24.54	78.67
#1	-.0008	-.0001	.0033	-.1226	-.0006	.0080	-.0000
#2	.0018	-.0000	.0069	-.0847	-.0006	.0064	-.0007
#3	-.0031	-.0002	.0105	-.0712	-.0010	.0049	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0005	-.0014
SDev	.0013	.0005
%RSD	256.7	36.54
#1	-.0010	-.0011
#2	.0013	-.0019
#3	.0011	-.0010

DON'T SAY IT -- *Write It!*

Date: September 21, 1995

To: file: ICP-325-405-1

From: JJ Wagner

Subject: Post-Digestion Spike composition used on re-run 9-19-95

(file: 092195.DSI)

A post-digestion spike was prepared from two reagent solutions. Aliquots from each reagent was added to an aliquot of BY108 Core 99 fusion prepared sample and analyzed by ICPAES on 09-20-95 (95D262A). The post-digestion spike and sample aliquot mixture resulted in an equivalent sample dilution of 5 fold.

The post-digestion spike was prepared by thoroughly mixing 2 mL of 2% acid diluent (HNO_3), 1 mL of a quality control working standard "MCVA", 1 mL of "Dilute SST Spike" reagent[1], and 1 mL of sample (sample prepared by either KOH/Ni fusion or Na_2O_2/Zr fusion procedure).

Note[1]: "Dilute SST Spike" (barcode: 950907H901) was prepared from a 20 fold dilution of "SST Spike (8/95) Reagent" (barcode: 950830H901) on 09-07-95.

Following, on the next page, is a list of analytes and concentrations contained in each of the reagents used to prepare the Post-Digestion Spike.

Analyte	"Dilute SST Spike" Barcode: 950907H901	"MCVA" QC reagent Barcode: 9507281901	Combined Total
	µg/mL	µg/mL	µg/mL
Ag	0	0.5	0.5
Al	50	25	75
As	0	2.5	2.5
B	0	2.0	2.0
Ba	0	0.5	0.5
Be	0	0.1	0.1
Bi	0	25	25
Ca	25	25	50
Cd	1.25	0.5	1.75
Co	0	1	1
Cr	7.5	1	8.5
Cu	0	1	1
Fe	0	20	20
K	100	25	125
Li	0	2	2
Mg	0	25	25
Mn	0.5	0.5	1
Mo	0	1	1
Na	81.85	25	106.85
Ni	25	1	26
Pb	25	2.5	27.5
Sb	0	2.5	2.5
Se	0	2.5	2.5
Si	50	20	70
Sr	0	0.5	0.5
Ti	0	1	1
Tl	0	2.5	2.5
U	100	0	100
V	0	1	1
Zn	0	1	1
Zr	2.5	2	4.5

*** RMIS View/Print Document Cover Sheet ***

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Accession #: D196021995

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [WATER LEACH ICP ANALYSIS] (SEC 8 OF 12)

Pages: 275

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 8 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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WATER LEACH DRAINABLE LIQUID, SEGMENT & QUARTER SEGMENT ICP ANALYSIS

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DATE TO QC: 09/15/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - Water Leach

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07932-C1	95-07932-C2	95-07932-C3
95-07935-C1	95-07935-C2	
95-07941-C1	95-07941-C2	95-07941-C3
95-07942-C1	95-07942-C2	
95-07943-C1	95-07943-C2	
95-07944-C1	95-07944-C2	
95-07945-C1	95-07945-C2	
95-07946-C1	95-07946-C2	
95-07947-C1	95-07947-C2	
95-07948-C1	95-07948-C2	

Issues that need to be addressed in narrative if data is used - see highlighted issues on the audit of data quality - ICP.

PNL ACL Quality Representative

9-18-95
Date

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Dilutions **
Core 99 Drainable Liquids

Analyze Date: 09/11/95
File: m091195a

Samp Log#:	Seg 2 95-07932-C1-Sam	95-07932-C1-Sam@5x		Seg 2 95-07932-C2-Sam	95-07932-C2-Sam@5x					95-07932-C3 Batch Blk	**Estimated**	
Run Time:	10:36	10:24		10:44	10:40					10:21		
Dil Fctr:	95.42	477.12		101.48	507.38					98.45		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
	<--------Sample-------->			<--------Duplicate-------->						<-Blank->		
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	Average ug/mL	RPD	20% Flg	ug/mL	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	37,357.9	37,602.4	1%	37,836.4	38,116.7	1%	37,597.1	1%		ND	0.060	0.6000
As	(31.8)	ND		(35.4)	ND		---			ND	0.080	0.8000
B	74.4	(76.8)		56.0	(57.4)		65.2	28%	*	45.8	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	ND	ND		ND	ND		---			ND	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(9.2)	(9.2)		(9.5)	(9.1)		---			ND	0.010	0.1000
Cr	298.1	305.4	2%	304.2	308.4	1%	301.1	2%		ND	0.020	0.2000
Cu	(4.1)	ND		(4.4)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	124.9	129.5	4%	127.5	131.2	3%	126.2	2%		ND	0.020	0.2000
K	2,805.4	(2,945.1)		2,853.2	(2,983.3)		2,829.3	2%		ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			ND	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(15.4)	(14.8)		(15.6)	ND		---			ND	0.030	0.3000
Na	OvrRng	194,172.6		OvrRng	197,638.8		195,905.7	2%		(73.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			ND	0.050	0.5000
Ni	327.3	335.1	2%	334.7	343.3	3%	331.0	2%		ND	0.030	0.3000
P	520.0	503.8	3%	533.0	513.3	4%	526.5	2%		ND	0.100	1.0000
Pb	(45.9)	(72.6)		(52.7)	(78.6)		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(90.6)	ND		(78.4)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	(79.0)	ND		(81.5)	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	(70.6)	ND		(72.7)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	(4.8)	ND		(4.9)	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/950254a

Analyze Date: 09/11/95 | Analyst: D SANDERS | File: m091195a
Project: TWRS | Reviewer: [signature] 9/19/95 | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP File: 95D254a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# / ID	95-07932-C1-Sam	95-07932-C1-Sam05x	95-07932-C2-Sam	95-07932-C2-Sam05x	95-07932-C3 Batch Blk			Post Spk
Sample Vol-mL	0.20	0.20	0.20	0.20	0.20			
Final Vol-mL	19.08	19.08	20.30	20.30	19.69			
Prep Factor	95.42	95.42	101.48	101.48	98.45			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	95.42	477.12	101.48	507.38	98.45			
ICP Run Time	10:36	10:24	10:44	10:40	10:21			
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.513	0.033	0.729	0.086	0.540			
Al	37357.919	37602.389	37836.376	38116.704	2.818			
As	31.772	32.310	35.442	34.238	0.803			
B	74.402	76.787	56.041	57.415	45.829			
Ba	0.075	0.000	0.121	0.041	0.125			
Be	0.317	0.296	0.328	0.315	0.010			
Bi	4.629	4.933	5.158	7.712	1.457			
Ca	-2.047	-16.308	-1.813	-16.074	-3.095			
Cd	0.305	0.568	0.268	0.238	0.231			
Ce	2.396	-0.429	3.842	-3.415	4.282			
Co	9.223	9.156	9.542	9.062	0.364			
Cr	298.080	305.365	304.158	308.359	0.201			
Cu	4.091	2.992	4.393	3.196	0.366			
Dy	0.396	0.105	0.536	-0.086	0.576			
Eu	0.141	0.000	0.200	-0.025	0.149			
Fe	124.857	129.494	127.491	131.228	0.846			
K	2805.395	2945.137	2853.220	2983.319	137.645			
La	0.902	0.644	1.229	0.416	1.174			
Li	1.230	1.412	1.356	0.959	0.488			
Mg	1.174	3.450	2.465	-0.771	2.248			
Mn	0.304	0.210	0.356	0.203	0.028			
Mo	15.441	14.824	15.620	14.404	0.121			
Na	175022.086	194172.552	177604.174	197638.834	73.574			
Nd	2.392	1.594	3.410	0.502	3.847			
Ni	327.263	335.127	334.735	343.292	0.543			
P	520.013	503.774	533.031	513.258	0.689			
Pb	45.862	72.570	52.660	78.572	2.880			
Pd	7.625	-0.344	11.005	-2.121	10.320			
Rh	4.907	1.975	6.410	2.197	4.773			
Sb	-6.369	-5.053	-4.588	-7.570	1.142			
Se	-0.103	-1.918	1.132	-0.873	0.792			
Si	90.579	83.138	78.406	51.159	5.665			
Sn	25.718	17.782	29.330	9.280	13.885			
Sr	0.106	0.167	0.127	0.178	0.057			
Te	-4.091	-6.785	-3.943	-8.762	1.963			
Th	0.302	1.951	-0.050	1.055	0.071			
Ti	0.155	0.091	0.213	-0.005	0.261			
Tl	78.956	80.032	81.477	80.414	0.270			
U	32.653	-7.400	53.061	-8.316	60.089			
V	0.302	0.081	0.406	-0.005	0.433			
W	70.614	68.037	72.690	63.651	0.969			
Y	0.143	0.000	0.192	-0.091	0.241			
Zn	4.760	5.649	4.882	5.865	-0.083			
Zr	0.329	-0.210	0.480	-0.076	0.420			

|<----------Adjusted for process dilution factor----------> | <ICP Dil> < Only >

ICP RAW DATA --- IEC Corrected

File: m091195a
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	95-07932-C1-Sam	95-07932-C1-Sam@5x	95-07932-C2-Sam	95-07932-C2-Sam@5x	95-07932-C3 Batch Blk			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	10:36	10:24	10:44	10:40	10:21			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0054	0.0001	0.0072	0.0002	0.0055			
Al	391.4960	78.8116	372.8622	75.1249	0.0286			
As	0.3330	0.0677	0.3493	0.0675	0.0082			
B	0.7797	0.1609	0.5523	0.1132	0.4655			
Ba	0.0008	0.0000	0.0012	0.0001	0.0013			
Be	0.0033	0.0006	0.0032	0.0006	0.0001			
Bi	0.0485	0.0103	0.0508	0.0152	0.0148			
Ca	-0.0215	-0.0342	-0.0179	-0.0317	-0.0314			
Cd	0.0032	0.0012	0.0026	0.0005	0.0024			
Ce	0.0251	-0.0009	0.0379	-0.0067	0.0435			
Co	0.0966	0.0192	0.0940	0.0179	0.0037			
Cr	3.1238	0.6400	2.9973	0.6078	0.0020			
Cu	0.0429	0.0063	0.0433	0.0063	0.0037			
Dy	0.0041	0.0002	0.0053	-0.0002	0.0059			
Eu	0.0015	0.0000	0.0020	-0.0001	0.0015			
Fe	1.3084	0.2714	1.2564	0.2586	0.0086			
K	29.3994	6.1728	28.1173	5.8799	1.3981			
La	0.0095	0.0014	0.0121	0.0008	0.0119			
Li	0.0129	0.0030	0.0134	0.0019	0.0050			
Mg	0.0123	0.0072	0.0243	-0.0015	0.0228			
Mn	0.0032	0.0004	0.0035	0.0004	0.0003			
Mo	0.1618	0.0311	0.1539	0.0284	0.0012			
Na	1834.1613	406.9701	1750.2173	389.5301	0.7473			
Nd	0.0251	0.0033	0.0336	0.0010	0.0391			
Ni	3.4296	0.7024	3.2987	0.6766	0.0055			
P	5.4495	1.0559	5.2528	1.0116	0.0070			
Pb	0.4806	0.1521	0.5189	0.1549	0.0293			
Pd	0.0799	-0.0007	0.1085	-0.0042	0.1048			
Rh	0.0514	0.0041	0.0632	0.0043	0.0485			
Sb	-0.0667	-0.0106	-0.0452	-0.0149	0.0116			
Se	-0.0011	-0.0040	0.0112	-0.0017	0.0080			
Si	0.9492	0.1742	0.7727	0.1008	0.0575			
Sn	0.2695	0.0373	0.2890	0.0183	0.1410			
Sr	0.0011	0.0004	0.0013	0.0004	0.0006			
Te	-0.0429	-0.0142	-0.0389	-0.0173	0.0199			
Th	0.0032	0.0041	-0.0005	0.0021	0.0007			
Ti	0.0016	0.0002	0.0021	-0.0000	0.0027			
Tl	0.8274	0.1677	0.8029	0.1585	0.0027			
U	0.3422	-0.0155	0.5229	-0.0164	0.6103			
V	0.0032	0.0002	0.0040	-0.0000	0.0044			
W	0.7400	0.1426	0.7163	0.1255	0.0098			
Y	0.0015	0.0000	0.0019	-0.0002	0.0025			
Zn	0.0499	0.0118	0.0481	0.0116	-0.0008			
Zr	0.0035	-0.0004	0.0047	-0.0002	0.0043			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Dilutions **
Core 99 Drainable Liquids

Analyze Date: 09/11/95
File: m091195b

Samp Log#:	Seg 3 95-07935-C1-Sam	95-07935-C1-Sam@5x	Seg 3 95-07935-C2-Sam	95-07935-C2-Sam@5x					95-07932-C3 Batch Blk	**Estimated**	
Run Time:	10:58	10:55	11:07	11:03					10:21		
Dil Fctr:	100.10	500.50	102.20	511.02					101.15		
ICP Dil:	1.00	5.00	1.00	5.00					1.00		
	|<--------Sample-------->|		|<--------Duplicate-------->|			Average		20%	|<-Blank->|	IDL	MDL
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	ug/mL	RPD	Flg	ug/mL	ug/mL	ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	40,270.4	41,663.1	3%	39,166.6	39,258.6	0%	39,718.5	3%		ND	0.060	0.6000
As	(37.9)	ND		(33.7)	ND		---			ND	0.080	0.8000
B	51.7	(53.5)		44.2	(43.9)		47.9	16%	*	47.1	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	ND	ND		ND	ND		---			ND	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(9.3)	(8.7)		(9.0)	(8.8)		---			ND	0.010	0.1000
Cr	318.2	333.2	5%	307.0	313.7	2%	312.6	4%		ND	0.020	0.2000
Cu	10.7	(10.6)		10.5	(10.3)		10.6	2%		ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	101.6	110.6	9%	100.7	105.4		101.2	1%		ND	0.020	0.2000
K	2,961.7	(2,984.4)		2,888.4	(3,030.1)		2,925.0	3%		ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			ND	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(16.1)	(16.2)		(15.4)	ND		---			ND	0.030	0.3000
Na	OvrRng	198,042.5		OvrRng	186,914.0		192,478.2	6%		(75.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			ND	0.050	0.5000
Ni	255.9	269.3	5%	249.5	258.8	4%	252.7	3%		ND	0.030	0.3000
P	533.6	522.5	2%	512.7	517.7	1%	523.1	4%		ND	0.100	1.0000
Pb	(54.6)	(77.3)		(57.7)	(89.5)		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(105.5)	ND		(91.7)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(0.7)	ND		(1.2)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	(81.6)	ND		(79.5)	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	840.9	(834.8)		814.5	(789.4)		827.7	3%		ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	(9.7)	(12.4)		(9.1)	(10.7)		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195b
Reported: 09/15/95

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	95-07935-C1-Sam	95-07935-C1-Sam@5x	95-07935-C2-Sam	95-07935-C2-Sam@5x	95-07932-C3 Batch Blk			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	10:58	10:55	11:07	11:03	10:21			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0070	-0.0036	-0.0067	-0.0014	0.0055			
Al	402.3017	83.2429	383.2198	76.8240	0.0286			
As	0.3790	0.0787	0.3296	0.0665	0.0082			
B	0.5162	0.1070	0.4323	0.0859	0.4655			
Ba	0.0014	-0.0000	0.0014	0.0005	0.0013			
Be	0.0032	0.0006	0.0031	0.0006	0.0001			
Bi	0.0497	0.0036	0.0502	0.0133	0.0148			
Ca	-0.0144	-0.0274	-0.0114	-0.0309	-0.0314			
Cd	0.0009	0.0006	0.0016	0.0019	0.0024			
Ce	0.0362	-0.0101	0.0314	0.0010	0.0435			
Co	0.0932	0.0173	0.0880	0.0173	0.0037			
Cr	3.1784	0.6657	3.0036	0.6138	0.0020			
Cu	0.1074	0.0212	0.1030	0.0202	0.0037			
Dy	0.0048	-0.0015	0.0044	0.0004	0.0059			
Eu	0.0018	-0.0006	0.0017	0.0002	0.0015			
Fe	1.0150	0.2209	0.9854	0.2063	0.0086			
K	29.5873	5.9628	28.2610	5.9296	1.3981			
La	0.0112	-0.0022	0.0109	0.0026	0.0119			
Li	0.0112	0.0000	0.0102	0.0024	0.0050			
Mg	0.0197	0.0038	0.0200	0.0030	0.0228			
Mn	0.0033	0.0005	0.0034	0.0006	0.0003			
Mo	0.1606	0.0323	0.1509	0.0279	0.0012			
Na	1743.9331	395.6892	1669.8220	365.7664	0.7473			
Nd	0.0328	-0.0096	0.0319	0.0067	0.0391			
Ni	2.5566	0.5381	2.4416	0.5064	0.0055			
P	5.3302	1.0439	5.0163	1.0130	0.0070			
Pb	0.5450	0.1544	0.5647	0.1751	0.0293			
Pd	0.1019	-0.0212	0.0864	0.0194	0.1048			
Rh	0.0623	-0.0063	0.0562	0.0108	0.0485			
Sb	-0.0626	-0.0190	-0.0759	-0.0152	0.0116			
Se	-0.0088	-0.0036	-0.0185	-0.0058	0.0080			
Si	1.0544	0.1679	0.8972	0.1102	0.0575			
Sn	0.2417	-0.0005	0.2207	0.0370	0.1410			
Sr	0.0069	0.0042	0.0118	0.0036	0.0006			
Te	-0.0422	-0.0241	-0.0481	-0.0127	0.0199			
Th	0.0046	-0.0016	0.0052	0.0002	0.0007			
Ti	0.0022	-0.0005	0.0027	0.0003	0.0027			
Tl	0.8150	0.1592	0.7780	0.1525	0.0027			
U	0.5572	-0.1431	0.5633	0.0730	0.6103			
V	0.0040	-0.0010	0.0038	0.0009	0.0044			
W	8.4008	1.6679	7.9691	1.5447	0.0098			
Y	0.0021	-0.0004	0.0017	0.0005	0.0025			
Zn	0.0970	0.0247	0.0886	0.0209	-0.0008			
Zr	0.0037	-0.0012	0.0032	0.0005	0.0043			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: TMW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195b
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# / ID	95-07935-C1-Sam	95-07935-C1-Sam@5x	95-07935-C2-Sam	95-07935-C2-Sam@5x	95-07932-C3 Batch Blk			Post Spk
Sample Vol-mL	0.20	0.20	0.20	0.20	0.20			
Final Vol-mL	20.02	20.02	20.44	20.44	20.23			
Prep Factor	100.10	100.10	102.20	102.20	101.15			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	100.10	500.50	102.20	511.02	101.15			
ICP Run Time	10:58	10:55	11:07	11:03	10:21			
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.701	-1.807	-0.685	-0.710	0.554			
Al	40270.402	41663.096	39166.594	39258.626	2.895			
As	37.939	39.389	33.692	33.988	0.825			
B	51.674	53.538	44.185	43.876	47.087			
Ba	0.139	-0.015	0.146	0.245	0.128			
Be	0.323	0.290	0.319	0.291	0.010			
Bi	4.973	1.812	5.130	6.781	1.497			
Ca	-1.442	-13.704	-1.163	-15.791	-3.180			
Cd	0.092	0.305	0.160	0.956	0.238			
Ce	3.625	-5.055	3.213	0.501	4.399			
Co	9.328	8.659	8.995	8.815	0.374			
Cr	318.153	333.203	306.975	313.664	0.206			
Cu	10.749	10.621	10.524	10.307	0.376			
Dy	0.483	-0.731	0.451	0.225	0.592			
Eu	0.184	-0.275	0.171	0.123	0.153			
Fe	101.605	110.565	100.712	105.444	0.869			
K	2961.689	2984.366	2888.388	3030.149	141.424			
La	1.116	-1.121	1.116	1.318	1.206			
Li	1.124	0.000	1.039	1.206	0.502			
Mg	1.971	1.907	2.047	1.518	2.309			
Mn	0.325	0.255	0.351	0.286	0.028			
Mo	16.081	16.181	15.425	14.252	0.124			
Na	174567.703	198042.460	170662.490	186913.966	75.594			
Nd	3.285	-4.820	3.260	3.439	3.953			
Ni	255.911	269.294	249.541	258.806	0.558			
P	533.551	522.457	512.690	517.679	0.708			
Pb	54.559	77.272	57.712	89.500	2.959			
Pd	10.204	-10.606	8.830	9.919	10.604			
Rh	6.237	-3.143	5.739	5.539	4.904			
Sb	-6.270	-9.515	-7.760	-7.742	1.173			
Se	-0.878	-1.817	-1.886	-2.979	0.813			
Si	105.548	84.059	91.698	56.335	5.820			
Sn	24.190	-0.255	22.556	18.923	14.266			
Sr	0.694	2.082	1.210	1.855	0.059			
Te	-4.222	-12.082	-4.917	-6.495	2.017			
Th	0.455	-0.806	0.529	0.123	0.073			
Ti	0.224	-0.245	0.271	0.138	0.268			
Tl	81.579	79.655	79.516	77.941	0.277			
U	55.771	-71.647	57.574	37.299	61.738			
V	0.396	-0.485	0.386	0.445	0.445			
W	840.915	834.769	814.471	789.393	0.995			
Y	0.208	-0.205	0.172	0.235	0.248			
Zn	9.712	12.372	9.058	10.691	-0.085			
Zr	0.368	-0.601	0.330	0.261	0.432			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

ICP RAW DATA --- IEC Corrected

File: m091195c
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7941-	95-7941-	95-7941-	95-7941-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	13:57	13:53	14:06	14:02	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0021	0.0002	0.0029	-0.0011	0.0069			
Al	29.0411	5.6365	28.0440	5.5583	0.0324			
As	0.1301	0.0202	0.1205	0.0180	0.0120			
B	0.0901	0.0156	0.0633	0.0091	0.0089			
Ba	0.0014	0.0003	0.0014	-0.0001	0.0024			
Be	0.0004	0.0000	0.0003	0.0000	0.0002			
Bi	0.0129	-0.0072	0.0080	0.0005	0.0191			
Ca	0.2146	0.0537	0.2469	0.0477	0.7969			
Cd	0.0012	0.0015	0.0011	0.0001	0.0023			
Ce	0.0120	0.0032	0.0193	-0.0020	0.0611			
Co	0.0158	0.0023	0.0162	0.0014	0.0048			
Cr	0.4862	0.0944	0.4757	0.0900	0.0012			
Cu	0.0342	0.0042	0.0471	0.0068	0.0057			
Dy	0.0012	-0.0002	0.0025	-0.0013	0.0074			
Eu	0.0006	-0.0001	0.0009	-0.0001	0.0024			
Fe	0.3076	0.0742	0.2883	0.0648	0.0102			
K	4.7823	0.8830	4.5629	0.6910	1.7989			
La	0.0030	0.0007	0.0047	-0.0013	0.0134			
Li	0.2839	0.0557	0.2924	0.0597	0.0067			
Mg	0.0902	0.0307	0.0967	0.0198	0.2515			
Mn	0.0040	0.0012	0.0039	0.0008	0.0008			
Mo	0.0239	0.0031	0.0227	0.0024	0.0014			
Na	933.2988	186.2239	809.9840	170.6440	0.3893			
Nd	0.0122	0.0045	0.0220	-0.0039	0.0515			
Ni	0.5294	0.1029	0.4833	0.0965	0.0027			
P	227.2165	42.8084	172.1404	32.8478	0.2544			
Pb	0.0282	0.0001	0.0355	-0.0061	0.0296			
Pd	0.0303	0.0049	0.0461	-0.0139	0.1404			
Rh	0.0172	-0.0002	0.0205	-0.0092	0.0610			
Sb	0.0083	-0.0018	-0.0010	-0.0097	0.0134			
Se	0.0221	0.0051	0.0225	-0.0022	0.0232			
Si	1.8094	0.5340	1.5108	0.5030	0.1000			
Sn	0.0660	-0.0048	0.0695	-0.0344	0.1361			
Sr	0.0044	0.0013	0.0046	0.0011	0.0040			
Te	0.0500	0.0036	0.0438	-0.0039	0.0207			
Th	0.0019	-0.0029	-0.0019	0.0001	-0.0054			
Ti	0.0045	0.0011	0.0047	0.0006	0.0034			
Tl	0.0856	0.0131	0.0776	0.0111	0.0126			
U	0.2242	0.0136	0.2980	-0.0703	0.7738			
V	0.3670	0.0705	0.2912	0.0556	0.0055			
W	0.1557	0.0202	0.1489	0.0190	0.0089			
Y	0.0004	-0.0002	0.0008	-0.0005	0.0027			
Zn	0.0044	0.0016	0.0047	0.0009	0.0023			
Zr	0.0009	0.0007	0.0019	-0.0013	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195c

Samp Log#:	Seg 1 95-7941-C1-Sam	95-7941-C1-Sam@5x		Seg 1 95-7941-C2-Sam	95-7941-C2-Sam@5x				95-7941-C3 Batch Blk	**Estimated**	
Run Time:	13:57	13:53		14:06	14:02				13:49		
Dil Fctr:	97.65	488.26		100.53	502.63				99.07		
ICP Dil:	1.00	5.00		1.00	5.00				1.00		
Analyte	Sample ug/g	Sample ug/g	%D	Duplicate ug/g	Duplicate ug/g	%D	Average ug/mL	RPD	20% Flg	Blank ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	2,835.9	2,752.1	3%	2,819.2	2,793.8	1%	2,827.5	1%		ND	0.060	0.6000
As	(12.7)	ND		(12.1)	ND		---			ND	0.080	0.8000
B	(8.8)	ND		(6.4)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(21.0)	(26.2)		(24.8)	ND		---			78.9	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(1.5)	ND		(1.6)	ND		---			ND	0.010	0.1000
Cr	47.5	(46.1)		47.8	(45.3)		47.6	1%		ND	0.020	0.2000
Cu	(3.3)	ND		(4.7)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	30.0	(36.2)		29.0	(32.6)		29.5	4%		ND	0.020	0.2000
K	(467.0)	ND		(458.7)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(27.7)	(27.2)		(29.4)	(30.0)		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(24.9)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	ND	ND		ND	ND		---			ND	0.030	0.3000
Na	91,139.3	90,926.5	0%	81,424.4	85,770.8	5%	86,281.8	11%	*	(38.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.1)	0.050	0.5000
Ni	51.7	(50.2)		48.6	(48.5)		50.1	6%		ND	0.030	0.3000
P	22,188.3	20,901.8	6%	17,304.6	16,510.3	5%	19,746.5	25%	*	(25.2)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(176.7)	(260.7)		(151.9)	(252.8)		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	35.8	(34.4)		29.3	(28.0)		32.6	20%	*	ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: TMW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195c
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# ID	95-7941-C1-Sam	95-7941-C1-Sam@5x	95-7941-C2-Sam	95-7941-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.5139	0.5139	0.4972	0.4972	0.5055			
Final Vol-mL	50.2	50.2	50.0	50.0	50.1			
Prep Factor	97.65	97.65	100.53	100.53	99.07			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.65	488.26	100.53	502.63	99.07			
ICP Run #	13:57	13:53	14:06	14:02	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.204	0.103	0.289	-0.543	0.680			
Al	2835.948	2752.106	2819.151	2793.767	3.211			
As	12.704	9.882	12.114	9.062	1.193			
B	8.798	7.622	6.361	4.569	0.879			
Ba	0.135	0.132	0.143	-0.055	0.242			
Be	0.035	0.020	0.029	0.000	0.017			
Bi	1.264	-3.501	0.803	0.261	1.895			
Ca	20.956	26.234	24.821	23.950	78.941			
Cd	0.112	0.713	0.111	0.065	0.225			
Ce	1.172	1.572	1.942	-1.020	6.054			
Co	1.545	1.143	1.624	0.709	0.477			
Cr	47.481	46.073	47.817	45.257	0.122			
Cu	3.335	2.051	4.739	3.403	0.569			
Dy	0.117	-0.088	0.249	-0.638	0.737			
Eu	0.062	-0.034	0.092	-0.065	0.238			
Fe	30.038	36.244	28.986	32.575	1.007			
K	467.007	431.123	458.695	347.327	178.204			
La	0.296	0.322	0.467	-0.653	1.330			
Li	27.721	27.187	29.398	30.022	0.664			
Mg	8.807	14.970	9.721	9.962	24.916			
Mn	0.391	0.581	0.389	0.387	0.083			
Mo	2.338	1.504	2.279	1.211	0.139			
Na	91139.290	90926.474	81424.407	85770.752	38.568			
Nd	1.195	2.178	2.214	-1.950	5.099			
Ni	51.698	50.223	48.587	48.499	0.265			
P	22188.339	20901.816	17304.577	16510.281	25.198			
Pb	2.757	0.049	3.570	-3.061	2.933			
Pd	2.954	2.368	4.630	-6.961	13.914			
Rh	1.677	-0.103	2.057	-4.619	6.038			
Sb	0.806	-0.874	-0.097	-4.891	1.329			
Se	2.158	2.490	2.263	-1.096	2.296			
Si	176.691	260.723	151.874	252.848	9.908			
Sn	6.448	-2.349	6.984	-17.290	13.484			
Sr	0.429	0.635	0.464	0.563	0.400			
Te	4.883	1.763	4.399	-1.955	2.053			
Th	0.189	-1.396	-0.187	0.045	-0.530			
Ti	0.438	0.557	0.471	0.307	0.332			
Tl	8.358	6.372	7.803	5.594	1.251			
U	21.890	6.640	29.957	-35.350	76.657			
V	35.843	34.423	29.274	27.951	0.548			
W	15.201	9.863	14.966	9.540	0.883			
Y	0.035	-0.107	0.083	-0.236	0.264			
Zn	0.425	0.776	0.469	0.437	0.227			
Zr	0.089	0.356	0.188	-0.638	0.542			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Core 99

Analyze Date: 09/11/95
File: m091195d

Samp Log#:	Seg 2A 95-7942-C1-Sam	95-7942-C1-Sam@5x	Seg 2A 95-7942-C2-Sam	95-7942-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	14:14	14:09	14:21	14:17					13:49	
Dil Fctr:	97.71	488.55	101.33	506.67					99.50	
ICP Dil:	1.00	5.00	1.00	5.00					1.00	**Estimated**
	<--------Sample------->		<--------Duplicate------->			Average		20%	<-Blank->	IDL
Analyte	ug/g	ug/g	%D	ug/g	ug/g	%D	ug/mL	RPD	Flg	ug/g	ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015
Al	6,781.0	6,916.1	2%	6,847.9	6,846.8	0%	6,814.4	1%		ND	0.060
As	(12.7)	ND		(12.8)	ND		---			ND	0.080
B	(6.1)	ND		(9.4)	ND		---			ND	0.020
Ba	ND	ND		ND	ND		---			ND	0.010
Be	ND	ND		ND	ND		---			ND	0.005
Bi	ND	ND		ND	ND		---			ND	0.100
Ca	146.4	549.6		142.4	688.6		144.4	3%		79.3	0.050
Cd	ND	ND		ND	ND		---			ND	0.015
Ce	ND	ND		ND	ND		---			ND	0.100
Co	(2.4)	ND		(2.5)	ND		---			ND	0.010
Cr	64.0	(65.5)		64.6	(65.5)		64.3	1%		ND	0.020
Cu	(1.0)	ND		(1.1)	ND		---			ND	0.010
Dy	ND	ND		ND	ND		---			ND	0.050
Eu	ND	ND		ND	ND		---			ND	0.100
Fe	26.4	(29.2)		26.6	(31.9)		26.5	1%		ND	0.020
K	(722.4)	ND		(734.1)	ND		---			ND	2.000
La	ND	ND		ND	ND		---			ND	0.050
Li	ND	ND		ND	ND		---			ND	0.030
Mg	ND	ND		ND	ND		---			(25.0)	0.100
Mn	ND	ND		ND	ND		---			ND	0.005
Mo	(3.5)	ND		(3.4)	ND		---			ND	0.030
Na	OvrRng	225,347.3		OvrRng	227,957.8		201,191.5	3%		(38.7)	0.080
Nd	ND	ND		ND	ND		---			(5.1)	0.050
Ni	67.6	(69.1)		68.6	(67.6)		68.1	1%		ND	0.030
P	687.8	692.3	1%	744.8	743.7	0%	716.3	8%		(25.3)	0.100
Pb	(8.6)	ND		(8.6)	ND		---			ND	0.060
Pd	ND	ND		ND	ND		---			ND	0.300
Rh	ND	ND		ND	ND		---			ND	0.300
Sb	ND	ND		ND	ND		---			ND	0.050
Se	ND	ND		ND	ND		---			ND	0.100
Si	(105.4)	ND		(108.7)	ND		---			ND	0.500
Sn	ND	ND		ND	ND		---			ND	1.000
Sr	(0.8)	ND		(0.8)	ND		---			ND	0.005
Te	ND	ND		ND	ND		---			ND	0.500
Th	ND	ND		ND	ND		---			ND	0.800
Ti	ND	ND		ND	ND		---			ND	0.005
Tl	ND	ND		ND	ND		---			ND	0.500
U	ND	ND		ND	ND		---			ND	2.000
V	ND	ND		ND	ND		---			ND	0.010
W	ND	ND		ND	ND		---			ND	0.500
Y	ND	ND		ND	ND		---			ND	0.010
Zn	ND	ND		ND	ND		---			ND	0.020
Zr	ND	ND		ND	ND		---			ND	0.010

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195d
Reported: 09/11/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7942-	C1-Sam@5x 95-7942-	C2-Sam 95-7942-	C2-Sam@5x 95-7942-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	14:14	14:09	14:21	14:17	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0062	-0.0011	0.0056	-0.0008	0.0069			
Al	69.3981	14.1563	67.5773	13.5135	0.0324			
As	0.1298	0.0242	0.1266	0.0170	0.0120			
B	0.0621	0.0077	0.0931	0.0136	0.0089			
Ba	0.0023	0.0003	0.0022	0.0004	0.0024			
Be	0.0005	0.0001	0.0005	0.0000	0.0002			
Bi	0.0243	-0.0011	0.0144	-0.0002	0.0191			
Ca	1.4986	1.1250	1.4057	1.3591	0.7969			
Cd	0.0009	-0.0002	0.0003	-0.0011	0.0023			
Ce	0.0438	-0.0041	0.0429	-0.0017	0.0611			
Co	0.0246	0.0030	0.0242	0.0027	0.0048			
Cr	0.6551	0.1341	0.6377	0.1293	0.0012			
Cu	0.0105	-0.0017	0.0108	-0.0012	0.0057			
Dy	0.0062	-0.0007	0.0053	-0.0004	0.0074			
Eu	0.0021	-0.0002	0.0020	-0.0001	0.0024			
Fe	0.2698	0.0598	0.2628	0.0630	0.0102			
K	7.3929	1.1682	7.2448	1.2120	1.7989			
La	0.0113	-0.0016	0.0105	-0.0002	0.0134			
Li	0.0137	0.0009	0.0137	0.0010	0.0067			
Mg	0.0459	0.0108	0.0714	0.0112	0.2515			
Mn	0.0013	0.0000	0.0012	0.0001	0.0008			
Mo	0.0363	0.0050	0.0337	0.0043	0.0014			
Na	2024.0674	461.2527	2019.1659	449.9156	0.3893			
Nd	0.0443	0.0001	0.0415	0.0018	0.0515			
Ni	0.6922	0.1414	0.6768	0.1333	0.0027			
P	7.0396	1.4171	7.3502	1.4677	0.2544			
Pb	0.0883	0.0033	0.0852	0.0088	0.0296			
Pd	0.1101	-0.0113	0.1007	-0.0123	0.1404			
Rh	0.0486	-0.0052	0.0495	-0.0043	0.0610			
Sb	0.0178	-0.0018	0.0141	-0.0089	0.0134			
Se	0.0229	-0.0054	0.0221	-0.0046	0.0232			
Si	1.0783	0.3138	1.0724	0.2555	0.1000			
Sn	0.1882	-0.0206	0.1522	-0.0129	0.1361			
Sr	0.0083	0.0019	0.0078	0.0020	0.0040			
Te	0.0121	-0.0084	0.0187	-0.0102	0.0207			
Th	-0.0060	-0.0046	-0.0019	-0.0034	-0.0054			
Ti	0.0027	-0.0002	0.0025	0.0000	0.0034			
Tl	0.1727	0.0316	0.1649	0.0279	0.0126			
U	0.6735	-0.0726	0.5620	-0.0290	0.7738			
V	0.0070	0.0002	0.0072	0.0005	0.0055			
W	0.1681	0.0220	0.1647	0.0199	0.0089			
Y	0.0020	-0.0006	0.0020	-0.0004	0.0027			
Zn	0.0017	0.0167	0.0023	0.0200	0.0023			
Zr	0.0048	-0.0011	0.0038	-0.0006	0.0055			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195d
Reported: 09/11/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7942-	95-7942-	95-7942-	95-7942-	95-7941-C3			
ID	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample Wt-g	0.5152	0.5152	0.5051	0.5051	0.5102			
Final Vol-mL	50.3	50.3	51.2	51.2	50.8			
Prep Factor	97.71	97.71	101.33	101.33	99.50			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.71	488.55	101.33	506.67	99.50			
ICP Run #	14:14	14:09	14:21	14:17	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.603	-0.513	0.569	-0.421	0.683			
Al	6780.955	6916.125	6847.851	6846.843	3.225			
As	12.688	11.799	12.833	8.623	1.198			
B	6.066	3.777	9.436	6.911	0.883			
Ba	0.227	0.156	0.223	0.177	0.243			
Be	0.046	0.024	0.047	0.005	0.017			
Bi	2.376	-0.513	1.455	-0.096	1.904			
Ca	146.427	549.624	142.444	688.612	79.291			
Cd	0.085	-0.073	0.030	-0.573	0.226			
Ce	4.276	-1.988	4.344	-0.871	6.081			
Co	2.401	1.451	2.453	1.388	0.479			
Cr	64.008	65.491	64.615	65.512	0.122			
Cu	1.025	-0.831	1.092	-0.628	0.571			
Dy	0.602	-0.357	0.536	-0.218	0.740			
Eu	0.200	-0.098	0.202	-0.025	0.239			
Fe	26.359	29.196	26.630	31.910	1.011			
K	722.364	570.710	734.140	614.097	178.993			
La	1.100	-0.801	1.065	-0.081	1.336			
Li	1.340	0.445	1.390	0.512	0.667			
Mg	4.485	5.281	7.234	5.649	25.026			
Mn	0.130	0.010	0.121	0.030	0.084			
Mo	3.549	2.443	3.416	2.179	0.139			
Na	197773.619	225347.256	204609.343	227957.821	38.739			
Nd	4.331	0.039	4.208	0.927	5.121			
Ni	67.636	69.062	68.579	67.554	0.267			
P	687.844	692.321	744.822	743.652	25.310			
Pb	8.623	1.627	8.629	4.438	2.946			
Pd	10.755	-5.496	10.207	-6.232	13.975			
Rh	4.752	-2.521	5.020	-2.179	6.065			
Sb	1.740	-0.855	1.428	-4.484	1.335			
Se	2.236	-2.614	2.241	-2.321	2.307			
Si	105.361	153.323	108.666	129.449	9.951			
Sn	18.393	-10.084	15.428	-6.541	13.544			
Sr	0.808	0.938	0.792	1.013	0.402			
Te	1.186	-4.084	1.891	-5.183	2.062			
Th	-0.582	-2.257	-0.194	-1.713	-0.532			
Ti	0.260	-0.078	0.248	0.005	0.333			
Tl	16.872	15.458	16.710	14.116	1.257			
U	65.811	-35.479	56.953	-14.678	76.996			
V	0.681	0.088	0.733	0.243	0.550			
W	16.424	10.734	16.691	10.067	0.887			
Y	0.192	-0.313	0.207	-0.187	0.265			
Zn	0.168	8.144	0.231	10.128	0.228			
Zr	0.472	-0.552	0.381	-0.319	0.544			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Core 99

Analyze Date: 09/11/95
File: m091195e

Samp Log#:	Seg 2D 95-7943-C1-Sam	95-7943-C1-Sam@5x		Seg 2D 95-7943-C2-Sam	95-7943-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	14:45	14:41		14:53	14:50					13:49	
Dil Fctr:	92.83	464.14		82.51	412.53					87.48	
ICP Dil:	1.00	5.00		1.00	5.00					1.00	**Estimated**
Analyte	<--Sample--> ug/g	ug/g	%D	<--Duplicate--> ug/g	ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	9,171.6	9,165.6	0%	8,772.3	8,599.1	2%	8,972.0	4%		ND	0.060	0.6000
As	(17.1)	ND		(16.1)	ND		---			ND	0.080	0.8000
B	(11.7)	ND		(5.9)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(5.2)	694.8		(4.3)	640.5		---			69.7	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(3.7)	ND		(3.6)	ND		---			ND	0.010	0.1000
Cr	107.8	109.3	1%	104.7	105.6	1%	106.2	3%		ND	0.020	0.2000
Cu	(2.9)	ND		(3.9)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	47.9	(51.3)		46.0	(48.1)		46.9	4%		ND	0.020	0.2000
K	(1,021.2)	(967.3)		(971.0)	(1,013.6)		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(19.1)	(19.7)		(5.3)	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(22.0)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.6)	ND		(5.4)	ND		---			ND	0.030	0.3000
Na	OvrRng	146,848.1		OvrRng	145,525.2		146,186.6	1%		(34.1)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.5)	0.050	0.5000
Ni	112.2	(111.9)		110.7	(109.0)		111.4	1%		ND	0.030	0.3000
P	4,535.2	4,411.8	3%	4,424.6	4,276.1	3%	4,479.9	2%		(22.3)	0.100	1.0000
Pb	(5.6)	ND		(5.8)	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(103.1)	ND		(80.0)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(4.4)	ND		(4.0)	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	(11.2)		ND	(10.1)		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195e
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7943-	95-7943-	95-7943-	95-7943-	95-7941-C3			
ID	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample Wt-g	0.5738	0.5738	0.6160	0.6160	0.5949			
Final Vol-mL	53.3	53.3	50.8	50.8	52.0			
Prep Factor	92.83	92.83	82.51	82.51	87.48			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	92.83	464.14	82.51	412.53	87.48			
ICP Run #	14:45	14:41	14:53	14:50	13:49			
	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Analyte ↓↓								
Ag	0.889	0.515	0.793	1.056	0.600			
Al	9171.635	9165.603	8772.311	8599.116	2.835			
As	17.097	14.625	16.081	13.717	1.053			
B	11.745	9.023	5.893	3.144	0.776			
Ba	0.090	0.070	0.097	0.161	0.213			
Be	0.026	0.000	0.036	0.041	0.015			
Bi	2.314	2.678	2.067	1.374	1.674			
Ca	5.175	694.763	4.263	640.540	69.713			
Cd	0.051	-0.246	0.000	0.037	0.199			
Ce	4.194	2.516	3.626	4.591	5.346			
Co	3.709	3.189	3.573	3.436	0.421			
Cr	107.768	109.267	104.695	105.609	0.108			
Cu	2.915	1.573	3.892	4.055	0.502			
Dy	0.521	0.060	0.454	0.532	0.651			
Eu	0.184	0.065	0.165	0.252	0.210			
Fe	47.879	51.310	45.977	48.064	0.889			
K	1021.245	967.281	971.050	1013.582	157.371			
La	0.938	0.580	0.921	1.283	1.175			
Li	19.130	19.698	5.252	5.610	0.586			
Mg	2.388	12.949	2.728	15.565	22.003			
Mn	0.152	0.204	0.127	0.231	0.073			
Mo	5.588	4.089	5.381	4.765	0.122			
Na	135809.472	146848.104	135675.417	145525.165	34.059			
Nd	3.486	1.634	3.129	4.674	4.503			
Ni	112.203	111.941	110.677	108.950	0.234			
P	4535.223	4411.760	4424.597	4276.064	22.252			
Pb	5.597	6.331	5.780	12.005	2.590			
Pd	9.290	2.274	8.322	10.111	12.287			
Rh	4.821	2.084	4.210	4.860	5.332			
Sb	1.165	-1.128	1.365	2.021	1.174			
Se	3.727	-1.132	1.804	5.297	2.028			
Si	103.057	141.395	80.015	124.519	8.749			
Sn	17.011	5.115	15.837	10.903	11.907			
Sr	0.111	0.835	0.093	0.784	0.353			
Te	2.011	-1.467	1.808	0.425	1.813			
Th	0.140	-2.687	-0.237	1.134	-0.468			
Ti	0.213	0.060	0.195	0.297	0.293			
Tl	21.524	19.675	20.199	21.163	1.105			
U	56.453	18.821	47.294	54.949	67.695			
V	4.441	4.298	3.967	4.006	0.484			
W	30.617	29.036	29.178	26.720	0.779			
Y	0.185	-0.102	0.166	0.008	0.233			
Zn	0.316	11.246	0.295	10.111	0.200			
Zr	0.335	0.617	0.334	0.149	0.479			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

ICP RAW DATA --- IEC Corrected

File: m091195e
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7943-	C1-Sam@5x 95-7943-	C2-Sam 95-7943-	C2-Sam@5x 95-7943-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	14:45	14:41	14:53	14:50	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0096	0.0011	0.0096	0.0026	0.0069			
Al	98.8030	19.7476	106.3225	20.8447	0.0324			
As	0.1842	0.0315	0.1949	0.0333	0.0120			
B	0.1265	0.0194	0.0714	0.0076	0.0089			
Ba	0.0010	0.0002	0.0012	0.0004	0.0024			
Be	0.0003	0.0000	0.0004	0.0001	0.0002			
Bi	0.0249	0.0058	0.0251	0.0033	0.0191			
Ca	0.0558	1.4969	0.0517	1.5527	0.7969			
Cd	0.0006	-0.0005	0.0000	0.0001	0.0023			
Ce	0.0452	0.0054	0.0440	0.0111	0.0611			
Co	0.0400	0.0069	0.0433	0.0083	0.0048			
Cr	1.1609	0.2354	1.2689	0.2560	0.0012			
Cu	0.0314	0.0034	0.0472	0.0098	0.0057			
Dy	0.0056	0.0001	0.0055	0.0013	0.0074			
Eu	0.0020	0.0001	0.0020	0.0006	0.0024			
Fe	0.5158	0.1105	0.5573	0.1165	0.0102			
K	11.0015	2.0840	11.7693	2.4570	1.7989			
La	0.0101	0.0013	0.0112	0.0031	0.0134			
Li	0.2061	0.0424	0.0637	0.0136	0.0067			
Mg	0.0257	0.0279	0.0331	0.0377	0.2515			
Mn	0.0016	0.0004	0.0015	0.0006	0.0008			
Mo	0.0602	0.0088	0.0652	0.0116	0.0014			
Na	1463.0311	316.3893	1644.4178	352.7598	0.3893			
Nd	0.0376	0.0035	0.0379	0.0113	0.0515			
Ni	1.2087	0.2412	1.3414	0.2641	0.0027			
P	48.8565	9.5053	53.6272	10.3654	0.2544			
Pb	0.0603	0.0136	0.0701	0.0291	0.0296			
Pd	0.1001	0.0049	0.1009	0.0245	0.1404			
Rh	0.0519	0.0045	0.0510	0.0118	0.0610			
Sb	0.0126	-0.0024	0.0165	0.0049	0.0134			
Se	0.0402	-0.0024	0.0219	0.0128	0.0232			
Si	1.1102	0.3046	0.9698	0.3018	0.1000			
Sn	0.1832	0.0110	0.1920	0.0264	0.1361			
Sr	0.0012	0.0018	0.0011	0.0019	0.0040			
Te	0.0217	-0.0032	0.0219	0.0010	0.0207			
Th	0.0015	-0.0058	-0.0029	0.0028	-0.0054			
Ti	0.0023	0.0001	0.0024	0.0007	0.0034			
Tl	0.2319	0.0424	0.2448	0.0513	0.0126			
U	0.6081	0.0405	0.5732	0.1332	0.7738			
V	0.0478	0.0093	0.0481	0.0097	0.0055			
W	0.3298	0.0626	0.3536	0.0648	0.0089			
Y	0.0020	-0.0002	0.0020	0.0000	0.0027			
Zn	0.0034	0.0242	0.0036	0.0245	0.0023			
Zr	0.0036	0.0013	0.0041	0.0004	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195f

Analyte	Seg 3A 95-7944-C1-Sam ug/g	95-7944-C1-Sam@5x ug/g	%D	Seg 3A 95-7944-C2-Sam ug/g	95-7944-C2-Sam@5x ug/g	%D	Average ug/mL	RPD	20% Flg	95-7941-C3 Batch Blk ug/g	**Estimated** IDL ug/mL	MDL ug/mL
Samp Log#:	95-7944-C1-Sam	95-7944-C1-Sam@5x		95-7944-C2-Sam	95-7944-C2-Sam@5x							
Run Time:	15:01	14:57		15:09	15:05					13:49		
Dil Fctr:	97.83	489.14		106.43	532.16					101.95		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	10,292.0	10,595.4	3%	9,054.9	9,042.8	0%	9,673.4	13%	*	ND	0.060	0.6000
As	(34.3)	ND		(28.8)	ND		---			ND	0.080	0.8000
B	(8.7)	ND		(14.4)	(11.6)		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	105.4	249.9		65.6	(233.6)		85.5	47%	*	81.2	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(3.1)	ND		(3.0)	ND		---			ND	0.010	0.1000
Cr	104.6	108.8	4%	91.6	(93.4)		98.1	13%	*	ND	0.020	0.2000
Cu	(2.7)	ND		(3.1)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	43.2	(46.9)		36.5	(41.3)		39.9	17%	*	ND	0.020	0.2000
K	(868.6)	ND		(854.0)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(5.6)	ND		(5.2)	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(25.6)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.5)	ND		(5.1)	ND		---			ND	0.030	0.3000
Na	OvrRng	194,164.7		OvrRng	194,214.8		194,189.7	0%		(39.7)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.2)	0.050	0.5000
Ni	78.3	(79.7)		69.5	(69.6)		73.9	12%	*	ND	0.030	0.3000
P	2,547.2	2,483.6	2%	3,154.1	3,036.8	4%	2,850.7	21%	*	(25.9)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(67.5)	ND		(69.4)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.5)	ND		(0.9)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(2.8)	ND		(3.7)	ND		---			ND	0.010	0.1000
W	(263.8)	(256.4)		(231.0)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/950254a

ICP RAW DATA --- IEC Corrected

File: m091195f
Reported: 09/15/09
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7944-	C1-Sam@5x 95-7944-	C2-Sam 95-7944-	C2-Sam@5x 95-7944-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:01	14:57	15:09	15:05	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0026	-0.0008	0.0010	0.0012	0.0069			
Al	105.2056	21.6614	85.0769	16.9926	0.0324			
As	0.3508	0.0682	0.2702	0.0538	0.0120			
B	0.0889	0.0122	0.1350	0.0217	0.0089			
Ba	0.0006	0.0002	0.0011	0.0005	0.0024			
Be	0.0001	-0.0001	0.0001	-0.0000	0.0002			
Bi	0.0180	0.0043	0.0173	0.0076	0.0191			
Ca	1.0779	0.5110	0.6168	0.4390	0.7969			
Cd	-0.0009	0.0004	-0.0011	-0.0001	0.0023			
Ce	0.0087	0.0037	0.0263	0.0108	0.0611			
Co	0.0318	0.0066	0.0280	0.0063	0.0048			
Cr	1.0694	0.2224	0.8603	0.1754	0.0012			
Cu	0.0278	0.0035	0.0295	0.0031	0.0057			
Dy	0.0011	0.0003	0.0037	0.0017	0.0074			
Eu	0.0007	0.0002	0.0015	0.0007	0.0024			
Fe	0.4411	0.0959	0.3434	0.0776	0.0102			
K	8.8791	1.9140	8.0236	1.8701	1.7989			
La	0.0032	0.0011	0.0074	0.0033	0.0134			
Li	0.0571	0.0120	0.0489	0.0109	0.0067			
Mg	0.0936	0.0308	0.0446	0.0360	0.2515			
Mn	0.0011	0.0003	0.0009	0.0004	0.0008			
Mo	0.0564	0.0108	0.0479	0.0098	0.0014			
Na	1777.1881	396.9537	1685.9541	364.9560	0.3893			
Nd	0.0070	0.0051	0.0257	0.0124	0.0515			
Ni	0.8000	0.1629	0.6529	0.1308	0.0027			
P	26.0378	5.0776	29.6348	5.7066	0.2544			
Pb	0.0247	-0.0003	0.0492	0.0142	0.0296			
Pd	0.0134	0.0081	0.0629	0.0331	0.1404			
Rh	0.0073	0.0020	0.0301	0.0149	0.0610			
Sb	0.0024	-0.0028	0.0074	-0.0000	0.0134			
Se	0.0558	0.0131	0.0428	0.0125	0.0232			
Si	0.6896	0.2294	0.6523	0.2137	0.1000			
Sn	0.0469	0.0176	0.1091	0.0317	0.1361			
Sr	0.0152	0.0042	0.0086	0.0042	0.0040			
Te	0.0007	-0.0019	0.0152	0.0084	0.0207			
Th	-0.0037	-0.0022	-0.0051	0.0015	-0.0054			
Ti	0.0002	-0.0000	0.0016	0.0009	0.0034			
Tl	0.2954	0.0572	0.2344	0.0575	0.0126			
U	0.3767	0.1116	0.5651	0.2421	0.7738			
V	0.0282	0.0057	0.0346	0.0079	0.0055			
W	2.6970	0.5243	2.1703	0.4160	0.0089			
Y	0.0000	-0.0003	0.0011	0.0003	0.0027			
Zn	0.0058	0.0095	0.0023	0.0061	0.0023			
Zr	0.0002	0.0003	0.0024	0.0010	0.0055			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195f
Reported: 09/15/09
ICP File: 950254a
Data Page 2 of 2

Sample Log# / ID	95-7944-C1-Sam	95-7944-C1-Sam@5x	95-7944-C2-Sam	95-7944-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.5242	0.5242	0.4823	0.4823	0.5033			
Final Vol-mL	51.3	51.3	51.3	51.3	51.3			
Prep Factor	97.83	97.83	106.43	106.43	101.95			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.83	489.14	106.43	532.16	101.95			
ICP Run #	15:01	14:57	15:09	15:05	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.254	-0.367	0.107	0.612	0.699			
Al	10291.989	10595.392	9054.897	9042.789	3.304			
As	34.316	33.374	28.756	28.614	1.227			
B	8.695	5.967	14.373	11.559	0.904			
Ba	0.061	0.113	0.116	0.287	0.249			
Be	0.005	-0.024	0.010	-0.011	0.017			
Bi	1.763	2.089	1.837	4.066	1.950			
Ca	105.446	249.924	65.649	233.597	81.240			
Cd	-0.084	0.186	-0.120	-0.032	0.231			
Ce	0.847	1.820	2.801	5.721	6.230			
Co	3.112	3.228	2.980	3.326	0.490			
Cr	104.620	108.784	91.561	93.362	0.125			
Cu	2.721	1.697	3.140	1.644	0.585			
Dy	0.108	0.147	0.395	0.889	0.759			
Eu	0.064	0.083	0.154	0.394	0.245			
Fe	43.157	46.923	36.546	41.290	1.036			
K	868.620	936.218	853.962	995.218	183.394			
La	0.311	0.553	0.783	1.745	1.369			
Li	5.583	5.860	5.205	5.822	0.683			
Mg	9.160	15.041	4.750	19.158	25.642			
Mn	0.108	0.142	0.100	0.218	0.086			
Mo	5.519	5.288	5.093	5.194	0.143			
Na	173857.614	194164.655	179439.279	194214.793	39.691			
Nd	0.684	2.509	2.730	6.572	5.247			
Ni	78.261	79.671	69.486	69.596	0.273			
P	2547.208	2483.641	3154.092	3036.848	25.932			
Pb	2.417	-0.161	5.232	7.535	3.019			
Pd	1.310	3.938	6.696	17.636	14.319			
Rh	0.711	0.954	3.200	7.903	6.214			
Sb	0.231	-1.350	0.784	-0.005	1.368			
Se	5.461	6.388	4.554	6.647	2.363			
Si	67.464	112.228	69.426	113.712	10.196			
Sn	4.587	8.628	11.610	16.853	13.876			
Sr	1.484	2.040	0.910	2.214	0.412			
Te	0.064	-0.929	1.615	4.465	2.112			
Th	-0.364	-1.061	-0.545	0.814	-0.545			
Ti	0.019	-0.020	0.167	0.500	0.342			
Tl	28.897	27.954	24.950	30.573	1.288			
U	36.856	54.578	60.145	128.841	78.889			
V	2.760	2.764	3.683	4.215	0.564			
W	263.837	256.435	230.987	221.378	0.908			
Y	0.003	-0.147	0.114	0.181	0.271			
Zn	0.570	4.637	0.243	3.251	0.233			
Zr	0.023	0.152	0.253	0.527	0.558			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Analyze Date: 09/11/95
File: m091195g

Core 99

Samp Log#:	Seg 4A 95-7945-C1-Sam	95-7945-C1-Sam@5x		Seg 4A 95-7945-C2-Sam	95-7945-C2-Sam@5x					95-7941-C3 Batch Blk	**Estimated**	
Run Time:	15:28	15:25		15:36	15:32					13:49		
Dil Fctr:	105.43	527.16		73.18	365.90					86.63		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Analyte	<--Sample--> ug/g	ug/g	%D	<--Duplicate--> ug/g	ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	8,008.7	8,012.1	0%	5,946.4	6,199.2	4%	6,977.5	30%	*	ND	0.060	0.6000
As	(21.4)	ND		(22.1)	ND		---			ND	0.080	0.8000
B	(9.5)	ND		(11.4)	(9.0)		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(43.5)	(80.1)		(27.4)	(67.0)		---			69.0	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(8.1)	(6.6)		(6.1)	(5.2)		---			ND	0.010	0.1000
Cr	69.4	(67.7)		51.4	(52.6)		60.4	30%	*	ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	407.3	412.2	1%	284.3	297.9	5%	345.8	36%	*	ND	0.020	0.2000
K	(1,052.4)	ND		(782.6)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(21.8)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.0)	ND		(3.8)	ND		---			ND	0.030	0.3000
Na	OvrRng	152,083.3		OvrRng	150,451.7		151,267.5	1%		(33.7)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.5)	0.050	0.5000
Ni	581.9	586.4	1%	355.4	369.3	4%	468.6	48%	*	ND	0.030	0.3000
P	6,956.6	6,664.3	4%	4,065.3	3,999.2	2%	5,510.9	52%	*	(22.0)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(2.9)	(3.5)		(0.7)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(1.3)	ND		(0.8)	ND		---			ND	0.010	0.1000
W	(62.1)	ND		(46.7)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195g
Reported: 09/11/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7945-	95-7945-	95-7945-	95-7945-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:28	15:25	15:36	15:32	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0000	-0.0030	-0.0007	-0.0037	0.0069			
Al	75.9615	15.1987	81.2569	16.9422	0.0324			
As	0.2026	0.0288	0.3015	0.0536	0.0120			
B	0.0903	0.0096	0.1555	0.0245	0.0089			
Ba	0.0004	-0.0006	0.0003	-0.0006	0.0024			
Be	0.0000	-0.0001	0.0000	-0.0001	0.0002			
Bi	0.0099	-0.0049	0.0209	-0.0085	0.0191			
Ca	0.4126	0.1519	0.3748	0.1832	0.7969			
Cd	-0.0003	-0.0010	-0.0014	-0.0006	0.0023			
Ce	0.0034	-0.0035	0.0065	-0.0193	0.0611			
Co	0.0771	0.0126	0.0838	0.0142	0.0048			
Cr	0.6583	0.1284	0.7028	0.1438	0.0012			
Cu	-0.0010	-0.0057	-0.0027	-0.0072	0.0057			
Dy	0.0007	-0.0027	0.0000	-0.0030	0.0074			
Eu	0.0005	-0.0008	0.0005	-0.0009	0.0024			
Fe	3.8636	0.7820	3.8845	0.8141	0.0102			
K	9.9815	1.5082	10.6944	1.5959	1.7989			
La	0.0017	-0.0041	0.0011	-0.0053	0.0134			
Li	0.0018	-0.0014	0.0033	-0.0022	0.0067			
Mg	0.0680	-0.0027	0.0569	-0.0074	0.2515			
Mn	0.0010	-0.0001	0.0008	-0.0002	0.0008			
Mo	0.0471	0.0061	0.0520	0.0069	0.0014			
Na	1332.0570	288.4978	1815.8955	411.1821	0.3893			
Nd	0.0057	-0.0161	0.0024	-0.0178	0.0515			
Ni	5.5194	1.1124	4.8562	1.0092	0.0027			
P	65.9819	12.6421	55.5526	10.9297	0.2544			
Pb	0.0012	-0.0176	0.0110	-0.0230	0.0296			
Pd	0.0066	-0.0533	-0.0069	-0.0622	0.1404			
Rh	0.0186	-0.0210	0.0157	-0.0245	0.0610			
Sb	0.0003	-0.0222	0.0074	-0.0071	0.0134			
Se	0.0425	-0.0050	0.0538	0.0087	0.0232			
Si	0.3546	0.1266	0.3779	0.1375	0.1000			
Sn	0.0127	-0.1006	0.0195	-0.1176	0.1361			
Sr	0.0271	0.0067	0.0094	0.0022	0.0040			
Te	0.0109	-0.0137	0.0084	-0.0169	0.0207			
Th	0.0026	-0.0033	0.0052	-0.0042	-0.0054			
Ti	0.0003	-0.0011	0.0002	-0.0012	0.0034			
Tl	0.1995	0.0383	0.2455	0.0425	0.0126			
U	0.2979	-0.2280	0.5859	-0.1433	0.7738			
V	0.0124	0.0004	0.0106	-0.0002	0.0055			
W	0.5893	0.1004	0.6381	0.1130	0.0089			
Y	-0.0001	-0.0014	-0.0003	-0.0019	0.0027			
Zn	-0.0011	0.0007	0.0006	0.0019	0.0023			
Zr	-0.0002	-0.0013	-0.0010	-0.0024	0.0055			

LAD 12-19-95

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thu 9/9/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195g
Reported: 09/11/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7945-C1-Sam	95-7945-C1-Sam@5x	95-7945-C2-Sam	95-7945-C2-Sam@5x	95-7941-C3 Batch Blk			
ID								Post Spk
Sample Wt-g	0.4889	0.4889	0.6835	0.6835	0.5862			
Final Vol-mL	51.5	51.5	50.0	50.0	50.8			
Prep Factor	105.43	105.43	73.18	73.18	86.63			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	105.43	527.16	73.18	365.90	86.63			
ICP Run #	15:28	15:25	15:36	15:32	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.004	-1.560	-0.050	-1.347	0.594			
Al	8008.710	8012.078	5946.385	6199.163	2.808			
As	21.359	15.177	22.064	19.623	1.043			
B	9.523	5.082	11.377	8.961	0.768			
Ba	0.044	-0.332	0.019	-0.216	0.211			
Be	0.002	-0.053	0.000	-0.044	0.015			
Bi	1.048	-2.583	1.531	-3.121	1.657			
Ca	43.500	80.080	27.425	67.033	69.031			
Cd	-0.035	-0.527	-0.102	-0.205	0.197			
Ce	0.355	-1.845	0.475	-7.066	5.294			
Co	8.125	6.642	6.132	5.188	0.417			
Cr	69.404	67.708	51.433	52.613	0.107			
Cu	-0.100	-2.984	-0.201	-2.631	0.497			
Dy	0.074	-1.439	0.002	-1.090	0.645			
Eu	0.047	-0.416	0.039	-0.344	0.208			
Fe	407.341	412.231	284.267	297.865	0.880			
K	1052.357	795.046	782.619	583.952	155.833			
La	0.180	-2.146	0.078	-1.954	1.163			
Li	0.189	-0.738	0.241	-0.809	0.580			
Mg	7.174	-1.408	4.161	-2.704	21.788			
Mn	0.104	-0.042	0.061	-0.059	0.073			
Mo	4.963	3.210	3.805	2.517	0.121			
Na	140440.331	152083.322	132887.419	150451.726	33.726			
Nd	0.601	-8.498	0.173	-6.509	4.459			
Ni	581.915	586.429	355.379	369.267	0.232			
P	6956.554	6664.347	4065.345	3999.183	22.035			
Pb	0.121	-9.273	0.804	-8.405	2.565			
Pd	0.694	-28.113	-0.501	-22.759	12.167			
Rh	1.959	-11.060	1.146	-8.965	5.280			
Sb	0.031	-11.687	0.544	-2.580	1.163			
Se	4.484	-2.631	3.934	3.165	2.008			
Si	37.383	66.727	27.651	50.300	8.664			
Sn	1.334	-53.042	1.425	-43.045	11.791			
Sr	2.860	3.532	0.687	0.805	0.350			
Te	1.146	-7.217	0.612	-6.198	1.795			
Th	0.276	-1.719	0.377	-1.529	-0.463			
Ti	0.030	-0.559	0.012	-0.428	0.290			
Tl	21.030	20.206	17.965	15.551	1.094			
U	31.405	-120.170	42.876	-52.423	67.034			
V	1.302	0.200	0.774	-0.077	0.479			
W	62.131	52.932	46.695	41.361	0.772			
Y	-0.008	-0.749	-0.024	-0.684	0.230			
Zn	-0.113	0.343	0.041	0.695	0.198			
Zr	-0.017	-0.685	-0.075	-0.878	0.474			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> Only|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195h

Samp Log#:	Seg 4B 95-7946-C1-Sam	95-7946-C1-Sam@5x		Seg 4B 95-7946-C2-Sam	95-7946-C2-Sam@5x					95-7941-C3 Batch Blk		
Run Time:	15:44	15:40		15:51	15:47					13:49		
Dil Fctr:	125.46	627.31		90.95	454.76					105.28		
ICP Dil:	1.00	5.00		1.00	5.00					1.00	**Estimated**	
Analyte	Sample ug/g	Sample ug/g	%D	Duplicate ug/g	Duplicate ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	6,580.1	6,599.5	0%	5,897.6	5,860.7	1%	6,238.9	11%	*	ND	0.060	0.6000
As	(16.2)	ND		(14.5)	ND		---			ND	0.080	0.8000
B	(12.3)	ND		(11.2)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(21.5)	343.1		(14.2)	335.2		---			83.9	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	13.8	(13.8)		12.5	(12.9)		13.1	10%		ND	0.010	0.1000
Cr	73.9	(73.3)		68.2	(68.9)		71.1	8%		ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	486.4	497.7	2%	434.0	445.5	3%	460.2	11%	*	ND	0.020	0.2000
K	(1,355.5)	ND		(1,251.0)	(1,331.8)		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(26.5)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(4.4)	ND		(4.2)	ND		---			ND	0.030	0.3000
Na	103,587.5	110,110.0	6%	OvrRng	107,796.7		108,953.4	2%		(41.0)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.4)	0.050	0.5000
Ni	921.1	936.7	2%	740.4	748.6	1%	830.7	22%	*	ND	0.030	0.3000
P	10,239.4	9,957.4	3%	14,479.4	13,966.0	4%	12,359.4	34%	*	(26.8)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(3.3)	(5.9)		(2.1)	(9.5)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MD Thru 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195h
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# / ID	95-7946-C1-Sam	95-7946-C1-Sam@5x	95-7946-C2-Sam	95-7946-C2-Sam@5x	95-7941-C3 Batch Blk		Post Spk	
Sample Wt-g	0.3985	0.3985	0.5613	0.5613	0.4799			
Final Vol-mL	50.0	50.0	51.1	51.1	50.5			
Prep Factor	125.46	125.46	90.95	90.95	105.28			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	125.46	627.31	90.95	454.76	105.28			
ICP Run #	15:44	15:40	15:51	15:47	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.227	-1.060	0.360	0.359	0.722			
Al	6580.114	6599.453	5897.590	5860.668	3.412			
As	16.234	19.999	14.491	15.862	1.268			
B	12.264	7.716	11.178	7.649	0.934			
Ba	0.147	-0.019	0.160	0.464	0.257			
Be	0.009	-0.044	0.013	0.000	0.018			
Bi	2.817	-0.878	2.508	5.507	2.014			
Ca	21.531	343.147	14.163	335.203	83.894			
Cd	0.089	-0.263	0.208	0.027	0.239			
Ce	1.792	-6.612	2.599	2.815	6.434			
Co	13.810	13.820	12.479	12.938	0.506			
Cr	73.930	73.295	68.217	68.865	0.129			
Cu	-0.245	-3.312	0.113	-1.237	0.604			
Dy	0.294	-0.828	0.418	0.682	0.783			
Eu	0.099	-0.226	0.147	0.173	0.253			
Fe	486.391	497.742	433.963	445.460	1.070			
K	1355.513	1173.171	1251.028	1331.833	189.385			
La	0.380	-1.656	0.717	0.759	1.414			
Li	0.257	-0.251	0.418	0.223	0.705			
Mg	5.297	7.070	5.066	18.977	26.479			
Mn	0.130	0.144	0.127	0.327	0.088			
Mo	4.385	3.005	4.248	3.115	0.147			
Na	103587.521	110109.992	101545.700	107796.714	40.988			
Nd	1.721	-4.617	2.311	4.861	5.419			
Ni	921.083	936.717	740.381	748.611	0.282			
P	10239.434	9957.400	14479.387	13966.005	26.779			
Pb	1.646	-10.181	2.301	-0.659	3.117			
Pd	3.977	-15.482	6.490	6.617	14.787			
Rh	4.963	-4.604	5.598	6.148	6.417			
Sb	0.104	-3.613	0.998	-3.233	1.413			
Se	2.502	-1.857	3.575	5.343	2.440			
Si	18.609	20.080	15.846	10.155	10.529			
Sn	4.863	-23.399	10.675	0.755	14.330			
Sr	3.316	5.859	2.074	9.477	0.425			
Te	2.090	-6.769	4.335	0.523	2.181			
Th	0.824	-1.449	0.871	0.491	-0.563			
Ti	0.120	-0.270	0.168	0.182	0.353			
Tl	17.745	22.263	16.546	18.668	1.330			
U	69.981	-28.863	68.796	131.786	81.467			
V	0.391	-0.458	0.527	0.696	0.582			
W	11.083	5.821	10.496	6.817	0.938			
Y	0.050	-0.640	0.128	0.045	0.280			
Zn	-0.458	5.370	-0.163	5.303	0.241			
Zr	0.077	-0.878	0.216	0.177	0.576			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> < Only >|

ICP RAW DATA --- IEC Corrected

File: m091195h
Reported: 09/15/95

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7946-	C1-Sam@5x 95-7946-	C2-Sam 95-7946-	C2-Sam@5x 95-7946-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:44	15:40	15:51	15:47	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0018	-0.0017	0.0040	0.0008	0.0069			
Al	52.4468	10.5202	64.8422	12.8872	0.0324			
As	0.1294	0.0319	0.1593	0.0349	0.0120			
B	0.0978	0.0123	0.1229	0.0168	0.0089			
Ba	0.0012	-0.0000	0.0018	0.0010	0.0024			
Be	0.0001	-0.0001	0.0001	0.0000	0.0002			
Bi	0.0225	-0.0014	0.0276	0.0121	0.0191			
Ca	0.1716	0.5470	0.1557	0.7371	0.7969			
Cd	0.0007	-0.0004	0.0023	0.0001	0.0023			
Ce	0.0143	-0.0105	0.0286	0.0062	0.0611			
Co	0.1101	0.0220	0.1372	0.0285	0.0048			
Cr	0.5893	0.1168	0.7500	0.1514	0.0012			
Cu	-0.0020	-0.0053	0.0012	-0.0027	0.0057			
Dy	0.0023	-0.0013	0.0046	0.0015	0.0074			
Eu	0.0008	-0.0004	0.0016	0.0004	0.0024			
Fe	3.8768	0.7934	4.7713	0.9795	0.0102			
K	10.8041	1.8701	13.7547	2.9286	1.7989			
La	0.0030	-0.0026	0.0079	0.0017	0.0134			
Li	0.0021	-0.0004	0.0046	0.0005	0.0067			
Mg	0.0422	0.0113	0.0557	0.0417	0.2515			
Mn	0.0010	0.0002	0.0014	0.0007	0.0008			
Mo	0.0350	0.0048	0.0467	0.0069	0.0014			
Na	825.6437	175.5262	1116.4639	237.0384	0.3893			
Nd	0.0137	-0.0074	0.0254	0.0107	0.0515			
Ni	7.3415	1.4932	8.1403	1.6462	0.0027			
P	81.6133	15.8731	159.1964	30.7104	0.2544			
Pb	0.0131	-0.0162	0.0253	-0.0015	0.0296			
Pd	0.0317	-0.0247	0.0714	0.0146	0.1404			
Rh	0.0396	-0.0073	0.0616	0.0135	0.0610			
Sb	0.0008	-0.0058	0.0110	-0.0071	0.0134			
Se	0.0199	-0.0030	0.0393	0.0118	0.0232			
Si	0.1483	0.0320	0.1742	0.0223	0.1000			
Sn	0.0388	-0.0373	0.1174	0.0017	0.1361			
Sr	0.0264	0.0093	0.0228	0.0208	0.0040			
Te	0.0167	-0.0108	0.0477	0.0012	0.0207			
Th	0.0066	-0.0023	0.0096	0.0011	-0.0054			
Ti	0.0010	-0.0004	0.0019	0.0004	0.0034			
Tl	0.1414	0.0355	0.1819	0.0411	0.0126			
U	0.5578	-0.0460	0.7564	0.2898	0.7738			
V	0.0031	-0.0007	0.0058	0.0015	0.0055			
W	0.0883	0.0093	0.1154	0.0150	0.0089			
Y	0.0004	-0.0010	0.0014	0.0001	0.0027			
Zn	-0.0037	0.0086	-0.0018	0.0117	0.0023			
Zr	0.0006	-0.0014	0.0024	0.0004	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195i

Samp Log#:	Seg 4C 95-7947-C1-Sam	95-7947-C1-Sam@5x		Seg 4C 95-7947-C2-Sam	95-7947-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	16:08	16:04		16:16	16:11					13:49	
Dil Fctr:	109.48	547.40		96.62	483.10					102.67	
ICP Dil:	1.00	5.00		1.00	5.00					1.00	
	<---------Sample------->			<---------Duplicate------->			Average		20%	<-Blank->	**Estimated**
Analyte	ug/g	ug/g	%D	ug/g	ug/g	%D	ug/mL	RPD	Flg	ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	5,041.3	5,121.2	2%	5,053.4	5,163.0	2%	5,047.4	0%		ND	0.060	0.6000
As	(21.2)	ND		(17.8)	ND		---			ND	0.080	0.8000
B	22.5	(17.9)		21.2	(18.2)		21.8	6%		ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(45.5)	(112.1)		101.1	(146.2)		---			81.8	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	12.6	(12.3)		12.2	(12.0)		12.4	4%		ND	0.010	0.1000
Cr	27.8	(27.3)		26.7	(27.4)		27.3	4%		ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	418.8	450.8	8%	455.8	491.3	8%	437.3	8%		ND	0.020	0.2000
K	(1,056.7)	ND		(1,108.0)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		(9.9)	ND		---			(25.8)	0.100	1.0000
Mn	ND	ND		(0.9)	ND		---			ND	0.005	0.0500
Mo	(3.9)	ND		(3.7)	ND		---			ND	0.030	0.3000
Na	OvrRng	145,639.7		OvrRng	147,319.0		146,479.3	1%		(40.0)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.3)	0.050	0.5000
Ni	1,032.9	1,049.6	2%	779.2	812.8	4%	906.0	28% *		ND	0.030	0.3000
P	21,705.1	21,017.8	3%	23,912.8	23,448.7	2%	22,808.9	10%		(26.1)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.6)	(2.8)		(4.0)	(5.1)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m0911951
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7947-	95-7947-	95-7947-	95-7947-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	16:08	16:04	16:16	16:11	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0001	-0.0015	-0.0007	-0.0027	0.0069			
Al	46.0478	9.3555	52.3017	10.6872	0.0324			
As	0.1937	0.0270	0.1839	0.0227	0.0120			
B	0.2051	0.0328	0.2197	0.0377	0.0089			
Ba	0.0007	-0.0001	0.0024	0.0001	0.0024			
Be	0.0000	-0.0001	0.0000	-0.0001	0.0002			
Bi	0.0276	0.0045	0.0387	0.0031	0.0191			
Ca	0.4154	0.2047	1.0467	0.3027	0.7969			
Cd	0.0004	-0.0002	-0.0001	0.0007	0.0023			
Ce	0.0070	-0.0053	-0.0019	-0.0155	0.0611			
Co	0.1152	0.0224	0.1259	0.0249	0.0048			
Cr	0.2539	0.0499	0.2765	0.0567	0.0012			
Cu	0.0063	-0.0031	0.0068	-0.0035	0.0057			
Dy	0.0011	-0.0011	-0.0001	-0.0018	0.0074			
Eu	0.0006	-0.0004	0.0003	-0.0005	0.0024			
Fe	3.8250	0.8236	4.7170	1.0170	0.0102			
K	9.6524	1.8318	11.4677	1.8208	1.7989			
La	0.0020	-0.0012	0.0004	-0.0031	0.0134			
Li	0.0031	-0.0003	0.0014	-0.0006	0.0067			
Mg	0.0448	0.0090	0.1030	0.0124	0.2515			
Mn	0.0036	0.0009	0.0095	0.0020	0.0008			
Mo	0.0353	0.0042	0.0379	0.0043	0.0014			
Na	1217.9319	266.0580	1414.9038	304.9434	0.3893			
Nd	0.0065	-0.0055	0.0020	-0.0112	0.0515			
Ni	9.4349	1.9174	8.0642	1.6825	0.0027			
P	198.2567	38.3958	247.4917	48.5378	0.2544			
Pb	0.0115	-0.0114	0.0272	-0.0166	0.0296			
Pd	0.0021	-0.0227	-0.0179	-0.0423	0.1404			
Rh	0.0312	-0.0054	0.0245	-0.0123	0.0610			
Sb	0.0133	-0.0102	0.0094	-0.0092	0.0134			
Se	0.0458	0.0046	0.0359	0.0071	0.0232			
Si	0.3257	0.0714	0.3540	0.0443	0.1000			
Sn	0.0009	-0.0598	0.0050	-0.0661	0.1361			
Sr	0.0146	0.0052	0.0409	0.0105	0.0040			
Te	0.0568	-0.0056	0.0543	-0.0038	0.0207			
Th	0.0089	-0.0042	0.0144	0.0032	-0.0054			
Ti	0.0007	-0.0003	0.0006	-0.0008	0.0034			
Tl	0.1676	0.0218	0.1570	0.0308	0.0126			
U	0.4790	-0.0309	0.7448	-0.0805	0.7738			
V	0.0052	0.0001	0.0053	-0.0007	0.0055			
W	0.0907	0.0107	0.0879	0.0069	0.0089			
Y	0.0001	-0.0007	-0.0000	-0.0010	0.0027			
Zn	0.0001	0.0032	0.0056	0.0025	0.0023			
Zr	0.0004	0.0008	0.0001	-0.0022	0.0055			

Analyze Date: 09/11/95 | Analyst: D SANDERS
Project: TWRS | Reviewer: MD Thom 9/14/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m0911951
Reported: 09/15/95
ICP File: 950254a
Data Page 2 of 2

Sample Log# / ID	95-7947-C1-Sam	95-7947-C1-Sam@5x	95-7947-C2-Sam	95-7947-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.4616	0.4616	0.5202	0.5202	0.4909			
Final Vol-mL	50.5	50.5	50.3	50.3	50.4			
Prep Factor	109.48	109.48	96.62	96.62	102.67			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	109.48	547.40	96.62	483.10	102.67			
ICP Run #	16:08	16:04	16:16	16:11	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.010	-0.794	-0.070	-1.309	0.704			
Al	5041.294	5121.195	5053.421	5163.024	3.327			
As	21.211	14.752	17.766	10.966	1.236			
B	22.459	17.944	21.226	18.208	0.911			
Ba	0.077	-0.038	0.228	0.058	0.251			
Be	0.002	-0.055	0.003	-0.034	0.017			
Bi	3.017	2.474	3.736	1.488	1.964			
Ca	45.477	112.074	101.129	146.216	81.811			
Cd	0.048	-0.082	-0.007	0.357	0.233			
Ce	0.771	-2.890	-0.181	-7.488	6.274			
Co	12.608	12.262	12.164	12.010	0.494			
Cr	27.801	27.315	26.718	27.411	0.126			
Cu	0.693	-1.708	0.654	-1.667	0.589			
Dy	0.116	-0.597	-0.007	-0.889	0.764			
Eu	0.061	-0.203	0.029	-0.246	0.246			
Fe	418.764	450.815	455.755	491.330	1.043			
K	1056.741	1002.702	1108.016	879.628	184.681			
La	0.215	-0.662	0.038	-1.473	1.379			
Li	0.336	-0.137	0.133	-0.295	0.688			
Mg	4.906	4.943	9.949	6.000	25.822			
Mn	0.399	0.515	0.915	0.986	0.086			
Mo	3.862	2.305	3.665	2.077	0.144			
Na	133338.739	145639.654	136708.756	147318.990	39.970			
Nd	0.707	-2.994	0.192	-5.420	5.284			
Ni	1032.926	1049.559	779.170	812.796	0.275			
P	21705.072	21017.807	23912.777	23448.730	26.114			
Pb	1.254	-6.262	2.628	-8.000	3.040			
Pd	0.234	-12.410	-1.728	-20.421	14.419			
Rh	3.418	-2.934	2.370	-5.947	6.258			
Sb	1.455	-5.556	0.907	-4.445	1.378			
Se	5.020	2.496	3.471	3.416	2.380			
Si	35.663	39.090	34.200	21.382	10.268			
Sn	0.096	-32.751	0.486	-31.948	13.974			
Sr	1.603	2.819	3.953	5.073	0.415			
Te	6.223	-3.087	5.246	-1.836	2.127			
Th	0.969	-2.288	1.395	1.527	-0.549			
Ti	0.074	-0.181	0.058	-0.367	0.344			
Tl	18.351	11.922	15.166	14.880	1.297			
U	52.442	-16.887	71.962	-38.885	79.443			
V	0.570	0.060	0.511	-0.338	0.568			
W	9.925	5.879	8.490	3.338	0.915			
Y	0.014	-0.389	-0.003	-0.473	0.273			
Zn	0.013	1.757	0.539	1.188	0.235			
Zr	0.048	0.454	0.012	-1.044	0.562			

|<----------Adjusted for process dilution factor----------> | <ICP Dil Only>

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Analyze Date: 09/11/95
File: m091195j

Core 99

Analyte	Seg 4D 95-7948-C1-Sam ug/g	95-7948-C1-Sam@5x ug/g	%D	Seg 4D 95-7948-C2-Sam ug/g	95-7948-C2-Sam@5x ug/g	%D	Average ug/mL	RPD	20% Flg	95-7941-C3 Batch Blk ug/g	**Estimated** IDL ug/mL	MDL ug/mL
Run Time:	16:24	16:20		16:31	16:27					13:49		
Dil Fctr:	104.60	523.01		78.36	391.79					89.59		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	4,624.9	4,557.5	1%	3,772.7	4,013.7	6%	4,198.8	20%	*	ND	0.060	0.6000
As	(15.6)	ND		(22.6)	ND		---			ND	0.080	0.8000
B	21.8	(17.3)		19.5	(17.8)		20.7	11%	*	ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(20.6)	(37.8)		(19.1)	(78.3)		---			71.4	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	11.9	(11.8)		9.4	(9.5)		10.7	23%	*	ND	0.010	0.1000
Cr	39.7	(39.9)		31.9	(33.7)		35.8	22%	*	ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	337.6	368.6	9%	284.4	372.6	31%	311.0	17%	*	ND	0.020	0.2000
K	(1,021.7)	ND		(770.1)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(22.5)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(3.2)	ND		(2.6)	ND		---			ND	0.030	0.3000
Na	OvrRng	146,846.4		OvrRng	174,822.3		160,834.3	18%	*	(34.9)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.6)	0.050	0.5000
Ni	682.3	689.0	1%	532.9	576.4	8%	607.6	25%	*	ND	0.030	0.3000
P	27,364.1	26,081.0	5%	26,194.4	26,236.5	0%	26,779.3	4%		(22.8)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.7)	(3.4)		(0.9)	(3.6)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195j
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7948-	95-7948-	95-7948-	95-7948-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	16:24	16:20	16:31	16:27	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0011	-0.0019	-0.0042	-0.0036	0.0069			
Al	44.2142	8.7140	48.1476	10.2445	0.0324			
As	0.1496	0.0156	0.2878	0.0384	0.0120			
B	0.2089	0.0331	0.2489	0.0454	0.0089			
Ba	0.0009	0.0000	-0.0001	0.0003	0.0024			
Be	0.0000	-0.0000	-0.0001	-0.0000	0.0002			
Bi	0.0179	-0.0014	0.0083	0.0042	0.0191			
Ca	0.1966	0.0724	0.2434	0.2000	0.7969			
Cd	0.0006	-0.0003	-0.0015	0.0000	0.0023			
Ce	-0.0030	-0.0102	-0.0255	-0.0186	0.0611			
Co	0.1138	0.0226	0.1205	0.0244	0.0048			
Cr	0.3799	0.0762	0.4075	0.0861	0.0012			
Cu	0.0001	-0.0042	-0.0016	-0.0052	0.0057			
Dy	0.0001	-0.0011	-0.0036	-0.0026	0.0074			
Eu	0.0002	-0.0003	-0.0007	-0.0007	0.0024			
Fe	3.2274	0.7048	3.6299	0.9510	0.0102			
K	9.7676	1.6782	9.8279	1.8537	1.7989			
La	0.0000	-0.0030	-0.0058	-0.0048	0.0134			
Li	0.0016	-0.0004	-0.0007	-0.0016	0.0067			
Mg	0.0363	0.0102	0.0442	0.0372	0.2515			
Mn	0.0038	0.0013	0.0037	0.0028	0.0008			
Mo	0.0301	0.0041	0.0327	0.0033	0.0014			
Na	1320.0715	280.7725	1883.8762	446.2170	0.3893			
Nd	0.0025	-0.0081	-0.0218	-0.0156	0.0515			
Ni	6.5224	1.3175	6.8007	1.4712	0.0027			
P	261.6031	49.8673	334.2935	66.9662	0.2544			
Pb	0.0062	-0.0083	-0.0025	-0.0156	0.0296			
Pd	-0.0126	-0.0271	-0.0836	-0.0500	0.1404			
Rh	0.0199	-0.0095	-0.0076	-0.0191	0.0610			
Sb	0.0019	-0.0069	0.0058	-0.0089	0.0134			
Se	0.0273	-0.0088	0.0604	0.0015	0.0232			
Si	0.3483	0.0380	0.3603	0.0444	0.1000			
Sn	-0.0052	-0.0610	-0.0882	-0.0915	0.1361			
Sr	0.0162	0.0065	0.0110	0.0093	0.0040			
Te	0.0505	0.0036	0.0658	0.0022	0.0207			
Th	0.0096	-0.0024	0.0115	-0.0004	-0.0054			
Ti	-0.0000	-0.0003	-0.0013	-0.0009	0.0034			
Tl	0.1421	0.0242	0.1923	0.0310	0.0126			
U	0.4966	-0.0211	0.7818	-0.0147	0.7738			
V	0.0049	0.0001	0.0025	-0.0010	0.0055			
W	0.1121	0.0179	0.1356	0.0136	0.0089			
Y	-0.0004	-0.0008	-0.0021	-0.0014	0.0027			
Zn	0.0006	0.0009	0.0023	0.0020	0.0023			
Zr	-0.0010	-0.0013	-0.0044	-0.0025	0.0055			

Analyze Date: 09/11/95 | Analyst: D SANDERS | File: m091195j
Project: TWRS | Reviewer: MLO Thur 9/19/95 | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP File: 95D254a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# ID	95-7948-C1-Sam	95-7948-C1-Sam@5x	95-7948-C2-Sam	95-7948-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.4951	0.4951	0.6615	0.6615	0.5783			
Final Vol-mL	51.8	51.8	51.8	51.8	51.8			
Prep Factor	104.60	104.60	78.36	78.36	89.59			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	104.60	523.01	78.36	391.79	89.59			
ICP Run #	16:24	16:20	16:31	16:27	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.116	-0.988	-0.327	-1.391	0.615			
Al	4624.880	4557.470	3772.728	4013.672	2.904			
As	15.647	8.169	22.552	15.049	1.079			
B	21.849	17.312	19.506	17.791	0.795			
Ba	0.097	0.021	-0.011	0.106	0.219			
Be	0.003	-0.021	-0.004	-0.016	0.015			
Bi	1.868	-0.711	0.653	1.634	1.714			
Ca	20.561	37.845	19.073	78.350	71.392			
Cd	0.065	-0.178	-0.120	0.000	0.203			
Ce	-0.318	-5.314	-1.998	-7.295	5.475			
Co	11.899	11.815	9.440	9.544	0.431			
Cr	39.740	39.864	31.931	33.725	0.110			
Cu	0.015	-2.186	-0.123	-2.041	0.514			
Dy	0.007	-0.565	-0.281	-1.026	0.667			
Eu	0.022	-0.162	-0.058	-0.274	0.215			
Fe	337.596	368.622	284.432	372.582	0.910			
K	1021.704	877.713	770.090	726.257	161.162			
La	0.003	-1.579	-0.454	-1.869	1.203			
Li	0.166	-0.183	-0.056	-0.643	0.600			
Mg	3.801	5.309	3.466	14.571	22.533			
Mn	0.401	0.664	0.286	1.077	0.075			
Mo	3.152	2.123	2.561	1.305	0.125			
Na	138081.722	146846.410	147615.870	174822.278	34.880			
Nd	0.266	-4.221	-1.706	-6.112	4.611			
Ni	682.255	689.048	532.884	576.398	0.240			
P	27364.132	26081.005	26194.413	26236.523	22.789			
Pb	0.650	-4.357	-0.197	-6.120	2.653			
Pd	-1.318	-14.168	-6.553	-19.585	12.583			
Rh	2.082	-4.974	-0.596	-7.495	5.461			
Sb	0.200	-3.598	0.451	-3.471	1.202			
Se	2.855	-4.597	4.735	0.592	2.077			
Si	36.436	19.895	28.232	17.407	8.960			
Sn	-0.541	-31.904	-6.908	-35.860	12.194			
Sr	1.691	3.373	0.862	3.628	0.362			
Te	5.279	1.862	5.154	0.870	1.856			
Th	1.000	-1.266	0.903	-0.153	-0.479			
Ti	-0.001	-0.178	-0.098	-0.353	0.300			
Tl	14.865	12.631	15.071	12.126	1.132			
U	51.948	-11.056	61.261	-5.771	69.326			
V	0.515	0.026	0.197	-0.388	0.495			
W	11.728	9.357	10.621	5.309	0.798			
Y	-0.039	-0.418	-0.167	-0.556	0.238			
Zn	0.062	0.476	0.178	0.787	0.205			
Zr	-0.105	-0.659	-0.342	-0.995	0.490			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

								CCV1 950713H901	1 950713H901
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for "CCV1 950713H901"								10:07	17:07
(HPS:CCV-1)								CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	1891	1936
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag		2	0.002	0.002	67			0.001	0.003
Al	2.000	2	1.886	0.009	0	-0.114	-5.7	1.893	1.880
As	2.000	2	2.016	0.007	0	0.016	0.8	2.011	2.021
B	2.000	2	1.913	0.018	1	-0.087	-4.4	1.925	1.900
Ba	1.000	2	0.989	0.011	1	-0.011	-1.1	0.997	0.981
Be	1.000	2	0.962	0.005	0	-0.038	-3.8	0.965	0.959
Bi	2.000	2	1.897	0.013	1	-0.103	-5.2	1.906	1.888
Ca	2.000	2	1.922	0.015	1	-0.078	-3.9	1.933	1.911
Cd	1.000	2	0.977	0.015	2	-0.023	-2.3	0.987	0.966
Ce		2	0.020	0.014	67			0.011	0.030
Co	1.000	2	1.038	0.015	1	0.038	3.8	1.048	1.027
Cr	0.500	2	0.517	0.012	2	0.017	3.5	0.526	0.509
Cu	2.000	2	2.008	0.018	1	0.008	0.4	2.021	1.996
Dy		2	0.002	0.002	86			0.001	0.004
Eu		2	0.001	0.001	56			0.001	0.002
Fe	2.000	2	2.004	0.035	2	0.004	0.2	2.029	1.980
K	5.000	2	5.321	0.577	11	0.321	6.4	4.913	5.729
La		2	0.005	0.005	97			0.002	0.008
Li	2.000	2	1.892	0.023	1	-0.108	-5.4	1.876	1.908
Mg	2.000	2	2.089	0.025	1	0.089	4.5	2.107	2.071
Mn	1.000	2	1.010	0.015	1	0.010	1.0	1.021	1.000
Mo	2.000	2	1.994	0.033	2	-0.006	-0.3	2.017	1.971
Na	8.100	2	7.911	0.467	6	-0.189	-2.3	7.581	8.241
Nd		2	0.017	0.013	75			0.008	0.026
Ni	2.000	2	2.102	0.017	1	0.102	5.1	2.114	2.090
P	5.000	2	4.783	0.107	2	-0.217	-4.3	4.859	4.707
Pb	2.000	2	2.074	0.034	2	0.074	3.7	2.098	2.050
Pd		2	0.040	0.032	82			0.017	0.062
Rh		2	0.020	0.017	86			0.008	0.032
Sb		2	-0.002	0.014	-886			-0.011	0.008
Se	2.000	2	1.949	0.012	1	-0.051	-2.5	1.958	1.941
Si	5.000	2	4.731	0.257	5	-0.269	-5.4	4.549	4.913
Sn		2	0.067	0.043	64			0.037	0.096
Sr	2.000	2	2.010	0.017	1	0.010	0.5	2.022	1.998
Te		2	-0.004	0.002	-49			-0.006	-0.003
Th		2	0.010	0.001	10			0.009	0.011
Tl		2	0.001	0.001	92			0.000	0.002
Tl	2.000	2	1.932	0.021	1	-0.068	-3.4	1.917	1.947
U		2	0.254	0.242	95			0.083	0.425
V	1.000	2	0.960	0.004	0	-0.040	-4.0	0.958	0.963
W		2	0.015	0.004	26			0.012	0.017
Y		2	0.001	0.001	89			0.000	0.002
Zn	1.000	2	1.034	0.000	0	0.034	3.4	1.034	1.034
Zr		2	0.001	0.002	247			-0.001	0.002
TIME		2	########	0.000	0			10000.000	########

3-9.2

WHC-SD-WM-DP-145, REV.1

Statistical Summary for 'MCVA 950728I901'

(MCVA)	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.500	13	0.476	0.014	3	-0.024	-4.8
Al	25.000	13	24.370	0.880	4	-0.630	-2.5
As	2.500	13	2.562	0.074	3	0.062	2.5
B	2.000	13	1.937	0.073	4	-0.063	-3.2
Ba	0.500	13	0.497	0.019	4	-0.003	-0.5
Be	0.100	13	0.093	0.003	3	-0.007	-7.5
Bi	25.000	13	23.987	0.843	4	-1.013	-4.1
Ca	25.000	13	24.457	0.826	3	-0.543	-2.2
Cd	0.500	13	0.488	0.019	4	-0.012	-2.4
Ce		13	-0.018	0.023	-125		
Co	1.000	13	1.010	0.034	3	0.010	1.0
Cr	1.000	13	1.008	0.035	3	0.008	0.8
Cu	1.000	13	0.983	0.033	3	-0.017	-1.7
Dy		13	0.002	0.003	163		
Eu		13	0.002	0.001	33		
Fe	20.000	13	20.011	0.758	4	0.011	0.1
K	25.000	13	26.285	1.501	6	1.285	5.1
La		13	0.007	0.005	65		
Li	2.000	13	1.912	0.090	5	-0.088	-4.4
Mg	25.000	13	26.024	0.895	3	1.024	4.1
Mn	0.500	13	0.501	0.018	4	0.001	0.1
Mo	1.000	13	1.009	0.035	4	0.009	0.9
Na	25.000	13	24.905	0.820	3	-0.095	-0.4
Nd		13	0.020	0.016	81		
Ni	1.000	13	1.041	0.033	3	0.041	4.1
P		13	0.066	0.017	26		
Pb	2.500	13	2.576	0.077	3	0.076	3.1
Pd		13	0.004	0.048	1313		
Rh		13	0.011	0.022	209		
Sb	2.500	13	2.504	0.068	3	0.004	0.2
Se	2.500	13	2.456	0.079	3	-0.044	-1.8
Si	20.000	13	19.782	0.617	3	-1.218	-6.1
Sn		13	-0.053	0.089	-169		
Sr	0.500	13	0.503	0.018	4	0.003	0.6
Te		13	0.003	0.009	251		
Th		13	0.044	0.002	5		
Ti	1.000	13	0.978	0.036	4	-0.022	-2.2
Tl		13	2.465	0.072	3		
U		13	0.218	0.282	129		
V	1.000	13	0.981	0.029	3	-0.019	-1.9
W		13	0.032	0.010	31		
Y		13	0.001	0.001	142		
Zn	1.000	13	1.006	0.027	3	0.006	0.6
Zr	2.000	13	2.006	0.071	4	0.006	0.3
TIME		13	########	0.000	0		

MCVA 950728I901	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728
95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
09:47	09:51	10:49	11:12	13:13	13:24	13:36	14:26	15:14	15:54	16:45
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
1981	2026	2071	2116	2161	2206	2251	2296	2341	2386	2431
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.487	0.487	0.489	0.487	0.481	0.485	0.475	0.482	0.480	0.468	0.445
25.132	25.035	25.111	25.173	25.177	25.095	24.020	24.470	24.306	23.763	22.717
2.566	2.584	2.631	2.620	2.594	2.599	2.549	2.622	2.633	2.542	2.391
1.997	1.969	2.002	2.001	2.000	1.992	1.911	1.959	1.943	1.884	1.795
0.513	0.511	0.517	0.518	0.503	0.509	0.491	0.505	0.499	0.486	0.462
0.094	0.094	0.095	0.095	0.094	0.095	0.092	0.095	0.094	0.092	0.086
24.580	24.611	24.748	24.778	24.361	24.561	23.866	24.385	24.215	23.526	22.223
25.049	25.118	25.223	25.164	24.907	24.794	24.267	24.820	24.635	24.093	22.615
0.503	0.505	0.508	0.506	0.498	0.496	0.484	0.491	0.492	0.481	0.446
-0.029	-0.028	-0.048	-0.055	-0.016	-0.033	-0.005	-0.030	-0.014	-0.017	-0.002
1.036	1.040	1.047	1.045	1.015	1.020	0.996	1.025	1.024	0.996	0.935
1.032	1.039	1.044	1.043	1.015	1.026	0.997	1.029	1.015	0.998	0.931
1.008	1.012	1.016	1.015	1.002	1.005	0.968	0.999	0.980	0.964	0.920
0.000	0.000	-0.001	-0.002	0.001	-0.001	0.003	0.000	0.002	0.003	0.004
0.002	0.002	0.001	0.001	0.003	0.002	0.003	0.002	0.002	0.003	0.003
20.597	20.636	20.804	20.790	20.199	20.323	19.788	20.359	20.275	19.683	18.441
27.560	26.793	25.078	25.476	26.058	26.785	26.702	23.785	24.416	24.762	26.555
0.005	0.005	0.002	0.000	0.006	0.003	0.010	0.005	0.008	0.009	0.011
1.998	1.956	1.916	1.946	2.030	2.079	1.884	1.819	1.816	1.810	1.858
26.715	26.742	26.887	26.879	26.314	26.513	25.813	26.412	26.296	25.627	24.117
0.513	0.514	0.518	0.517	0.511	0.509	0.496	0.509	0.508	0.494	0.462
1.035	1.039	1.047	1.046	1.015	1.021	1.001	1.025	1.019	0.990	0.934
25.316	24.723	24.190	24.487	25.481	26.650	25.248	24.043	24.171	24.113	25.030
0.015	0.010	0.000	-0.003	0.021	0.007	0.034	0.011	0.021	0.025	0.032
1.064	1.071	1.080	1.076	1.044	1.044	1.030	1.052	1.056	1.028	0.970
0.062	0.065	0.059	0.038	0.068	0.041	0.088	0.070	0.083	0.104	0.058
2.644	2.650	2.642	2.640	2.609	2.601	2.565	2.595	2.615	2.536	2.393
-0.012	-0.028	-0.052	-0.065	0.012	-0.032	0.035	-0.022	0.002	0.009	0.042
0.001	-0.002	-0.012	-0.021	0.011	-0.007	0.026	-0.004	0.012	0.013	0.032
2.535	2.512	2.538	2.539	2.552	2.555	2.505	2.562	2.560	2.489	2.345
2.521	2.513	2.542	2.519	2.486	2.489	2.435	2.488	2.497	2.419	2.298
19.529	19.204	19.085	19.102	19.201	19.102	18.657	19.171	18.996	18.497	17.456
-0.066	-0.079	-0.136	-0.135	-0.027	-0.211	-0.119	-0.080	-0.018	-0.023	0.048
0.518	0.517	0.523	0.525	0.507	0.514	0.496	0.510	0.504	0.491	0.468
0.007	-0.002	-0.002	-0.008	0.002	-0.007	0.010	-0.006	0.004	0.004	0.015
0.046	0.049	0.044	0.046	0.042	0.043	0.041	0.043	0.045	0.042	0.043
1.006	1.007	1.016	1.018	0.986	0.993	0.964	0.994	0.987	0.960	0.905
2.524	2.527	2.532	2.530	2.483	2.496	2.442	2.499	2.491	2.433	2.308
0.109	0.023	-0.121	-0.192	0.221	-0.021	0.427	0.095	0.280	0.281	0.467
0.991	0.991	0.999	0.998	0.997	1.004	0.979	1.004	1.000	0.973	0.915
0.043	0.037	0.024	0.024	0.035	0.020	0.036	0.020	0.019	0.026	0.045
0.000	0.000	0.000	-0.001	0.001	0.000	0.002	0.000	0.001	0.001	0.002
1.018	1.025	1.035	1.036	1.008	1.010	0.986	1.020	1.023	1.001	0.945
2.057	2.061	2.084	2.066	2.019	2.037	1.979	2.042	2.029	1.973	1.861
10000.000	########	########	########	########	########	########	########	########	########	########

3-973

WHC-SD-WM-DP-145, REV. 1

								MCVB 950911H901	CVB 950911H901
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for 'MCVB 950911H901'								17:00	09:59
(MCVB)								CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	2566	2701
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag		2	0.002	0.002	81			0.003	0.001
Al		2	-0.160	0.033	-19			-0.156	-0.204
As		2	0.007	0.006	86			0.012	0.003
B		2	0.001	0.002	255			0.002	-0.001
Ba		2	0.000	0.000	98			0.001	0.000
Be		2	0.000	0.000	9			0.000	0.000
Bi		2	-0.004	0.012	-312			0.004	-0.012
Ca		2	0.015	0.007	44			0.020	0.010
Cd		2	0.001	0.001	171			0.000	0.001
Ce	2.000	2	1.979	0.034	2	-0.021	-1.0	2.003	1.955
Co		2	0.003	0.001	21			0.004	0.003
Cr		2	0.002	0.001	43			0.001	0.002
Cu		2	0.000	0.008	-1178			0.004	-0.005
Dy	2.000	2	1.987	0.031	2	-0.013	-0.7	2.009	1.965
Eu	2.000	2	1.974	0.025	1	-0.026	-1.3	1.992	1.956
Fe		2	0.004	0.003	81			0.006	0.002
K		2	0.310	0.181	58			0.438	0.182
La	2.000	2	1.998	0.020	1	-0.002	-0.1	2.012	1.983
Li		2	0.002	0.001	42			0.003	0.001
Mg		2	0.095	0.008	8			0.099	0.091
Mn		2	0.000	0.000	22			0.000	0.000
Mo		2	0.001	0.001	110			0.001	0.000
Na		2	0.015	0.001	5			0.016	0.014
Nd	2.000	2	1.963	0.038	2	-0.037	-1.8	1.991	1.936
Ni		2	0.017	0.011	67			0.025	0.009
P		2	0.008	0.001	23			0.005	0.007
Pb		2	0.056	0.001	2			0.056	0.057
Pd	2.000	2	1.950	0.109	6	-0.050	-2.5	2.027	1.873
Rh	2.000	2	1.967	0.024	1	-0.033	-1.7	1.984	1.950
Sb		2	-0.003	0.008	-289			0.003	-0.009
Se		2	0.012	0.008	65			0.007	0.018
Si		2	-0.072	0.188	-262			0.061	-0.204
Sn	2.000	2	2.039	0.022	1	0.039	2.0	2.054	2.024
Sr		2	0.000	0.000	75			0.000	0.000
Te	2.000	2	1.809	0.010	1	-0.191	-9.5	1.803	1.816
Th	5.000	2	5.048	0.022	0	0.048	1.0	5.033	5.064
Ti		2	0.001	0.000	12			0.001	0.001
Tl		2	0.007	0.014	195			0.017	-0.003
U	10.000	2	8.499	0.058	1	-1.501	-15.0	8.540	8.459
V		2	0.000	0.000	-161			0.000	-0.001
W	2.000	2	0.503	0.018	4	-1.497	-74.9	0.490	0.516
Y	1.000	2	0.969	0.001	0	-0.031	-3.1	0.970	0.968
Zn		2	0.002	0.000	17			0.002	0.002
Zr		2	-0.010	0.003	-32			-0.012	-0.008
TIME		2	########	0.000	0			10000.000	########

3-974

WHC-SD-WM-DP-145, REV. 1

								SRM-1643c 103668	-1643c 103668
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for 'SRM-1643c 103668'								10:03	17:03
(NIST:SRM1643c)								CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	2681	2926
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag	0.002	2	0.001	0.001	165	-0.001	-66.4	0.000	0.002
Al	0.115	2	0.101	0.006	6	-0.014	-11.9	0.097	0.105
As	0.082	2	0.080	0.004	4	-0.002	-2.4	0.083	0.078
B	0.119	2	0.110	0.003	2	-0.009	-7.5	0.108	0.112
Ba	0.050	2	0.049	0.000	0	-0.001	-1.3	0.049	0.049
Be	0.023	2	0.022	0.000	0	-0.001	-5.4	0.022	0.022
Bi		2	0.006	0.015	181			-0.002	0.019
Ca	36.800	2	35.250	0.574	2	-1.550	-4.2	35.656	34.844
Cd	0.012	2	0.013	0.000	3	0.001	4.4	0.012	0.013
Ce		2	0.002	0.008	504			-0.004	0.007
Co	0.024	2	0.025	0.002	7	0.001	4.7	0.023	0.026
Cr	0.019	2	0.020	0.000	1	0.001	4.3	0.020	0.020
Cu	0.022	2	0.018	0.003	19	-0.005	-20.5	0.015	0.020
Dy		2	-0.001	0.002	-309			-0.002	0.001
Eu		2	0.001	0.000	47			0.001	0.001
Fe	0.107	2	0.117	0.001	1	0.010	9.4	0.116	0.117
K	2.300	2	2.255	0.351	16	-0.045	-2.0	2.006	2.503
La		2	0.006	0.003	54			0.004	0.008
Li	0.017	2	0.012	0.003	22	-0.005	-29.3	0.010	0.013
Mg	9.450	2	9.890	0.117	1	0.440	4.7	9.973	9.808
Mn	0.035	2	0.035	0.000	1	0.000	-1.0	0.035	0.035
Mo	0.104	2	0.103	0.000	0	-0.001	-0.9	0.103	0.104
Na	12.190	2	11.834	0.914	8	-0.356	-2.9	11.167	12.480
Nd		2	0.009	0.009	96			0.003	0.016
Ni	0.061	2	0.065	0.003	5	0.004	7.0	0.063	0.067
P		2	0.023	0.004	17			0.020	0.025
Pb	0.035	2	0.034	0.003	9	-0.002	-4.8	0.032	0.036
Pd		2	-0.008	0.021	-261			-0.023	0.007
Rh		2	-0.003	0.013	-476			-0.012	0.007
Sb		2	-0.010	0.014	-150			-0.020	0.001
Se	0.013	2	0.008	0.000	3	-0.005	-37.9	0.008	0.008
Si		2	-0.144	0.240	-167			-0.314	0.026
Sn		2	-0.018	0.020	-109			-0.032	-0.004
Sr	0.264	2	0.262	0.001	0	-0.001	-0.6	0.263	0.261
Te		2	0.000	0.001	639			-0.001	0.001
Th		2	0.000	0.005	-1689			0.003	-0.004
Ti		2	0.008	0.000	5			0.007	0.008
Tl	0.008	2	0.015	0.014	94	0.007	88.5	0.005	0.025
U		2	0.193	0.137	71			0.096	0.290
V	0.031	2	0.028	0.001	4	-0.003	-9.9	0.028	0.029
W		2	0.010	0.004	40			0.007	0.012
Y		2	-0.002	0.001	-40			-0.002	-0.001
Zn	0.074	2	0.085	0.001	1	0.011	15.4	0.084	0.086
Zr		2	-0.001	0.002	-243			-0.002	0.000
TIME		2	########	0.000	0			10000.000	########

Statistical Summary for "STD1-Blank 108444"

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10
								95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
								9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
								09:44	10:19	10:52	11:20	13:11	13:34	13:44	14:33	15:23	16:02	17:10
(STD1-Blank)								CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3286	3331	3376	3421	3466	3511	3556	3601	3646	3691	3736
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		11	0.000	0.001	-488			-0.001	0.000	-0.001	-0.001	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Al		11	0.002	0.004	205			0.000	0.001	-0.001	0.001	0.002	0.010	-0.004	0.006	0.000	0.000	0.005
As		11	0.001	0.003	306			0.002	0.005	0.003	0.002	-0.001	-0.008	0.002	0.001	0.001	0.001	0.004
B		11	0.000	0.007	-1973			0.005	0.000	-0.001	-0.001	0.011	0.010	-0.004	-0.005	-0.009	-0.010	0.000
Be		11	0.000	0.000	1825			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Be		11	0.000	0.000	-991			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bi		11	-0.001	0.004	-294			0.001	0.006	0.001	-0.001	-0.005	-0.005	-0.008	0.002	-0.005	0.000	-0.001
Ca		11	0.000	0.003	-1771			-0.003	0.000	0.001	0.000	-0.007	0.005	-0.005	0.003	0.002	0.000	0.002
Cd		11	0.000	0.001	191			0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.000	-0.001
Ce		11	-0.002	0.009	-443			0.001	-0.004	-0.010	-0.010	0.011	-0.005	-0.005	0.007	-0.010	-0.009	0.013
Co		11	0.000	0.001	-527			0.001	-0.001	-0.002	-0.002	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Cr		11	0.000	0.001	292			0.000	0.000	0.002	0.001	-0.001	0.001	0.002	0.002	0.000	-0.001	0.000
Cu		11	0.000	0.003	-856			0.000	-0.001	-0.001	-0.001	0.008	-0.002	-0.002	-0.001	-0.003	-0.004	0.002
Dy		11	0.000	0.001	-891			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Eu		11	0.000	0.000	-505			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	-0.001	0.001
Fe		11	0.000	0.001	386			-0.001	0.000	0.002	0.002	-0.001	-0.001	-0.001	0.003	0.001	0.002	-0.001
K		11	-0.071	0.217	-305			-0.050	0.044	-0.199	-0.298	0.000	-0.049	-0.005	0.132	-0.351	-0.356	0.351
La		11	0.000	0.002	-45035			0.001	0.001	-0.002	-0.001	0.001	0.000	0.000	0.002	-0.002	-0.002	0.003
Li		11	0.000	0.001	-583			0.000	0.000	0.000	-0.001	-0.001	0.001	-0.001	0.001	-0.001	-0.001	0.001
Mg		11	-0.001	0.005	-450			-0.005	0.003	0.003	0.000	-0.003	-0.004	-0.003	-0.002	-0.008	-0.005	0.010
Mn		11	0.000	0.000	-187			0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000
Mo		11	0.000	0.001	-246			0.001	-0.001	0.000	-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.002
Na		11	0.000	0.010	-3687			-0.001	-0.009	-0.005	-0.012	0.003	-0.011	-0.001	0.019	-0.004	0.004	0.015
Nd		11	0.000	0.007	3809			0.003	-0.001	-0.002	-0.009	0.002	-0.003	0.001	0.010	-0.005	-0.007	0.012
Ni		11	0.003	0.003	105			0.001	0.002	-0.001	0.009	0.000	0.001	0.005	0.005	0.002	0.002	0.007
P		11	0.004	0.007	187			0.008	0.000	-0.003	0.007	0.008	-0.003	0.011	0.003	0.017	-0.006	0.001
Pb		11	-0.001	0.008	-864			0.008	0.005	-0.005	0.002	0.002	-0.004	-0.006	0.002	-0.010	-0.017	0.013
Pd		11	-0.001	0.018	-1265			0.015	0.001	-0.016	-0.019	0.009	-0.005	-0.005	0.018	-0.018	-0.024	0.030
Rh		11	0.000	0.008	-12184			0.003	0.002	-0.004	-0.009	0.005	-0.002	0.001	0.007	-0.009	-0.011	0.017
Sb		11	-0.002	0.005	-304			-0.002	0.002	-0.003	0.002	0.005	-0.013	-0.008	-0.001	0.000	-0.005	0.005
Se		11	0.000	0.005	-4808			0.012	-0.003	0.001	0.000	-0.008	-0.002	0.001	-0.003	0.002	0.002	-0.008
Si		11	0.097	0.288	295			0.751	-0.010	-0.070	-0.100	0.582	-0.024	-0.045	0.016	-0.012	-0.020	-0.001
Sn		11	-0.004	0.026	-692			0.019	-0.018	-0.027	-0.026	0.015	0.012	0.014	0.016	-0.034	-0.053	0.037
Sr		11	0.000	0.000	2081			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Te		11	0.001	0.005	719			0.002	0.005	-0.004	-0.002	-0.001	0.004	0.001	0.006	0.001	-0.009	0.005
Th		11	-0.001	0.003	-222			-0.001	0.001	-0.002	-0.002	0.001	0.001	-0.002	-0.006	-0.003	-0.005	0.004
Ti		11	0.000	0.000	-419			0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Tl		11	0.000	0.005	2288			0.000	0.004	-0.001	-0.003	0.006	-0.008	-0.007	0.001	0.000	0.007	0.003
U		11	-0.017	0.109	-657			0.047	-0.039	-0.101	-0.122	0.008	-0.038	-0.006	0.125	-0.095	-0.183	0.201
V		11	0.000	0.001	-548			0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.001	-0.001	-0.001	0.001
W		11	-0.001	0.006	-1208			0.012	-0.004	-0.002	-0.005	0.001	0.000	0.000	0.003	-0.008	-0.009	0.007
Y		11	0.000	0.000	-443			0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	-0.001	-0.001	0.001
Zn		11	0.000	0.001	-550			0.000	-0.001	0.000	-0.001	-0.001	0.000	0.000	0.001	0.000	0.000	0.000
Zr		11	0.000	0.001	593			-0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.000	0.000	0.001
TIME		11	########	0.000	0			10000.000	########	########	########	########	########	########	########	########	########	########

Statistical Summary for 'SST-ICS-0 950908I100'
(SST Interference Check Standard)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag		7	-0.011	0.001	-13		
Al	100.0	7	97.153	1.146	1	-2.847	-2.8
As		7	0.127	0.021	17		
B		7	-0.007	0.004	-60		
Ba		7	0.000	0.000	-482		
Be		7	0.001	0.000	7		
Bi		7	0.055	0.007	13		
Ca		7	0.068	0.004	6		
Cd		7	0.009	0.001	12		
Ce		7	-0.144	0.011	-7		
Co		7	0.004	0.001	29		
Cr		7	0.037	0.001	3		
Cu		7	-0.010	0.008	-82		
Dy		7	-0.004	0.001	-31		
Eu		7	0.000	0.000	86		
Fe	20.0	7	19.927	0.224	1	-0.073	-0.4
K		7	0.005	0.203	3985		
La		7	0.003	0.002	60		
Li		7	0.003	0.001	33		
Mg		7	0.279	0.011	4		
Mn		7	0.001	0.000	22		
Mo		7	0.007	0.001	18		
Na		7	0.014	0.013	92		
Nd		7	-0.022	0.005	-24		
Ni	50.0	7	51.992	0.497	1	1.992	4.0
P		7	0.029	0.017	59		
Pb		7	0.190	0.010	5		
Pd		7	-0.457	0.031	-7		
Rh		7	-0.043	0.007	-16		
Sb		7	-0.005	0.007	-123		
Se		7	0.023	0.008	34		
Si		7	0.014	0.041	288		
Sn		7	-0.015	0.112	-747		
Sr		7	0.000	0.000	-41		
Te		7	-0.005	0.004	-68		
Th		7	0.723	0.022	3		
Ti		7	0.001	0.000	45		
Tl		7	0.215	0.004	2		
U	50.0	7	50.323	0.578	1	0.323	0.6
V		7	0.002	0.001	49		
W		7	0.047	0.008	18		
Y		7	0.004	0.001	17		
Zn		7	-0.029	0.001	-4		
Zr	10.0	7	10.016	0.099	1	0.016	0.2
TIME		7	########	0.000	0		

	SST-ICS-0 95090811	S-0 9509	S-0 9509	S-0 9509	S-0 9509	S-0 9509	S-0 950908I100
	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
	11:16	14:29	15:19	15:58	16:57	10:28	13:39
	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	2971	3016	3061	3106	3151	3196	3241
	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag	-0.010	-0.011	-0.012	-0.014	-0.011	-0.010	-0.011
Al	97.816	95.285	96.720	96.247	97.287	98.291	98.427
As	0.108	0.156	0.155	0.123	0.127	0.102	0.119
B	-0.004	-0.009	-0.011	-0.012	-0.002	-0.003	-0.005
Ba	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Be	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Bi	0.047	0.060	0.059	0.055	0.064	0.055	0.043
Ca	0.064	0.069	0.070	0.066	0.075	0.065	0.063
Cd	0.009	0.009	0.009	0.008	0.010	0.011	0.009
Ce	-0.148	-0.139	-0.126	-0.161	-0.143	-0.145	-0.149
Co	0.004	0.004	0.004	0.002	0.005	0.003	0.003
Cr	0.036	0.038	0.038	0.038	0.039	0.036	0.036
Cu	-0.011	-0.010	-0.015	-0.018	0.006	-0.014	-0.005
Dy	-0.005	-0.003	-0.003	-0.004	-0.002	-0.004	-0.004
Eu	0.000	0.001	0.001	0.000	0.001	0.000	0.000
Fe	20.105	19.729	19.981	19.688	19.697	20.254	20.033
K	-0.232	0.082	-0.016	-0.154	0.400	-0.055	0.011
La	0.005	0.004	0.003	0.001	0.005	0.006	0.000
Li	0.002	0.004	0.003	0.003	0.005	0.002	0.002
Mg	0.282	0.285	0.295	0.276	0.284	0.275	0.259
Mn	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Mo	0.007	0.008	0.008	0.006	0.009	0.006	0.006
Na	-0.011	0.028	0.012	0.020	0.023	0.020	0.007
Nd	-0.026	-0.017	-0.021	-0.025	-0.012	-0.023	-0.026
Ni	52.473	51.461	52.240	51.461	51.652	52.703	51.956
P	0.007	0.060	0.034	0.041	0.022	0.018	0.023
Pb	0.189	0.199	0.189	0.171	0.189	0.202	0.189
Pd	-0.433	-0.459	-0.489	-0.502	-0.458	-0.412	-0.448
Rh	-0.044	-0.041	-0.041	-0.052	-0.030	-0.043	-0.046
Sb	-0.009	0.004	0.000	-0.003	-0.003	-0.015	-0.011
Se	0.033	0.021	0.036	0.016	0.016	0.019	0.022
Si	-0.053	0.070	0.040	0.015	0.041	-0.005	-0.009
Sn	0.015	0.050	0.021	-0.019	0.061	0.029	-0.261
Sr	0.000	0.000	0.000	-0.001	0.000	0.000	0.000
Te	-0.005	-0.003	-0.003	-0.011	-0.001	-0.006	-0.010
Th	0.707	0.730	0.753	0.735	0.740	0.702	0.695
Tl	0.001	0.001	0.001	0.000	0.001	0.001	0.000
Tl	0.216	0.215	0.214	0.211	0.215	0.223	0.213
U	49.745	49.787	50.451	50.190	50.742	49.993	51.355
V	0.001	0.003	0.003	0.001	0.004	0.001	0.001
W	0.056	0.047	0.039	0.034	0.053	0.046	0.055
Y	0.003	0.004	0.004	0.003	0.005	0.003	0.004
Zn	-0.027	-0.028	-0.029	-0.030	-0.029	-0.029	-0.031
Zr	10.105	9.904	10.062	9.911	9.931	10.143	10.055
TIME	10000.000	########	########	########	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)

[X]		Mode C	Mode I	Calibration/QC Check P	Calibration/QC Check SP	Calibration/QC Check S	Calibration/QC Check B	Calibration/QC Check V	Calibration/QC Check M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814E101		K. Silvers	K28866	7502S4A	ICP1	9/11/95 RDL
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓		✓						SPC-STD 950831I101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950830I102						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓							✓	Fail-K high	MCVA 950728I901						
	15	✓							✓	PASS	" "						
	16	✓							✓	Te,U,W-Fail Low	Old MCVB 950905H901						
	17	✓							✓	U,W-Fail Low	New " 950907H901						
	18	✓									SRM-1643c 103668						
	19	✓								"	CCV1 950713H901						
	20	✓									STD1-Blank 108444						
	21	✓								95-007932-C3	Method Blank Drainables (Water Leach)						
	22	✓								95-007932-C1	Seq 2 Drainable Liquids "	5X					
	23	✓						✓		~~95-007932-C1~~ 9/11/95	SST-ICS-0 950908I100						
	24	✓								492 ppm	Na @ 500 ppm (950622I1240 10X)						
	25	✓								95-007932-C1	Seq 2 Drainable Liquid (Water Leach)		↓	↓	↓	↓	↓

WHC-SD-WM-DP-[illegible] REV. 1

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode ("or I)" = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE # WD00560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x).

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9978

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007932-C2	Seg 2 Drainable Liquid Dup (Waterleach)	5X	K. Silvers	K28866	950254A	ICP1	9/11/95
	2	✓								95-007932-C2	" " " " Dup "						
	3	✓							✓	PASS	MCVA 950728I901						
	4	✓					✓				STD 1-Blank 108444						
	5	✓								95-007935-C1	Seg 3 Drainable Liquid (Waterleach)	5X					
	6	✓								95-007935-C1	" " " "						
	7	✓								95-007935-C2	" " " Dup "	5X					
	8	✓								95-007935-C2	" " " " "						
	9	✓							✓	PASS	MCVA 950728I901						
	10	✓						✓			SST-ICS-0 950908I100						
	11	✓					✓				STD 1-Blank 108444						
	12	✓				✓	✓				" " "						
	13	✓				✓					" 2 950830I102						
	14	✓				✓					" 3 3						
	15	✓				✓					" 4 4						
	16	✓				✓					" 5 5						
	17	✓				✓					" 6 6						
	18	✓				✓					" 7 7						
	19	✓				✓					" 8 8						
	20	✓				✓					" 9 9						
	21	✓					✓				" 1-Blank 108444						
	22	✓							✓	FAIL-K high	MCVA 950728I901						
	23	✓								Fail-K high	" "						
	24	✓				✓	✓				STD 1-Blank 108444						
	25	✓				✓					STD 3 950830I103						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TF#WD00560

Initial or Continuing Calibration [V]erification Standard

ADF = Analytical Dilution Factor (other than 1x)

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WHC-SD-WM-DP-145 REV 1

3979

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓	PASS	MCVA 950728I901		K. Silvers	K29866	95D254A	ICP1	9/11/95 DKS
	1	✓						✓			SST-ICS-0 950908I100						
	1	✓					✓				STD1-Blank 108444						
	1	✓								95-007945-C1	Sludge Sample (Water Leach)	5X					
	1	✓								95-007945-C1	" " "						
	1	✓								95-007945-C2	" " Duplicate "	5X					
	1	✓								95-007945-C2	" " " "						
	1	✓								95-007946-C1	" " "	5X					
	1	✓								95-007946-C1	" " "						
	11	✓								95-007946-C2	" " Duplicate "	5X					
	11	✓								95-007946-C2	" " " "						
	11	✓							✓	PASS	MCVA 950728I901						
	11	✓						✓			SST-ICS-0 950908I100						
	11	✓					✓				STD1-Blank 108444						
	11	✓								95-007947-C1	Sludge Sample (Water Leach)	5X					
	11	✓								95-007947-C1	" " "						
	11	✓								95-007947-C2	" " Duplicate "	5X					
	11	✓								95-007947-C2	" " " "						
	11	✓								95-007948-C1	" " "	5X					
	11	✓								95-007948-C1	" " "						
	11	✓								95-007948-C2	" " Duplicate "	5X					
	11	✓								95-007948-C2	" " " "						
	11	✓							✓	FAIL	MCVA 950728I901						
	11	✓							✓	Fail-Bi, Si	" "						
	11	✓							✓	PASS	" "						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]refile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard

ADF = Analytical Dilution Factor (other than 1x)

file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (94-02-03)

WHC-SD-WM-DP-145, REV. 1

B-980

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)

[X]		Mode		Calibration/QC Check						ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
		C	I	P	SP	S	B	V	M								
	1	✓					✓				STD1-Blank 108444		K. Silvers	K28966	9502541	ECP1	9/11/95 KM
	2	✓							✓	PASS	MCVA 950728I901						
	3	✓						✓			SST-ICS-0 950908I100						
	4	✓					✓				STD1-Blank 108444						
	5	✓								95-007941-C	Method Blank (Waterford)						
	6	✓								95-007941-C1	Sludge Sample "	5X					
	7	✓								95-007941-C1	" " "						
	8	✓								95-007941-C2	" " Duplicate "	5X					
	9	✓								95-007941-C2	" " "						
	10	✓								95-007942-C1	" " "	5X					
	11	✓								95-007942-C1	" " "						
	12	✓								95-007942-C2	" " Duplicate "	5X					
	13	✓								95-007942-C2	" " " "						
	14	✓							✓	PASS	MCVA 950728I901						
	15	✓						✓			SST-ICS-0 950908I10						
	16	✓					✓				STD1-Blank 108444						
	17	✓								974 ppm	Na @ 1000 ppm						
	18	✓								95-007943-C1	Sludge Sample (Waterford)	5X					
	19	✓								95-007943-C1	" " "						
	20	✓								95-007943-C2	" " Duplicate "	6X					
	21	✓								95-007943-C2	" " " "						
	22	✓								95-007944-C1	" " "	5X					
	23	✓								95-007944-C1	" " "						
	24	✓								95-007944-C2	" " Duplicate "	5X					
	25	✓								95-007944-C2			↓	↓	↓	↓	↓

WHC-SD-WM-DP-145 REV. 1

[SP] System Performance [S]tandardization or calibration

[M]id-Range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C] or [I] = ICP Interrogation Mode

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M A T E R W I N G R A

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

Mo: [illegible] AUSTIN ME 013 T.D 164-02-931

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓						✓			SST-ICS-0 950908I101		K. Silvers	K28866	950264A	ICP1	9/11/95 AH
	2	✓							✓	PASS (X)	MCUB ~~PA~~ 950911I901		↓	↓	↓	↓	↓
	3	✓							✓		SRM-1643c 103668		↓	↓	↓	↓	↓
	4	✓						✓			CCV1 950713H901		↓	↓	↓	↓	↓
	5	✓					✓				STD1-Blank 108444		↓	↓	↓	↓	↓
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																
	17																
	18																
	19																
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TF#WD00560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OPROUP\PROGRAMS\RUNLOG.TJ2 (04-02-93)

WHC-SD-WM-DP-145 REV. 1

3-982

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95D254A
ICP-325-V05-1
9/11/95 DRS

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D254A	ICP1	09/11/95	09:00	DRS	S	INT
2	SPC-BLK 108444	95D254A	ICP1	09/11/95	09:00	DRS	S	CONC
3	SPC-STD 950831I101	95D254A	ICP1	09/11/95	09:03	DRS	S	INT
4	SPC-STD 950831I101	95D254A	ICP1	09/11/95	09:03	DRS	S	CONC
5	STD1-Blank	95D254A	ICP1	09/11/95	09:09		X	IR
6	STD2	95D254A	ICP1	09/11/95	09:10		X	IR
7	STD3	95D254A	ICP1	09/11/95	09:14		X	IR
8	STD4	95D254A	ICP1	09/11/95	09:18		X	IR
9	STD5	95D254A	ICP1	09/11/95	09:22		X	IR
10	STD6	95D254A	ICP1	09/11/95	09:25		X	IR
11	STD7	95D254A	ICP1	09/11/95	09:29		X	IR
12	STD8	95D254A	ICP1	09/11/95	09:33		X	IR
13	STD9	95D254A	ICP1	09/11/95	09:37		X	IR
14	STD1-Blank 108444	95D254A	ICP1	09/11/95	09:44	DRS	S	CONC
15	MCVA 950728I901	95D254A	ICP1	09/11/95	09:47	DRS	Q	CONC
16	MCVA 950728I901	95D254A	ICP1	09/11/95	09:51	DRS	Q	CONC
17	OLD MCVB 950905H901	95D254A	ICP1	09/11/95	09:55	DRS	Q	CONC
18	NEW MCVB 950911H901	95D254A	ICP1	09/11/95	09:59	DRS	Q	CONC
19	SRM-1643c 103668	95D254A	ICP1	09/11/95	10:03	DRS	Q	CONC
20	CCV1 950713H901	95D254A	ICP1	09/11/95	10:07	DRS	S	CONC
21	STD1-Blank 108444	95D254A	ICP1	09/11/95	10:19	DRS	S	CONC
22	95-007932-C3	95D254A	ICP1	09/11/95	10:21	DRS	S	CONC
23	95-007932-C1 @5	95D254A	ICP1	09/11/95	10:24	DRS	S	CONC
24	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	10:28	DRS	S	CONC
25	Na @500 PPM	95D254A	ICP1	09/11/95	10:32	DRS	S	CONC
26	95-007932-C1	95D254A	ICP1	09/11/95	10:36	DRS	S	CONC
27	95-007932-C2 @5	95D254A	ICP1	09/11/95	10:40	DRS	S	CONC
28	95-007932-C2	95D254A	ICP1	09/11/95	10:44	DRS	S	CONC
29	MCVA 950728I901	95D254A	ICP1	09/11/95	10:49	DRS	Q	CONC
30	STD1-Blank 108444	95D254A	ICP1	09/11/95	10:52	DRS	S	CONC
31	95-007935-C1 @5	95D254A	ICP1	09/11/95	10:55	DRS	S	CONC
32	95-007935-C1	95D254A	ICP1	09/11/95	10:58	DRS	S	CONC
33	95-007935-C2 @5	95D254A	ICP1	09/11/95	11:03	DRS	S	CONC
34	95-007935-C2	95D254A	ICP1	09/11/95	11:07	DRS	S	CONC
35	MCVA 950728I901	95D254A	ICP1	09/11/95	11:12	DRS	Q	CONC
36	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	11:16	DRS	S	CONC
37	STD1-Blank 108444	95D254A	ICP1	09/11/95	11:20	DRS	S	CONC
38	STD1-Blank	95D254A	ICP1	09/11/95	12:34		X	IR
39	STD2	95D254A	ICP1	09/11/95	12:36		X	IR
40	STD3	95D254A	ICP1	09/11/95	12:40		X	IR
41	STD3	95D254A	ICP1	09/11/95	12:44		X	IR
42	STD4	95D254A	ICP1	09/11/95	12:48		X	IR
43	STD5	95D254A	ICP1	09/11/95	12:52		X	IR
44	STD6	95D254A	ICP1	09/11/95	12:56		X	IR
45	STD7	95D254A	ICP1	09/11/95	13:00		X	IR
46	STD8	95D254A	ICP1	09/11/95	13:03		X	IR
47	STD9	95D254A	ICP1	09/11/95	13:07		X	IR
48	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:11	DRS	S	CONC
49	MCVA 950728I901	95D254A	ICP1	09/11/95	13:13	DRS	Q	CONC
50	MCVA 950728I901	95D254A	ICP1	09/11/95	13:24	DRS	Q	CONC
51	STD1-Blank	95D254A	ICP1	09/11/95	13:28		X	IR
52	STD3	95D254A	ICP1	09/11/95	13:30		X	IR
53	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:34	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	MCVA 950728I901	95D254A	ICP1	09/11/95	13:36	DRS	Q	CONC
55	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	13:39	DRS	S	CONC
56	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:44	DRS	S	CONC
57	95-007941-C3 @5	95D254A	ICP1	09/11/95	13:49	DRS	S	CONC
58	95-007941-C1 @5	95D254A	ICP1	09/11/95	13:53	DRS	S	CONC
59	95-007941-C1	95D254A	ICP1	09/11/95	13:57	DRS	S	CONC
60	95-007941-C2 @5	95D254A	ICP1	09/11/95	14:02	DRS	S	CONC
61	95-007941-C2	95D254A	ICP1	09/11/95	14:06	DRS	S	CONC
62	95-007942-C1 @5	95D254A	ICP1	09/11/95	14:09	DRS	S	CONC
63	95-007942-C1	95D254A	ICP1	09/11/95	14:14	DRS	S	CONC
64	95-007942-C2 @5	95D254A	ICP1	09/11/95	14:17	DRS	S	CONC
65	95-007942-C2	95D254A	ICP1	09/11/95	14:21	DRS	S	CONC
66	MCVA 950728I901	95D254A	ICP1	09/11/95	14:26	DRS	Q	CONC
67	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	14:29	DRS	S	CONC
68	STD1-Blank 108444	95D254A	ICP1	09/11/95	14:33	DRS	S	CONC
69	Na @1000 PPM	95D254A	ICP1	09/11/95	14:37	DRS	S	CONC
70	95-007943-C1 @5	95D254A	ICP1	09/11/95	14:41	DRS	S	CONC
71	95-007943-C1	95D254A	ICP1	09/11/95	14:45	DRS	S	CONC
72	95-007943-C2 @5	95D254A	ICP1	09/11/95	14:50	DRS	S	CONC
73	95-007943-C2	95D254A	ICP1	09/11/95	14:53	DRS	S	CONC
74	95-007944-C1 @5	95D254A	ICP1	09/11/95	14:57	DRS	S	CONC
75	95-007944-C1	95D254A	ICP1	09/11/95	15:01	DRS	S	CONC
76	95-007944-C2 @5	95D254A	ICP1	09/11/95	15:05	DRS	S	CONC
77	95-007944-C2	95D254A	ICP1	09/11/95	15:09	DRS	S	CONC
78	MCVA 950728I901	95D254A	ICP1	09/11/95	15:14	DRS	Q	CONC
79	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	15:19	DRS	S	CONC
80	STD1-Blank 108444	95D254A	ICP1	09/11/95	15:23	DRS	S	CONC
81	95-007945-C1 @5	95D254A	ICP1	09/11/95	15:25	DRS	S	CONC
82	95-007945-C1	95D254A	ICP1	09/11/95	15:28	DRS	S	CONC
83	95-007945-C2 @5	95D254A	ICP1	09/11/95	15:32	DRS	S	CONC
84	95-007945-C2	95D254A	ICP1	09/11/95	15:36	DRS	S	CONC
85	95-007946-C1 @5	95D254A	ICP1	09/11/95	15:40	DRS	S	CONC
86	95-007946-C1	95D254A	ICP1	09/11/95	15:44	DRS	S	CONC
87	95-007946-C2 @5	95D254A	ICP1	09/11/95	15:47	DRS	S	CONC
88	95-007946-C2	95D254A	ICP1	09/11/95	15:51	DRS	S	CONC
89	MCVA 950728I901	95D254A	ICP1	09/11/95	15:54	DRS	Q	CONC
90	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	15:58	DRS	S	CONC
91	STD1-Blank 108444	95D254A	ICP1	09/11/95	16:02	DRS	S	CONC
92	95-007947-C1 @5	95D254A	ICP1	09/11/95	16:04	DRS	S	CONC
93	95-007947-C1	95D254A	ICP1	09/11/95	16:08	DRS	S	CONC
94	95-007947-C2 @5	95D254A	ICP1	09/11/95	16:11	DRS	S	CONC
95	95-007947-C2	95D254A	ICP1	09/11/95	16:16	DRS	S	CONC
96	95-007948-C1 @5	95D254A	ICP1	09/11/95	16:20	DRS	S	CONC
97	95-007948-C1	95D254A	ICP1	09/11/95	16:24	DRS	S	CONC
98	95-007948-C2 @5	95D254A	ICP1	09/11/95	16:27	DRS	S	CONC
99	95-007948-C2	95D254A	ICP1	09/11/95	16:31	DRS	S	CONC
100	MCVA 950728I901	95D254A	ICP1	09/11/95	16:45	DRS	Q	CONC
101	MCVA 950728I901	95D254A	ICP1	09/11/95	16:51	DRS	Q	CONC
102	MCVA 950728I901	95D254A	ICP1	09/11/95	16:52	DRS	Q	CONC
103	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	16:57	DRS	S	CONC
104	MCVB 950911H901	95D254A	ICP1	09/11/95	17:00	DRS	Q	CONC
105	SRM-1643c 103668	95D254A	ICP1	09/11/95	17:03	DRS	Q	CONC
106	CCV1 950713H901	95D254A	ICP1	09/11/95	17:07	DRS	S	CONC
107	STD1-Blank 108444	95D254A	ICP1	09/11/95	17:10	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6653.33	2113.33	1670.67	1102.33	308	175
2	SPC-BLK 108444	.0023	.0089	.0033	.0064	-.0003	.0001
3	SPC-STD 950831I101	6794.33	2153.67	1739	1144.33	311.667	176
4	SPC-STD 950831I101	.0067	.0113	.0279	.0105	.0001	.0002
5	STD1-Blank	.66756	.21183	.16813	.10893	.03099	.01743
6	STD2					8.26373	
7	STD3		75.4985		51.7033		
8	STD4						
9	STD5			27.6464			
10	STD6						
11	STD7						1.95313
12	STD8	31.0002					
13	STD9						
14	STD1-Blank 108444	-.0005	-.0005	.0022	.0051	.0002	.0000
15	MCVA 950728I901	.4865	25.13	2.566	1.997	.5134	.0937
16	MCVA 950728I901	.4869	25.03	2.584	1.989	.5112	.0938
17	OLD MCVB 950905H901	-.0030	-.2178	-.0056	.0001	-.0002	.0001
18	NEW MCVB 950911H901	.0008	-.2035	.0027	-.0006	.0001	.0002
19	SRM-1643c 103668	Q-.0001	Q.0968	.0826	Q.1082	.0489	.0220
20	CCV1 950713H901	.0012	1.893	2.011	1.925	.9966	.9653
21	STD1-Blank 108444	.0002	.0015	.0051	-.0004	.0001	-.0000
22	95-007932-C3	.0055	.0286	.0082	.4655	.0013	.0001
23	95-007932-C1 @5	.0001	78.81	.0677	.1609	.0000	.0006
24	SST-ICS-0 950908I100	-.0097	98.29	.1017	-.0033	-.0001	.0006
25	Na @500 PPM	-.0027	.0376	-.0061	.0826	-.0006	-.0001
26	95-007932-C1	.0054	391.5	.3330	.7797	.0008	.0033
27	95-007932-C2 @5	.0002	75.12	.0675	.1132	.0001	.0006
28	95-007931-C2	.0072	372.9	.3493	.5523	.0012	.0032
29	MCVA 950728I901	.4891	25.11	2.631	2.002	.5165	.0946
30	STD1-Blank 108444	-.0012	-.0013	.0032	-.0006	.0000	-.0000
31	95-007935-C1 @5	-.0036	83.24	.0787	.1070	-.0000	.0006
32	95-007935-C1	-.0070	402.3	.3790	.5162	.0014	.0032
33	95-007935-C2 @5	-.0014	76.82	.0665	.0859	.0005	.0006
34	95-007935-C2	-.0067	383.2	.3297	.4323	.0014	.0031
35	MCVA 950728I901	.4874	25.17	2.620	2.001	.5175	.0945
36	SST-ICS-0 950908I100	-.0104	97.82	.1077	-.0043	-.0001	.0006
37	STD1-Blank 108444	-.0013	.0008	.0020	-.0008	-.0002	-.0001
38	STD1-Blank	.65976	.21056	.16903	.10719	.03083	.01736
39	STD2					8.41053	
40	STD3		.41283		.14079		
41	STD3		75.1912		51.5393		
42	STD4						
43	STD5			27.8348			
44	STD6						
45	STD7						1.92556
46	STD8	31.3059					
47	STD9						
48	STD1-Blank 108444	-.0001	.0017	-.0012	.0115	-.0001	.0000
49	MCVA 950728I901	.4812	25.18	2.594	2.000	.5031	.0943
50	MCVA 950728I901	.4853	25.09	2.599	1.992	.5091	.0950
51	STD1-Blank	.65703	.21116	.16956	.12449	.0307	.01736
52	STD3		77.0558		52.781		
53	STD1-Blank 108444	.0000	.0097	-.0080	.0100	.0002	-.0000

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	MCVA 950728I901	.4751	24.02	2.549	1.911	.4914	.0924
55	SST-ICS-0 950908I100	-.0113	98.43	.1187	-.0051	-.0001	.0007
56	STD1-Blank 108444	.0003	-.0037	.0015	-.0043	.0001	-.0000
57	95-007941-C	.0069	.0324	.0120	.0089	.0024	.0002
58	95-007941-C1 @5	.0002	5.637	.0202	.0156	.0003	.0000
59	95-007941-C1	.0021	29.04	.1301	.0901	.0014	.0004
60	95-007941-C2 @5	-.0011	5.558	.0180	.0091	-.0001	.0000
61	95-007941-C2	.0029	28.04	.1205	.0633	.0014	.0003
62	95-007942-C1 @5	-.0011	14.16	.0242	.0077	.0003	.0001
63	95-007942-C1	.0062	69.40	.1299	.0621	.0023	.0005
64	95-007942-C1 @5	-.0008	13.51	.0170	.0136	.0004	.0000
65	95-007942-C2	.0056	67.58	.1266	.0931	.0022	.0005
66	MCVA 950728I901	.4824	24.47	2.622	1.959	.5049	.0949
67	SST-ICS-0 950908I100	-.0106	95.28	.1560	-.0089	.0000	.0007
68	STD1-Blank 108444	.0007	.0063	.0009	-.0054	.0002	-.0000
69	Na @1000 PPM	.0019	.0068	.0089	-.0060	.0003	.0000
70	95-007943-C1 @5	.0011	19.75	.0315	.0194	.0001	.0000
71	95-007943-C1	.0096	98.80	.1842	.1265	.0010	.0003
72	95-007943-C2 @5	.0026	20.84	.0333	.0076	.0004	.0001
73	95-007943-C2	.0096	106.3	.1949	.0714	.0012	.0004
74	95-007944-C1 @5	-.0008	21.66	.0682	.0122	.0002	-.0001
75	95-007944-C1	-.0026	105.2	.3508	.0889	.0006	.0001
76	95-007944-C2 @5	.0012	16.99	.0538	.0217	.0005	-.0000
77	95-007944-C2	.0010	85.08	.2702	.1350	.0011	.0001
78	MCVA 950728I901	.4802	24.31	2.633	1.943	.4993	.0942
79	SST-ICS-0 950908I100	-.0116	96.72	.1548	-.0106	-.0001	.0007
80	STD1-Blank 108444	-.0013	.0005	.0014	-.0093	-.0004	-.0000
81	95-007945-C1 @5	-.0030	15.20	.0298	.0096	-.0006	-.0001
82	95-007945-C1	.0000	75.96	.2026	.0903	.0004	.0000
83	95-007945-C2 @5	-.0037	16.94	.0536	.0245	-.0006	-.0001
84	95-007945-C2	-.0007	81.26	.3015	.1555	.0003	.0000
85	95-007946-C1 @5	-.0017	10.52	.0319	.0123	-.0000	-.0001
86	95-007946-C1	.0018	52.45	.1294	.0978	.0012	.0001
87	95-007946-C2 @5	.0008	12.89	.0349	.0168	.0010	.0000
88	95-007946-C2	.0040	64.84	.1593	.1229	.0018	.0001
89	MCVA 950728I901	.4677	23.76	2.542	1.884	.4865	.0917
90	SST-ICS-0 950908I100	-.0142	96.25	.1229	-.0117	-.0004	.0006
91	STD1-Blank 108444	-.0014	.0004	.0014	-.0097	-.0004	-.0000
92	95-007947-C1 @5	-.0014	9.356	.0270	.0328	-.0001	-.0001
93	95-007947-C1	-.0001	46.05	.1937	.2051	.0007	.0000
94	95-007947-C2 @5	-.0027	10.69	.0227	.0377	.0001	-.0001
95	95-007947-C2	-.0007	52.30	.1839	.2197	.0024	.0000
96	95-007948-C1 @5	-.0019	8.714	.0156	.0331	.0000	-.0000
97	95-007948-C1	-.0011	44.21	.1496	.2089	.0009	.0000
98	95-007948-C2 @5	-.0036	10.24	.0384	.0454	.0003	-.0000
99	95-007948-C2	-.0042	48.15	.2878	.2489	-.0001	-.0001
100	MCVA 950728I901	Q.4448	22.72	2.391	Q1.795	.4621	Q.0859
101	MCVA 950728I901	.4519	22.77	2.434	1.804	.4612	Q.0867
102	MCVA 950728I901	.4720	24.03	2.544	1.902	.4887	.0910
103	SST-ICS-0 950908I100	-.0111	97.29	.1270	-.0017	.0004	.0006
104	MCVB 950911H901	.0030	-.1563	.0117	.0022	.0006	.0003
105	SRM-1643c 103668	Q.0015	Q.1051	Q.0776	Q.1120	.0490	.0219
106	CCV1 950713H901	.0035	1.880	2.021	1.900	.9809	.9586
107	STD1-Blank 108444	.0022	.0050	.0041	.0001	.0005	.0001

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1437	1311	439	6354.33	1440	467.667
2	SPC-BLK 108444	-.0010	.0052	.0001	.0174	.0017	.0008
3	SPC-STD 950831I101	1733	1266.33	460.333	6420	1455.33	492.333
4	SPC-STD 950831I101	.0057	-.0092	.0020	.0299	.0034	.0046
5	STD1-Blank	.1444	.13099	.0441	.63503	.14366	.04766
6	STD2					17.9359	12.9645
7	STD3		81.6629	10.1901			
8	STD4				25.736		
9	STD5						
10	STD6						
11	STD7						
12	STD8	27.7811					
13	STD9						
14	STD1-Blank 108444	.0009	-.0028	.0008	.0008	.0009	-.0003
15	MCVA 950728I901	24.58	25.05	.5034	-.0286	1.036	1.032
16	MCVA 950728I901	24.61	25.12	.5055	-.0283	1.040	1.039
17	OLD MCVB 950905H901	-.0116	.0106	.0004	1.945	.0008	.0011
18	NEW MCVB 950911H901	-.0119	.0103	.0015	1.955	.0028	.0021
19	SRM-1643c 103668	-.0023	35.66	.0125	-.0041	.0234	Q.0197
20	CCV1 950713H901	1.906	1.933	.9873	.0106	1.048	.5259
21	STD1-Blank 108444	.0055	-.0003	.0002	-.0038	-.0013	.0004
22	95-007932-C3	.0148	-.0314	.0024	.0435	.0037	.0020
23	95-007932-C1 @5	.0103	-.0342	.0012	-.0009	.0192	.6400
24	SST-ICS-0 950908I100	.0553	.0649	.0109	-.1449	.0033	.0359
25	Na @500 PPM	-.0106	.2578	-.0003	-.0194	-.0027	.0004
26	95-007932-C1	.0485	-.0215	.0032	.0251	.0967	3.124
27	95-007932-C2 @5	.0152	-.0317	.0005	-.0067	.0179	.6078
28	95-007931-C2	.0508	-.0179	.0026	.0379	.0940	2.997
29	MCVA 950728I901	24.75	25.22	.5079	-.0475	1.047	1.044
30	STD1-Blank 108444	.0012	.0014	.0014	-.0104	-.0016	.0015
31	95-007935-C1 @5	.0036	-.0274	.0006	-.0101	.0173	.6657
32	95-007935-C1	.0497	-.0144	.0009	.0362	.0932	3.178
33	95-007935-C2 @5	.0133	-.0309	.0019	.0010	.0173	.6138
34	95-007935-C2	.0502	-.0114	.0016	.0314	.0880	3.004
35	MCVA 950728I901	24.78	25.16	.5056	-.0550	1.045	1.043
36	SST-ICS-0 950908I100	.0470	.0637	.0086	-.1478	.0036	.0356
37	STD1-Blank 108444	-.0009	.0000	.0006	-.0099	-.0015	.0006
38	STD1-Blank	.14476	.12973	.04493	.62809	.14386	.04773
39	STD2					18.3288	13.1536
40	STD3		.43823	1.13763			
41	STD3		82.0539	10.1453			
42	STD4				25.6155		
43	STD5						
44	STD6						
45	STD7						
46	STD8	27.96					
47	STD9						
48	STD1-Blank 108444	-.0054	-.0069	.0002	.0111	-.0004	-.0013
49	MCVA 950728I901	24.36	24.91	.4980	-.0158	1.015	1.015
50	MCVA 950728I901	24.56	24.79	.4964	-.0326	1.020	1.026
51	STD1-Blank	.14596	.12923	.0438	.62933	.14323	.04639
52	STD3		82.5582	10.2855			
53	STD1-Blank 108444	-.0047	.0046	.0006	-.0051	.0002	.0012

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
54	MCVA 950728I901	23.87	24.27	.4841	-.0050	.9983	.9973
55	SST-ICS-0 950908I100	.0431	.0634	.0088	-.1487	.0027	.0365
56	STD1-Blank 108444	-.0077	-.0052	.0007	-.0046	.0002	.0020
57	95-007941-C	.0191	.7969	.0023	.0611	.0048	.0012
58	95-007941-C1 @5	-.0072	.0537	.0015	.0032	.0023	.0944
59	95-007941-C1	.0129	.2146	.0012	.0120	.0158	.4862
60	95-007941-C2 @5	.0005	.0477	.0001	-.0020	.0014	.0900
61	95-007941-C2	.0080	.2469	.0011	.0193	.0162	.4757
62	95-007942-C1 @5	-.0011	1.125	-.0001	-.0041	.0030	.1341
63	95-007942-C1	.0243	1.499	.0009	.0438	.0246	.6551
64	95-007942-C1 @5	-.0002	1.359	-.0011	-.0017	.0027	.1293
65	95-007942-C2	.0144	1.406	.0003	.0429	.0242	.6377
66	MCVA 950728I901	24.39	24.82	.4913	-.0302	1.025	1.029
67	SST-ICS-0 950908I100	.0601	.0695	.0089	-.1385	.0043	.0384
68	STD1-Blank 108444	.0021	.0032	.0001	.0065	.0011	.0015
69	Na @1000 PPM	.0079	.2904	.0014	.0173	.0027	.0013
70	95-007943-C1 @5	.0058	1.497	-.0005	.0054	.0069	.2354
71	95-007943-C1	.0249	.0558	.0006	.0452	.0400	1.161
72	95-007943-C2 @5	.0033	1.553	.0001	.0111	.0083	.2560
73	95-007943-C2	.0251	.0517	.0000	.0440	.0433	1.269
74	95-007944-C1 @5	.0043	.5110	.0004	.0037	.0066	.2224
75	95-007944-C1	.0180	1.078	-.0009	.0087	.0318	1.069
76	95-007944-C2 @5	.0076	.4390	-.0001	.0107	.0063	.1754
77	95-007944-C2	.0173	.6168	-.0011	.0263	.0280	.8603
78	MCVA 950728I901	24.21	24.84	.4918	-.0143	1.024	1.015
79	SST-ICS-0 950908I100	.0590	.0699	.0085	-.1256	.0041	.0382
80	STD1-Blank 108444	-.0053	.0017	.0006	-.0100	-.0006	.0001
81	95-007945-C1 @5	-.0049	.1519	-.0010	-.0035	.0126	.1284
82	95-007945-C1	.0099	.4126	-.0003	.0034	.0771	.6583
83	95-007945-C2 @5	-.0085	.1832	-.0006	-.0193	.0142	.1438
84	95-007945-C2	.0209	.3748	-.0014	.0065	.0838	.7028
85	95-007946-C1 @5	-.0014	.5470	-.0004	-.0105	.0220	.1168
86	95-007946-C1	.0225	.1716	.0007	.0143	.1101	.5893
87	95-007946-C2 @5	.0121	.7371	.0001	.0062	.0285	.1514
88	95-007946-C2	.0276	.1557	.0023	.0286	.1372	.7500
89	MCVA 950728I901	23.53	24.09	.4809	-.0169	.9959	.9976
90	SST-ICS-0 950908I100	.0550	.0659	.0077	-.1608	.0021	.0376
91	STD1-Blank 108444	.0002	.0001	-.0003	-.0094	-.0014	-.0015
92	95-007947-C1 @5	.0045	.2047	-.0001	-.0053	.0224	.0499
93	95-007947-C1	.0276	.4154	.0004	.0070	.1152	.2539
94	95-007947-C2 @5	.0031	.3027	.0007	-.0155	.0249	.0567
95	95-007947-C2	.0387	1.047	-.0001	-.0019	.1259	.2765
96	95-007948-C1 @5	-.0014	.0724	-.0003	-.0102	.0226	.0762
97	95-007948-C1	.0179	.1966	.0006	-.0030	.1138	.3799
98	95-007948-C2 @5	.0042	.2000	.0000	-.0186	.0244	.0861
99	95-007948-C2	.0083	.2434	-.0015	-.0255	.1205	.4075
100	MCVA 950728I901	Q22.22	22.61	Q.4462	-.0021	.9354	.9311
101	MCVA 950728I901	Q22.45	23.06	.4592	.0248	.9550	.9499
102	MCVA 950728I901	23.52	24.00	.4734	.0149	.9931	.9878
103	SST-ICS-0 950908I100	.0637	.0755	.0099	-.1433	.0053	.0389
104	MCVB 950911H901	.0045	.0197	-.0001	2.003	.0038	.0011
105	SRM-1643c 103668	.0186	Q34.84	.0130	.0072	Q.0258	Q.0200
106	CCV1 950713H901	1.888	1.911	.9658	.0299	1.027	.5088
107	STD1-Blank 108444	-.0007	.0020	-.0011	.0132	.0020	.0001

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	456	1970	340.667	572	2196	998.667
2	SPC-BLK 108444	-.0022	.0023	.0003	.0012	.7615	.0020
3	SPC-STD 950831I101	23694.7	2218.33	344	630.667	2213.67	1009.67
4	SPC-STD 950831I101	10.16	-.0011	.0008	.0008	1.082	.0053
5	STD1-Blank	.04736	.1966	.03409	.05719	.21953	.09993
6	STD2	4.59713			76.2377		
7	STD3					3.23539	
8	STD4		50.3269	11.5604			6.34486
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0002	.0003	.0002	-.0008	-.0497	.0005
15	MCVA 950728I901	1.008	.0005	.0022	20.60	Q27.56	.0054
16	MCVA 950728I901	1.012	.0003	.0021	20.64	26.79	.0052
17	OLD MCVB 950905H901	.0058	1.983	1.972	.0008	-.2874	1.990
18	NEW MCVB 950911H901	-.0046	1.965	1.956	.0018	.1824	1.983
19	SRM-1643c 103668	Q.0154	-.0016	.0007	Q.1165	Q2.006	.0036
20	CCV1 950713H901	2.021	.0009	.0007	2.029	4.913	.0015
21	STD1-Blank 108444	-.0008	-.0005	-.0002	-.0002	.0442	.0005
22	95-007932-C3	.0037	.0059	.0015	.0086	1.398	.0119
23	95-007932-C1 @5	.0063	.0002	.0000	.2714	6.173	.0014
24	SST-ICS-0 950908I100	-.0137	-.0037	.0002	20.25	-.0553	.0058
25	Na @500 PPM	-.0029	-.0026	-.0010	.0030	-.5968	-.0039
26	95-007932-C1	.0429	.0042	.0015	1.308	29.40	.0095
27	95-007932-C2 @5	.0063	-.0002	-.0001	.2586	5.880	.0008
28	95-007931-C2	.0433	.0053	.0020	1.256	28.12	.0121
29	MCVA 950728I901	1.016	-.0013	.0014	20.80	25.08	.0020
30	STD1-Blank 108444	-.0006	-.0009	-.0006	.0019	-.1989	-.0017
31	95-007935-C1 @5	.0212	-.0015	-.0006	.2209	5.963	-.0022
32	95-007935-C1	.1074	.0048	.0018	1.015	29.59	.0112
33	95-007935-C2 @5	.0202	.0004	.0002	.2063	5.930	.0026
34	95-007935-C2	.1030	.0044	.0017	.9854	28.26	.0109
35	MCVA 950728I901	1.015	-.0022	.0010	20.79	25.48	.0005
36	SST-ICS-0 950908I100	-.0109	-.0047	.0000	20.11	-.2321	.0047
37	STD1-Blank 108444	-.0010	-.0012	-.0005	.0016	-.2984	-.0014
38	STD1-Blank	.0456	.19556	.03386	.05676	.21646	.09916
39	STD2	4.62836			77.5038		
40	STD3					.22223	
41	STD3					3.08436	
42	STD4		50.1248	11.556			6.39306
43	STD5						
44	STD6						
45	STD7						
46	STD8						
47	STD9						
48	STD1-Blank 108444	.0083	.0000	.0002	-.0011	.0000	.0009
49	MCVA 950728I901	1.002	.0012	.0025	20.20	Q28.06	.0058
50	MCVA 950728I901	1.005	-.0006	.0020	20.32	Q28.78	.0028
51	STD1-Blank	.04693	.19493	.03386	.05683	.21506	.0992
52	STD3					3.25536	
53	STD1-Blank 108444	-.0016	.0000	-.0001	-.0012	-.0493	-.0003

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
54	MCVA 950728I901	.9677	.0032	.0029	19.79	26.70	.0096
55	SST-ICS-0 950908I100	-.0052	-.0044	.0002	20.03	.0110	.0004
56	STD1-Blank 108444	-.0025	.0000	.0000	-.0007	-.0055	-.0002
57	95-007941-C	.0057	.0074	.0024	.0102	1.799	.0134
58	95-007941-C1 @5	.0042	-.0002	-.0001	.0742	.8830	.0007
59	95-007941-C1	.0342	.0012	.0006	.3076	4.782	.0030
60	95-007941-C2 @5	.0068	-.0013	-.0001	.0648	.6910	-.0013
61	95-007941-C2	.0471	.0025	.0009	.2883	4.563	.0046
62	95-007942-C1 @5	-.0017	-.0007	-.0002	.0598	1.168	-.0016
63	95-007942-C1	.0105	.0062	.0021	.2698	7.393	.0113
64	95-007942-C1 @5	-.0012	-.0004	-.0001	.0630	1.212	-.0002
65	95-007942-C2	.0108	.0053	.0020	.2628	7.245	.0105
66	MCVA 950728I901	.9987	.0001	.0019	20.36	23.79	.0049
67	SST-ICS-0 950908I100	-.0103	-.0027	.0006	19.73	.0823	.0042
68	STD1-Blank 108444	-.0011	.0008	.0003	.0027	.1316	.0017
69	Na @1000 PPM	-.0004	.0021	.0006	.0067	.2303	.0030
70	95-007943-C1 @5	.0034	.0001	.0001	.1106	2.084	.0013
71	95-007943-C1	.0314	.0056	.0020	.5158	11.00	.0101
72	95-007943-C2 @5	.0098	.0013	.0006	.1165	2.457	.0031
73	95-007943-C2	.0472	.0055	.0020	.5573	11.77	.0112
74	95-007944-C1 @5	.0035	.0003	.0002	.0959	1.914	.0011
75	95-007944-C1	.0278	.0011	.0007	.4412	8.879	.0032
76	95-007944-C2 @5	.0031	.0017	.0007	.0776	1.870	.0033
77	95-007944-C2	.0295	.0037	.0014	.3434	8.024	.0074
78	MCVA 950728I901	.9804	.0019	.0025	20.28	24.42	.0078
79	SST-ICS-0 950908I100	-.0155	-.0032	.0006	19.98	-.0165	.0034
80	STD1-Blank 108444	-.0032	-.0011	-.0003	.0013	-.3510	-.0016
81	95-007945-C1 @5	-.0057	-.0027	-.0008	.7820	1.508	-.0041
82	95-007945-C1	-.0010	.0007	.0005	3.864	9.981	.0017
83	95-007945-C2 @5	-.0072	-.0030	-.0009	.8141	1.596	-.0053
84	95-007945-C2	-.0027	.0000	.0005	3.884	10.69	.0011
85	95-007946-C1 @5	-.0053	-.0013	-.0004	.7935	1.870	-.0026
86	95-007946-C1	-.0020	.0023	.0008	3.877	10.80	.0030
87	95-007946-C2 @5	-.0027	.0015	.0004	.9795	2.929	.0017
88	95-007946-C2	.0012	.0046	.0016	4.771	13.75	.0079
89	MCVA 950728I901	.9644	.0026	.0026	19.68	24.76	.0090
90	SST-ICS-0 950908I100	-.0183	-.0043	.0002	19.69	-.1536	.0009
91	STD1-Blank 108444	-.0044	-.0013	-.0005	.0015	-.3565	-.0018
92	95-007947-C1 @5	-.0031	-.0011	-.0004	.8236	1.832	-.0012
93	95-007947-C1	.0063	.0011	.0006	3.825	9.652	.0020
94	95-007947-C2 @5	-.0035	-.0018	-.0005	1.017	1.821	-.0031
95	95-007947-C2	.0068	-.0001	.0003	4.717	11.47	.0004
96	95-007948-C1 @5	-.0042	-.0011	-.0003	.7048	1.678	-.0030
97	95-007948-C1	.0001	.0001	.0002	3.227	9.768	.0000
98	95-007948-C2 @5	-.0052	-.0026	-.0007	.9510	1.854	-.0048
99	95-007948-C2	-.0016	-.0036	-.0007	3.630	9.828	-.0058
100	MCVA 950728I901	.9197	.0045	.0029	18.44	26.55	.0112
101	MCVA 950728I901	.9180	.0082	.0041	18.68	26.28	.0175
102	MCVA 950728I901	.9762	.0044	.0031	19.56	27.45	.0115
103	SST-ICS-0 950908I100	.0056	-.0017	.0011	19.70	.3998	.0052
104	MCVB 950911H901	.0036	2.009	1.992	.0064	.4382	2.012
105	SRM-1643c 103668	.0200	.0006	.0013	Q.1174	2.503	.0081
106	CCV1 950713H901	1.996	.0037	.0016	1.980	5.729	.0081
107	STD1-Blank 108444	.0023	.0021	.0007	-.0007	.3505	.0034

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	420.667	2408.33	199.667	813.333	417.667	3715.67
2	SPC-BLK 108444	.0023	.0015	.0005	.0011	.0305	.0116
3	SPC-STD 950831I101	29150.3	2519	73956	843	422	3747
4	SPC-STD 950831I101	10.93	.0113	10.36	-.0001	.0486	.0203
5	STD1-Blank	.0421	.24093	.02033	.08089	.04193	.37073
6	STD2		46.7079		12.269	6.16273	
7	STD3	14.1341		7.31366			
8	STD4						17.2329
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	-.0004	-.0048	-.0005	.0005	-.0014	.0034
15	MCVA 950728I901	1.998	26.72	.5126	1.035	25.32	.0152
16	MCVA 950728I901	1.956	26.74	.5144	1.039	24.72	.0096
17	OLD MCVB 950905H901	-.0001	.0700	.0001	-.0023	-.0222	1.944
18	NEW MCVB 950911H901	.0014	.0912	.0004	.0001	.0144	1.936
19	SRM-1643c 103668	Q.0099	Q9.973	.0350	.1032	Q11.19	.0030
20	CCV1 950713H901	1.876	2.107	1.021	2.017	7.581	.0080
21	STD1-Blank 108444	-.0004	.0034	-.0003	-.0008	-.0095	-.0006
22	95-007932-C3	.0050	.0228	.0003	.0012	.7473	.0391
23	95-007932-C1 @5	.0030	.0072	.0004	.0311	407.0	.0033
24	SST-ICS-0 950908I100	.0024	.2746	.0013	.0063	.0199	-.0232
25	Na @500 PPM	-.0013	-.0050	-.0002	-.0019	491.9	-.0132
26	95-007932-C1	.0129	.0123	.0032	.1618	1834.	.0251
27	95-007932-C2 @5	.0019	-.0015	.0004	.0284	389.5	.0010
28	95-007931-C2	.0134	.0243	.0035	.1539	1750.	.0336
29	MCVA 950728I901	1.916	26.89	.5179	1.047	24.19	.0001
30	STD1-Blank 108444	-.0001	.0030	-.0003	.0002	-.0053	-.0023
31	95-007935-C1 @5	.0000	.0038	.0005	.0323	395.7	-.0096
32	95-007935-C1	.0112	.0197	.0033	.1606	1744.	.0328
33	95-007935-C2 @5	.0024	.0030	.0006	.0279	365.8	.0067
34	95-007935-C2	.0102	.0200	.0034	.1509	1670.	.0319
35	MCVA 950728I901	1.946	26.88	.5172	1.046	24.49	-.0029
36	SST-ICS-0 950908I100	.0021	.2818	.0013	.0070	-.0109	-.0264
37	STD1-Blank 108444	-.0009	.0003	-.0003	-.0008	-.0121	-.0086
38	STD1-Blank	.04176	.23993	.01973	.08173	.04143	.36853
39	STD2		47.2094		12.5598	5.98643	
40	STD3	.05263		.02759			
41	STD3	13.5764		7.32149			
42	STD4						17.2495
43	STD5						
44	STD6						
45	STD7						
46	STD8						
47	STD9						
48	STD1-Blank 108444	-.0006	-.0034	.0003	-.0003	.0028	.0023
49	MCVA 950728I901	2.030	26.31	.5115	1.015	25.48	.0208
50	MCVA 950728I901	2.079	26.51	.5090	1.021	26.65	.0069
51	STD1-Blank	.04196	.23899	.01996	.08183	.04143	.3675
52	STD3	14.4438		7.41326			
53	STD1-Blank 108444	.0014	-.0037	.0002	-.0010	-.0112	-.0033

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
54	MCVA 950728I901	1.884	25.81	.4956	1.001	25.25	.0335
55	SST-ICS-0 950908I100	.0021	.2590	.0008	.0065	.0067	-.0262
56	STD1-Blank 108444	-.0007	-.0026	-.0005	-.0010	-.0014	.0006
57	95-007941-C	.0067	.2515	.0008	.0014	.3893	.0515
58	95-007941-C1 @5	.0557	.0307	.0012	.0031	186.2	.0045
59	95-007941-C1	.2839	.0902	.0040	.0239	933.3	.0122
60	95-007941-C2 @5	.0597	.0198	.0008	.0024	170.6	-.0039
61	95-007941-C2	.2924	.0967	.0039	.0227	810.0	.0220
62	95-007942-C1 @5	.0009	.0108	.0000	.0050	461.3	.0001
63	95-007942-C1	.0137	.0459	.0013	.0363	2024.	.0443
64	95-007942-C1 @5	.0010	.0112	.0001	.0043	449.9	.0018
65	95-007942-C2	.0137	.0714	.0012	.0337	2019.	.0415
66	MCVA 950728I901	1.819	26.41	.5090	1.025	24.04	.0106
67	SST-ICS-0 950908I100	.0038	.2853	.0014	.0078	.0277	-.0170
68	STD1-Blank 108444	.0013	-.0018	.0000	-.0007	.0194	.0100
69	Na @1000 PPM	.0033	.0106	.0004	.0007	974.4	.0145
70	95-007943-C1 @5	.0424	.0279	.0004	.0088	316.4	.0035
71	95-007943-C1	.2061	.0257	.0016	.0602	1463.	.0376
72	95-007943-C2 @5	.0136	.0377	.0006	.0116	352.8	.0113
73	95-007943-C2	.0637	.0331	.0015	.0652	1644.	.0379
74	95-007944-C1 @5	.0120	.0308	.0003	.0108	397.0	.0051
75	95-007944-C1	.0571	.0936	.0011	.0564	1777.	.0070
76	95-007944-C2 @5	.0109	.0360	.0004	.0098	365.0	.0124
77	95-007944-C2	.0489	.0446	.0009	.0478	1686.	.0257
78	MCVA 950728I901	1.816	26.30	.5081	1.019	24.17	.0212
79	SST-ICS-0 950908I100	.0028	.2949	.0014	.0082	.0121	-.0213
80	STD1-Blank 108444	-.0014	-.0090	-.0001	-.0007	-.0040	-.0048
81	95-007945-C1 @5	-.0014	-.0027	-.0001	.0061	288.5	-.0161
82	95-007945-C1	.0018	.0680	.0010	.0471	1332.	.0057
83	95-007945-C2 @5	-.0022	-.0074	-.0002	.0069	411.2	-.0178
84	95-007945-C2	.0033	.0569	.0008	.0520	1816.	.0024
85	95-007946-C1 @5	-.0004	.0113	.0002	.0048	175.5	-.0074
86	95-007946-C1	.0021	.0422	.0010	.0350	825.6	.0137
87	95-007946-C2 @5	.0005	.0417	.0007	.0069	237.0	.0107
88	95-007946-C2	.0046	.0557	.0014	.0467	1116.	.0254
89	MCVA 950728I901	1.810	25.63	.4937	.9904	24.11	.0246
90	SST-ICS-0 950908I100	.0027	.2758	.0008	.0063	.0202	-.0245
91	STD1-Blank 108444	-.0013	-.0048	-.0003	-.0014	.0045	-.0068
92	95-007947-C1 @5	-.0003	.0090	.0009	.0042	266.1	-.0055
93	95-007947-C1	.0031	.0448	.0036	.0353	1218.	.0065
94	95-007947-C2 @5	-.0006	.0124	.0020	.0043	304.9	-.0112
95	95-007947-C2	.0014	.1030	.0095	.0379	1415.	.0020
96	95-007948-C1 @5	-.0004	.0102	.0013	.0041	280.8	-.0081
97	95-007948-C1	.0016	.0363	.0038	.0301	1320.	.0025
98	95-007948-C2 @5	-.0016	.0372	.0028	.0033	446.2	-.0156
99	95-007948-C2	-.0007	.0442	.0037	.0327	1884.	-.0218
100	MCVA 950728I901	1.858	24.12	.4617	.9345	25.03	.0322
101	MCVA 950728I901	1.803	24.42	.4682	.9465	24.25	.0571
102	MCVA 950728I901	1.938	25.57	.4901	.9937	26.06	.0326
103	SST-ICS-0 950908I100	.0046	.2845	.0013	.0095	.0235	-.0125
104	MCVB 950911H901	.0027	.0991	.0005	.0010	.0155	1.991
105	SRM-1643c 103668	Q.0135	Q9.808	.0345	.1037	12.48	.0157
106	CCV1 950713H901	1.908	2.071	.9999	1.971	8.241	.0262
107	STD1-Blank 108444	.0012	.0104	.0001	.0018	.0151	.0122

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	475.333	1314.67	13583.3	15464.7	15378	2641
2	SPC-BLK 108444	.0027	.0041	.0148	.0294	.0164	-.0007
3	SPC-STD 950831I101	488.667	1478.33	139244	15647	15532.3	2742.67
4	SPC-STD 950831I101	.0070	.0004	10.61	.0646	.0310	.0267
5	STD1-Blank	.04773	.13033	1.35873	1.54873	1.53743	.26379
6	STD2	6.13439		61.0939			
7	STD3		14.5259				
8	STD4						
9	STD5						37.2464
10	STD6						
11	STD7						
12	STD8						
13	STD9				21.7333	51.2997	
14	STD1-Blank 108444	.0009	.0079	.0078	.0146	.0025	-.0021
15	MCVA 950728I901	1.064	.0618	2.644	-.0125	.0013	2.535
16	MCVA 950728I901	1.071	.0649	2.650	-.0276	-.0023	2.512
17	OLD MCVB 950905H901	.0066	-.0222	.0363	1.848	1.941	-.0132
18	NEW MCVB 950911H901	.0087	.0067	.0571	1.873	1.950	-.0086
19	SRM-1643c 103668	.0625	.0201	@.0316	-.0234	-.0120	-.0199
20	CCV1 950713H901	2.114	4.859	2.098	.0166	.0078	-.0111
21	STD1-Blank 108444	.0021	-.0000	.0047	.0013	.0017	.0021
22	95-007932-C3	.0055	.0070	.0293	.1048	.0485	.0116
23	95-007932-C1 @5	.7024	1.056	.1521	-.0007	.0041	-.0106
24	SST-ICS-0 950908I100	52.70	.0183	.2023	-.4124	-.0432	-.0147
25	Na @500 PPM	.0042	-.0041	-.0132	-.0419	-.0178	.0028
26	95-007932-C1	3.430	5.450	.4806	.0799	.0514	-.0667
27	95-007932-C2 @5	.6766	1.012	.1549	-.0042	.0043	-.0149
28	95-007931-C2	3.299	5.253	.5189	.1085	.0632	-.0452
29	MCVA 950728I901	1.080	.0585	2.642	-.0515	-.0119	2.538
30	STD1-Blank 108444	-.0007	-.0032	-.0046	-.0162	-.0044	-.0026
31	95-007935-C1 @5	.5381	1.044	.1544	-.0212	-.0063	-.0190
32	95-007935-C1	2.557	5.330	.5450	.1019	.0623	-.0626
33	95-007935-C2 @5	.5065	1.013	.1751	.0194	.0108	-.0152
34	95-007935-C2	2.442	5.016	.5647	.0864	.0562	-.0759
35	MCVA 950728I901	1.076	.0384	2.640	-.0651	-.0210	2.539
36	SST-ICS-0 950908I100	52.47	.0069	.1893	-.4334	-.0443	-.0090
37	STD1-Blank 108444	.0087	.0068	.0016	-.0188	-.0065	.0015
38	STD1-Blank	.04769	.12986	1.34673	1.53999	1.52693	.26086
39	STD2	6.3074		61.851			
40	STD3		.15133				
41	STD3		14.4164				
42	STD4						
43	STD5						37.073
44	STD6						
45	STD7						
46	STD8						
47	STD9				21.8814	52.0983	
48	STD1-Blank 108444	-.0002	.0082	.0021	.0086	.0050	.0045
49	MCVA 950728I901	1.044	.0681	2.609	.0118	.0106	2.552
50	MCVA 950728I901	1.044	.0414	2.601	-.0323	-.0066	2.555
51	STD1-Blank	.04749	.13166	1.35226	1.53886	1.52286	.26673
52	STD3		14.6163				
53	STD1-Blank 108444	.0011	-.0034	-.0039	-.0053	-.0019	-.0126

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
54	MCVA 950728I901	1.030	.0675	2.565	.0346	.0265	2.505
55	SST-ICS-0 950908I100	51.96	.0234	.1891	-.4481	-.0458	-.0111
56	STD1-Blank 108444	.0049	.0111	-.0057	-.0050	.0012	-.0085
57	95-007941-C	.0027	.2544	.0296	.1405	.0610	.0134
58	95-007941-C1 @5	.1029	42.81	.0001	.0049	-.0002	-.0018
59	95-007941-C1	.5294	227.2	.0282	.0303	.0172	.0083
60	95-007941-C2 @5	.0965	32.85	-.0061	-.0139	-.0092	-.0097
61	95-007941-C2	.4833	172.1	.0355	.0461	.0205	-.0010
62	95-007942-C1 @5	.1414	1.417	.0033	-.0113	-.0052	-.0018
63	95-007942-C1	.6922	7.040	.0883	.1101	.0486	.0178
64	95-007942-C1 @5	.1333	1.468	.0088	-.0123	-.0043	-.0089
65	95-007942-C2	.6768	7.350	.0852	.1007	.0495	.0141
66	MCVA 950728I901	1.052	.0698	2.595	-.0222	-.0043	2.562
67	SST-ICS-0 950908I100	51.46	.0599	.1991	-.4594	-.0413	.0039
68	STD1-Blank 108444	.0045	.0029	.0022	.0176	.0075	-.0011
69	Na @1000 PPM	.0006	.0247	.0082	.0315	.0171	.0003
70	95-007943-C1 @5	.2412	9.505	.0136	.0049	.0045	-.0024
71	95-007943-C1	1.209	48.86	.0603	.1001	.0519	.0126
72	95-007943-C2 @5	.2641	10.37	.0291	.0245	.0118	.0049
73	95-007943-C2	1.341	53.63	.0701	.1009	.0510	.0165
74	95-007944-C1 @5	.1629	5.078	-.0003	.0081	.0020	-.0028
75	95-007944-C1	.8000	26.04	.0247	.0134	.0073	.0024
76	95-007944-C2 @5	.1308	5.707	.0142	.0331	.0149	-.0000
77	95-007944-C2	.6529	29.63	.0492	.0629	.0301	.0074
78	MCVA 950728I901	1.056	.0829	2.615	.0019	.0124	2.550
79	SST-ICS-0 950908I100	52.24	.0339	.1892	-.4889	-.0413	.0003
80	STD1-Blank 108444	.0018	.0168	-.0103	-.0184	-.0093	-.0005
81	95-007945-C1 @5	1.112	12.64	-.0176	-.0533	-.0210	-.0222
82	95-007945-C1	5.519	65.98	.0012	.0066	.0186	.0003
83	95-007945-C2 @5	1.009	10.93	-.0230	-.0622	-.0245	-.0071
84	95-007945-C2	4.856	55.55	.0110	-.0069	.0157	.0074
85	95-007946-C1 @5	1.493	15.87	-.0162	-.0247	-.0073	-.0058
86	95-007946-C1	7.341	81.61	.0131	.0317	.0396	.0008
87	95-007946-C2 @5	1.646	30.71	-.0014	.0146	.0135	-.0071
88	95-007946-C2	8.140	159.2	.0253	.0714	.0616	.0110
89	MCVA 950728I901	1.026	.1037	2.538	.0088	.0127	2.489
90	SST-ICS-0 950908I100	51.46	.0414	.1715	-.5018	-.0520	-.0034
91	STD1-Blank 108444	.0019	-.0063	-.0173	-.0243	-.0115	-.0052
92	95-007947-C1 @5	1.917	38.40	-.0114	-.0227	-.0054	-.0102
93	95-007947-C1	9.435	198.3	.0115	.0021	.0312	.0133
94	95-007947-C2 @5	1.682	48.54	-.0166	-.0423	-.0123	-.0092
95	95-007947-C2	8.064	247.5	.0272	-.0179	.0245	.0094
96	95-007948-C1 @5	1.317	49.87	-.0083	-.0271	-.0095	-.0069
97	95-007948-C1	6.522	261.6	.0062	-.0126	.0199	.0019
98	95-007948-C2 @5	1.471	66.97	-.0156	-.0500	-.0191	-.0089
99	95-007948-C2	6.801	334.3	-.0025	-.0836	-.0076	.0058
100	MCVA 950728I901	.9695	.0581	2.393	.0424	.0316	2.345
101	MCVA 950728I901	.9861	.0815	2.465	.1175	.0632	2.375
102	MCVA 950728I901	1.031	.0615	2.536	.0420	.0272	2.494
103	SST-ICS-0 950908I100	51.65	.0220	.1885	-.4577	-.0299	-.0033
104	MCVB 950911H901	.0247	.0048	.0556	2.027	1.984	.0030
105	SRM-1643c 103668	.0672	.0255	.0356	.0070	.0065	.0006
106	CCV1 950713H901	2.090	4.707	2.050	.0624	.0320	.0081
107	STD1-Blank 108444	.0075	.0006	.0126	.0305	.0169	.0050

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1555.33	4683	6950	140.667	10076	2393
2	SPC-BLK 108444	.0061	.2066	.0679	-.0003	.0176	.0026
3	SPC-STD 950831I101	1586	4706	7081	142	10788.3	2420.67
4	SPC-STD 950831I101	.0219	.2091	.0985	-.0002	.0140	.0091
5	STD1-Blank	.15386	.45896	.69389	.01406	1.0072	.23963
6	STD2				8.37473		
7	STD3						
8	STD4						12.3481
9	STD5						
10	STD6						
11	STD7		79.7375			57.0047	
12	STD8	4.00299					
13	STD9			8.71183			
14	STD1-Blank 108444	.0122	.7508	.0190	.0003	.0023	-.0010
15	MCVA 950728I901	2.521	19.53	-.0657	.5175	.0067	.0459
16	MCVA 950728I901	2.513	19.20	-.0792	.5168	-.0017	.0494
17	OLD MCVB 950905H901	-.0001	-.1334	1.949	-.0001	@1.772	5.054
18	NEW MCVB 950911H901	.0182	-.2043	2.024	.0001	1.816	5.064
19	SRM-1643c 103668	@.0080	-.3143	-.0319	.2629	-.0006	.0032
20	CCV1 950713H901	1.958	4.549	.0368	2.022	-.0056	.0093
21	STD1-Blank 108444	-.0028	-.0104	-.0182	-.0000	.0046	.0006
22	95-007932-C3	.0080	.0575	.1410	.0006	.0199	.0007
23	95-007932-C1 @5	-.0040	.1742	.0373	.0004	-.0142	.0041
24	SST-ICS-0 950908I100	.0188	-.0053	.0292	-.0002	-.0057	.7017
25	Na @500 PPM	.0033	1.099	-.0648	.0038	-.0119	-.0045
26	95-007932-C1	-.0011	.9492	.2695	.0011	-.0429	.0032
27	95-007932-C2 @5	-.0017	.1008	.0183	.0004	-.0173	.0021
28	95-007931-C2	.0112	.7727	.2890	.0013	-.0389	-.0005
29	MCVA 950728I901	2.542	19.08	-.1359	.5229	-.0022	.0441
30	STD1-Blank 108444	.0007	-.0701	-.0265	.0000	-.0041	-.0022
31	95-007935-C1 @5	-.0036	.1679	-.0005	.0042	-.0241	-.0016
32	95-007935-C1	-.0088	1.054	.2417	.0069	-.0422	.0046
33	95-007935-C2 @5	-.0058	.1102	.0370	.0036	-.0127	.0002
34	95-007935-C2	-.0185	.8972	.2207	.0118	-.0481	.0052
35	MCVA 950728I901	2.519	19.10	-.1350	.5246	-.0075	.0455
36	SST-ICS-0 950908I100	.0327	-.0527	.0148	-.0002	-.0048	.7067
37	STD1-Blank 108444	-.0003	-.0996	-.0261	-.0001	-.0019	-.0016
38	STD1-Blank	.15643	.39286	.6862	.0142	1.00119	.23673
39	STD2				8.68659		
40	STD3						
41	STD3						
42	STD4						12.3694
43	STD5						
44	STD6						
45	STD7		79.5024			56.8873	
46	STD8	4.07159					
47	STD9			8.74093			
48	STD1-Blank 108444	-.0055	.5820	.0146	.0002	-.0014	.0014
49	MCVA 950728I901	2.468	19.20	-.0273	.5070	.0017	.0421
50	MCVA 950728I901	2.489	19.10	-.2107	.5139	-.0075	.0433
51	STD1-Blank	.15513	.41646	.68366	.01446	.99729	.23623
52	STD3						
53	STD1-Blank 108444	-.0016	-.0240	.0118	-.0002	.0041	.0006

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
54	MCVA 950728I901	2.435	18.66	-.1188	.4961	.0098	.0413
55	SST-ICS-0 950908I100	.0223	-.0092	-.2614	-.0004	-.0096	.6946
56	STD1-Blank 108444	.0009	-.0453	.0138	-.0001	.0007	-.0015
57	95-007941-C	.0232	.1000	.1361	.0040	.0207	-.0054
58	95-007941-C1 @5	.0051	.5340	-.0048	.0013	.0036	-.0029
59	95-007941-C1	.0221	1.809	.0660	.0044	.0500	.0019
60	95-007941-C2 @5	-.0022	.5031	-.0344	.0011	-.0039	.0001
61	95-007941-C2	.0225	1.511	.0695	.0046	.0438	-.0019
62	95-007942-C1 @5	-.0054	.3138	-.0206	.0019	-.0084	-.0046
63	95-007942-C1	.0229	1.078	.1882	.0083	.0121	-.0060
64	95-007942-C1 @5	-.0046	.2555	-.0129	.0020	-.0102	-.0034
65	95-007942-C2	.0221	1.072	.1523	.0078	.0187	-.0019
66	MCVA 950728I901	2.498	19.17	-.0804	.5096	-.0061	.0425
67	SST-ICS-0 950908I100	.0214	.0704	.0497	-.0003	-.0034	.7298
68	STD1-Blank 108444	-.0028	.0161	.0161	.0000	.0060	-.0060
69	Na @1000 PPM	.0054	.0042	.0546	.0002	.0084	-.0008
70	95-007943-C1 @5	-.0024	.3046	.0110	.0018	-.0032	-.0058
71	95-007943-C1	.0402	1.110	.1833	.0012	.0217	.0015
72	95-007943-C2 @5	.0128	.3018	.0264	.0019	.0010	.0028
73	95-007943-C2	.0219	.9698	.1920	.0011	.0219	-.0029
74	95-007944-C1 @5	.0131	.2294	.0176	.0042	-.0019	-.0022
75	95-007944-C1	.0558	.6896	.0469	.0152	.0007	-.0037
76	95-007944-C2 @5	.0125	.2137	.0317	.0042	.0084	.0015
77	95-007944-C2	.0428	.6523	.1091	.0086	.0152	-.0051
78	MCVA 950728I901	2.497	19.00	-.0177	.5041	.0038	.0450
79	SST-ICS-0 950908I100	.0364	.0401	.0205	-.0004	-.0026	.7529
80	STD1-Blank 108444	.0019	-.0123	-.0342	-.0002	.0006	-.0027
81	95-007945-C1 @5	-.0050	.1266	-.1006	.0067	-.0137	-.0033
82	95-007945-C1	.0425	.3546	.0127	.0271	.0109	.0026
83	95-007945-C2 @5	.0087	.1375	-.1176	.0022	-.0169	-.0042
84	95-007945-C2	.0538	.3779	.0195	.0094	.0084	.0052
85	95-007946-C1 @5	-.0030	.0320	-.0373	.0093	-.0108	-.0023
86	95-007946-C1	.0199	.1483	.0388	.0264	.0167	.0066
87	95-007946-C2 @5	.0118	.0223	.0017	.0208	.0012	.0011
88	95-007946-C2	.0393	.1742	.1174	.0228	.0477	.0096
89	MCVA 950728I901	2.419	18.50	-.0231	.4914	.0043	.0419
90	SST-ICS-0 950908I100	.0161	.0148	-.0188	-.0005	-.0107	.7349
91	STD1-Blank 108444	.0021	-.0205	-.0527	-.0002	-.0090	-.0049
92	95-007947-C1 @5	.0046	.0714	-.0598	.0052	-.0056	-.0042
93	95-007947-C1	.0459	.3258	.0009	.0146	.0568	.0089
94	95-007947-C2 @5	.0071	.0443	-.0661	.0105	-.0038	.0032
95	95-007947-C2	.0359	.3540	.0050	.0409	.0543	.0144
96	95-007948-C1 @5	-.0088	.0380	-.0610	.0065	.0036	-.0024
97	95-007948-C1	.0273	.3483	-.0052	.0162	.0505	.0096
98	95-007948-C2 @5	.0015	.0444	-.0915	.0093	.0022	-.0004
99	95-007948-C2	.0604	.3603	-.0882	.0110	.0658	.0115
100	MCVA 950728I901	2.288	Q17.46	.0484	.4680	.0152	.0432
101	MCVA 950728I901	2.313	Q17.67	.1220	.4682	.0205	.0452
102	MCVA 950728I901	2.422	18.50	.0347	.4963	.0077	.0474
103	SST-ICS-0 950908I100	.0163	.0407	.0613	-.0002	-.0008	.7401
104	MCVB 950911H901	.0067	.0612	2.054	.0003	1.803	5.033
105	SRM-1643c 103668	Q.0077	.0258	-.0041	.2614	.0009	-.0038
106	CCV1 950713H901	1.941	4.913	.0982	1.998	-.0027	.0107
107	STD1-Blank 108444	-.0058	-.0010	.0373	.0004	.0050	.0036

#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	656	342.667	17519.7	993.667	311.333	259
2	SPC-BLK 108444	.0005	.0036	.2129	.0019	-.0016	.0010
3	SPC-STD 950831I101	666	372.667	17640.3	1006	322.667	261.667
4	SPC-STD 950831I101	.0018	.0546	.3113	.0037	.0020	.0017
5	STD1-Blank	.06576	.03436	1.74983	.0995	.03053	.02596
6	STD2	15.3397					
7	STD3						
8	STD4						
9	STD5				12.7601		3.3213
10	STD6			52.9315			
11	STD7						
12	STD8		1.21333				
13	STD9					3.3798	
14	STD1-Blank 108444	-.0002	-.0001	.0466	-.0002	.0115	.0001
15	MCVA 950728I901	1.006	2.524	.1089	.9909	.0426	.0002
16	MCVA 950728I901	1.007	2.527	.0230	.9915	.0372	.0003
17	OLD MCVB 950905H901	-.0003	-.0156	Q8.347	-.0031	Q1.150	.9699
18	NEW MCVB 950911H901	.0010	-.0026	Q8.459	-.0006	Q.5157	.9683
19	SRM-1643c 103668	.0075	.0050	.0963	Q.0275	.0069	-.0019
20	CCV1 950713H901	.0003	1.917	.0829	.9575	.0119	.0004
21	STD1-Blank 108444	.0001	.0043	-.0394	.0001	-.0040	.0000
22	95-007932-C3	.0027	.0027	.6103	.0044	.0098	.0025
23	95-007932-C1 @5	.0002	.1677	-.0155	.0002	.1426	.0000
24	SST-ICS-0 950908I100	.0015	.2233	49.99	.0014	.0457	.0031
25	Na @500 PPM	-.0010	-.0034	-.2615	-.0019	-.0104	-.0010
26	95-007932-C1	.0016	.8274	.3422	.0032	.7400	.0015
27	95-007932-C2 @5	-.0000	.1585	-.0164	-.0000	.1255	-.0002
28	95-007931-C2	.0021	.8029	.5229	.0040	.7163	.0019
29	MCVA 950728I901	1.016	2.532	-.1206	.9987	.0237	-.0003
30	STD1-Blank 108444	-.0004	-.0014	-.1009	-.0003	-.0023	-.0004
31	95-007935-C1 @5	-.0005	.1592	-.1432	-.0010	1.668	-.0004
32	95-007935-C1	.0022	.8150	.5572	.0040	8.401	.0021
33	95-007935-C2 @5	.0003	.1525	.0730	.0009	1.545	.0005
34	95-007935-C2	.0027	.7780	.5633	.0038	7.969	.0017
35	MCVA 950728I901	1.018	2.530	-.1920	.9976	.0240	-.0007
36	SST-ICS-0 950908I100	.0013	.2164	49.75	.0011	.0556	.0027
37	STD1-Blank 108444	-.0006	-.0029	-.1223	-.0008	-.0047	-.0005
38	STD1-Blank	.06506	.03449	1.7323	.09846	.03116	.02569
39	STD2	15.6831					
40	STD3						
41	STD3						
42	STD4						
43	STD5				12.5722		3.24939
44	STD6			52.7958			
45	STD7						
46	STD8		1.2588				
47	STD9					3.36779	
48	STD1-Blank 108444	.0001	.0059	.0084	-.0007	.0014	-.0000
49	MCVA 950728I901	.9861	2.483	.2212	.9971	.0349	.0006
50	MCVA 950728I901	.9932	2.496	-.0212	1.004	.0198	.0002
51	STD1-Blank	.06496	.03503	1.72846	.09783	.03113	.02553
52	STD3						
53	STD1-Blank 108444	-.0003	-.0075	-.0377	-.0003	-.0004	-.0001

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#	Sample Name	Ti	Tl	U	V	W	Y
54	MCVA 950728I901	.9645	2.442	.4270	.9792	.0380	.0016
55	SST-ICS-0 950908I100	.0004	.2128	51.36	.0014	.0555	.0038
56	STD1-Blank 108444	.0000	-.0071	-.0064	-.0000	-.0000	.0003
57	95-007941-C	.0034	.0126	.7738	.0055	.0089	.0027
58	95-007941-C1 @5	.0011	.0131	.0136	.0705	.0202	-.0002
59	95-007941-C1	.0045	.0856	.2242	.3671	.1557	.0004
60	95-007941-C2 @5	.0006	.0111	-.0703	.0556	.0190	-.0005
61	95-007941-C2	.0047	.0776	.2980	.2912	.1489	.0008
62	95-007942-C1 @5	-.0002	.0316	-.0726	.0002	.0220	-.0006
63	95-007942-C1	.0027	.1727	.6735	.0070	.1681	.0020
64	95-007942-C1 @5	.0000	.0279	-.0290	.0005	.0199	-.0004
65	95-007942-C2	.0025	.1649	.5620	.0072	.1647	.0020
66	MCVA 950728I901	.9938	2.499	.0954	1.004	.0205	-.0000
67	SST-ICS-0 950908I100	.0012	.2149	49.79	.0030	.0468	.0038
68	STD1-Blank 108444	.0005	.0012	.1250	.0008	.0032	.0000
69	Na @1000 PPM	.0010	.0149	.2368	.0019	.0080	.0006
70	95-007943-C1 @5	.0001	.0424	.0406	.0093	.0626	-.0002
71	95-007943-C1	.0023	.2319	.6082	.0478	.3298	.0020
72	95-007943-C2 @5	.0007	.0513	.1332	.0097	.0648	.0000
73	95-007943-C2	.0024	.2448	.5732	.0481	.3536	.0020
74	95-007944-C1 @5	-.0000	.0572	.1116	.0056	.5243	-.0003
75	95-007944-C1	.0002	.2954	.3767	.0282	2.697	.0000
76	95-007944-C2 @5	.0009	.0575	.2421	.0079	.4160	.0003
77	95-007944-C2	.0016	.2344	.5651	.0346	2.170	.0011
78	MCVA 950728I901	.9866	2.491	.2604	.9996	.0192	.0006
79	SST-ICS-0 950908I100	.0008	.2137	50.45	.0031	.0395	.0035
80	STD1-Blank 108444	-.0004	-.0005	-.0949	-.0005	-.0083	-.0007
81	95-007945-C1 @5	-.0011	.0383	-.2280	.0004	.1004	-.0014
82	95-007945-C1	.0003	.1995	.2979	.0124	.5893	-.0001
83	95-007945-C2 @5	-.0012	.0425	-.1433	-.0002	.1130	-.0019
84	95-007945-C2	.0002	.2455	.5859	.0106	.6381	-.0003
85	95-007946-C1 @5	-.0004	.0355	-.0460	-.0007	.0093	-.0010
86	95-007946-C1	.0010	.1414	.5578	.0031	.0883	.0004
87	95-007946-C2 @5	.0004	.0411	.2898	.0015	.0150	.0001
88	95-007946-C2	.0019	.1819	.7564	.0058	.1154	.0014
89	MCVA 950728I901	.9596	2.433	.2807	.9732	.0281	.0006
90	SST-ICS-0 950908I100	.0005	.2112	50.19	.0013	.0340	.0031
91	STD1-Blank 108444	-.0004	.0073	-.1625	-.0010	-.0092	-.0008
92	95-007947-C1 @5	-.0003	.0218	-.0309	.0001	.0107	-.0007
93	95-007947-C1	.0007	.1676	.4790	.0052	.0907	.0001
94	95-007947-C2 @5	-.0008	.0308	-.0805	-.0007	.0069	-.0010
95	95-007947-C2	.0006	.1570	.7448	.0053	.0879	-.0000
96	95-007948-C1 @5	-.0003	.0242	-.0211	.0001	.0179	-.0008
97	95-007948-C1	-.0000	.1421	.4966	.0049	.1121	-.0004
98	95-007948-C2 @5	-.0009	.0310	-.0147	-.0010	.0136	-.0014
99	95-007948-C2	-.0013	.1923	.7818	.0025	.1356	-.0021
100	MCVA 950728I901	.9051	2.308	.4670	.9147	.0453	.0019
101	MCVA 950728I901	.9120	2.337	.8363	.9262	.0445	.0035
102	MCVA 950728I901	.9600	2.440	.4541	.9717	.0390	.0018
103	SST-ICS-0 950908I100	.0014	.2147	50.74	.0035	.0530	.0046
104	MCVB 950911H901	.0012	.0166	Q8.540	.0000	Q.4896	.9697
105	SRM-1643c 103668	.0081	Q.0248	.2896	.0291	.0124	-.0011
106	CCV1 950713H901	.0016	1.947	.4248	.9632	.0173	.0019
107	STD1-Blank 108444	.0006	.0030	.2015	.0014	.0070	.0009

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	334	822.667
2	SPC-BLK 108444	.0002	.0023
3	SPC-STD 950831I101	151823	830
4	SPC-STD 950831I101	10.36	.0032
5	STD1-Blank	.03303	.0824
6	STD2	29.5957	26.2631
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank 108444	.0005	-.0007
15	MCVA 950728I901	1.018	2.057
16	MCVA 950728I901	1.025	2.061
17	OLD MCVB 950905H901	.0018	-.0078
18	NEW MCVB 950911H901	.0021	-.0078
19	SRM-1643c 103668	Q.0844	-.0017
20	CCV1 950713H901	1.034	-.0005
21	STD1-Blank 108444	-.0009	-.0002
22	95-007932-C3	-.0008	.0043
23	95-007932-C1 @5	.0118	-.0004
24	SST-ICS-0 950908I100	-.0292	10.14
25	Na @500 PPM	.0039	.0025
26	95-007932-C1	.0499	.0035
27	95-007932-C2 @5	.0116	-.0001
28	95-007931-C2	.0481	.0047
29	MCVA 950728I901	1.035	2.084
30	STD1-Blank 108444	-.0004	-.0008
31	95-007935-C1 @5	.0247	-.0012
32	95-007935-C1	.0970	.0037
33	95-007935-C2 @5	.0209	.0005
34	95-007935-C2	.0886	.0032
35	MCVA 950728I901	1.036	2.086
36	SST-ICS-0 950908I100	-.0275	10.10
37	STD1-Blank 108444	-.0012	.0005
38	STD1-Blank	.03386	.08136
39	STD2	30.6473	26.7409
40	STD3		
41	STD3		
42	STD4		
43	STD5		
44	STD6		
45	STD7		
46	STD8		
47	STD9		
48	STD1-Blank 108444	-.0009	-.0004
49	MCVA 950728I901	1.008	2.019
50	MCVA 950728I901	1.010	2.037
51	STD1-Blank	.0333	.081
52	STD3		
53	STD1-Blank 108444	.0003	-.0008

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#	Sample Name	Zn	Zr
54	MCVA 950728I901	.9881	1.979
55	SST-ICS-0 950908I100	-.0307	10.06
56	STD1-Blank 108444	.0004	.0004
57	95-007941-C	.0023	.0055
58	95-007941-C1 @5	.0016	.0007
59	95-007941-C1	.0044	.0009
60	95-007941-C2 @5	.0009	-.0013
61	95-007941-C2	.0047	.0019
62	95-007942-C1 @5	.0167	-.0011
63	95-007942-C1	.0017	.0048
64	95-007942-C1 @5	.0200	-.0006
65	95-007942-C2	.0023	.0038
66	MCVA 950728I901	1.020	2.042
67	SST-ICS-0 950908I100	-.0280	9.904
68	STD1-Blank 108444	.0008	.0021
69	Na @1000 PPM	.0070	.0016
70	95-007943-C1 @5	.0242	.0013
71	95-007943-C1	.0034	.0036
72	95-007943-C2 @5	.0245	.0004
73	95-007943-C2	.0036	.0041
74	95-007944-C1 @5	.0095	.0003
75	95-007944-C1	.0058	.0002
76	95-007944-C2 @5	.0061	.0010
77	95-007944-C2	.0023	.0024
78	MCVA 950728I901	1.023	2.029
79	SST-ICS-0 950908I100	-.0295	10.06
80	STD1-Blank 108444	-.0001	.0002
81	95-007945-C1 @5	.0007	-.0013
82	95-007945-C1	-.0011	-.0002
83	95-007945-C2 @5	.0019	-.0024
84	95-007945-C2	.0006	-.0010
85	95-007946-C1 @5	.0086	-.0014
86	95-007946-C1	-.0037	.0006
87	95-007946-C2 @5	.0117	.0004
88	95-007946-C2	-.0018	.0024
89	MCVA 950728I901	1.001	1.973
90	SST-ICS-0 950908I100	-.0299	9.911
91	STD1-Blank 108444	-.0001	.0001
92	95-007947-C1 @5	.0032	.0008
93	95-007947-C1	.0001	.0004
94	95-007947-C2 @5	.0025	-.0022
95	95-007947-C2	.0056	.0001
96	95-007948-C1 @5	.0009	-.0013
97	95-007948-C1	.0006	-.0010
98	95-007948-C2 @5	.0020	-.0025
99	95-007948-C2	.0023	-.0044
100	MCVA 950728I901	.9450	1.861
101	MCVA 950728I901	.9634	1.879
102	MCVA 950728I901	1.004	1.974
103	SST-ICS-0 950908I100	-.0288	9.931
104	MCVB 950911H901	.0016	-.0123
105	SRM-1643c 103668	Q.0862	.0005
106	CCV1 950713H901	1.034	.0019
107	STD1-Blank 108444	.0003	.0011

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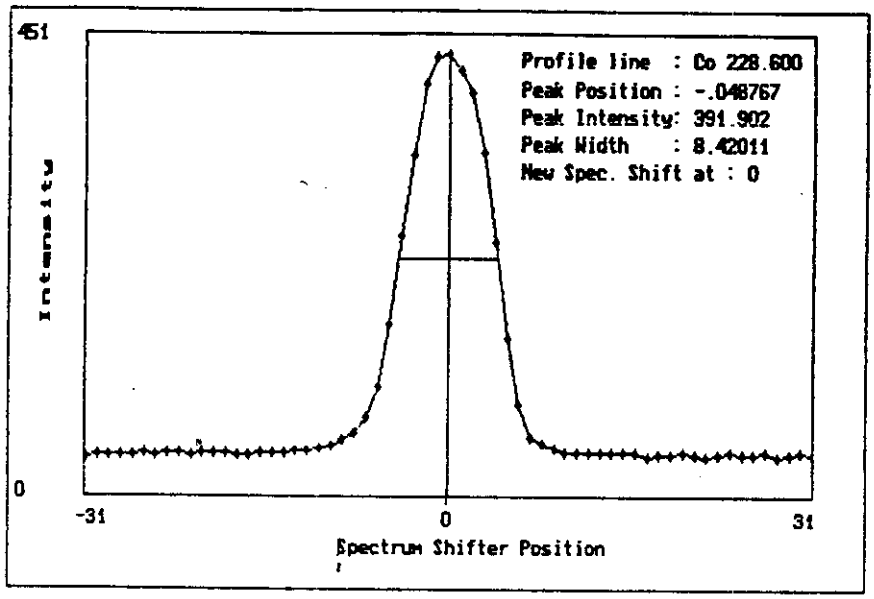

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/11/95 09:00:42
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6653	2113	1671	1102	308	175	1437
SDev	39	7	16	5	2	0	19
%RSD	.5922	.3488	.9546	.4566	.5624	.0000	1.289
#1	6663	2116	1653	1103	310	175	1451
#2	6687	2119	1684	1107	307	175	1444
#3	6610	2105	1675	1097	307	175	1416

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1311	439	6354	1440	468	456	1970
SDev	3	9	42	4	8	6	11
%RSD	.2642	2.088	.6550	.2504	1.728	1.221	.5348
#1	1313	441	6394	1443	463	457	1980
#2	1313	447	6358	1441	477	461	1971
#3	1307	429	6311	1436	463	450	1959

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	341	572	2196	999	421	2408	200
SDev	2	3	9	3	2	14	1
%RSD	.4484	.4625	.3891	.2891	.4948	.5668	.2892
#1	342	574	2204	1002	423	2423	199
#2	341	573	2197	997	419	2406	200
#3	339	569	2187	997	420	2396	200

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	813	418	3716	475	1315	13580	15460
SDev	6	1	18	2	19	40	77
%RSD	.6991	.2765	.4741	.3214	1.436	.2975	.4948
#1	815	417	3730	474	1331	13620	15530
#2	818	419	3721	475	1319	13540	15480
#3	807	417	3696	477	1294	13590	15380

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15380	2641	1555	4683	6950	141	10080
SDev	116	17	24	17	18	1	64
%RSD	.7547	.6602	1.523	.3554	.2558	.4104	.6389
#1	15480	2633	1528	4690	6944	141	10100
#2	15400	2661	1570	4695	6970	141	10130
#3	15250	2629	1568	4664	6936	140	10000

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2393	656	343	17520	994	311	259
SDev	17	3	2	49	4	2	1
%RSD	.6905	.4033	.6739	.2802	.4067	.4906	.3861
#1	2401	658	344	17570	996	313	260
#2	2404	657	344	17520	996	310	259
#3	2374	653	340	17470	989	311	258

Analysis Report

Mon 09-11-95 09:02:00 AM

Elem	Zn	Zr
Avge	334	823
SDev	10	3
%RSD	3.039	.3907
#1	325	825
#2	345	824
#3	332	819

Analysis Report

Mon 09-11-95 09:02:39 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/11/95 09:00:42
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0089	.0033	.0064	-.0003	.0001	-.0010
SDev	.0012	.0034	.0060	.0005	.0002	.0000	.0067
%RSD	51.30	37.98	180.2	7.368	63.28	5.919	639.6
#1	.0024	.0093	-.0034	.0065	-.0001	.0001	.0040
#2	.0034	.0121	.0082	.0069	-.0004	.0001	.0015
#3	.0011	.0054	.0052	.0060	-.0004	.0001	-.0086

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	.0001	.0174	.0017	.0008	-.0022	.0023
SDev	.0009	.0009	.0080	.0004	.0013	.0023	.0009
%RSD	18.45	799.6	46.03	21.93	159.9	105.3	41.79
#1	.0056	.0004	.0250	.0020	.0000	-.0019	.0032
#2	.0058	.0009	.0181	.0018	.0023	-.0000	.0023
#3	.0041	-.0009	.0091	.0013	.0001	-.0047	.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0012	.7615	.0020	.0023	.0015	.0005
SDev	.0002	.0006	.1549	.0008	.0008	.0058	.0001
%RSD	80.87	54.22	20.34	42.44	34.68	390.0	17.97
#1	.0005	.0016	.9065	.0029	.0032	.0079	.0004
#2	.0003	.0014	.7796	.0014	.0016	.0001	.0006
#3	.0000	.0004	.5983	.0016	.0020	-.0035	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0305	.0116	.0027	.0041	.0148	.0294
SDev	.0009	.0049	.0050	.0005	.0136	.0034	.0136
%RSD	81.21	15.91	42.61	19.90	328.1	22.83	46.27
#1	.0014	.0276	.0156	.0022	.0159	.0178	.0427
#2	.0019	.0361	.0132	.0026	.0073	.0112	.0299
#3	.0001	.0278	.0061	.0032	-.0108	.0155	.0155

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0164	-.0007	.0061	.2066	.0679	-.0003	.0176
SDev	.0113	.0047	.0127	.0038	.0110	.0001	.0057
%RSD	68.91	655.8	208.2	1.840	16.18	19.32	32.55
#1	.0267	-.0029	-.0085	.2076	.0620	-.0003	.0193
#2	.0181	.0047	.0138	.2097	.0806	-.0003	.0223
#3	.0043	-.0038	.0130	.2023	.0611	-.0004	.0112

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0005	.0036	.2129	.0019	-.0016	.0010
SDev	.0052	.0003	.0038	.0434	.0006	.0022	.0003

%RSD	201.6	58.61	106.3	20.37	29.52	136.3	27.54
#1	.0038	.0008	.0057	.2562	.0022	.0007	.0013
#2	.0071	.0007	.0060	.2132	.0022	-.0038	.0010
#3	-.0031	.0002	-.0008	.1695	.0012	-.0019	.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	.0023
SDev	.0007	.0003
%RSD	372.6	12.35
#1	-.0004	.0026
#2	.0009	.0022
#3	.0001	.0021

Analysis Report Mon 09-11-95 09:04:30 AM page 1

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/11/95 09:03:12
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6794	2154	1739	1144	312	176	1733
SDev	49	11	3	9	3	1	21
%RSD	.7247	.4965	.1725	.8072	.9262	.5682	1.212
#1	6836	2163	1739	1139	315	176	1733
#2	6807	2156	1742	1139	310	177	1754
#3	6740	2142	1736	1155	310	175	1712

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1266	460	6420	1455	492	23690	2218
SDev	7	12	49	8	7	169	9
%RSD	.5258	2.619	.7613	.5248	1.497	.7126	.4189
#1	1272	449	6465	1462	498	23510	2226
#2	1268	473	6427	1457	484	23730	2221
#3	1259	459	6368	1447	495	23850	2208

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	344	631	2214	1010	29150	2519	73960
SDev	2	3	12	8	680	17	216
%RSD	.5035	.5097	.5427	.8306	2.332	.6922	.2917
#1	345	633	2226	1015	28450	2539	73710
#2	345	632	2213	1014	29200	2507	74080
#3	342	627	2202	1000	29810	2511	74090

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	843	422	3747	489	1478	139200	15650
SDev	5	7	20	6	34	102	84
%RSD	.5436	1.659	.5331	1.234	2.324	.0735	.5337
#1	847	429	3770	488	1459	139100	15740
#2	838	422	3737	495	1518	139300	15630
#3	844	415	3734	483	1458	139300	15580

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15530	2743	1586	4706	7081	142	10790
SDev	108	18	25	31	28	1	90
%RSD	.6927	.6726	1.599	.6484	.3954	.7042	.8320
#1	15630	2727	1615	4731	7113	143	10860
#2	15550	2763	1575	4715	7061	142	10820
#3	15420	2738	1568	4672	7069	141	10690

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2421	666	373	17640	1006	323	262
SDev	12	5	1	99	5	5	2
%RSD	.4752	.6881	.3098	.5604	.5260	1.560	.5838
#1	2432	671	372	17730	1010	328	263
#2	2409	665	372	17650	1008	318	262
#3	2421	662	374	17540	1000	322	260

Elem	Zn	Zr
Avge	151800	830
SDev	387	6
%RSD	.2550	.6708
#1	151400	836
#2	152200	829
#3	151900	825

Analysis Report QC Standard Mon 09-11-95 09:48:50 AM page 2

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	2.535	2.521	19.53	-.0657	.5175	.0067
SDev	.0014	.004	.002	.04	.0100	.0019	.0024
%RSD	111.9	.1482	.0729	.2104	15.16	.3730	35.93
#1	.0028	2.538	2.521	19.53	-.0602	.5178	.0042
#2	.0008	2.535	2.523	19.56	-.0773	.5193	.0069
#3	.0001	2.531	2.519	19.48	-.0598	.5155	.0090
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0459	1.006	2.524	.1089	.9909	.0426	.0002
SDev	.0004	.003	.020	.0586	.0019	.0066	.0003
%RSD	.9822	.3038	.8065	53.76	.1925	15.38	167.2
#1	.0462	1.006	2.547	.1057	.9917	.0470	.0005
#2	.0453	1.009	2.508	.0521	.9924	.0457	-.0001
#3	.0461	1.003	2.517	.1691	.9888	.0351	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.057
SDev	.004	.006
%RSD	.3588	.2790
#1	1.022	2.058
#2	1.018	2.063
#3	1.014	2.051
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 09:53:06 AM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 09:51:47
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS RKS 9/11

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4869	25.03	2.584	1.989	.5112	.0938	24.61
SDev	.0021	.15	.017	.013	.0045	.0007	.15
%RSD	.4328	.5930	.6494	.6527	.8813	.7005	.6276
#1	.4848	24.89	2.581	1.981	.5069	.0931	24.52
#2	.4869	25.04	2.570	1.982	.5109	.0938	24.52
#3	.4890	25.18	2.603	2.004	.5159	.0944	24.79
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.12	.5055	-.0283	1.040	1.039	1.012	.0003
SDev	.11	.0064	.0064	.005	.004	.008	.0009
%RSD	.4409	1.271	22.75	.4360	.3582	.8064	339.0
#1	25.02	.4983	-.0231	1.038	1.035	1.003	.0013
#2	25.09	.5106	-.0262	1.036	1.040	1.012	.0001
#3	25.24	.5076	-.0355	1.045	1.042	1.020	-.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.64	26.79	.0052	1.956	26.74	.5144
SDev	.0003	.13	.44	.0013	.008	.14	.0022
%RSD	14.83	.6282	1.628	24.17	.3934	.5200	.4348
#1	.0025	20.52	27.02	.0063	1.952	26.62	.5126
#2	.0020	20.62	27.07	.0055	1.965	26.71	.5136
#3	.0019	20.77	26.29	.0039	1.951	26.89	.5169
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.039	24.72	.0096	1.071	.0650	2.650	-.0276
SDev	.008	.12	.0064	.006	.0125	.011	.0137
%RSD	.7254	.4734	66.81	.5353	19.22	.4063	49.66
#1	1.031	24.69	.0162	1.065	.0530	2.641	-.0120
#2	1.040	24.85	.0093	1.073	.0779	2.662	-.0328
#3	1.046	24.63	.0033	1.076	.0640	2.647	-.0379
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Mon 09-11-95 09:53:06 AM page

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	2.512	2.513	19.20	-.0792	.5168	-.0017
SDev	.0078	.018	.007	.06	.0309	.0043	.0063
%RSD	345.6	.7070	.2690	.3128	39.08	.8310	377.9
#1	.0032	2.524	2.509	19.15	-.0451	.5129	.0056
#2	.0012	2.491	2.510	19.20	-.1055	.5161	-.0046
#3	-.0112	2.519	2.521	19.27	-.0870	.5214	-.0059
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0494	1.007	2.527	.0230	.9915	.0372	.0003
SDev	.0011	.007	.014	.0821	.0056	.0040	.0003
%RSD	2.138	.6985	.5692	356.7	.5683	10.64	80.16
#1	.0498	1.000	2.518	.1128	.9866	.0416	.0006
#2	.0502	1.006	2.520	.0043	.9902	.0356	.0003
#3	.0482	1.014	2.543	-.0481	.9976	.0342	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.025	2.061
SDev	.004	.015
%RSD	.4046	.7389
#1	1.020	2.047
#2	1.027	2.057
#3	1.028	2.077
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 09:56:54 AM page 1

Method: ICP1 Sample Name: OLD MCVB 950905H901 Operator: DRS
Run Time: 09/11/95 09:55:35
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Fe, U, W-Low DJS 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	-.2178	-.0056	.0002	-.0002	.0002	-.0116
SDev	.0004	.0078	.0089	.0019	.0002	.0000	.0021
%RSD	13.06	3.559	160.7	1275.	103.6	21.23	17.87
#1	-.0034	-.2216	-.0156	-.0014	-.0005	.0002	-.0129
#2	-.0029	-.2230	-.0029	.0023	-.0002	.0002	-.0092
#3	-.0027	-.2089	.0017	-.0005	.0000	.0001	-.0128
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0004	1.945	.0008	.0011	.0058	1.983
SDev	.0006	.0007	.012	.0012	.0009	.0024	.015
%RSD	5.495	195.7	.6090	152.5	82.62	42.34	.7322
#1	.0103	-.0004	1.945	-.0000	.0004	.0084	1.993
#2	.0103	.0006	1.957	.0002	.0021	.0052	1.990
#3	.0113	.0010	1.933	.0021	.0008	.0036	1.966
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.972	.0008	-.2874	1.990	-.0001	.0700	.0001
SDev	.014	.0008	.1520	.009	.0012	.0129	.0001
%RSD	.7181	108.7	52.88	.4759	1252.	18.48	81.58
#1	1.981	.0012	-.4200	1.996	-.0013	.0847	.0000
#2	1.978	.0012	-.3205	1.994	.0012	.0645	.0001
#3	1.955	-.0002	-.1216	1.979	-.0002	.0607	.0001
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0222	1.944	.0066	-.0222	.0363	1.848
SDev	.0014	.0228	.010	.0011	.0140	.0067	.021
%RSD	61.18	102.8	.4974	16.09	63.03	18.40	1.111
#1	-.0038	-.0426	1.951	.0079	-.0063	.0287	1.872
#2	-.0022	-.0263	1.949	.0059	-.0275	.0389	1.837
#3	-.0010	.0024	1.933	.0062	-.0328	.0412	1.836
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.941	-.0132	-.0001	-.1334	1.949	-.0001	Q1.772
SDev	.015	.0087	.0103	.0093	.017	.0001	.003
%RSD	.7875	66.35	14110.	7.007	.8961	86.21	.1659
#1	1.952	-.0103	-.0022	-.1235	1.936	-.0001	Q1.776
#2	1.948	-.0230	-.0092	-.1345	1.941	-.0001	Q1.770
#3	1.924	-.0063	.0111	-.1421	1.969	-.0000	Q1.772
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.054	-.0003	-.0156	Q8.347	-.0031	Q1.150	.9699
SDev	.037	.0005	.0029	.066	.0005	.012	.0051
%RSD	.7387	150.3	18.53	.7853	16.88	1.067	.5242
#1	5.056	-.0004	-.0189	Q8.311	-.0036	Q1.161	.9729
#2	5.090	-.0007	-.0135	Q8.306	-.0033	Q1.153	.9729
#3	5.015	.0002	-.0144	Q8.422	-.0025	Q1.137	.9641
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0018	-.0078
SDev	.0005	.0008
%RSD	27.73	10.76
#1	.0022	-.0069
#2	.0013	-.0086
#3	.0021	-.0080
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Mon 09-11-95 10:00:33 AM page 1

Method: ICP1 Sample Name: NEW MCVB 950911H901 Operator: DRS
Run Time: 09/11/95 09:59:13
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

U,W-low N/A for D.C. DRS 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	-.2035	.0027	-.0006	.0001	.0002	-.0119
SDev	.0010	.0037	.0027	.0009	.0001	.0000	.0078
%RSD	120.0	1.814	100.2	143.7	93.54	16.46	65.24
#1	.0009	-.2038	.0059	-.0003	.0001	.0002	-.0185
#2	-.0002	-.2070	.0009	.0000	.0002	.0002	-.0033
#3	.0018	-.1997	.0014	-.0017	.0000	.0003	-.0139
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0103	.0015	1.955	.0028	.0021	-.0046	1.965
SDev	.0014	.0001	.004	.0008	.0020	.0023	.009
%RSD	13.96	9.546	.2136	27.20	96.10	48.86	.4569
#1	.0118	.0015	1.953	.0037	.0007	-.0020	1.960
#2	.0089	.0016	1.960	.0022	.0012	-.0062	1.975
#3	.0102	.0014	1.953	.0026	.0044	-.0057	1.960
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.956	.0018	.1824	1.983	.0014	.0912	.0004
SDev	.010	.0006	.1410	.010	.0011	.0081	.0001
%RSD	.4959	35.37	77.32	.5202	75.54	8.844	28.23
#1	1.951	.0017	.1768	1.977	.0026	.1001	.0004
#2	1.967	.0012	.0442	1.995	.0012	.0890	.0002
#3	1.950	.0024	.3261	1.978	.0005	.0844	.0004
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0144	1.936	.0087	.0067	.0571	1.873
SDev	.0006	.0124	.008	.0010	.0054	.0044	.017
%RSD	440.8	85.98	.3897	11.39	81.53	7.793	.8923
#1	.0005	.0280	1.933	.0098	.0019	.0623	1.854
#2	-.0005	.0116	1.944	.0079	.0126	.0544	1.885
#3	.0004	.0037	1.930	.0086	.0055	.0547	1.880
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.950	-.0086	.0182	-.2043	2.024	.0001	1.816
SDev	.007	.0010	.0151	.0040	.018	.0001	.010
%RSD	.3633	11.72	83.11	1.968	.8867	82.89	.5487
#1	1.949	-.0097	.0265	-.2025	2.014	.0001	1.827
#2	1.957	-.0080	.0007	-.2089	2.013	.0000	1.815
#3	1.943	-.0080	.0273	-.2015	2.045	.0001	1.807
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.064	.0010	-.0026	Q8.459	-.0006	Q.5157	.9683
SDev	.016	.0003	.0069	.068	.0005	.0128	.0043
%RSD	.3190	31.52	262.2	.8011	85.95	2.485	.4487
#1	5.057	.0011	-.0105	Q8.509	-.0002	Q.5141	.9670
#2	5.082	.0007	.0023	Q8.485	-.0012	Q.5292	.9731
#3	5.052	.0013	.0004	Q8.382	-.0005	Q.5038	.9647
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0021	-.0078
SDev	.0001	.0004
%RSD	4.735	4.944
#1	.0022	-.0077
#2	.0020	-.0082
#3	.0020	-.0074
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/11/95 10:03:27
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0001	Q.0968	.0826	Q.1082	.0489	.0220	-.0023
SDev	.0011	.0005	.0004	.0018	.0001	.0001	.0094
%RSD	885.2	.5319	.4931	1.685	.2928	.5986	408.3
#1	Q-.0002	Q.0974	.0822	Q.1062	.0488	.0219	-.0047
#2	Q.0010	Q.0965	.0826	Q.1090	.0488	.0219	.0081
#3	Q-.0012	Q.0965	.0830	Q.1096	.0490	.0221	-.0103
Errors	QC Fail	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.66	.0125	-.0041	.0234	Q.0197	Q.0154	-.0016
SDev	.19	.0012	.0056	.0011	.0019	.0001	.0009
%RSD	.5353	9.451	138.5	4.687	9.393	.7519	54.55
#1	35.56	.0131	-.0055	.0239	Q.0218	Q.0154	-.0016
#2	35.53	Q.0111	.0022	.0242	.0187	Q.0155	-.0007
#3	35.88	.0132	-.0088	Q.0222	.0185	Q.0153	-.0025
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	Q.1165	Q2.006	.0036	Q.0099	Q9.973	.0350
SDev	.0004	.0002	.077	.0016	.0005	.074	.0004
%RSD	58.68	.1554	3.817	43.90	5.469	.7420	1.113
#1	.0006	Q.1165	Q2.050	.0045	Q.0093	Q9.944	.0347
#2	.0011	Q.1163	Q2.050	.0046	Q.0104	Q9.918	.0348
#3	.0003	Q.1167	Q1.918	.0018	Q.0100	Q10.06	.0354
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1032	Q11.19	.0030	.0625	.0201	Q.0316	-.0234
SDev	.0014	.19	.0061	.0019	.0098	.0059	.0183
%RSD	1.376	1.715	202.2	3.077	48.88	18.78	78.03
#1	Q.1019	Q11.18	.0076	.0647	.0307	Q.0297	-.0266
#2	.1047	Q11.00	.0055	.0617	.0184	Q.0382	-.0038
#3	.1028	Q11.38	-.0040	.0611	.0113	Q.0268	-.0399
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

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Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0120	-.0199	Q.0080	-.3143	-.0319	.2629	-.0006
SDev	.0065	.0026	.0060	.0074	.0256	.0026	.0044
%RSD	53.73	13.16	75.23	2.341	80.38	.9772	751.4
#1	-.0113	-.0197	Q.0049	-.3119	-.0442	.2623	-.0009
#2	-.0060	-.0174	Q.0150	-.3085	-.0024	Q.2606	.0040
#3	-.0189	-.0227	Q.0042	-.3226	-.0491	.2657	-.0048
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0075	.0050	.0963	Q.0275	.0069	-.0019
SDev	.0016	.0001	.0028	.1184	.0005	.0048	.0005
%RSD	50.05	1.511	55.66	122.9	1.689	70.20	24.50
#1	.0015	.0074	.0035	.1017	Q.0275	.0028	-.0016
#2	.0047	.0076	.0082	.2120	Q.0280	.0056	-.0017
#3	.0035	.0074	.0033	-.0247	Q.0271	.0122	-.0025
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0844	-.0017
SDev	.0015	.0007
%RSD	1.751	42.72
#1	Q.0852	-.0015
#2	Q.0827	-.0011
#3	Q.0854	-.0025
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

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Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/11/95 10:07:05
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	1.893	2.011	1.925	.9966	.9653	1.906
SDev	.0003	.005	.015	.008	.0041	.0043	.011
%RSD	27.17	.2827	.7311	.4172	.4108	.4486	.5680
#1	.0015	1.892	2.012	1.922	.9928	.9620	1.906
#2	.0013	1.887	1.996	1.919	.9961	.9637	1.895
#3	.0009	1.898	2.025	1.935	1.001	.9702	1.916

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.933	.9873	.0106	1.048	.5259	2.021	.0009
SDev	.005	.0044	.0007	.004	.0016	.009	.0003
%RSD	.2698	.4444	6.940	.4071	.3131	.4696	31.09
#1	1.932	.9831	.0103	1.045	.5240	2.011	.0012
#2	1.928	.9869	.0114	1.046	.5268	2.024	.0009
#3	1.938	.9919	.0101	1.053	.5269	2.029	.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	2.029	4.913	.0015	1.876	2.107	1.021
SDev	.0002	.007	.097	.0010	.007	.004	.004
%RSD	27.13	.3324	1.977	63.34	.3701	.1874	.3565
#1	.0009	2.026	4.985	.0025	1.869	2.112	1.017
#2	.0006	2.025	4.803	.0015	1.875	2.107	1.020
#3	.0006	2.037	4.952	.0005	1.883	2.104	1.024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.017	7.581	.0080	2.114	4.859	2.098	.0166
SDev	.009	.050	.0040	.010	.039	.008	.0050
%RSD	.4527	.6535	49.45	.4758	.7948	.3688	29.92
#1	2.008	7.589	.0114	2.105	4.900	2.091	.0222
#2	2.017	7.528	.0091	2.112	4.825	2.096	.0152
#3	2.027	7.626	.0036	2.125	4.850	2.106	.0125

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0078	-.0111	1.958	4.549	.0368	2.022	-.0056
SDev	.0044	.0027	.012	.012	.0213	.010	.0043
%RSD	57.33	24.18	.6355	.2687	57.86	.4969	77.77
#1	.0124	-.0089	1.962	4.540	.0485	2.012	-.0026
#2	.0075	-.0141	1.944	4.545	.0122	2.021	-.0106
#3	.0035	-.0103	1.968	4.563	.0496	2.032	-.0036

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0093	.0003	1.917	.0829	.9575	.0119	.0004
SDev	.0027	.0002	.019	.0088	.0037	.0018	.0002

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%RSD	29.60	56.43	.9881	10.64	.3905	14.99	41.27
#1	.0124	.0006	1.905	.0907	.9548	.0108	.0003
#2	.0077	.0002	1.907	.0733	.9560	.0109	.0006
#3	.0076	.0003	1.939	.0846	.9618	.0139	.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	-.0005
SDev	.002	.0001
%RSD	.1487	20.12
#1	1.032	-.0006
#2	1.034	-.0004
#3	1.035	-.0006

Analysis Report Mon 09-11-95 10:20:35 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 10:19:16
Comment: (BY-108 WATER LEACH) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0015	.0051	-.0004	.0001	-.0000	.0055
SDev	.0005	.0043	.0046	.0008	.0003	.0000	.0061
%RSD	308.8	291.8	88.93	187.7	204.7	133.2	109.6
#1	.0004	.0058	.0104	.0005	.0003	.0000	.0104
#2	.0005	.0013	.0026	-.0007	.0002	-.0000	-.0013
#3	-.0004	-.0027	.0024	-.0010	-.0002	-.0001	.0075

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0002	-.0038	-.0013	.0004	-.0008	-.0005
SDev	.0020	.0006	.0081	.0008	.0026	.0016	.0010
%RSD	712.9	249.1	214.1	57.39	600.7	201.2	210.5
#1	.0017	.0008	.0045	-.0005	.0021	.0006	.0003
#2	-.0002	-.0003	-.0042	-.0020	.0017	-.0004	-.0002
#3	-.0023	.0002	-.0117	-.0015	-.0025	-.0025	-.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0002	.0442	.0005	-.0004	.0034	-.0003
SDev	.0003	.0011	.1999	.0023	.0009	.0122	.0001
%RSD	143.3	551.7	452.1	442.4	264.1	356.2	46.36
#1	.0001	.0010	.2542	.0030	-.0000	.0158	-.0003
#2	-.0002	-.0006	.0221	.0000	.0004	.0030	-.0002
#3	-.0005	-.0011	-.1437	-.0015	-.0014	-.0086	-.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0095	-.0006	.0021	-.0000	.0047	.0013
SDev	.0015	.0046	.0035	.0013	.0104	.0030	.0144
%RSD	195.6	48.71	598.5	63.22	29520.	64.15	1096.
#1	.0008	-.0069	.0027	.0018	-.0112	.0072	.0179
#2	-.0021	-.0067	-.0002	.0036	.0095	.0055	-.0057
#3	-.0011	-.0148	-.0042	.0009	.0016	.0014	-.0082

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0021	-.0028	-.0104	-.0182	-.0000	.0046
SDev	.0051	.0069	.0047	.0097	.0386	.0001	.0075
%RSD	301.4	327.1	166.3	93.47	212.5	358.8	162.4
#1	.0075	.0069	-.0035	.0004	.0202	.0001	.0112
#2	-.0018	.0051	.0022	-.0131	-.0176	-.0001	.0063
#3	-.0007	-.0058	-.0071	-.0185	-.0570	-.0001	-.0036

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0001	.0043	-.0394	.0001	-.0040	.0000
SDev	.0037	.0004	.0061	.0834	.0006	.0067	.0004

%RSD	563.3	549.3	144.2	211.5	545.5	166.3	1673.
#1	.0039	.0005	.0031	.0561	.0007	.0028	.0005
#2	.0013	-.0000	.0109	-.0767	.0001	-.0105	-.0004
#3	-.0033	-.0003	-.0012	-.0978	-.0005	-.0044	-.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0009	-.0002
SDev	.0005	.0007
%RSD	60.47	368.0
#1	-.0012	.0006
#2	-.0012	-.0004
#3	-.0003	-.0008

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Method: ICP1 Sample Name: 95-007932-C3 Operator: DRS
Run Time: 09/11/95 10:21:33
Comment: METHOD BLANK (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.0286	.0082	.4655	.0013	.0001	.0148
SDev	.0003	.0026	.0095	.0067	.0001	.0000	.0052
%RSD	6.110	9.045	116.0	1.432	9.560	24.54	34.83
#1	.0057	.0311	.0135	.4581	.0014	.0001	.0153
#2	.0051	.0289	-.0028	.4674	.0013	.0001	.0197
#3	.0057	.0259	.0138	.4711	.0012	.0001	.0094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0314	.0024	.0435	.0037	.0020	.0037	.0059
SDev	.0003	.0005	.0032	.0005	.0031	.0014	.0004
%RSD	1.003	21.70	7.241	13.00	150.3	36.72	7.417
#1	-.0313	.0026	.0468	.0041	.0006	.0030	.0063
#2	-.0312	.0027	.0433	.0032	.0056	.0053	.0055
#3	-.0318	.0018	.0405	.0039	-.0000	.0029	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0086	1.398	.0119	.0050	.0228	.0003
SDev	.0002	.0007	.144	.0006	.0009	.0050	.0001
%RSD	10.39	7.624	10.27	4.858	18.93	21.85	31.14
#1	.0017	.0091	1.564	.0126	.0046	.0273	.0002
#2	.0014	.0079	1.315	.0117	.0043	.0174	.0004
#3	.0015	.0088	1.315	.0115	.0060	.0237	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.7473	.0391	.0055	.0070	.0293	.1048
SDev	.0006	.0118	.0041	.0003	.0046	.0064	.0122
%RSD	50.12	1.585	10.49	5.704	65.64	21.79	11.65
#1	.0019	.7405	.0434	.0052	.0064	.0349	.1189
#2	.0008	.7610	.0352	.0055	.0027	.0306	.0971
#3	.0010	.7405	.0386	.0058	.0118	.0223	.0985

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0485	.0116	.0080	.0575	.1410	.0006	.0199
SDev	.0037	.0044	.0029	.0073	.0284	.0001	.0028
%RSD	7.571	38.19	36.48	12.74	20.11	11.96	13.92
#1	.0523	.0067	.0061	.0656	.1723	.0007	.0212
#2	.0482	.0127	.0114	.0513	.1170	.0005	.0168
#3	.0450	.0154	.0066	.0557	.1337	.0005	.0219

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0027	.0027	.6104	.0044	.0098	.0025
SDev	.0026	.0004	.0093	.0470	.0004	.0049	.0002

%RSD	350.9	15.72	338.5	7.706	8.709	49.92	6.346
#1	.0008	.0031	-.0015	.5987	.0047	.0042	.0026
#2	.0033	.0026	.0134	.5703	.0040	.0135	.0023
#3	-.0018	.0023	-.0036	.6621	.0045	.0118	.0025

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0008	.0043
SDev	.0002	.0003
%RSD	18.27	6.161
#1	-.0009	.0045
#2	-.0009	.0040
#3	-.0007	.0043

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Method: ICP1 Sample Name: 95-007932-C1 @5 Operator: DRS
Run Time: 09/11/95 10:24:47
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	78.81	.0677	.1609	-.0000	.0006	.0103
SDev	.0007	.30	.0053	.0005	.0002	.0000	.0021
%RSD	868.0	.3744	7.816	.2843	121600.	4.803	20.52
#1	-.0007	79.14	.0656	.1606	-.0000	.0006	.0089
#2	.0002	78.71	.0738	.1608	-.0002	.0006	.0128
#3	.0007	78.58	.0638	.1615	.0002	.0006	.0094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0342	.0012	-.0009	.0192	.6400	.0063	.0002
SDev	.0002	.0007	.0057	.0011	.0039	.0010	.0004
%RSD	.5132	58.02	633.4	5.856	.6074	15.60	185.6
#1	-.0340	.0018	-.0065	.0179	.6444	.0052	-.0002
#2	-.0341	.0013	-.0012	.0197	.6371	.0064	.0002
#3	-.0344	.0005	.0050	.0200	.6385	.0072	.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.2714	6.173	.0014	.0030	.0072	.0004
SDev	.0001	.0004	.072	.0006	.0002	.0038	.0002
%RSD	1567.	.1666	1.171	47.86	6.959	52.58	46.41
#1	-.0000	.2714	6.223	.0010	.0032	.0052	.0002
#2	-.0001	.2719	6.206	.0009	.0028	.0116	.0006
#3	.0001	.2710	6.090	.0021	.0028	.0049	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0311	407.0	.0033	.7024	1.056	.1521	-.0007
SDev	.0013	3.0	.0017	.0062	.037	.0031	.0113
%RSD	4.117	.7364	51.50	.8755	3.479	2.028	1564.
#1	.0296	410.2	.0033	.6958	1.083	.1524	-.0019
#2	.0318	406.4	.0016	.7080	1.070	.1550	-.0114
#3	.0318	404.3	.0051	.7034	1.014	.1489	.0111

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	-.0106	-.0040	.1743	.0373	.0004	-.0142
SDev	.0037	.0038	.0064	.0071	.0192	.0000	.0053
%RSD	89.45	35.95	159.2	4.069	51.60	1.370	37.31
#1	.0020	-.0135	.0009	.1824	.0178	.0004	-.0179
#2	.0020	-.0120	-.0113	.1700	.0562	.0004	-.0166
#3	.0084	-.0063	-.0018	.1703	.0378	.0004	-.0081

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	.0002	.1677	-.0155	.0002	.1426	.0000
SDev	.0043	.0001	.0018	.0567	.0003	.0022	.0001

%RSD	104.0	47.79	1.060	365.7	190.0	1.509	1842.
#1	.0050	.0001	.1657	-.0638	-.0002	.1407	-.0001
#2	.0078	.0002	.1689	-.0297	.0002	.1421	-.0001
#3	-.0006	.0003	.1686	.0470	.0005	.1449	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0118	-.0004
SDev	.0003	.0003
%RSD	2.679	60.93
#1	.0120	-.0005
#2	.0115	-.0007
#3	.0120	-.0002

Analysis Report Mon 09-11-95 10:29:47 AM page 1

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 10:28:27
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0097	98.29	.1017	-.0033	-.0001	.0006	.0553
SDev	.0006	.16	.0045	.0006	.0002	.0000	.0043
%RSD	6.352	.1642	4.432	17.01	225.7	1.634	7.703
#1	-.0091	98.35	.1037	-.0028	-.0000	.0006	.0570
#2	-.0103	98.41	.0966	-.0031	-.0003	.0006	.0505
#3	-.0097	98.11	.1049	-.0039	.0001	.0006	.0585

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0649	.0109	-.1449	.0033	.0359	-.0137	-.0037
SDev	.0001	.0022	.0011	.0008	.0003	.0003	.0005
%RSD	.2180	20.31	.7681	25.64	.7609	2.124	13.73
#1	.0650	.0084	-.1445	.0024	.0356	-.0140	-.0034
#2	.0648	.0117	-.1461	.0041	.0360	-.0135	-.0043
#3	.0650	.0127	-.1440	.0033	.0361	-.0135	-.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	20.25	-.0553	.0058	.0024	.2746	.0013
SDev	.0002	.04	.0690	.0003	.0008	.0043	.0003
%RSD	89.41	.2038	124.9	5.073	34.89	1.555	21.41
#1	.0002	20.26	-.0774	.0061	.0014	.2795	.0015
#2	.0000	20.29	-.1105	.0057	.0028	.2723	.0010
#3	.0004	20.21	.0221	.0055	.0028	.2720	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	.0199	-.0232	52.70	.0183	.2023	-.4124
SDev	.0015	.0108	.0026	.06	.0116	.0066	.0129
%RSD	24.13	54.28	11.33	.1097	63.47	3.290	3.135
#1	.0046	.0322	-.0203	52.72	.0314	.2087	-.4242
#2	.0075	.0156	-.0255	52.75	.0092	.1954	-.4146
#3	.0069	.0120	-.0237	52.64	.0143	.2026	-.3986

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0433	-.0147	.0188	-.0053	.0292	-.0002	-.0057
SDev	.0034	.0065	.0117	.0072	.0335	.0000	.0041
%RSD	7.837	44.23	62.47	134.2	114.8	4.622	71.61
#1	-.0442	-.0103	.0192	.0019	.0405	-.0002	-.0099
#2	-.0461	-.0221	.0303	-.0124	-.0085	-.0002	-.0053
#3	-.0395	-.0116	.0069	-.0055	.0556	-.0002	-.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7017	.0015	.2233	49.99	.0014	.0457	.0031
SDev	.0156	.0003	.0055	.11	.0003	.0123	.0004

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%RSD	2.221	17.75	2.448	.2242	21.00	26.96	11.63
#1	.7197	.0017	.2253	49.92	.0014	.0427	.0031
#2	.6930	.0016	.2275	50.12	.0012	.0592	.0027
#3	.6925	.0012	.2171	49.93	.0018	.0351	.0034

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0292	10.14
SDev	.0020	.02
%RSD	6.920	.2363
#1	-.0272	10.15
#2	-.0291	10.16
#3	-.0312	10.12

Analysis Report Mon 09-11-95 10:33:53 AM page 1

Method: ICP1 Sample Name: Na @500 PPM Operator: DRS
Run Time: 09/11/95 10:32:34
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	.0376	-.0061	.0826	-.0006	-.0001	-.0106
SDev	.0005	.0021	.0072	.0009	.0002	.0000	.0020
%RSD	17.83	5.529	117.4	1.121	30.50	15.76	19.01
#1	-.0022	.0388	.0021	.0835	-.0004	-.0001	-.0109
#2	-.0030	.0352	-.0113	.0827	-.0008	-.0001	-.0085
#3	-.0031	.0388	-.0091	.0817	-.0006	-.0001	-.0125

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2578	-.0003	-.0194	-.0027	.0004	-.0029	-.0026
SDev	.0005	.0011	.0048	.0015	.0009	.0020	.0009
%RSD	.1976	411.0	24.95	56.58	246.2	67.53	33.63
#1	.2584	-.0011	-.0139	-.0009	-.0003	-.0007	-.0017
#2	.2576	-.0008	-.0214	-.0037	.0014	-.0043	-.0026
#3	.2575	.0010	-.0229	-.0034	.0000	-.0038	-.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0030	-.5968	-.0039	-.0013	-.0050	-.0002
SDev	.0001	.0006	.1863	.0013	.0005	.0052	.0002
%RSD	11.47	19.34	31.22	33.99	40.99	103.8	71.51
#1	-.0009	.0037	-.3924	-.0024	-.0018	.0009	-.0000
#2	-.0010	.0026	-.6410	-.0047	-.0007	-.0089	-.0003
#3	-.0011	.0028	-.7571	-.0047	-.0014	-.0071	-.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	491.9	-.0132	.0042	-.0041	-.0132	-.0419
SDev	.0004	6.6	.0060	.0009	.0202	.0099	.0110
%RSD	20.69	1.341	46.01	22.63	493.3	74.74	26.23
#1	-.0019	484.8	-.0071	.0036	.0166	-.0033	-.0317
#2	-.0015	492.9	-.0192	.0053	-.0051	-.0132	-.0405
#3	-.0023	497.9	-.0132	.0037	-.0238	-.0231	-.0536

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0178	.0028	.0033	1.099	-.0648	.0038	-.0119
SDev	.0078	.0020	.0089	.007	.0221	.0001	.0007
%RSD	43.56	71.44	267.5	.6692	34.11	1.558	5.551
#1	-.0090	.0014	.0122	1.094	-.0405	.0038	-.0127
#2	-.0210	.0051	-.0057	1.096	-.0702	.0037	-.0114
#3	-.0234	.0019	.0036	1.108	-.0836	.0037	-.0116

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0045	-.0010	-.0034	-.2615	-.0019	-.0104	-.0010
SDev	.0018	.0002	.0008	.1482	.0005	.0021	.0004

%RSD	40.17	21.44	22.63	56.66	25.76	20.73	39.64
#1	-.0052	-.0008	-.0026	-.1212	-.0014	-.0102	-.0006
#2	-.0025	-.0012	-.0041	-.2468	-.0023	-.0083	-.0009
#3	-.0059	-.0011	-.0036	-.4165	-.0022	-.0126	-.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0039	.0025
SDev	.0006	.0009
%RSD	14.23	38.26
#1	.0033	.0036
#2	.0039	.0018
#3	.0044	.0021

Analysis Report Mon 09-11-95 10:37:41 AM page 1

Method: ICP1 Sample Name: 95-007932-C1 Operator: DRS
Run Time: 09/11/95 10:36:22
Comment: SEG 2 DRAINABLE LIQUID (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	391.5	.3330	.7797	.0008	.0033	.0485
SDev	.0002	2.3	.0070	.0050	.0000	.0000	.0057
%RSD	3.875	.5795	2.108	.6437	.1178	.1233	11.66
#1	.0053	393.4	.3295	.7854	.0008	.0033	.0548
#2	.0052	392.1	.3284	.7776	.0008	.0033	.0469
#3	.0056	389.0	.3410	.7761	.0008	.0033	.0439

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0215	.0032	.0251	.0967	3.124	.0429	.0042
SDev	.0006	.0019	.0031	.0009	.026	.0012	.0007
%RSD	2.936	57.81	12.20	.8929	.8436	2.899	17.13
#1	-.0218	.0035	.0266	.0971	3.137	.0437	.0041
#2	-.0218	.0049	.0216	.0957	3.141	.0414	.0035
#3	-.0207	.0012	.0272	.0972	3.093	.0435	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	1.308	29.40	.0095	.0129	.0123	.0032
SDev	.0002	.008	.14	.0013	.0013	.0053	.0001
%RSD	10.78	.5901	.4884	13.65	10.42	43.06	4.117
#1	.0015	1.315	29.32	.0103	.0114	.0152	.0031
#2	.0013	1.310	29.32	.0080	.0135	.0062	.0031
#3	.0016	1.300	29.57	.0101	.0138	.0155	.0033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1618	1834.	.0251	3.430	5.450	.4806	.0799
SDev	.0033	5.	.0020	.018	.072	.0276	.0069
%RSD	2.022	.2507	8.089	.5150	1.321	5.731	8.652
#1	.1642	1838.	.0244	3.447	5.502	.4552	.0726
#2	.1632	1836.	.0235	3.431	5.479	.4768	.0809
#3	.1581	1829.	.0274	3.411	5.367	.5099	.0863

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0514	-.0667	-.0011	.9492	.2695	.0011	-.0429
SDev	.0036	.0015	.0100	.0062	.0157	.0001	.0058
%RSD	6.991	2.296	919.3	.6553	5.840	12.19	13.43
#1	.0481	-.0672	-.0007	.9527	.2557	.0010	-.0363
#2	.0510	-.0650	.0087	.9529	.2662	.0010	-.0472
#3	.0552	-.0680	-.0113	.9420	.2866	.0013	-.0451

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0016	.8274	.3422	.0032	.7400	.0015
SDev	.0016	.0002	.0042	.0323	.0003	.0156	.0003

%RSD	52.14	9.957	.5055	9.433	11.10	2.110	19.10
#1	.0051	.0018	.8301	.3178	.0034	.7441	.0015
#2	.0023	.0015	.8296	.3300	.0028	.7532	.0012
#3	.0021	.0015	.8226	.3788	.0033	.7228	.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0499	.0035
SDev	.0033	.0004
%RSD	6.686	12.46
#1	.0468	.0037
#2	.0495	.0030
#3	.0534	.0037

Analysis Report Mon 09-11-95 10:41:58 AM page 1

Method: ICP1 Sample Name: 95-007932-C2 @5 Operator: DRS
Run Time: 09/11/95 10:40:39
Comment: SEG 2 DRAINABLE DUP @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	75.12	.0675	.1132	.0001	.0006	.0152
SDev	.0005	.27	.0066	.0017	.0000	.0000	.0057
%RSD	289.4	.3536	9.824	1.506	2.800	3.394	37.50
#1	.0000	74.89	.0746	.1121	.0001	.0006	.0178
#2	-.0002	75.41	.0615	.1151	.0001	.0006	.0191
#3	.0007	75.07	.0664	.1122	.0001	.0006	.0087

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0317	.0005	-.0067	.0179	.6078	.0063	-.0002
SDev	.0002	.0009	.0080	.0017	.0076	.0001	.0004
%RSD	.7326	192.7	119.3	9.474	1.246	1.292	226.7
#1	-.0314	.0011	-.0045	.0175	.6016	.0064	-.0001
#2	-.0317	-.0006	-.0157	.0164	.6162	.0063	-.0006
#3	-.0319	.0009	-.0001	.0197	.6055	.0062	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.2586	5.880	.0008	.0019	-.0015	.0004
SDev	.0001	.0007	.010	.0011	.0010	.0034	.0001
%RSD	264.0	.2566	.1628	138.6	53.94	224.8	23.91
#1	-.0001	.2582	5.874	.0006	.0025	-.0044	.0005
#2	-.0002	.2584	5.874	-.0002	.0007	.0023	.0005
#3	.0001	.2594	5.891	.0021	.0025	-.0025	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0284	389.5	.0010	.6766	1.012	.1549	-.0042
SDev	.0013	2.1	.0018	.0053	.023	.0050	.0085
%RSD	4.736	.5468	179.3	.7820	2.234	3.205	202.6
#1	.0270	388.1	-.0003	.6780	1.002	.1601	-.0025
#2	.0284	392.0	.0030	.6810	.9956	.1544	-.0134
#3	.0297	388.5	.0003	.6707	1.037	.1502	.0033

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	-.0149	-.0017	.1008	.0183	.0004	-.0173
SDev	.0053	.0032	.0074	.0044	.0192	.0000	.0022
%RSD	121.1	21.50	430.8	4.324	104.9	2.030	12.99
#1	.0053	-.0113	-.0101	.1041	.0171	.0004	-.0150
#2	-.0013	-.0160	.0041	.0959	.0380	.0004	-.0174
#3	.0091	-.0174	.0008	.1025	-.0003	.0004	-.0195

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	-.0000	.1585	-.0164	-.0000	.1255	-.0002
SDev	.0011	.0002	.0021	.0914	.0001	.0082	.0004

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%RSD	51.02	2020.	1.338	557.5	615.8	6.541	219.7
#1	.0017	.0001	.1561	.0056	-.0001	.1285	-.0001
#2	.0033	-.0002	.1595	-.1168	.0001	.1317	-.0006
#3	.0013	.0002	.1599	.0620	-.0000	.1162	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0116	-.0002
SDev	.0007	.0007
%RSD	6.326	433.6
#1	.0111	-.0001
#2	.0112	-.0009
#3	.0124	.0005

Analysis Report Mon 09-11-95 10:45:50 AM page 1

Method: ICP1 Sample Name: 95-007931-C2 (2 dup 9/11/95) Operator: DRS
Run Time: 09/11/95 10:44:30
Comment: SEG 2 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	372.9	.3493	.5523	.0012	.0032	.0508
SDev	.0005	1.6	.0169	.0048	.0002	.0001	.0059
%RSD	7.124	.4332	4.852	.8708	15.43	1.737	11.58
#1	.0073	374.1	.3688	.5546	.0012	.0032	.0523
#2	.0076	371.0	.3380	.5467	.0014	.0033	.0558
#3	.0066	373.4	.3410	.5555	.0010	.0032	.0443

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0179	.0026	.0379	.0940	2.997	.0433	.0053
SDev	.0011	.0010	.0040	.0007	.023	.0007	.0003
%RSD	5.983	37.86	10.52	.7598	.7544	1.670	6.278
#1	-.0190	.0027	.0392	.0949	3.020	.0441	.0056
#2	-.0178	.0036	.0410	.0936	2.975	.0426	.0054
#3	-.0168	.0016	.0334	.0936	2.997	.0432	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	1.256	28.12	.0121	.0134	.0243	.0035
SDev	.0002	.004	.18	.0014	.0002	.0029	.0002
%RSD	9.716	.3447	.6468	11.59	1.527	12.10	6.447
#1	.0021	1.260	28.06	.0131	.0135	.0274	.0035
#2	.0021	1.252	28.32	.0127	.0135	.0240	.0037
#3	.0018	1.257	27.97	.0105	.0131	.0215	.0033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1539	1750.	.0336	3.299	5.253	.5189	.1085
SDev	.0013	5.	.0047	.010	.054	.0200	.0069
%RSD	.8186	.2725	13.93	.3118	1.021	3.857	6.411
#1	.1553	1753.	.0389	3.308	5.310	.5018	.1051
#2	.1528	1745.	.0321	3.288	5.204	.5141	.1165
#3	.1537	1753.	.0299	3.300	5.244	.5409	.1039

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0632	-.0452	.0112	.7727	.2890	.0013	-.0389
SDev	.0014	.0071	.0253	.0038	.0157	.0000	.0004
%RSD	2.152	15.72	226.3	.4975	5.414	.1239	1.030
#1	.0617	-.0397	.0089	.7771	.2879	.0013	-.0390
#2	.0644	-.0532	.0375	.7710	.3052	.0013	-.0384
#3	.0635	-.0427	-.0129	.7699	.2740	.0013	-.0392

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0021	.8029	.5229	.0040	.7163	.0019
SDev	.0047	.0003	.0136	.0205	.0004	.0118	.0004

%RSD	953.1	16.18	1.698	3.930	9.186	1.642	18.79
#1	.0017	.0022	.8180	.5022	.0040	.7088	.0023
#2	.0027	.0024	.7915	.5433	.0044	.7299	.0017
#3	-.0059	.0017	.7993	.5231	.0037	.7103	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0481	.0047
SDev	.0032	.0001
%RSD	6.628	.9955
#1	.0444	.0048
#2	.0502	.0047
#3	.0497	.0047

Analysis Report QC Standard Mon 09-11-95 10:50:23 AM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 10:49:04
Comment: (BY-106 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS BY 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4891	25.11	2.631	2.002	.5165	.0946	24.75
SDev	.0022	.12	.023	.018	.0034	.0006	.08
%RSD	.4454	.4822	.8913	.8741	.6590	.6649	.3434
#1	.4914	25.23	2.644	2.021	.5200	.0952	24.83
#2	.4885	25.12	2.645	1.999	.5164	.0947	24.75
#3	.4872	24.99	2.604	1.987	.5132	.0940	24.66
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.22	.5079	-.0475	1.047	1.044	1.016	-.0013
SDev	.13	.0025	.0018	.004	.011	.001	.0003
%RSD	.4984	.4884	3.780	.3661	1.094	.0775	23.24
#1	25.35	.5105	-.0489	1.050	1.055	1.016	-.0015
#2	25.21	.5055	-.0482	1.048	1.044	1.016	-.0015
#3	25.10	.5077	-.0455	1.043	1.032	1.015	-.0010
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	20.80	25.08	.0020	1.916	26.89	.5179
SDev	.0001	.12	.27	.0010	.004	.14	.0029
%RSD	5.034	.5869	1.058	48.66	.2240	.5244	.5523
#1	.0014	20.92	24.81	.0010	1.916	27.02	.5212
#2	.0014	20.81	25.09	.0020	1.911	26.89	.5170
#3	.0015	20.68	25.34	.0029	1.920	26.74	.5157
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	24.19	.0001	1.080	.0585	2.642	-.0515
SDev	.003	.03	.0033	.005	.0241	.003	.0070
%RSD	.2645	.1228	3699.	.4602	41.13	.1160	13.63
#1	1.048	24.18	-.0037	1.083	.0612	2.646	-.0596
#2	1.049	24.17	.0022	1.083	.0811	2.640	-.0481
#3	1.044	24.22	.0017	1.074	.0332	2.641	-.0469
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0119	2.538	2.542	19.08	-.1359	.5229	-.0022
SDev	.0061	.013	.011	.09	.0132	.0032	.0079
%RSD	50.91	.5016	.4205	.4555	9.714	.6084	356.1
#1	-.0179	2.552	2.553	19.18	-.1502	.5262	.0052
#2	-.0121	2.529	2.542	19.07	-.1242	.5227	-.0105
#3	-.0058	2.532	2.532	19.00	-.1332	.5198	-.0013
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0441	1.016	2.532	-.1206	.9987	.0237	-.0003
SDev	.0080	.006	.014	.0791	.0061	.0031	.0003
%RSD	18.11	.6256	.5558	65.57	.6153	12.98	109.0
#1	.0428	1.023	2.548	-.1938	1.005	.0268	-.0005
#2	.0526	1.016	2.521	-.1313	.9984	.0237	-.0005
#3	.0368	1.010	2.528	-.0367	.9927	.0206	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.035	2.084
SDev	.006	.013
%RSD	.5373	.6370
#1	1.037	2.098
#2	1.039	2.083
#3	1.028	2.072
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 10:52:48
Comment: SEG 2 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	-.0013	.0032	-.0006	.0000	-.0000	.0012
SDev	.0012	.0044	.0074	.0013	.0002	.0000	.0063
%RSD	105.2	337.0	229.3	220.8	421.1	179.0	529.4
#1	-.0017	-.0037	.0045	-.0003	-.0002	-.0001	-.0010
#2	-.0020	-.0040	-.0047	-.0020	.0001	-.0000	-.0037
#3	.0002	.0038	.0099	.0005	.0002	.0000	.0083

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0014	-.0104	-.0016	.0015	-.0006	-.0009
SDev	.0014	.0006	.0074	.0007	.0018	.0008	.0012
%RSD	95.67	42.11	71.20	42.30	116.6	135.1	124.5
#1	.0019	.0013	-.0105	-.0024	-.0005	-.0014	-.0021
#2	-.0001	.0008	-.0177	-.0015	.0022	.0002	-.0010
#3	.0026	.0020	-.0029	-.0010	.0029	-.0006	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0019	-.1989	-.0017	-.0001	.0030	-.0003
SDev	.0005	.0009	.1922	.0023	.0010	.0056	.0003
%RSD	76.75	49.56	96.59	134.4	876.3	185.7	77.19
#1	-.0008	.0012	-.3758	-.0036	-.0007	-.0020	-.0003
#2	-.0009	.0016	-.2266	-.0024	.0011	.0019	-.0006
#3	-.0001	.0030	.0055	.0009	-.0007	.0091	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0053	-.0023	-.0007	-.0032	-.0046	-.0162
SDev	.0003	.0154	.0043	.0007	.0204	.0011	.0121
%RSD	117.8	291.4	186.3	94.40	631.3	23.56	74.71
#1	-.0000	-.0229	-.0049	-.0000	-.0231	-.0046	-.0224
#2	.0003	.0057	-.0047	-.0014	-.0041	-.0056	-.0241
#3	.0005	.0014	.0027	-.0008	.0176	-.0035	-.0023

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0044	-.0026	.0007	-.0701	-.0265	.0000	-.0041
SDev	.0062	.0080	.0034	.0068	.0112	.0001	.0069
%RSD	140.7	306.2	522.2	9.681	42.15	1279.	168.6
#1	-.0088	-.0082	-.0033	-.0736	-.0361	-.0001	-.0116
#2	-.0070	-.0062	.0023	-.0744	-.0292	.0000	-.0024
#3	.0027	.0065	.0030	-.0623	-.0142	.0001	.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0022	-.0004	-.0014	-.1009	-.0003	-.0023	-.0004
SDev	.0027	.0003	.0078	.0961	.0010	.0020	.0002

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%RSD	120.8	67.82	568.9	95.24	304.0	89.06	38.29
#1	.0009	-.0006	-.0030	-.1855	-.0008	-.0011	-.0003
#2	-.0036	-.0005	.0071	-.1207	-.0009	-.0011	-.0006
#3	-.0039	-.0001	-.0083	.0036	.0008	-.0046	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0004	-.0008
SDev	.0004	.0009
%RSD	94.23	119.6
#1	-.0008	-.0014
#2	-.0003	-.0012
#3	-.0001	.0003

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Method: ICP1 Sample Name: 95-007935-C1 @5 Operator: DRS
Run Time: 09/11/95 10:55:03
Comment: SEG 3 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	83.24	.0787	.1070	-.0000	.0006	.0036
SDev	.0004	.25	.0122	.0014	.0001	.0000	.0066
%RSD	11.36	.2988	15.54	1.347	326.2	3.974	180.9
#1	-.0037	83.21	.0668	.1086	-.0000	.0006	.0093
#2	-.0032	83.01	.0780	.1062	.0001	.0006	-.0035
#3	-.0040	83.51	.0913	.1061	-.0002	.0006	.0051

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0274	.0006	-.0101	.0173	.6657	.0212	-.0015
SDev	.0006	.0009	.0049	.0017	.0070	.0014	.0004
%RSD	2.275	142.6	48.97	9.920	1.047	6.370	28.97
#1	-.0279	.0009	-.0139	.0160	.6594	.0214	-.0019
#2	-.0267	-.0004	-.0045	.0193	.6646	.0225	-.0011
#3	-.0275	.0013	-.0119	.0166	.6732	.0198	-.0014

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.2209	5.963	-.0022	.0000	.0038	.0005
SDev	.0002	.0002	.067	.0015	.0003	.0054	.0002
%RSD	41.43	.0962	1.124	64.55	8444.	140.4	43.20
#1	-.0005	.2207	6.024	-.0030	-.0003	.0017	.0004
#2	-.0004	.2211	5.974	-.0006	.0004	-.0002	.0008
#3	-.0008	.2210	5.891	-.0032	.0000	.0099	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0323	395.7	-.0096	.5381	1.044	.1544	-.0212
SDev	.0012	2.9	.0034	.0024	.014	.0085	.0127
%RSD	3.771	.7236	35.41	.4514	1.296	5.527	59.79
#1	.0320	397.6	-.0105	.5408	1.050	.1530	-.0165
#2	.0337	392.4	-.0059	.5371	1.053	.1635	-.0115
#3	.0313	397.1	-.0126	.5362	1.028	.1467	-.0355

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0063	-.0190	-.0036	.1680	-.0005	.0042	-.0241
SDev	.0027	.0057	.0039	.0052	.0060	.0000	.0007
%RSD	42.28	29.95	107.6	3.080	1159.	.1489	2.893
#1	-.0088	-.0150	-.0077	.1620	.0022	.0042	-.0249
#2	-.0035	-.0165	-.0033	.1708	.0036	.0042	-.0240
#3	-.0065	-.0255	.0001	.1711	-.0074	.0042	-.0235

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0005	.1592	-.1432	-.0010	1.668	-.0004
SDev	.0028	.0003	.0016	.0713	.0005	.014	.0004

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%RSD	171.1	68.84	1.018	49.83	53.76	.8689	102.9
#1	-.0032	-.0005	.1610	-.1526	-.0011	1.654	-.0003
#2	.0016	-.0002	.1585	-.0676	-.0004	1.666	-.0001
#3	-.0032	-.0008	.1580	-.2093	-.0015	1.683	-.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0247	-.0012
SDev	.0008	.0002
%RSD	3.206	15.20
#1	.0248	-.0013
#2	.0239	-.0010
#3	.0255	-.0013

LABCORE Data Entry Template for Worklist# 3188

Analyst: EAL **Instrument:** IC01 IC01 **Book #** 109N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY108 IC. JMF Water Digests

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	CCB				@IC-QC	F-QC	QC	1	<.013	N/A	ug/mL
		1	CCB				@IC-QC	CL-QC	QC		<.017	N/A	ug/mL
		1	CCB				@IC-QC	NO2-QC	QC		<.170	N/A	ug/mL
		1	CCB				@IC-QC	BR-QC	QC		<.186	N/A	ug/mL
		1	CCB				@IC-QC	NO3-QC	QC		<.140	N/A	ug/mL
		1	CCB				@IC-QC	PO4-QC	QC		<.296	N/A	ug/mL
		1	CCB				@IC-QC	SO4-QC	QC		<.136	N/A	ug/mL
		1	CCB				@IC-QC	OXALATQC	QC	↓	<.105	N/A	ug/mL
		2	CCV				@IC-QC	F-QC	QC	59	59.4	N/A	ug/mL
		2	CCV				@IC-QC	CL-QC	QC	79	80.1	N/A	ug/mL
		2	CCV				@IC-QC	NO2-QC	QC	536	532.2	N/A	ug/mL
		2	CCV				@IC-QC	BR-QC	QC	575	568.9	N/A	ug/mL
		2	CCV				@IC-QC	NO3-QC	QC	614	607.31	N/A	ug/mL
		2	CCV				@IC-QC	PO4-QC	QC	546	533.0	N/A	ug/mL
		2	CCV				@IC-QC	SO4-QC	QC	631	619.7	N/A	ug/mL
		2	CCV				@IC-QC	OXALATQC	QC	552	592.835	N/A	ug/mL
		3	BLNK-PREP				@IC-01	F-02	SOLID	1	<.013	N/A	ug/g
		3	BLNK-PREP				@IC-01	CL-02	SOLID	1	<.017	N/A	ug/g

Data Entry Comments:

Sample	duplicate
3.8170	8.9780
5.2140	6.0230

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3188

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP			AIC-01	NO2-02	SOLID	1	< .107	N/A	ug/g
		3	BLNK-PREP			AIC-01	BR-02	SOLID		< .176	N/A	ug/g
		3	BLNK-PREP			AIC-01	NO3-02	SOLID		< ~~.296~~ .1140	N/A	ug/g
		3	BLNK-PREP			AIC-01	PO4-02	SOLID		< .296	N/A	ug/g
		3	BLNK-PREP			AIC-01	SO4-02	SOLID		< .136	N/A	ug/g
		3	BLNK-PREP			AIC-01	OXALATE2	SOLID		< .105	N/A	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	F-02	SOLID	N/A	4.28^{E3}	3.44^{E2}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	CL-02	SOLID	N/A	1.62^{E3}	4.50^{E2}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	NO2-02	SOLID	N/A	1.20^{E4}	4.50^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	BR-02	SOLID	N/A	$< 3.33^{E3}$	3.39^{E3} ~~3.23~~	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	NO3-02	SOLID	N/A	3.75^{E5}	~~7.83~~ 3.70^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	PO4-02	SOLID	N/A	$< 7.83^{E3}$	7.83^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	SO4-02	SOLID	N/A	1.51^{E4}	3.66^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002558	0	W AIC-01	OXALATE2	SOLID	N/A	1.03^{E4}	2.78^{E3}	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	F-02	SOLID	4.28^{E3}	3.17^{E3}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	CL-02	SOLID	1.62^{E3}	4.74^{E2}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	NO2-02	SOLID	1.20^{E4}	7.24^{E3}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	BR-02	SOLID	$< 3.33^{E3}$	$< 1.42^{E3}$	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	NO3-02	SOLID	3.75^{E5}	5.15^{E5}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	PO4-02	SOLID	$< 783^{E3}$	$< 3.33^{E3}$	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002558	0	W AIC-01	SO4-02	SOLID	1.51^{E4}	1.01^{E4}	N/A	ug/g

Data Entry Comments:
Jann — 2558 Dup: can't go to dilution 41 due to high NO3 ldl

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3188

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	5	DUP	S95T002558	0	W	AIC-01	OXALATE2	SOLID	1.03^{e4}	7.21^{e3}	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	F-02	SOLID	100	95.5	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	CL-02	SOLID		95.0	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	NO2-02	SOLID		93.7	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	BR-02	SOLID		~~101.1~~ 95.7	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	NO3-02	SOLID		~~98.6~~ 101.1	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	PO4-02	SOLID		98.6	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	SO4-02	SOLID		91.~~8~~ gmf 11/13/95	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002558	0	W	AIC-01	OXALATE2	SOLID		101.8	N/A	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	F-02	SOLID	N/A	7.29^{e3}	2.57^{e2}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	CL-02	SOLID	N/A	1.12^{e3}	3.29^{e2}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	NO2-02	SOLID	N/A	1.76^{e4}	3.29^{e2}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	BR-02	SOLID	N/A	~~1.63^{e5}~~ $<2.44^{e3}$	2.44^{e3}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	NO3-02	SOLID	N/A	1.63^{e5}	2.71^{e3}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	PO4-02	SOLID	N/A	2.31^{e4}	5.73^{e3}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	SO4-02	SOLID	N/A	1.98^{e4}	2.63^{e3}	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002559	0	W	AIC-01	OXALATE2	SOLID	gmf 11/13/95 N/A	1.52^{e4} ~~1.49^{e4}~~	2.03^{e3}	ug/g
95000118	BY-108 (R)	8	DUP	S95T002559	0	W	AIC-01	F-02	SOLID	7.29^{e3}	5.92^{e3}	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002559	0	W	AIC-01	CL-02	SOLID	1.12^{e3}	1.40^{e3}	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002559	0	W	AIC-01	NO2-02	SOLID	~~1.76^{e4}~~ ~~2.44^{e5}~~	~~1.77^{e4}~~ ~~1.77^{e4}~~	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002559	0	W	AIC-01	BR-02	SOLID	~~1.63^{e5}~~ $<2.44E3$	~~2.44^{e3}~~ ~~1.75^{e5}~~ $<2.11^{e3}$	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002559	0	W	AIC-01	NO3-02	SOLID	gmf 11/13/95 1.63^{e5} ~~2.31^{e4}~~	1.75^{e5}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3188

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	8 DUP	S95T002559	0	W	@IC-01 PO4-02	SOLID	2.31^{E4}	9.01^{E3}	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002559	0	W	@IC-01 SO4-02	SOLID	1.98^{E4}	1.98^{E4}	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002559	0	W	@IC-01 OXALATE2	SOLID	1.52^{E4}	1.47^{E4}	N/A	ug/g

Final page for worklist # 3188

Analyst Signature Date 11.06.95

Analyst Signature Date

Verified 11/13/95 J. M. Luge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T002558 & S95T002559		
TEST CODE:	@IC01	ANALYST:	A. LAMBEL
INSTRUMENT:	IC01	ANALYSIS DATE:	11/06/95
WORK LIST #:	3188	SAMPLE POINT:	BY-108
BATCH ID:	N/A	SAMPLE PREP:	H20-DIG

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9C	100.8%	101.4%	99.3%	98.9%	97.6%	98.2%	98.9%	107.4%
S95T002558	4.28E+03	1.62E+03	1.20E+04	3.75E+05	<7832.33	1.51E+04	<3334.03	1.03E+04
S95T002558/DUP	3.17E+03	4.74E+02	7.24E+03	5.15E+05	<3329.92	1.01E+04	<1417.46	7.21E+03
Duplicate 1 RPD	29.6%	109.6%	49.6%	31.4%	N/A	39.4%	N/A	35.5%
S95T002559	7.29E+03	1.12E+03	1.76E+04	1.63E+05	2.31E+04	1.98E+04	<2440.74	1.52E+04
S95T002559/DUP	5.92E+03	1.40E+03	1.77E+04	1.75E+05	9.01E+03	1.98E+04	<2112.90	1.47E+04
Duplicate 2 RPD	20.7%	22.7%	0.1%	6.9%	87.9%	0.2%	N/A	3.8%
S95T002558/SPK	95.5%	95.0%	93.7%	101.1%	98.6%	91.8%	95.7%	101.8%

NARRATIVE: Analyst Comments:

Chemist Comments:

Form Completed By: [signature] Date: 11.07.95

Chemist Approval: [signature] Date: 11/13/95

476

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	@IC01
Work List #:	3188
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N9C
Spike Sample #:	1
Prepared By:	RT STEELE
Prepared Date:	11/07/95
Chemist:	J. FRYE
Analyst:	A. LAMBEL
Analysis Date:	11/08/95
Time Complete:	03:38 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	H20-DIG
Sample Point:	BY-108
Sample Type	
STANDARD	109N9C
SAMPLE 1	S95T002558
DUPLICATE 1	S95T002558/DUP
SAMPLE 2	S95T002559
DUPLICATE 2	S95T002559/DUP
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T002558/SPK
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.013	<.017	<.107	<.140	<.296	<.136	<.126	<.105
Standard Data (µg/mL)	99.466	99.999	532.24	997.31	533.033	919.563	568.973	992.836
Sample 1 Data (µg/mL)	1.63E+01	6.30E+00	4.69E+01	1.43E+03	<.296	5.78E+01	<.126	3.94E+01
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF g/L	3.817	3.817	3.817	3.817	3.817	3.817	3.817	3.817
Duplicate 1 Data (µg/mL)	2.08E+01	4.25E+00	6.58E+01	4.63E+03	<.296	9.87E+01	<.126	6.47E+01
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF g/L	8.978	8.978	8.978	8.978	8.978	8.978	8.978	8.978
Sample 2 Data (µg/mL)	3.89E+01	5.81E+00	9.36E+01	8.52E+02	1.21E+02	1.83E+02	<.126	7.98E+01
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101
Sample 2 Prep DF g/L	5.214	5.214	5.214	5.214	5.214	5.214	5.214	5.214
Duplicate 2 Data (µg/mL)	3.57E+01	8.44E+00	1.06E+02	1.06E+03	5.42E+01	1.19E+02	<.126	8.83E+01
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 2 Prep DF g/L	6.023	6.023	6.023	6.023	6.023	6.023	6.023	6.023
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	7.26E+01	8.12E+01	5.48E+02	2.06E+03	6.38E+02	6.37E+02	6.60E+02	6.01E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	99	79	536	614	546	631	576	562
Detection Limit	0.013	0.017	0.170	0.140	0.296	0.136	0.126	0.105
Matrix Detection Limit 1	3.44E+02	4.60E+02	4.60E+03	3.70E+03	7.83E+03	3.60E+03	3.33E+03	2.78E+03
Matrix Detection Limit 2	2.52E+02	3.29E+02	3.29E+03	2.71E+03	5.73E+03	2.63E+03	2.44E+03	2.03E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/(Spike Vol.)*(Spike Std.)*(Sample DF)]*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	100.5%	101.4%	96.3%	96.9%	97.8%	96.2%	98.9%	107.4%
Sample 1 in µg/g	4.28E+03	1.62E+03	1.20E+04	3.76E+05	<7832.33	1.51E+04	<3334.03	1.03E+04
Duplicate 1 in µg/g	5.17E+03	4.74E+02	7.34E+03	5.16E+05	<3328.92	1.01E+04	<1417.46	7.21E+03
Duplicate 1 RPD	29.6%	109.6%	48.8%	31.4%	N/A	39.4%	N/A	36.5%
Sample 2 in µg/g	7.29E+03	1.12E+03	1.78E+04	1.63E+05	2.31E+04	1.98E+04	<2440.74	1.52E+04
Duplicate 2 in µg/g	6.92E+03	1.40E+03	1.77E+04	1.76E+05	9.01E+03	1.98E+04	<2112.90	1.47E+04
Duplicate 2 RPD	20.7%	22.7%	0.1%	6.9%	87.9%	0.2%	N/A	3.8%
Spike % Recovery	98.8%	98.0%	93.7%	101.1%	98.6%	91.8%	98.7%	101.8%

Data Entry by: RTSteele Date: 11/07/95
Approved by: Jean Frye Date: 11/13/95
Form DIONEX.WB1 Rev. 1.3

```
Sample Name: BLANK                                  Date: 11/06/1995 03:38:40
Data File  : C:\DX\DATA\95110601.D10
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 10                        Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

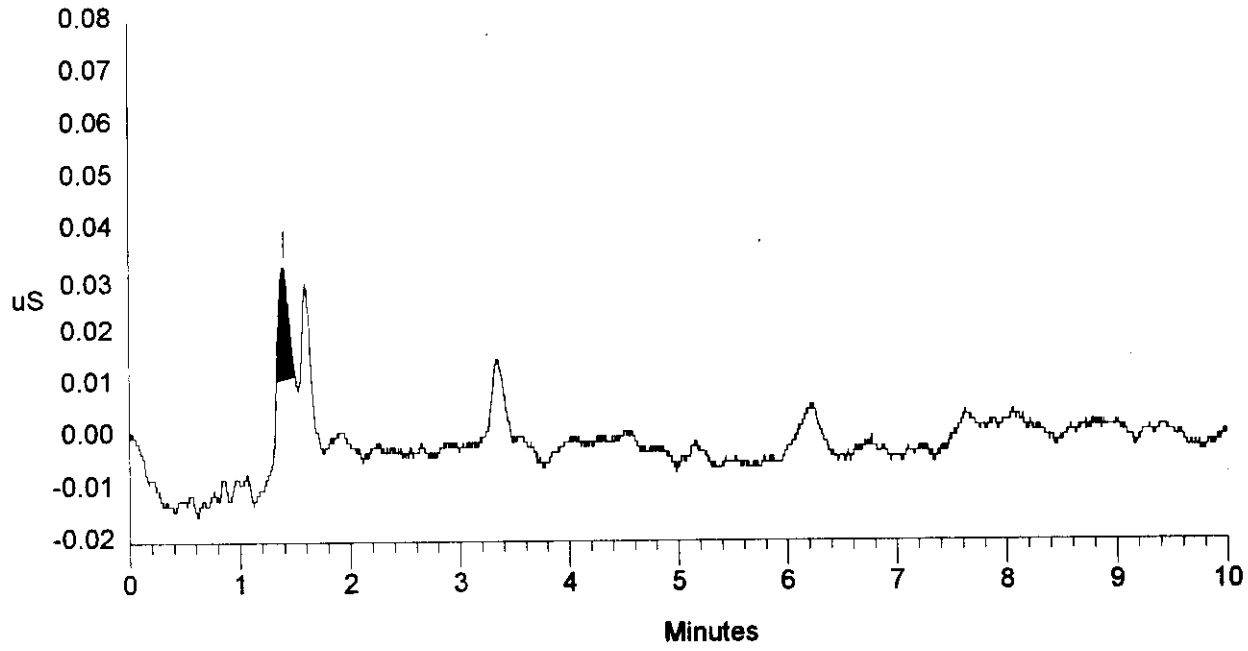
11-06-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95110601.D10 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 478 TO 481.

Sample Name: 109N9-C STD. Date: 11/06/1995 04:51:00
Data File : C:\DX\DATA\95110601.D12
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12 Detector:CDM-1
Analyst : [signature] Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	49	217	2	
2	1.04	fluoride	59.456	1521	8209	2	0.97
3	1.58	chloride	80.088	1446	7628	1	0.00
4	1.90	nitrite	532.240	5677	35019	1	-1.04
5	2.87	bromide	568.873	3577	25032	1	2.14
6	3.27	nitrate	607.310	4080	34645	1	3.81
7	4.69	phosphate	533.033	1243	15019	1	-2.09
8	6.19	sulfate	619.653	3408	46764	1	-2.67
9	8.14	oxalate	592.835	1633	29416	1	-2.63
		Totals	3593.487	22636	201950		

File: 95110601.D12 Sample: 109N9-C STD.

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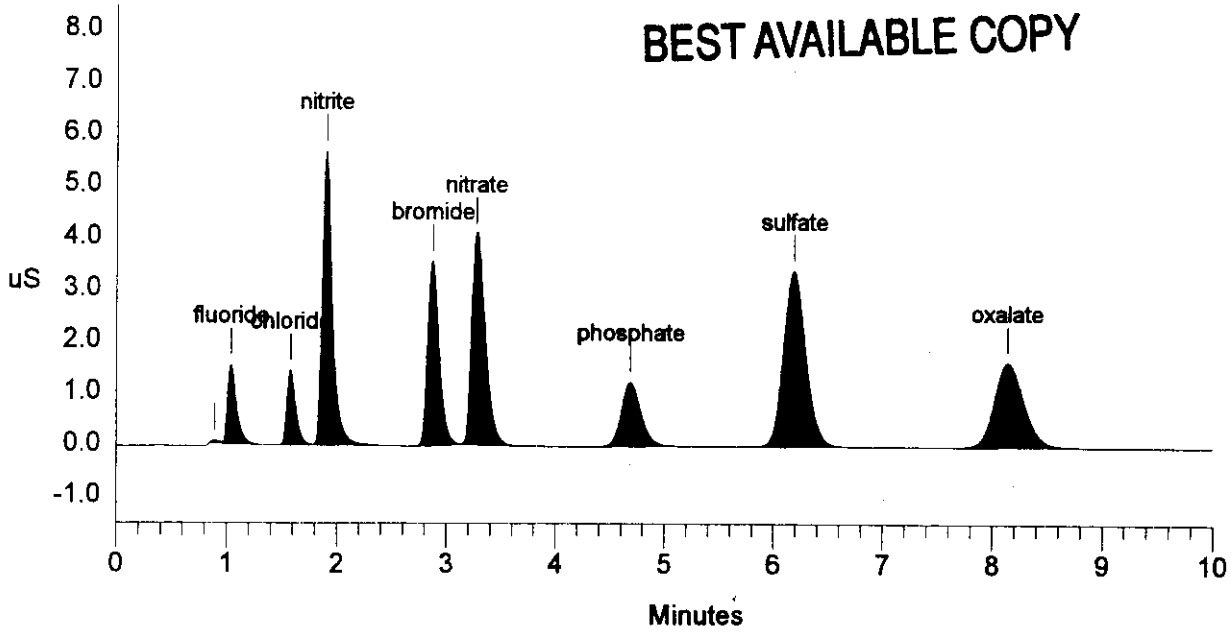


WHC-SD-WM-DP-145, REV. 1

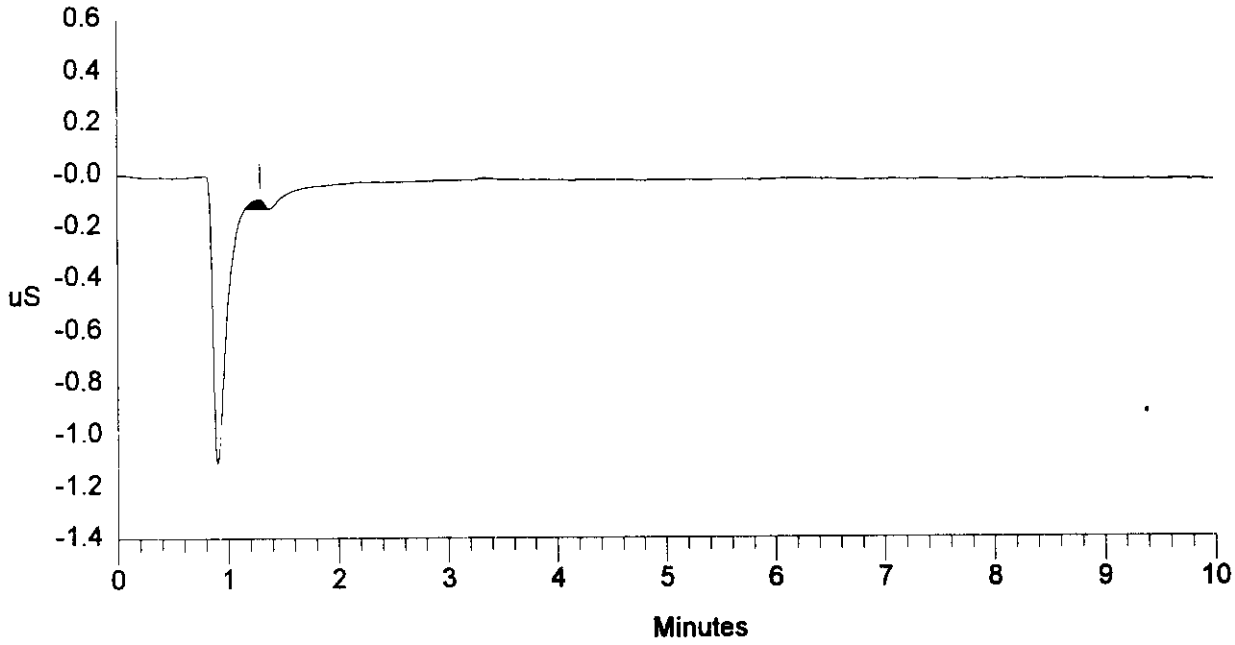
```
Sample Name: PREP. BLANK                          Date: 11/06/1995 05:07:44
Data File  : C:\DX\DATA\95110601.D13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 13                    Detector:CDM-1
Analyst    : E Ann Kimbel  Column: AG4A/AS4A anion column/SRS
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.29		0.000	36	288	1	
		Totals	0.000	36	288		

File: 95110601.D13 Sample: PREP. BLANK



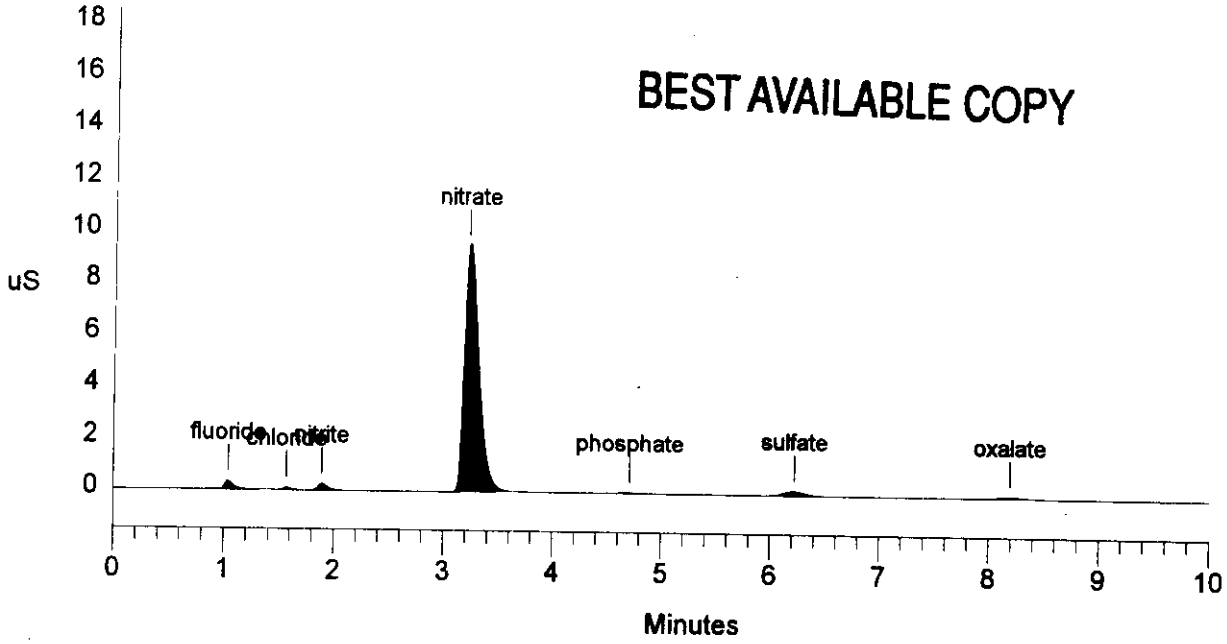
Sample Name: S95T002558
Data File : C:\DX\DATA\95110601.D14
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14
Analyst : Ellen Lambert
Date: 11/06/1995 05:19:04
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	fluoride	16.330	330	2024	1	0.97
2	1.57	chloride	6.198	97	506	1	-0.63
3	1.89	nitrite	45.850	263	1620	1	-1.56
4	3.22	nitrate	1433.119	9499	85878	1	2.22
5	4.71	phosphate	30.663	33	363	1	-1.67
6	6.22	sulfate	57.479	181	2444	1	-2.20
7	8.19	oxalate	39.394	65	1017	1	-2.03
		Totals	1629.032	10467	93851		

File: 95110601.D14 Sample: S95T002558



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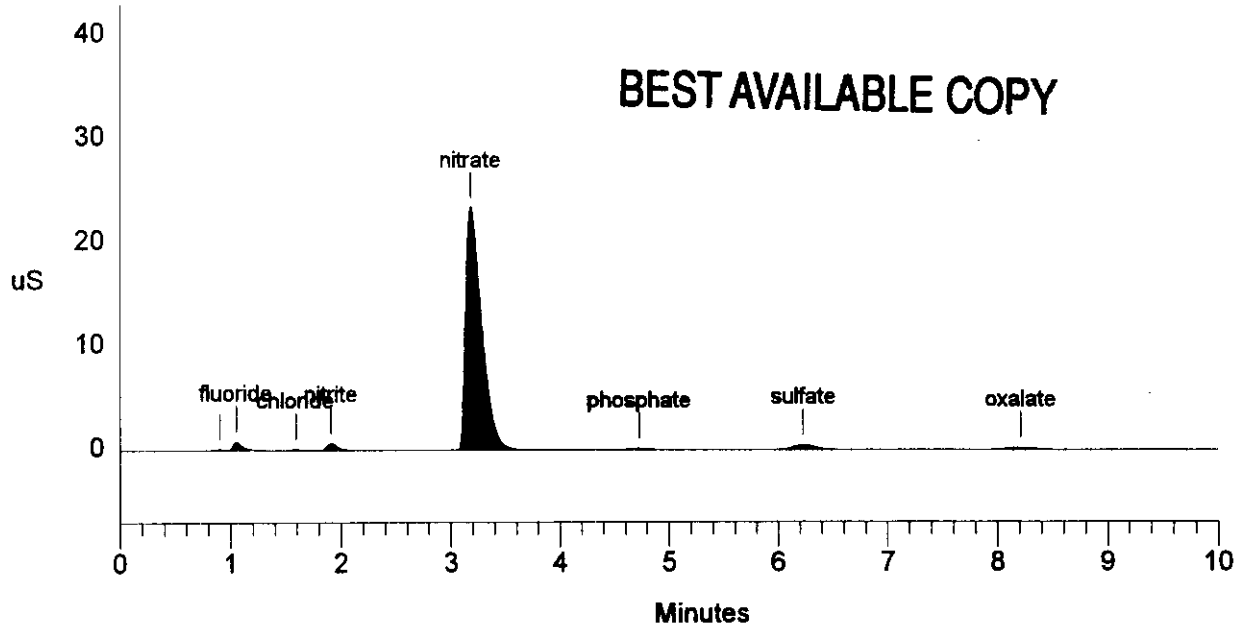
```
Sample Name: S95T002558                          Date: 11/06/1995 05:30:08
Data File  : C:\DX\DATA\95110601.D15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 15                    Detector:CDM-1
Analyst    : Ellen Lambert  Column: AG4A/AS4A anion column/SRS
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	49	223	2	
2	1.05	fluoride	13.646	784	4492	2	1.94
3	1.59	chloride	2.440	94	488	1	0.63
4	1.91	nitrite	33.616	663	4147	1	-0.52
5	3.18	nitrate	1478.363	23288	233725	1	0.95
6	4.73	phosphate	21.435	88	1000	1	-1.25
7	6.23	sulfate	41.277	426	5881	1	-2.04
8	8.21	oxalate	31.694	174	2983	1	-1.79
		Totals	1622.472	25567	252940		

File: 95110601.D15 Sample: S95T002558



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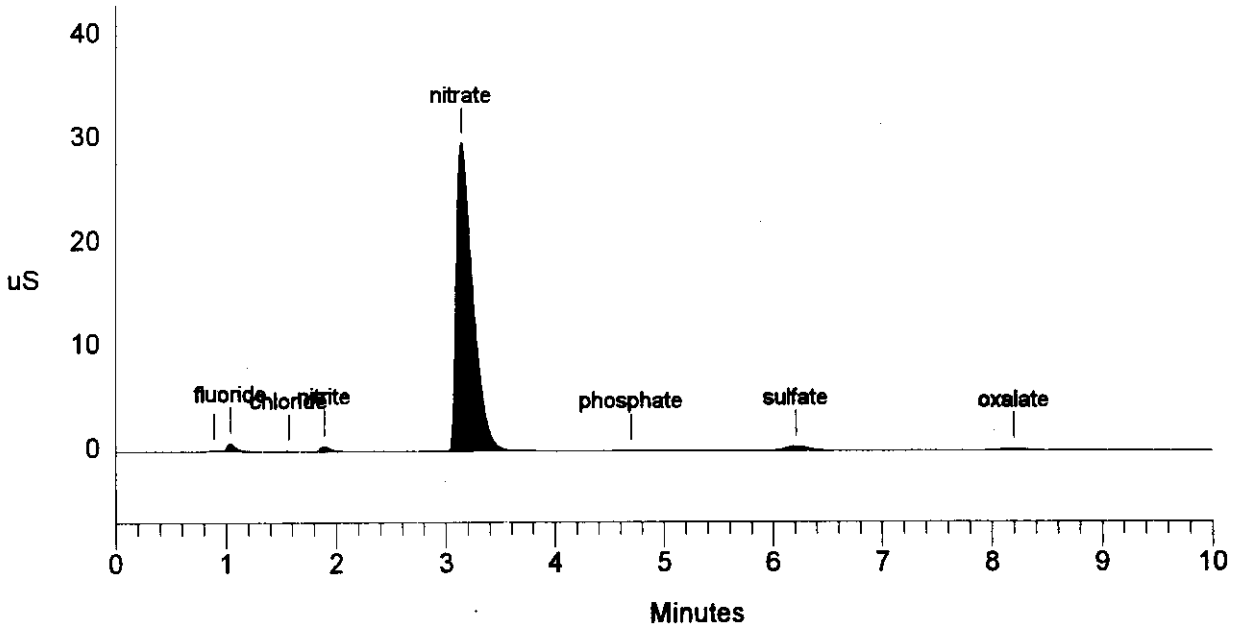
Sample Name: S95T002558 DUP Date: 11/06/1995 05:41:10
Data File : C:\DX\DATA\95110601.D16
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16 Detector:CDM-1
Analyst : Diana Lemke Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	69	324	2	
2	1.04	fluoride	28.500	689	3760	2	0.97
3	1.57	chloride	4.255	62	320	1	-0.63
4	1.89	nitrite	64.978	472	2928	1	-1.56
5	3.14	nitrate	4625.237	29602	305846	1	-0.32
6	4.70	phosphate	29.758	31	337	1	-1.88
7	6.21	sulfate	90.714	367	5028	1	-2.36
8	8.20	oxalate	64.709	134	2303	1	-1.91
		Totals	4908.151	31426	320847		

File: 95110601.D16 Sample: S95T002558 DUP



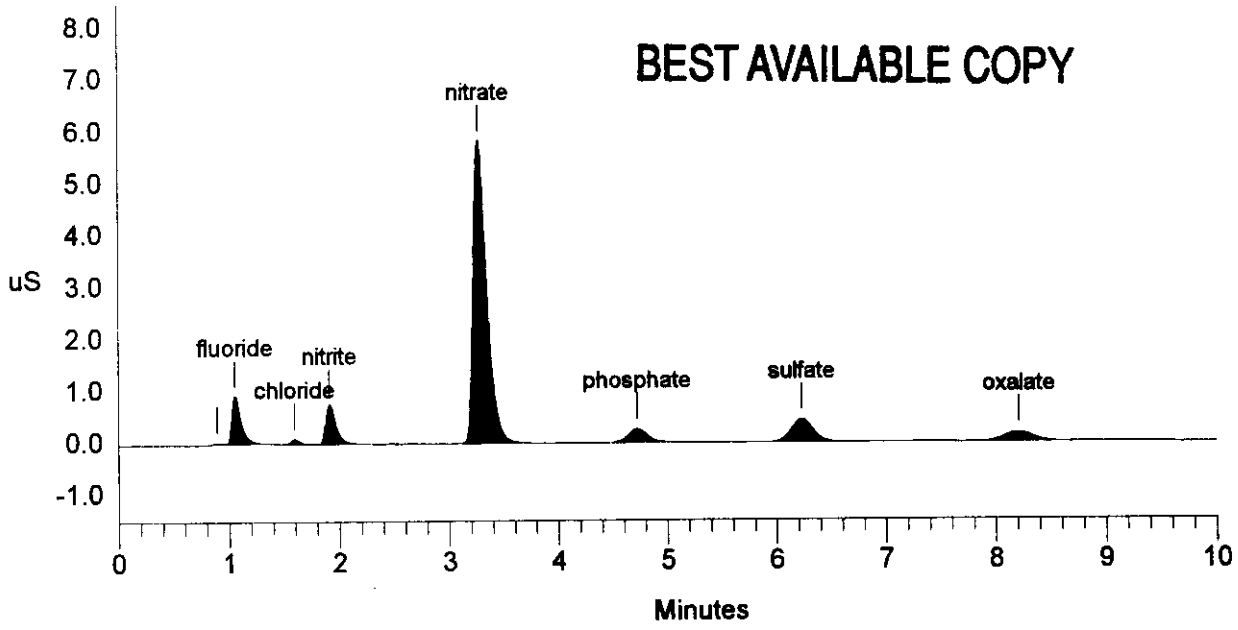
Sample Name: S95T002559 Date: 11/06/1995 06:06:09
Data File : C:\DX\DATA\95110601.D18
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 18 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.05	fluoride	38.024	907	5124	2	1.94
3	1.59	chloride	5.814	91	469	1	0.63
4	1.91	nitrite	91.962	752	4773	1	-0.52
5	3.27	nitrate	852.182	5836	49637	1	3.81
6	4.72	phosphate	120.565	252	2954	1	-1.46
7	6.23	sulfate	103.018	433	5985	1	-2.04
8	8.21	oxalate	79.472	174	3054	1	-1.79
		Totals	1291.038	8445	71997		

File: 95110601.D18 Sample: S95T002559



Sample Name:	S95T002559 DUP
Data File :	C:\DX\DATA\95110601.D20
Method :	C:\DX\METHOD\KIT.MET
ACI Address:	1 System: 1 Inject#: 20
Analyst :	Column: AG4A/AS4A anion column/SRS

Date: 11/06/1995 06:25:51

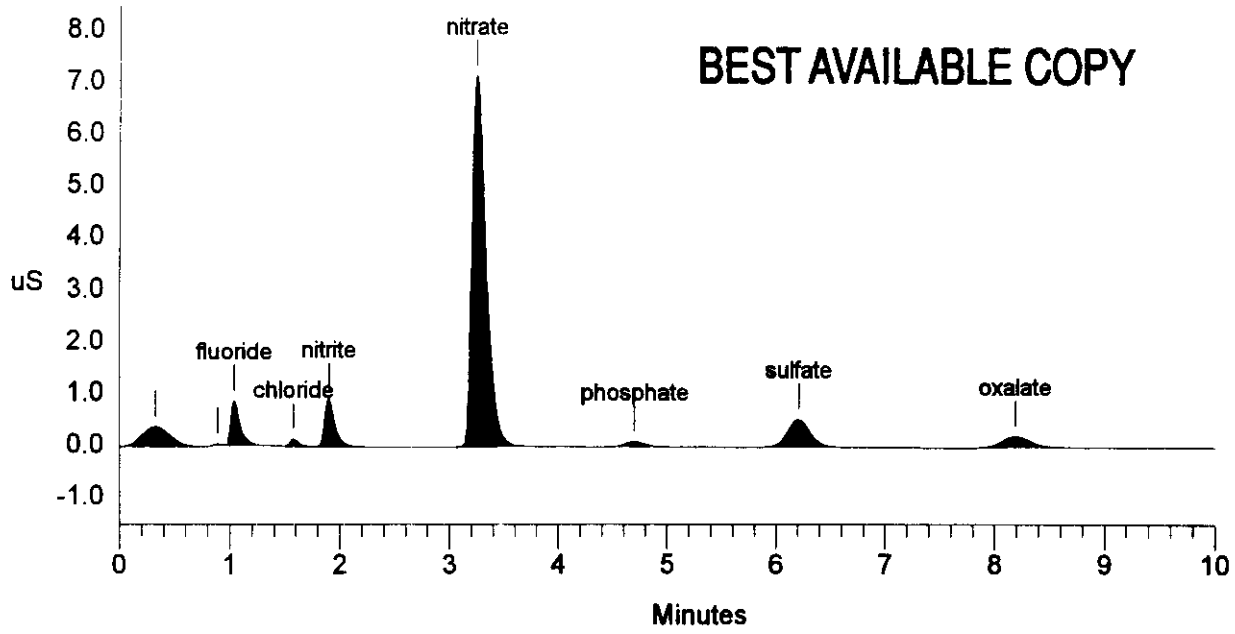
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.33		0.000	384	6698	1	
3	1.04	fluoride	35.676	856	4788	2	0.97
4	1.58	chloride	8.436	138	719	1	0.00
5	1.90	nitrite	106.315	922	5755	1	-1.04
6	3.25	nitrate	1055.086	7149	62185	1	3.17
7	4.70	phosphate	54.246	93	1042	1	-1.88
8	6.21	sulfate	119.219	528	7247	1	-2.36
9	8.19	oxalate	88.344	204	3505	1	-2.03
		Totals	1467.322	10273	91939		

File: 95110601.D20 Sample: S95T002559 DUP



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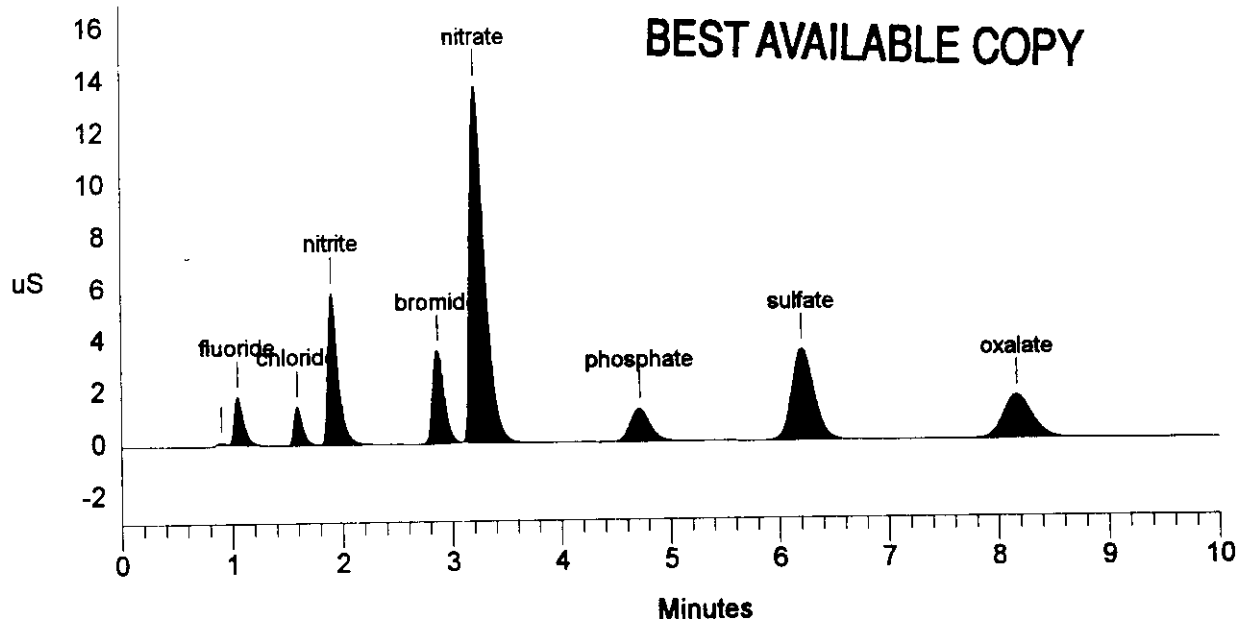
Sample Name: S95T002558 SPIKE Date: 11/06/1995 05:54:49
Data File : C:\DX\DATA\95110601.D17
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 17 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	68	297	2	
2	1.05	fluoride	72.646	1808	10118	2	1.94
3	1.59	chloride	81.246	1464	7741	1	0.63
4	1.91	nitrite	547.972	5861	36105	1	-0.52
5	2.87	bromide	550.059	3568	24155	1	2.14
6	3.22	nitrate	2053.796	13731	125718	1	2.22
7	4.72	phosphate	538.387	1250	15178	1	-1.46
8	6.21	sulfate	636.920	3508	48146	1	-2.36
9	8.17	oxalate	601.479	1658	29865	1	-2.27
		Totals	5082.504	32917	297323		

File: 95110601.D17 Sample: S95T002558 SPIKE



BEST AVAILABLE COPY

Sample Name: S95T002559 SPIKE Date: 11/06/1995 06:36:51
Data File : C:\DX\DATA\95110601.D21
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 21 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

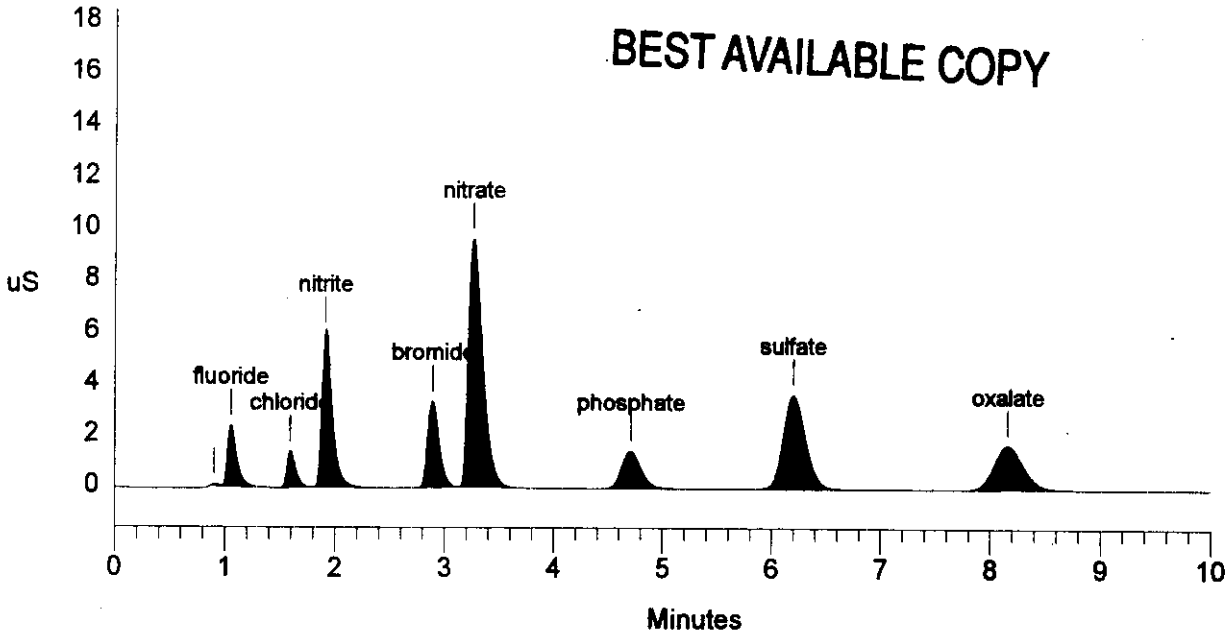
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	74	331	2	
2	1.05	fluoride	96.151	2361	13541	2	1.94
3	1.59	chloride	81.283	1402	7745	1	0.63
4	1.91	nitrite	586.458	5978	38763	1	-0.52
5	2.89	bromide	536.998	3355	23547	1	2.85
6	3.26	nitrate	1426.398	9626	85453	1	3.49
7	4.71	phosphate	623.314	1444	17701	1	-1.67
8	6.20	sulfate	664.953	3653	50394	1	-2.52
9	8.16	oxalate	617.467	1708	30694	1	-2.39
		Totals	4633.022	29601	268166		

File: 95110601.D21 Sample: S95T002559 SPIKE

BEST AVAILABLE COPY



LABCORE Completed Worklist Report for Worklist# 3189

Analyst: kgh **Instrument:** IC01 **Book#** 109MC

Method: LA-533-105 Rev/Mod D-1 95000118

Worklist Comment: BY108 IC. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F-QC	QC	1		<.013		ug/mL
1	CCB			0	@IC-QC	CL-QC	QC	1		<.017		ug/mL
1	CCB			0	@IC-QC	NO2-QC	QC	1		<.170		ug/mL
1	CCB			0	@IC-QC	BR-QC	QC	1		<.126		ug/mL
1	CCB			0	@IC-QC	NO3-QC	QC	1		<.140		ug/mL
1	CCB			0	@IC-QC	PO4-QC	QC	1		<.296		ug/mL
1	CCB			0	@IC-QC	SO4-QC	QC	1		<.136		ug/mL
1	CCB			0	@IC-QC	OXALATQC	QC	1		<.105		ug/mL
2	CCV			0	@IC-QC	F-QC	QC	59		59.5	100.850	% Recovery
2	CCV			0	@IC-QC	CL-QC	QC	79		79	100.000	% Recovery
2	CCV			0	@IC-QC	NO2-QC	QC	536		534.5	99.720	% Recovery
2	CCV			0	@IC-QC	BR-QC	QC	575		570.5	99.220	% Recovery
2	CCV			0	@IC-QC	NO3-QC	QC	614		616.0	100.330	% Recovery
2	CCV			0	@IC-QC	PO4-QC	QC	546		506.0	92.670	% Recovery
2	CCV			0	@IC-QC	SO4-QC	QC	631		620.6	98.350	% Recovery
2	CCV			0	@IC-QC	OXALATQC	QC	552		601.3	108.930	% Recovery
3	BLNK-PREP			0	@IC-01	F-02	SOLID	1		<.013		ug/g
3	BLNK-PREP			0	@IC-01	CL-02	SOLID	1		<.017		ug/g
3	BLNK-PREP			0	@IC-01	NO2-02	SOLID	1		<.107		ug/g
3	BLNK-PREP			0	@IC-01	BR-02	SOLID	1		<.126		ug/g
3	BLNK-PREP			0	@IC-01	NO3-02	SOLID	1		<.140		ug/g
3	BLNK-PREP			0	@IC-01	PO4-02	SOLID	1		<.296		ug/g
3	BLNK-PREP			0	@IC-01	SO4-02	SOLID	1		<.136		ug/g
3	BLNK-PREP			0	@IC-01	OXALATE2	SOLID	1		<.105		ug/g
4	SAMPLE	S95T002560		0	W @IC-01	F-02	SOLID	N/A		6.70e3	182.000	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	CL-02	SOLID	N/A		1.52e3	238.000	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	NO2-02	SOLID	N/A		2.09e4	1.500e+003	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	BR-02	SOLID	N/A	<	1.76e3	1.760e+003	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	NO3-02	SOLID	N/A		1.85e5	1.960e+003	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	PO4-02	SOLID	N/A		8.63e3	4.140e+003	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	SO4-02	SOLID	N/A		1.80e4	1.900e+003	ug/g
4	SAMPLE	S95T002560		0	W @IC-01	OXALATE2	SOLID	N/A		1.09e4	1.470e+003	ug/g
5	DUP	S95T002560		0	W @IC-01	F-02	SOLID	6.70e3		5.93e3	12.190	RPD
5	DUP	S95T002560		0	W @IC-01	CL-02	SOLID	1.52e3		1.40e3 1		RPD
5	DUP	S95T002560		0	W @IC-01	NO2-02	SOLID	2.09e4		1.95e4	6.930	RPD
5	DUP	S95T002560		0	W @IC-01	BR-02	SOLID	<1.76e3		<1.76e3		RPD
5	DUP	S95T002560		0	W @IC-01	NO3-02	SOLID	1.85e5		2.15e5	15.080	RPD
5	DUP	S95T002560		0	W @IC-01	PO4-02	SOLID	8.63e3		5.65e3	41.740	RPD
5	DUP	S95T002560		0	W @IC-01	SO4-02	SOLID	1.80e4		1.64e4	9.300	RPD
5	DUP	S95T002560		0	W @IC-01	OXALATE2	SOLID	1.09e4		1.06e4	2.790	RPD
6	SPK	S95T002560		0	W @IC-01	F-02	SOLID	100		96.2	96.200	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3189

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
6	SPK	S95T002560	0	W	@IC-01	CL-02	SOLID	100		97.9	97.900	% Recovery
6	SPK	S95T002560	0	W	@IC-01	NO2-02	SOLID	100		96.0	96.000	% Recovery
6	SPK	S95T002560	0	W	@IC-01	BR-02	SOLID	100		97.0	97.000	% Recovery
6	SPK	S95T002560	0	W	@IC-01	NO3-02	SOLID	100		97.9	97.900	% Recovery
6	SPK	S95T002560	0	W	@IC-01	PO4-02	SOLID	100		93.1	93.100	% Recovery
6	SPK	S95T002560	0	W	@IC-01	SO4-02	SOLID	100		94.3	94.300	% Recovery
6	SPK	S95T002560	0	W	@IC-01	OXALATE2	SOLID	100		108.8	108.800	% Recovery
7	SAMPLE	S95T002561	0	W	@IC-01	F-02	SOLID	N/A		5.17e3	152.000	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	CL-02	SOLID	N/A		1.82e3	138.000	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	NO2-02	SOLID	N/A		2.25e4	1.250e+003	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	BR-02	SOLID	N/A	<	1.47e3	1.470e+003	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	NO3-02	SOLID	N/A		2.24e5	1.630e+003	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	PO4-02	SOLID	N/A		9.70e3	3.450e+003	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	SO4-02	SOLID	N/A		1.13e4	1.590e+003	ug/g
7	SAMPLE	S95T002561	0	W	@IC-01	OXALATE2	SOLID	N/A		8.07e3	1.220e+003	ug/g
8	DUP	S95T002561	0	W	@IC-01	F-02	SOLID	5.17e3		5.38e3	3.980	RPD
8	DUP	S95T002561	0	W	@IC-01	CL-02	SOLID	1.82e3		1.67e3	8.600	RPD
8	DUP	S95T002561	0	W	@IC-01	NO2-02	SOLID	2.25e4		2.27e4	0.880	RPD
8	DUP	S95T002561	0	W	@IC-01	BR-02	SOLID	<1.47e3		<1.47e3		RPD
8	DUP	S95T002561	0	W	@IC-01	NO3-02	SOLID	2.24e5		1.99e5	11.900	RPD
8	DUP	S95T002561	0	W	@IC-01	PO4-02	SOLID	9.70e3		9.97e3	2.700	RPD
8	DUP	S95T002561	0	W	@IC-01	SO4-02	SOLID	1.13e4		1.20e4	6.010	RPD
8	DUP	S95T002561	0	W	@IC-01	OXALATE2	SOLID	8.07e3		8.41e3	4.130	RPD

Final page for worklist# 3189

Analyst Signature Date

Analyst Signature Date

Reviewer Signature 11/8/95
Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 3189

Analyst: KGH **Instrument:** IC01 _____ **Book #** 109NQ-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY108 IC. JMF Water Digests

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	CCB				@IC-QC	F-QC	QC	1	<.013	N/A	ug/mL
		1	CCB				@IC-QC	CL-QC	QC	↓	<.017	N/A	ug/mL
		1	CCB				@IC-QC	NO2-QC	QC	↓	<.170	N/A	ug/mL
		1	CCB				@IC-QC	BR-QC	QC	↓	<.126	N/A	ug/mL
		1	CCB				@IC-QC	NO3-QC	QC	↓	<.140	N/A	ug/mL
		1	CCB				@IC-QC	PO4-QC	QC	↓	<.296	N/A	ug/mL
		1	CCB				@IC-QC	SO4-QC	QC	↓	<.136	N/A	ug/mL
		1	CCB				@IC-QC	OXALATQC	QC	↓	<.105	N/A	ug/mL
		2	CCV				@IC-QC	F-QC	QC	59	5.95 E1	N/A	ug/mL
		2	CCV				@IC-QC	CL-QC	QC	79	79	N/A	ug/mL
		2	CCV				@IC-QC	NO2-QC	QC	536	534.5	N/A	ug/mL
		2	CCV				@IC-QC	BR-QC	QC	575	~~616.0~~ 570.5	N/A	ug/mL
		2	CCV				@IC-QC	NO3-QC	QC	614	616.0	N/A	ug/mL
		2	CCV				@IC-QC	PO4-QC	QC	546	506.0	N/A	ug/mL
		2	CCV				@IC-QC	SO4-QC	QC	631	620.6	N/A	ug/mL
		2	CCV				@IC-QC	OXALATQC	QC	552	601.3	N/A	ug/mL
		3	BLNK-PREP				@IC-01	F-02	SOLID	1	<.013	N/A	ug/g
		3	BLNK-PREP				@IC-01	CL-02	SOLID	↓	<.017	N/A	ug/g

JMF 11/8/95

Data Entry Comments:

	S95T02560		S95T002561
Sample	7.2220	S→	~~7.5080~~ 8.6610
Duplicate	7.5080	D→	8.9060

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3189

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				aIC-01 NO2-02	SOLID	1	< .107	N/A	ug/g
		3	BLNK-PREP				aIC-01 BR-02	SOLID		< .126	N/A	ug/g
		3	BLNK-PREP				aIC-01 NO3-02	SOLID		< .140	N/A	ug/g
		3	BLNK-PREP				aIC-01 PO4-02	SOLID		< .296	N/A	ug/g
		3	BLNK-PREP				aIC-01 SO4-02	SOLID		< .136	N/A	ug/g
		3	BLNK-PREP				aIC-01 OXALATE2	SOLID		< .105	N/A	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 F-02	SOLID	N/A	6.70^{E3}	1.82^{E2}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 CL-02	SOLID	N/A	1.52^{E3}	2.38^{E2}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 NO2-02	SOLID	N/A	2.09^{E4}	1.50^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 BR-02	SOLID	N/A	$< 1.76^{E3}$	1.76^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 NO3-02	SOLID	N/A	1.85^{E5}	1.96^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 PO4-02	SOLID	N/A	8.63^{E3}	4.14^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 SO4-02	SOLID	N/A	1.80^{E4}	1.90^{E3}	ug/g
95000118	BY-108 (R)	4	SAMPLE	S95T002560	0	W	aIC-01 OXALATE2	SOLID	N/A	1.09^{E4}	1.47^{E3}	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 F-02	SOLID	6.70^{E3}	5.93^{E3}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 CL-02	SOLID	1.52^{E3}	1.40^{E3}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 NO2-02	SOLID	2.09^{E4}	1.95^{E4}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 BR-02	SOLID	$< 1.76^{E3}$	~~$< 1.69^{E3}$~~ $< 1.76^{E3}$ 3 Qmf 11/6/95	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 NO3-02	SOLID	1.85^{E5}	2.15^{E5}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 PO4-02	SOLID	8.63^{E3}	5.65^{E3}	N/A	ug/g
95000118	BY-108 (R)	5	DUP	S95T002560	0	W	aIC-01 SO4-02	SOLID	1.80^{E4}	1.69^{E4}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3189

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	5 DUP	S95T002560	0	W	@IC-01	OXALATE2	SOLID	107E4	1.06 E4	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	F-02	SOLID	100	~~96.~~ 96.2	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	CL-02	SOLID		97.9	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	NO2-02	SOLID		96.0	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	BR-02	SOLID		97.0	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	NO3-02	SOLID		97.9	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	PO4-02	SOLID		93.1	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	SO4-02	SOLID		94.3	N/A	ug/g
95000118	BY-108 (R)	6 SPK	S95T002560	0	W	@IC-01	OXALATE2	SOLID		108.8	N/A	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	F-02	SOLID	N/A	5.17E3	1.52E2	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	CL-02	SOLID	N/A	1.82E3	1.98E2	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	NO2-02	SOLID	N/A	2.25E4	1.25E3	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	BR-02	SOLID	JMF 11/8/95 N/A	<1.45E3	1.47E3	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	NO3-02	SOLID	JMF 11/8/95 N/A	~~<1.63E3~~ 2.24E5	1.63E3	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	PO4-02	SOLID	JMF 11/8/95 N/A	~~1.01E4~~ 9.70E3	3.45E3	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	SO4-02	SOLID	N/A	1.13E4	1.51E3	ug/g
95000118	BY-108 (R)	7 SAMPLE	S95T002561	0	W	@IC-01	OXALATE2	SOLID	N/A	8.07E3	1.22E3	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	@IC-01	F-02	SOLID	5.17E3	5.38E3	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	@IC-01	CL-02	SOLID	1.82E3	1.67E3	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	@IC-01	NO2-02	SOLID	2.25E4	2.27E4	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	@IC-01	BR-02	SOLID	<1.45E3	~~<1.47E3~~ <1.51E3 JMF 11/8/95	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	@IC-01	NO3-02	SOLID	JMF 11/8/95 2.24E5 <1.63E3	1.99E5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3189

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	AIC-01 PO4-02	SOLID	9.70E3 ~~1.04E4~~	9.97E3	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	AIC-01 SO4-02	SOLID	1.13E4	1.20E4	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002561	0	W	AIC-01 OXALATE2	SOLID	8.07E3	8.41E3	N/A	ug/g

gmf 11/8/95

Final page for worklist # 3189

Analyst Signature Date 11-5-95

Analyst Signature Date 11/6/95

Verified 11/8/95 - J.M. Fuge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LAB LEADER INFO	
Method:	In-533-105
Matrix:	solid
Test Code:	IC-01
Work List #:	9189
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N9C
Spike Sample #:	1
Prepared By:	RT STEELE
Prepared Date:	11/06/95
Chemist:	JANN. FRYE
Analyst:	K. HIGBEE
Analysis Date:	11/06/95
Time Complete:	
Instrument Code:	ICO1
Rerun:	0
Sample Prep:	WATER DIGEST
Sample Point:	BY-106
Sample Type	
STANDARD	109N9C
SAMPLE 1	S95T002560
DUPLICATE 1	S95T002560/DUP
SAMPLE 2	S95T002561
DUPLICATE 2	S95T002561/DUP
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T002560/SPK
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.013	<.017	<.107	<.140	<.296	<.136	<.126	<.105
Standard Data (µg/mL)	80.539	78.916	534.503	616.848	586.02	620.536	570.641	691.317
Sample 1 Data (µg/mL)	4.84E+01	1.10E+01	1.51E+02	1.34E+03	6.23E+01	1.30E+02	<.126	7.57E+01
Sample 1 Dilution Factor	101	101	101	101	101	101	101	101
Sample 1 Prep DF	7.222	7.222	7.222	7.222	7.222	7.222	7.222	7.222
Duplicate 1 Data (µg/mL)	4.48E+01	1.06E+01	1.48E+02	1.61E+03	4.34E+01	1.23E+02	<.126	7.98E+01
Duplicate 1 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 1 Prep DF	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Sample 2 Data (µg/mL)	4.48E+01	1.58E+01	1.96E+02	1.94E+03	8.41E+01	9.78E+01	<.126	6.98E+01
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101
Sample 2 Prep DF	8.661	8.661	8.661	8.661	8.661	8.661	8.661	8.661
Duplicate 2 Data (µg/mL)	4.79E+01	1.49E+01	2.02E+02	1.77E+03	8.88E+01	1.07E+02	<.126	7.49E+01
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101
Duplicate 2 Prep DF	8.906	8.906	8.906	8.906	8.906	8.906	8.906	8.906
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	1.05E+02	8.83E+01	6.66E+02	1.94E+03	5.71E+02	7.25E+02	6.58E+02	6.79E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	80	79	536	614	586	631	576	682
Detection Limit	0.013	0.017	0.107	0.140	0.296	0.136	0.126	0.105
Matrix Detection Limit 1	1.82E+02	2.38E+02	1.60E+03	1.96E+03	4.14E+03	1.90E+03	1.76E+03	1.47E+03
Matrix Detection Limit 2	1.82E+02	1.98E+02	1.25E+03	1.63E+03	3.45E+03	1.59E+03	1.47E+03	1.22E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [([Spike+Sample)-(Sample)*(Total Volume)]/[(Spike Vol.)*(Spike Std.)*(Sample DF)]* 100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	100.9%	100.0%	99.7%	100.3%	92.7%	98.4%	98.2%	100.9%
Sample 1 in µg/g	6.70E+03	1.52E+03	2.09E+04	1.85E+05	8.63E+03	1.80E+04	<1752.12	1.05E+04
Duplicate 1 in µg/g	6.93E+03	1.40E+03	1.95E+04	2.15E+05	5.66E+03	1.64E+04	<1694.99	1.06E+04
Duplicate 1 RPD	12.2%	8.6%	7.2%	14.9%	41.7%	9.2%	N/A	2.4%
Sample 2 in µg/g	6.17E+03	1.82E+03	2.26E+04	2.24E+05	9.70E+03	1.13E+04	<1460.36	8.07E+03
Duplicate 2 in µg/g	6.38E+03	1.67E+03	2.27E+04	1.99E+05	9.97E+03	1.20E+04	<1428.92	8.41E+03
Duplicate 2 RPD	3.9%	8.8%	0.8%	11.9%	2.7%	6.4%	N/A	4.0%
Spike % Recovery	98.2%	97.9%	98.0%	97.9%	93.1%	94.3%	97.0%	108.8%

Data Entry by: Jann Frye Date: 11/06/95
Approved by: Jann Frye Date: 11/8/95
Form DIONEX.WB1 Rev. 1.3

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T002560 & S95T002561		
TEST CODE:	IC-01	ANALYST:	K. HIGBEE
INSTRUMENT:	ICO1	ANALYSIS DATE:	11/05/95
WORK LIST #:	3189	SAMPLE POINT:	BY-108
BATCH ID:	N/A	SAMPLE PREP:	WATER DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9C	100.9%	100.0%	99.7%	100.3%	92.7%	98.4%	99.2%	108.9%
S95T002560	6.70E+03	1.52E+03	2.09E+04	1.85E+05	8.63E+03	1.80E+04	<1762.12	1.09E+04
S95T002560/DUP	5.93E+03	1.40E+03	1.95E+04	2.15E+05	5.65E+03	1.64E+04	<1694.99	1.06E+04
Duplicate 1 RPD	12.2%	8.8%	7.2%	14.9%	41.7%	9.2%	N/A	2.4%
S95T002561	5.17E+03	1.82E+03	2.25E+04	2.24E+05	9.70E+03	1.13E+04	<1469.35	8.07E+03
S95T002561/DUP	5.38E+03	1.67E+03	2.27E+04	1.99E+05	9.97E+03	1.20E+04	<1428.92	8.41E+03
Duplicate 2 RPD	3.9%	8.5%	0.8%	11.9%	2.7%	6.4%	N/A	4.0%
S95T002560/SPK	96.2%	97.9%	96.0%	97.9%	93.1%	94.3%	97.0%	108.8%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By:	Joann Fuyo	Date:	11/7/95
Chemist Approval:	Joann Fuyo	Date:	11/8/95

11/5 9mF11/6/95

Sample Name: STANDARD109N9-C Date: ~~03/13~~/1995 17:19:44
Data File : C:\DX\DATA\95110531.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

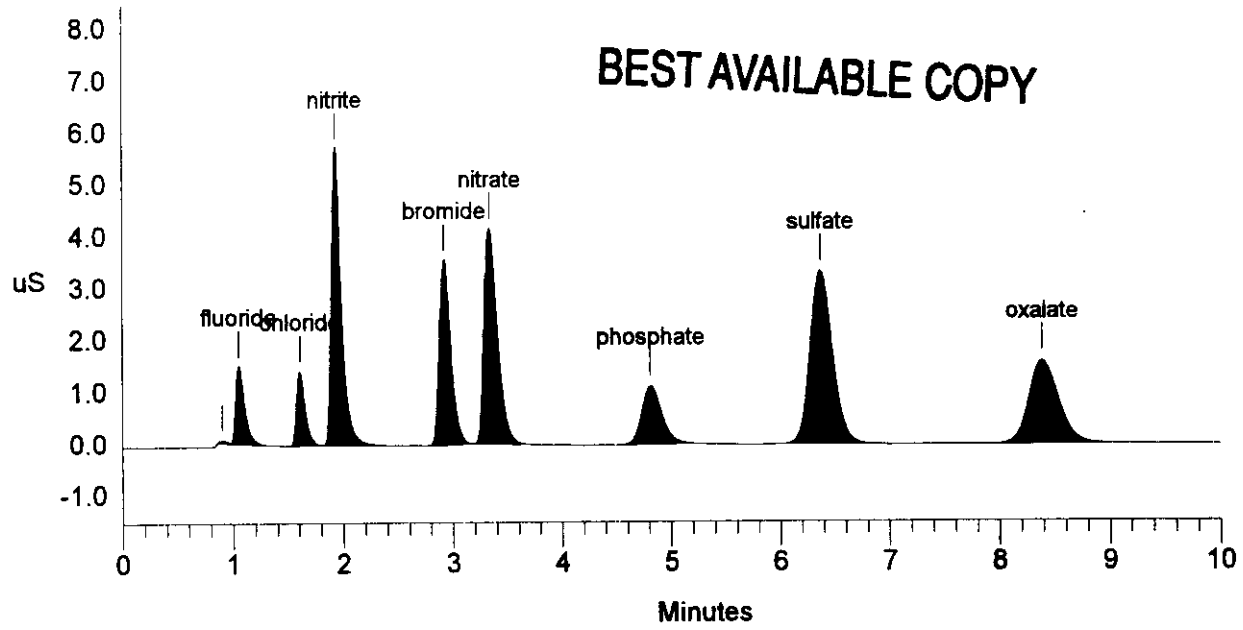
11-5-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	60	278	2	
2	1.05	fluoride	59.539	1478	8221	2	1.94
3	1.61	chloride	79.016	1419	7524	1	1.90
4	1.93	nitrite	534.503	5706	35175	1	0.52
5	2.92	bromide	570.541	3555	25110	1	3.91
6	3.34	nitrate	616.048	4157	35177	1	6.03
7	4.81	phosphate	506.020	1127	14220	1	0.42
8	6.37	sulfate	620.635	3350	46843	1	0.16
9	8.39	oxalate	601.317	1616	29856	1	0.36
		Totals	3587.619	22469	202404		

File: 95110531.D02 Sample: STANDARD109N9-C



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 496 TO 503.

11/15 JMF 11/6/95

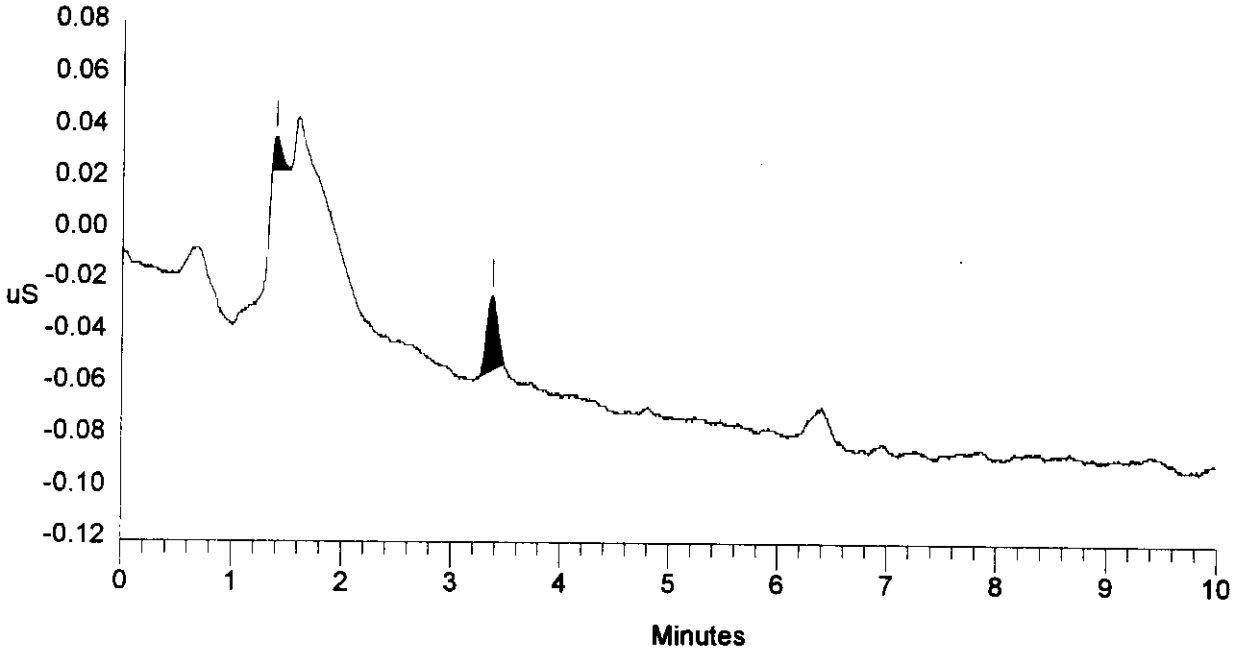
Sample Name: BLANK
Data File : C:\DX\DATA\95110531.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1
Analyst :
Date: ~~03/13~~/1995 16:57:05
Detector:CDM-1
Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95110531.D01 Sample: BLANK



WHC-SD-WM-DP-145, REV. 1

U/61 JMF 4/6/95

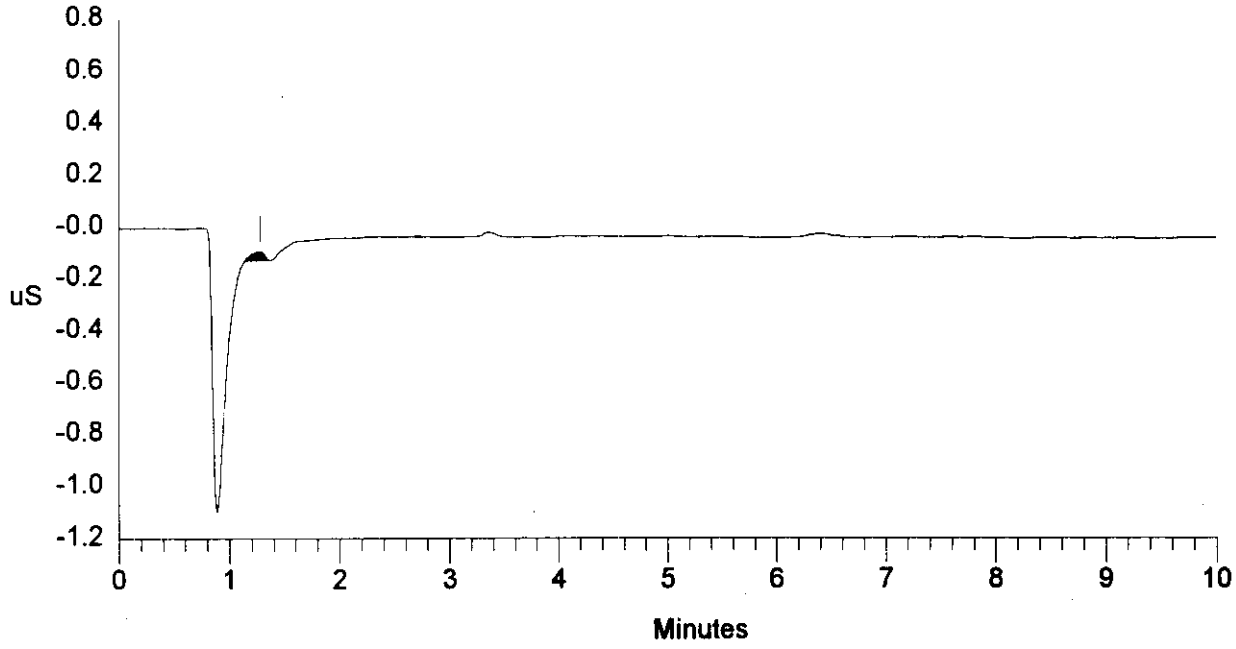
Sample Name: PREP-BLANK	Date: ~~03/13~~/1995 17:50:32
Data File : C:\DX\DATA\95110531.D03	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.28		0.000	35	293	1	
		Totals	0.000	35	293		

File: 95110531.D03 Sample: PREP-BLANK



WHC-SD-WM-DP-145, REV. 1

11/6/ JMF 4/4/95

Sample Name: S95T002560 SAM
Data File : C:\DX\DATA\95110531.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : Column: AG4A/AS4A anion column/SRS

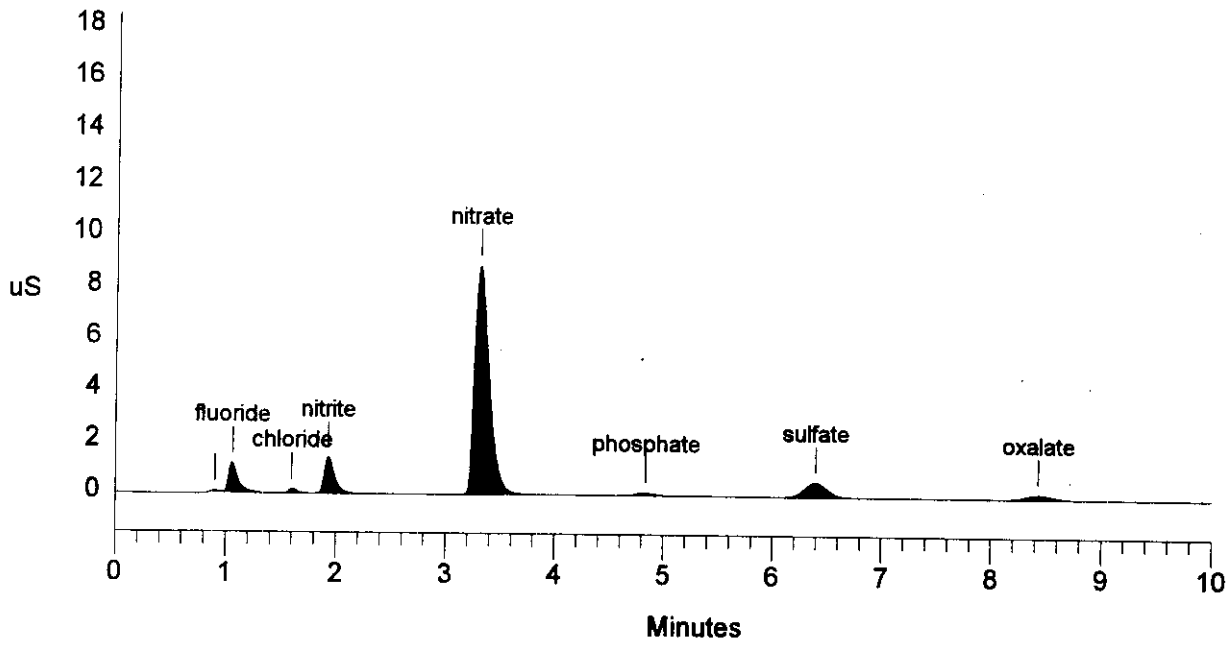
Date: ~~03/13~~/1995 19:02:16
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	53	252	2	
2	1.06	fluoride ✓	48.407	1133	6616	2	2.91
3	1.60	chloride ✓	11.010	176	965	1	1.27
4	1.93	nitrite ✓	151.294	1386	8833	1	0.52
5	3.31	nitrate ✓	1337.546	8871	79848	1	5.08
6	4.84	phosphate ✓	62.336	108	1275	1	1.04
7	6.40	sulfate ✓	129.869	572	8078	1	0.63
8	8.43	oxalate ✓	78.676	174	3014	1	0.84
		Totals	1819.136	12472	108880		

File: 95110531.D04 Sample: S95T002560 SAM



4/5/ JMF 4/4/95

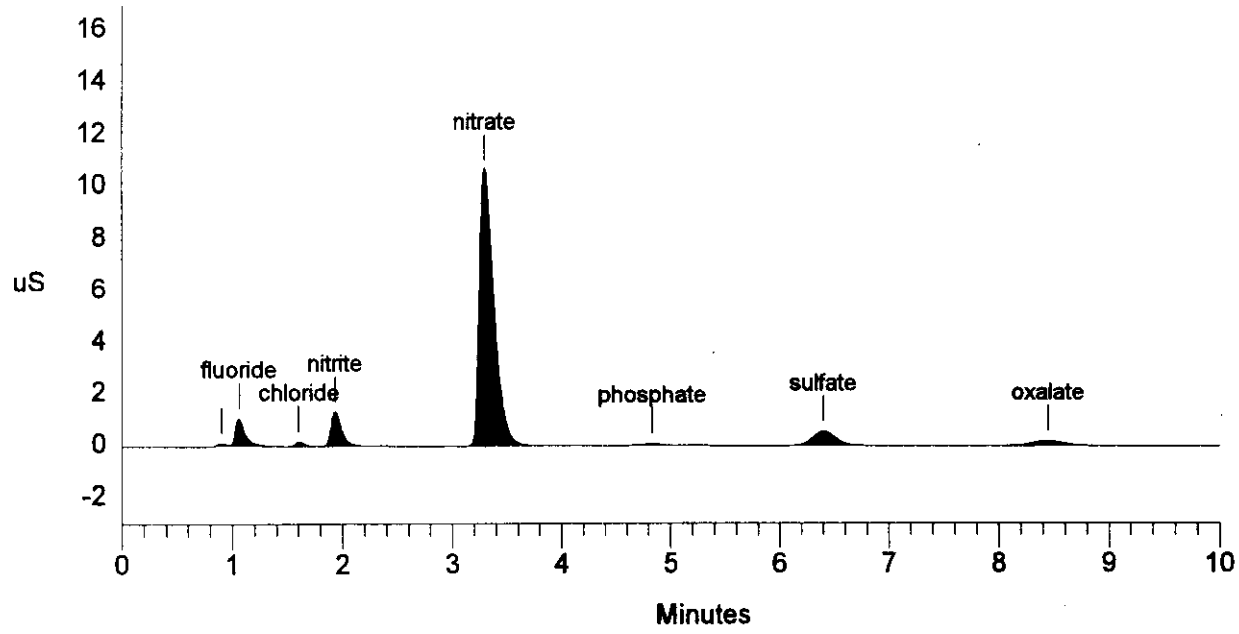
Sample Name: S95T002560 DUP Date: 03/13/1995 19:21:43
Data File : C:\DX\DATA\95110531.D05
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	55	255	2	
2	1.06	fluoride ✓	44.528	1028	6058	2	2.91
3	1.60	chloride ✓	10.478	164	914	1	1.27
4	1.93	nitrite ✓	146.325	1312	8493	1	0.52
5	3.29	nitrate ✓	1613.661	10625	97342	1	4.44
6	4.83	phosphate ✓	42.439	62	702	1	0.84
7	6.40	sulfate ✓	123.081	539	7548	1	0.63
8	8.45	oxalate ✓	79.883	170	3075	1	1.08
		Totals	2060.395	13956	124388		

File: 95110531.D05 Sample: S95T002560 DUP



11/6 JMF 11/4/95

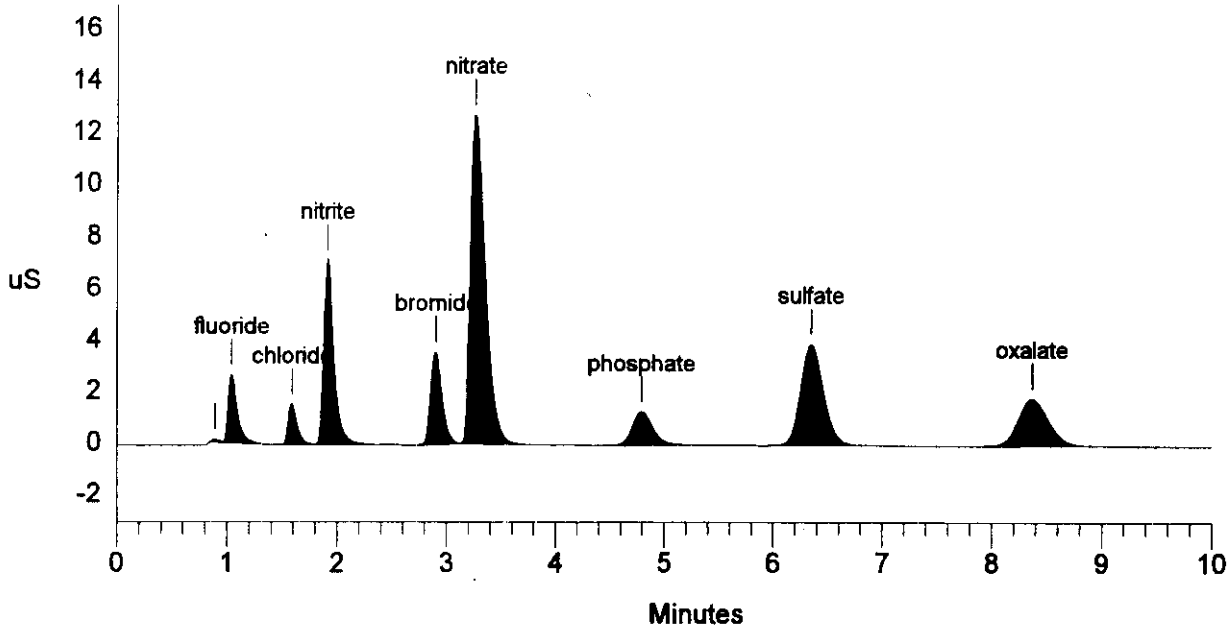
Sample Name: S95T002560 SPK Date: 03/13/1995 19:53:14
Data File : C:\DX\DATA\95110531.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	110	525	2	
2	1.04	fluoride	105.166	2649	14861	2	0.97
3	1.59	chloride	88.327	1576	8432	1	0.63
4	1.91	nitrite	665.927	7126	44257	1	-0.52
5	2.90	bromide	557.852	3592	24518	1	3.20
6	3.26	nitrate	1938.769	12712	118242	1	3.49
7	4.79	phosphate	570.797	1281	16139	1	0.00
8	6.35	sulfate	724.825	3934	55205	1	-0.16
9	8.37	oxalate	679.394	1832	33912	1	0.12
		Totals	5331.056	34811	316090		

File: 95110531.D06 Sample: S95T002560 SPK



11/5/ JMF 11/6/95

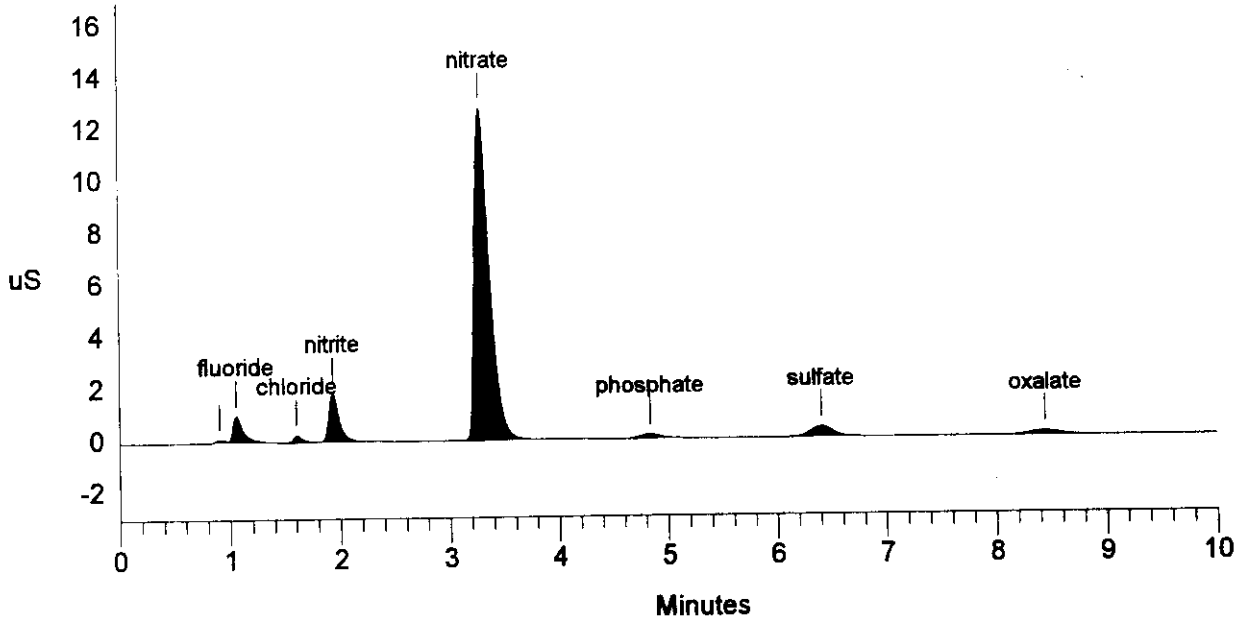
Sample Name: S95T002561 SAM Date: 03/13/1995 20:11:04
Data File : C:\DX\DATA\95110531.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	69	338	2	
2	1.05	fluoride	44.782	976	6095	2	1.94
3	1.60	chloride	15.772	260	1420	1	1.27
4	1.93	nitrite	194.998	1865	11827	1	0.52
5	3.28	nitrate	1941.651	12787	118429	1	4.13
6	4.83	phosphate	84.054	157	1900	1	0.84
7	6.40	sulfate	97.556	400	5560	1	0.63
8	8.44	oxalate	69.932	146	2569	1	0.96
		Totals	2448.745	16661	148139		

File: 95110531.D07 Sample: S95T002561 SAM



4/5/95 MF 1/4/95

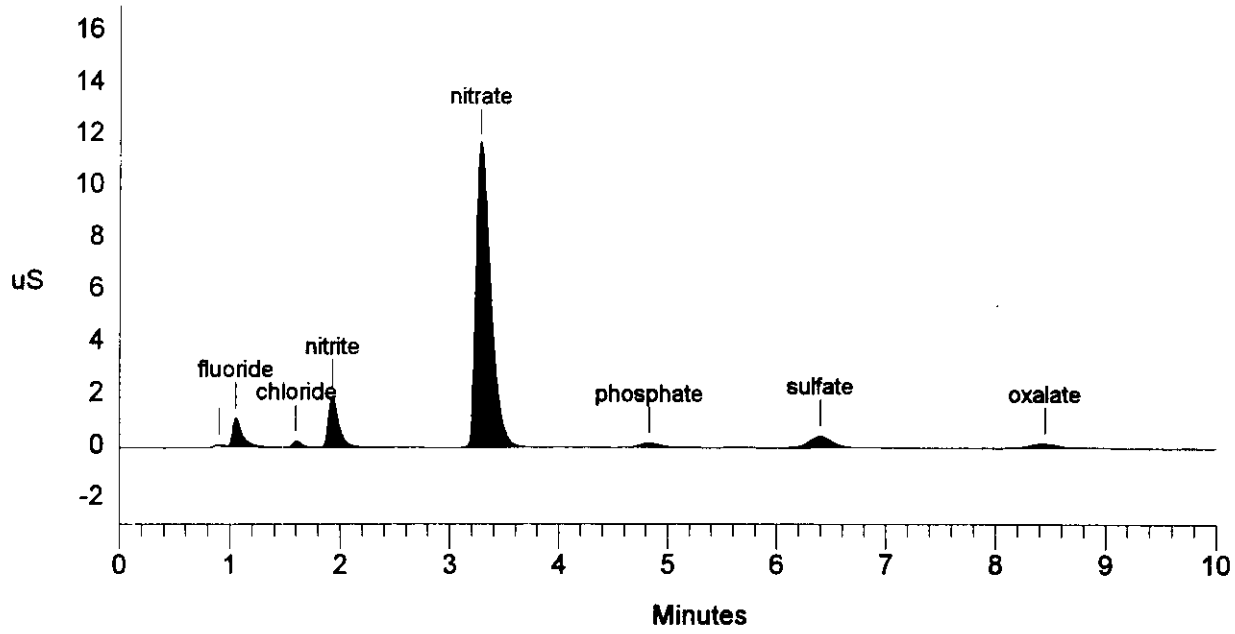
Sample Name: S95T002561 DUP Date: 03/13/1995 20:27:31
Data File : C:\DX\DATA\95110531.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	66	307	2	
2	1.05	fluoride	47.888	1058	6541	2	1.94
3	1.60	chloride	14.901	244	1337	1	1.27
4	1.93	nitrite	202.045	1958	12310	1	0.52
5	3.28	nitrate	1771.976	11664	107478	1	4.13
6	4.83	phosphate	88.799	168	2037	1	0.84
7	6.40	sulfate	106.966	446	6293	1	0.63
8	8.45	oxalate	74.882	158	2821	1	1.08
		Totals	2307.457	15763	139125		

File: 95110531.D08 Sample: S95T002561 DUP



LABCORE Completed Worklist Report for Worklist# 3191

Analyst: pjm **Instrument:** IC01 **Book#** 109N9D

Method: LA533105 Rev/Mod D-1 95000118

Worklist Comment: BY108 IC.JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<.013	ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<.017	ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<.170	ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<.126	ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<.140	ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<.296	ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<.136	ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<.105	ug/mL
2	CCV			0	@IC-QC	F	QC	59		59.8	101.360 % Recovery
2	CCV			0	@IC-QC	CL	QC	79		78.6	99.490 % Recovery
2	CCV			0	@IC-QC	NO2	QC	541		510.6	94.400 % Recovery
2	CCV			0	@IC-QC	BR	QC	575		572.7	99.600 % Recovery
2	CCV			0	@IC-QC	NO3	QC	614		599.4	97.620 % Recovery
2	CCV			0	@IC-QC	PO4	QC	546		522.1	95.620 % Recovery
2	CCV			0	@IC-QC	SO4	QC	631		613	97.150 % Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	533		556.4	104.400 % Recovery
3	BLNK-PREP			0	@IC-01	F-02	SOLID	1		<.013	ug/g
3	BLNK-PREP			0	@IC-01	CL-02	SOLID	1		<.017	ug/g
3	BLNK-PREP			0	@IC-01	NO2-02	SOLID	1		<.107	ug/g
3	BLNK-PREP			0	@IC-01	BR-02	SOLID	1		<.126	ug/g
3	BLNK-PREP			0	@IC-01	NO3-02	SOLID	1		<.140	ug/g
3	BLNK-PREP			0	@IC-01	PO4-02	SOLID	1		<.296	ug/g
3	BLNK-PREP			0	@IC-01	SO4-02	SOLID	1		<.136	ug/g
3	BLNK-PREP			0	@IC-01	OXALATE2	SOLID	1		<.105	ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	F-02	SOLID	N/A		3.38e3	97.200 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	CL-02	SOLID	N/A		1.48e3	95.000 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	NO2-02	SOLID	N/A		2.14e4	800.000 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	BR-02	SOLID	N/A	<	9.43e2	943.000 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	NO3-02	SOLID	N/A		1.50e5	1.050e+003 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	PO4-02	SOLID	N/A		8.11e3	2.210e+003 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	SO4-02	SOLID	N/A		8.99e3	1.020e+003 ug/g
4	SAMPLE	S95T002562		0 W	@IC-01	OXALATE2	SOLID	N/A		4.87e3	785.000 ug/g
5	DUP	S95T002562		0 W	@IC-01	F-02	SOLID	3.38e3		8.72e3	88.260 RPD
5	DUP	S95T002562		0 W	@IC-01	CL-02	SOLID	1.48e3		9.70e2	41.630 RPD
5	DUP	S95T002562		0 W	@IC-01	NO2-02	SOLID	2.14e4		1.48e4	36.460 RPD
5	DUP	S95T002562		0 W	@IC-01	BR-02	SOLID	<9.43e2		<8.62e2	RPD
5	DUP	S95T002562		0 W	@IC-01	NO3-02	SOLID	1.50e5		9.49e4	45.000 RPD
5	DUP	S95T002562		0 W	@IC-01	PO4-02	SOLID	8.11e3		6.72e4	156.920 RPD
5	DUP	S95T002562		0 W	@IC-01	SO4-02	SOLID	8.99e3		5.88e3	41.830 RPD
5	DUP	S95T002562		0 W	@IC-01	OXALATE2	SOLID	4.87e3		3.31e3	38.140 RPD
6	SPK	S95T002562		0 W	@IC-01	F-02	SOLID	100		88.9	88.900 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3191

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
6	SPK	S95T002562	0	W	@IC-01	CL-02	SOLID	100		94.5	94.500	% Recovery
6	SPK	S95T002562	0	W	@IC-01	NO2-02	SOLID	100		91.4	91.400	% Recovery
6	SPK	S95T002562	0	W	@IC-01	BR-02	SOLID	100		95.4	95.400	% Recovery
6	SPK	S95T002562	0	W	@IC-01	NO3-02	SOLID	100		103.3	103.300	% Recovery
6	SPK	S95T002562	0	W	@IC-01	PO4-02	SOLID	100		95.2	95.200	% Recovery
6	SPK	S95T002562	0	W	@IC-01	SO4-02	SOLID	100		93.6	93.600	% Recovery
6	SPK	S95T002562	0	W	@IC-01	OXALATE2	SOLID	100		104.0	104.400	% Recovery
7	SAMPLE	S95T002563	0	W	@IC-01	F-02	SOLID	N/A		8.20e3	115.000	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	CL-02	SOLID	N/A		1.44e3	113.000	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	NO2-02	SOLID	N/A		2.10e4	949.000	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	BR-02	SOLID	N/A	<	1.12e3	1.120e+003	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	NO3-02	SOLID	N/A		2.41e5	1.240e+003	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	PO4-02	SOLID	N/A		1.02e4	2.630e+003	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	SO4-02	SOLID	N/A		2.79e4	1.210e+003	ug/g
7	SAMPLE	S95T002563	0	W	@IC-01	OXALATE2	SOLID	N/A		1.11e4	932.000	ug/g
8	DUP	S95T002563	0	W	@IC-01	F-02	SOLID	8.20e3		8.28e3	0.970	RPD
8	DUP	S95T002563	0	W	@IC-01	CL-02	SOLID	1.44e3		1.52e3	5.410	RPD
8	DUP	S95T002563	0	W	@IC-01	NO2-02	SOLID	2.10e4		2.23e4	6.000	RPD
8	DUP	S95T002563	0	W	@IC-01	BR-02	SOLID	<1.12e3		<1.10e3		RPD
8	DUP	S95T002563	0	W	@IC-01	NO3-02	SOLID	2.41e5		2.22e5	8.210	RPD
8	DUP	S95T002563	0	W	@IC-01	PO4-02	SOLID	1.02e4		8.18e3	21.980	RPD
8	DUP	S95T002563	0	W	@IC-01	SO4-02	SOLID	2.79e4		2.90e4	3.870	RPD
8	DUP	S95T002563	0	W	@IC-01	OXALATE2	SOLID	1.11e4		1.11e4	0.000	RPD

Final page for worklist# 3191

Analyst Signature **Date**

Analyst Signature **Date**

James Luey 11/14/95

Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 3191

Analyst: RS McCown **Instrument:** IC01 _____ **Book #** 10909D

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY108 IC.JMF Water Digests

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
		1	CCB				AIC-QC	F-QC	QC	1	<.013	N/A	ug/mL
		1	CCB				AIC-QC	CL-QC	QC		<.017	N/A	ug/mL
		1	CCB				AIC-QC	NO2-QC	QC		<.176	N/A	ug/mL
		1	CCB				AIC-QC	BR-QC	QC		<.126	N/A	ug/mL
		1	CCB				AIC-QC	NO3-QC	QC		<.140	N/A	ug/mL
		1	CCB				AIC-QC	PO4-QC	QC		<.296	N/A	ug/mL
		1	CCB				AIC-QC	SO4-QC	QC		<.136	N/A	ug/mL
		1	CCB				AIC-QC	OXALATQC	QC		<.105	N/A	ug/mL
		2	CCV				AIC-QC	F-QC	QC	59	59.8	N/A	ug/mL
		2	CCV				AIC-QC	CL-QC	QC	79	78.6	N/A	ug/mL
		2	CCV				AIC-QC	NO2-QC	QC	JMF 11/14/95 ~~534~~ 541	510.6	N/A	ug/mL
		2	CCV				AIC-QC	BR-QC	QC	575	572.7	N/A	ug/mL
		2	CCV				AIC-QC	NO3-QC	QC	614	599.4	N/A	ug/mL
		2	CCV				AIC-QC	PO4-QC	QC	546	522.1	N/A	ug/mL
		2	CCV				AIC-QC	SO4-QC	QC	631	613.	N/A	ug/mL
		2	CCV				AIC-QC	OXALATQC	QC	JMF 11/14/95 ~~526~~ 533	556.4	N/A	ug/mL
		3	BLNK-PREP				AIC-01	F-02	SOLID	1	<.013	N/A	ug/g
		3	BLNK-PREP				AIC-01	CL-02	SOLID	1	<.017	N/A	ug/g

Data Entry Comments:

Samples	dups
6.8180	7.4590
5.7480	5.8160

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3191

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3 BLNK-PREP			@IC-01	NO2-02	SOLID	1	<.107	N/A	ug/g
		3 BLNK-PREP			@IC-01	BR-02	SOLID		<.126	N/A	ug/g
		3 BLNK-PREP			@IC-01	NO3-02	SOLID		<.140	N/A	ug/g
		3 BLNK-PREP			@IC-01	PO4-02	SOLID		<.296	N/A	ug/g
		3 BLNK-PREP			@IC-01	SO4-02	SOLID		<.136	N/A	ug/g
		3 BLNK-PREP			@IC-01	OXALATE2	SOLID		<.105	N/A	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	F-02	SOLID	N/A	3.38^{E3}	9.72^{E1}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	CL-02	SOLID	N/A	1.48^{E3}	9.50^{E1}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	NO2-02	SOLID	N/A	2.14^{E4}	8.00^{E2}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	BR-02	SOLID	N/A	$<9.42^{E2}$	9.43^{E2}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	NO3-02	SOLID	N/A	1.50^{E3}	1.05^{E3}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	PO4-02	SOLID	N/A	8.11^{E3}	2.21^{E3}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	SO4-02	SOLID	N/A	8.99^{E3}	1.02^{E3}	ug/g
95000118	BY-108 (R)	4 SAMPLE	S95T002562	0	W	@IC-01	OXALATE2	SOLID	N/A	4.87^{E3}	7.85^{E2}	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	F-02	SOLID	3.38^{E3}	8.72^{E3}	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	CL-02	SOLID	1.48^{E3}	9.70^{E2}	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	NO2-02	SOLID	2.14^{E4}	1.48^{E4}	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	BR-02	SOLID	$<9.42^{E2}$	$<8.62^{E2}$	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	NO3-02	SOLID	1.50^{E3}	9.49^{E4}	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	PO4-02	SOLID	8.11^{E3}	6.72^{E4}	N/A	ug/g
95000118	BY-108 (R)	5 DUP	S95T002562	0	W	@IC-01	SO4-02	SOLID	8.99^{E3}	5.88^{E3}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3191

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	5	DUP	S95T002562	0	W	@IC-01 OXALATE2	SOLID	4.87 E3	3.31 E3	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 F-02	SOLID	100	88.9	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 CL-02	SOLID		94.5	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 NO2-02	SOLID		91.4 ~~92.6~~ JMF 11/14/95	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 BR-02	SOLID		95.4	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 NO3-02	SOLID		103.3	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 PO4-02	SOLID		95.2	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 SO4-02	SOLID		93.6	N/A	ug/g
95000118	BY-108 (R)	6	SPK	S95T002562	0	W	@IC-01 OXALATE2	SOLID		103.0 ~~104.4~~ JMF 11/14/95	N/A	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 F-02	SOLID	N/A	8.20 E3	1.15 E2	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 CL-02	SOLID	N/A	1.44 E3	1.13 E2	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 NO2-02	SOLID	N/A	2.10 E4	9.49 E2	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 BR-02	SOLID	N/A	< 1.12 E3	1.12 E3	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 NO3-02	SOLID	N/A	2.41 E5	1.24 E3	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 PO4-02	SOLID	N/A	1.02 E4	2.63 E3	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 SO4-02	SOLID	N/A	2.79 E4	1.21 E3	ug/g
95000118	BY-108 (R)	7	SAMPLE	S95T002563	0	W	@IC-01 OXALATE2	SOLID	N/A	1.11 E4	9.32 E2	ug/g
95000118	BY-108 (R)	8	DUP	S95T002563	0	W	@IC-01 F-02	SOLID	8.20 E3	8.28 E3	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002563	0	W	@IC-01 CL-02	SOLID	1.44 E3	1.52 E3	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002563	0	W	@IC-01 NO2-02	SOLID	2.10 E4	2.23 E4	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002563	0	W	@IC-01 BR-02	SOLID	< 1.12 E3	< 1.10 E3	N/A	ug/g
95000118	BY-108 (R)	8	DUP	S95T002563	0	W	@IC-01 NO3-02	SOLID	2.41 E5	2.22 E3	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3191

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------		MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	8 DUP	S95T002563	0	W	@IC-01	PO4-02	SOLID	1.02e4	8.18e3	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002563	0	W	@IC-01	SO4-02	SOLID	2.79e4	2.90e4	N/A	ug/g
95000118	BY-108 (R)	8 DUP	S95T002563	0	W	@IC-01	OXALATE2	SOLID	1.11e4	1.11e4	N/A	ug/g

Final page for worklist # 3191

RF McCown 11/7/95
Analyst Signature Date

[signature] 11/9/95
Analyst Signature Date

Verified 11/14/95. JM Luey

Severe RPD problems on S95T002562 indicate need for reprep/re homogenize and re run if RL desires. JM Luey

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T002562 & S95T002563		
TEST CODE:	@IC-01	ANALYST:	P. McCOWN
INSTRUMENT:	IC01	ANALYSIS DATE:	11/07/95
WORK LIST #:	3191	SAMPLE POINT:	BY-108
BATCH ID:	N/A	SAMPLE PREP:	H20-DIGEST

Result Units µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9D	101.4%	99.5%	94.4%	97.6%	95.6%	97.1%	99.6%	104.4%
S95T002562	3.38E+03	1.48E+03	2.14E+04	1.50E+05	8.11E+03	8.99E+03	<942.51	4.87E+03
S95T002563/DUP	8.72E+03	9.70E+02	1.48E+04	9.49E+04	6.72E+04	5.88E+03	<861.51	3.31E+03
Duplicate 1 RPD	88.2%	41.3%	36.7%	45.2%	156.9%	41.8%	N/A	38.2%
S95T002563	8.20E+03	1.44E+03	2.10E+04	2.41E+05	1.02E+04	2.79E+04	<1117.95	1.11E+04
S95T002563/DUP	8.28E+03	1.52E+03	2.23E+04	2.22E+05	8.18E+03	2.90E+04	<1104.88	1.11E+04
Duplicate 2 RPD	0.9%	5.3%	6.1%	8.0%	22.3%	3.7%	N/A	0.4%
S95T002563/SPK	88.9%	94.5%	91.4%	103.3%	95.2%	93.6%	95.4%	103.0%

NARRATIVE: Analyst Comments:

Chemist Comments:

Reprinted form & corrected labcore for data entry error on standard concentration. JMFuye

Form Completed By:	JM Fuye	Date:	11/14/95
Chemist Approval:	Joan Fuye	Date:	11/14/95

510

LAB LEADER INFO	
Method:	LA-533-105
Matrix:	SOLID
Test Code:	IC-01
Work List #:	3191
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N9D
Spike Sample #:	1
Prepared By:	RT STEELE
Prepared Date:	11/09/95
Chemist:	J. FRYE
Analyst:	P. McCOWN
Analysis Date:	11/07/95
Time Complete:	02:40 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	H2O-DIGEST
Sample Point:	BY-106
Sample Type	
STANDARD	109N9D
SAMPLE 1	S95T002562
DUPLICATE 1	S95T002563/DUP
SAMPLE 2	S95T002563
DUPLICATE 2	S95T002563/DUP
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T002563/SPK
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.013	<.017	<.107	<.140	<.296	<.136	<.126	<.196
Standard Data (µg/mL)	59.836	78.6	516.622	606.366	522.676	612.904	572.86	586.452
Sample 1 Data (µg/mL)	2.31E+01	1.91E+01	1.49E+02	1.83E+03	5.83E+01	6.13E+01	<.126	3.33E+01
Sample 1 Dilution Factor	51	51	51	51	51	51	51	51
Sample 1 Prep DF g/L	6.818	6.818	6.818	6.818	6.818	6.818	6.818	6.818
Duplicate 1 Data (µg/mL)	6.81E+01	7.24E+00	1.10E+02	7.66E+02	5.91E+02	4.39E+01	<.126	2.47E+01
Duplicate 1 Dilution Factor	51	51	51	51	51	51	51	51
Duplicate 1 Prep DF g/L	7.469	7.469	7.469	7.469	7.469	7.469	7.469	7.469
Sample 2 Data (µg/mL)	4.72E+01	5.27E+00	1.21E+02	1.38E+03	5.88E+01	1.60E+02	<.126	9.36E+01
Sample 2 Dilution Factor	51	51	51	51	51	51	51	51
Sample 2 Prep DF g/L	5.748	5.748	5.748	5.748	5.748	5.748	5.748	5.748
Duplicate 2 Data (µg/mL)	4.82E+01	5.83E+00	1.30E+02	1.29E+03	4.75E+01	1.69E+02	<.126	6.48E+01
Duplicate 2 Dilution Factor	51	51	51	51	51	51	51	51
Duplicate 2 Prep DF g/L	5.816	5.816	5.816	5.816	5.816	5.816	5.816	5.816
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	4.93E+01	4.74E+01	3.93E+02	1.34E+03	3.16E+02	3.67E+02	2.74E+02	3.88E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20
Std. Conc. (µg/mL)	59	79	541	614	548	631	575	533
Detection Limit	0.013	0.013	0.107	0.140	0.296	0.136	0.126	0.196
Matrix Detection Limit 1	9.72E+01	9.50E+01	8.00E+02	1.06E+03	2.21E+03	1.02E+03	9.43E+02	7.85E+02
Matrix Detection Limit 2	1.15E+02	1.13E+02	9.49E+02	1.24E+03	2.63E+03	1.21E+03	1.12E+03	9.32E+02
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [((Spike+Sample)-(Sample)*(Total Volume))/((Spike Vol.)*(Spike Std.)*(Sample DF))*100%
Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)
Less than Values are Calculated from the Detection Limit*Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	101.4%	99.8%	94.4%	97.8%	96.8%	97.1%	99.8%	104.4%
Sample 1 in µg/g	3.38E+03	1.48E+03	2.14E+04	1.80E+05	8.11E+03	8.68E+03	<842.81	4.87E+03
Duplicate 1 in µg/g	8.72E+03	9.70E+02	1.48E+04	9.49E+04	6.72E+04	5.88E+03	<861.81	3.31E+03
Duplicate 1 RPD	88.2%	41.3%	36.7%	45.2%	156.9%	41.8%	N/A	38.2%
Sample 2 in µg/g	6.20E+03	1.44E+03	2.10E+04	2.41E+05	1.02E+04	2.79E+04	<1117.86	1.11E+04
Duplicate 2 in µg/g	6.28E+03	1.52E+03	2.23E+04	2.22E+05	8.18E+03	2.90E+04	<1104.88	1.11E+04
Duplicate 2 RPD	0.9%	5.3%	6.1%	8.0%	22.3%	3.7%	N/A	0.4%
Spike % Recovery	98.9%	94.8%	91.4%	103.3%	98.2%	93.8%	96.4%	103.8%

Data Entry by: Jane Fryer Date: 11/14/95
Approved by: Jane Fryer Date: 11/14/95

Form DIONEX.WB1 Rev. 1.3

```
Sample Name: CCB ELUENT BLANK                    Date: 11/07/1995 02:12:18
Data File  : C:\DX\DATA\95110701.D02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 2                    Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

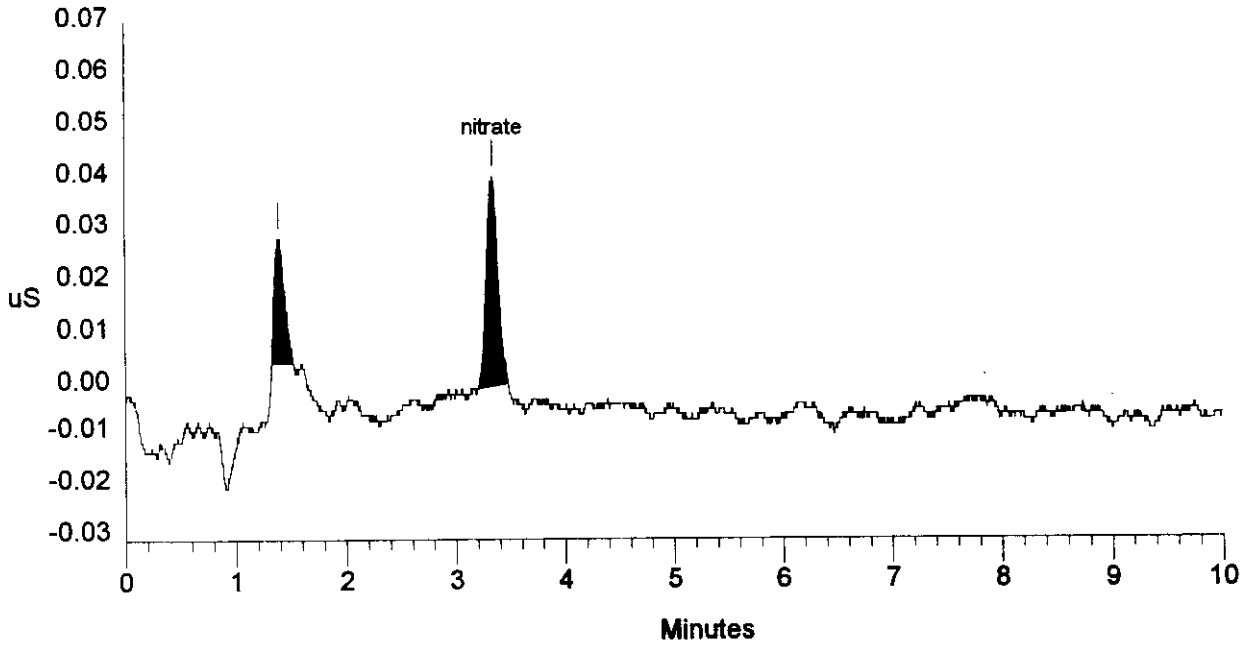
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.34	nitrate	0.357	41	286	1	6.03
		Totals	0.357	41	286		

DIRECT RJ McCown 11/7/95

File: 95110701.D02 Sample: CCB ELUENT BLANK



```
Sample Name: CCV 109N9D                          Date: 11/07/1995 02:25:56
Data File  : C:\DX\DATA\95110701.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 3                    Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

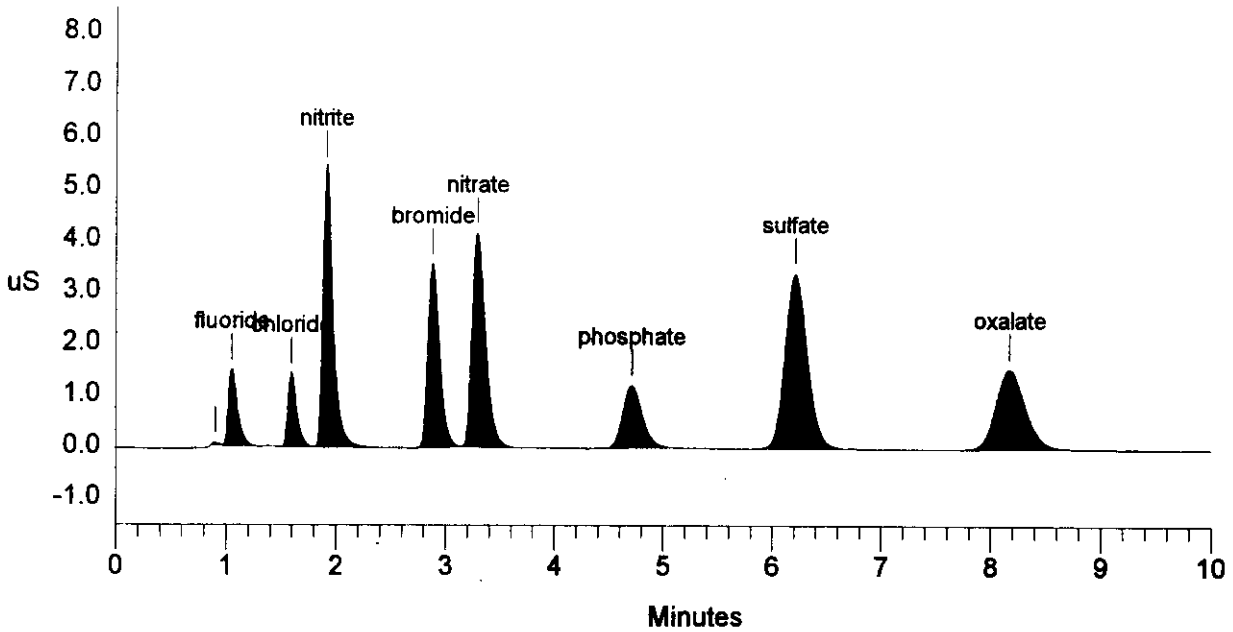
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	48	204	2	
2	1.05	fluoride	59.835	1472	8264	2	1.94
3	1.59	chloride	78.600	1411	7483	1	0.63
4	1.91	nitrite	510.622	5407	33528	1	-0.52
5	2.88	bromide	572.680	3535	25210	1	2.49
6	3.29	nitrate	599.366	4127	34161	1	4.44
7	4.71	phosphate	522.076	1204	14695	1	-1.67
8	6.21	sulfate	612.984	3373	46230	1	-2.36
9	8.17	oxalate	556.452	1533	27531	1	-2.27
		Totals	3512.615	22109	197306		

• 100mL - 10mL RA McCown 11/7/95

File: 95110701.D03 Sample: CCV 109N9D



```
Sample Name: PREP BLANK                          Date: 11/07/1995 02:40:43
Data File  : C:\DX\DATA\95110701.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 4                        Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

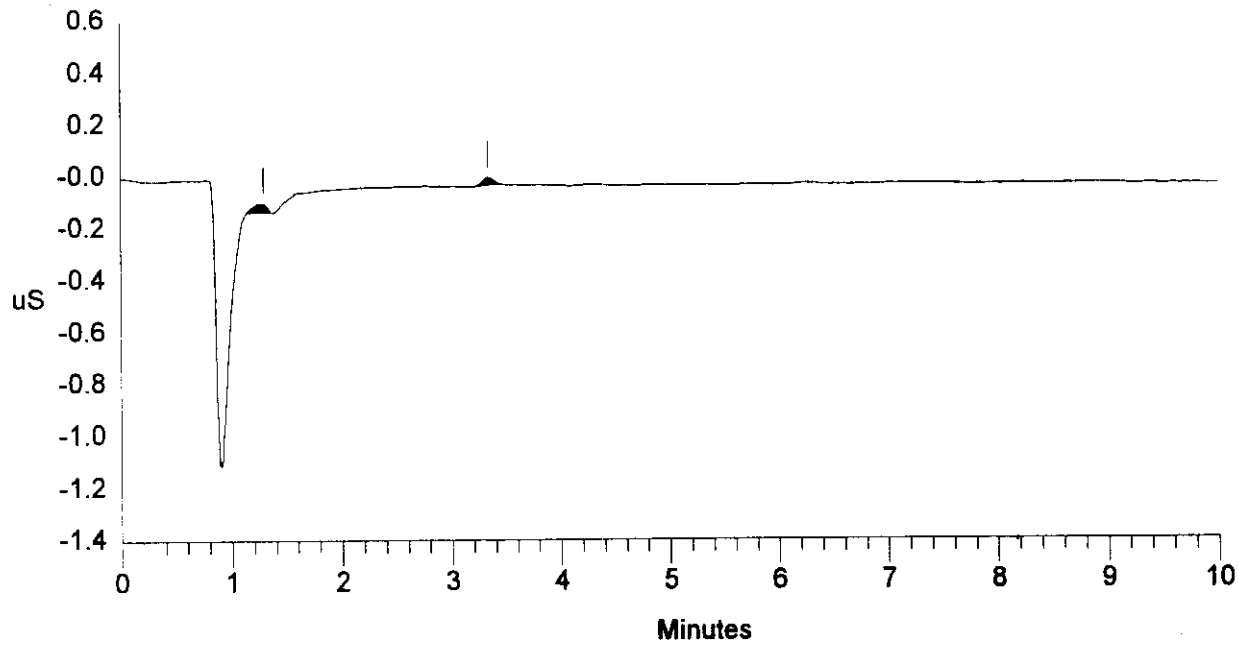
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.29		0.000	34	292	1	
		Totals	0.000	34	292		

DIRECT RJMcCown 11/7/95

File: 95110701.D04 Sample: PREP BLANK



```
Sample Name: S95T002562 SAMPLE                    Date: 11/07/1995 02:52:03
Data File  : C:\DX\DATA\95110701.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 5                        Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

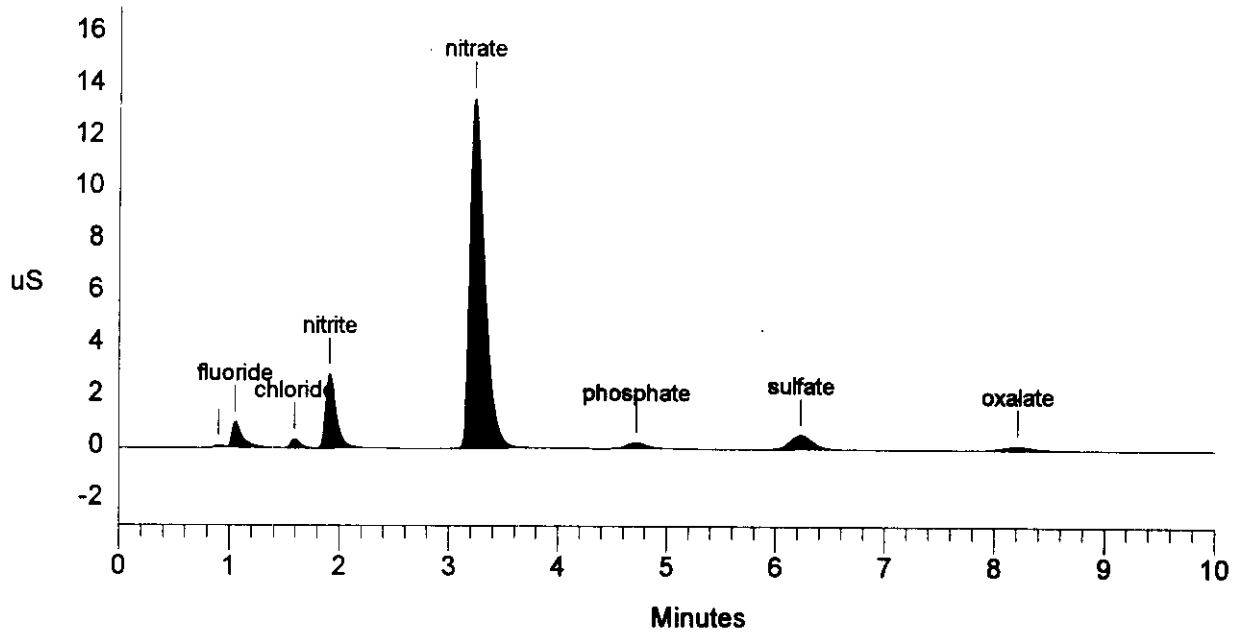
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	61	307	2	
2	1.05	fluoride	23.057	964	6221	2	1.94
3	1.59	chloride	10.057	335	1817	1	0.63
4	1.91	nitrite	145.868	2830	18267	1	-0.52
5	3.23	nitrate	1025.372	13538	124209	1	2.54
6	4.72	phosphate	55.324	222	2636	1	-1.46
7	6.23	sulfate	61.305	539	7418	1	-2.04
8	8.21	oxalate	33.186	138	2355	1	-1.79
		Totals	1354.168	18627	163231		

•200mL - 10mL RJ McCown 11/7/95

File: 95110701.D05 Sample: S95T002562 SAMPLE



```
Sample Name: S95T002562 DUPLICATE          Date: 11/07/1995 03:12:50
Data File  : C:\DX\DATA\95110701.D06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 6                    Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

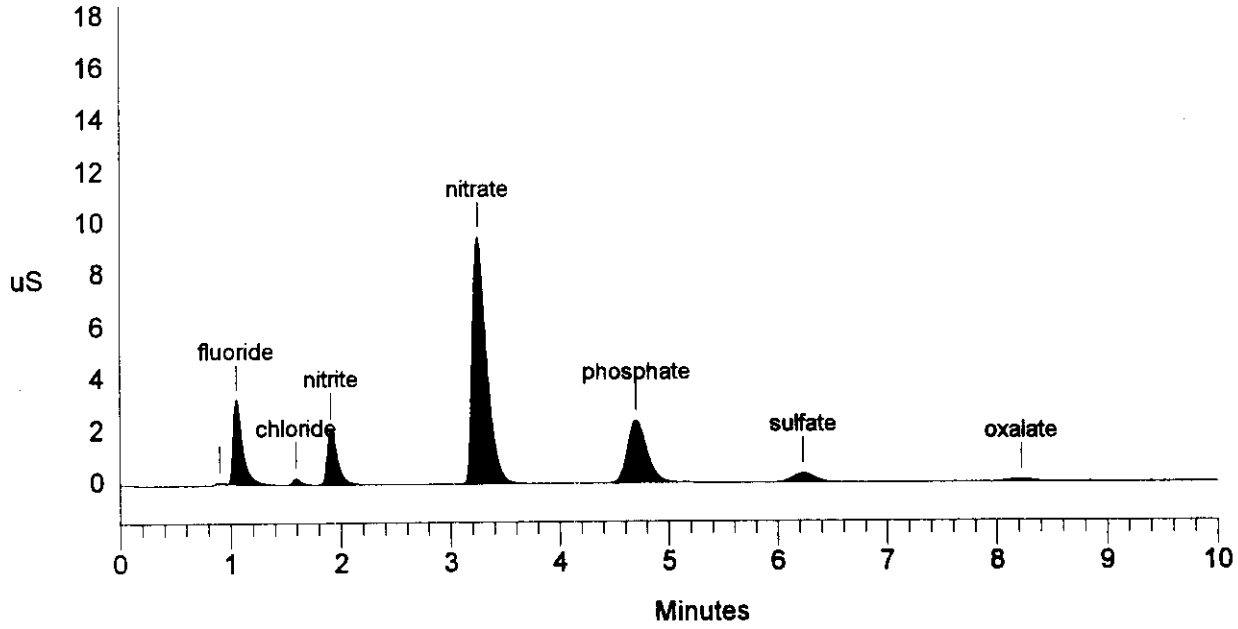
********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	63	285	2	
2	1.05	fluoride	65.051	3206	18344	2	1.94
3	1.59	chloride	7.238	242	1283	1	0.63
4	1.91	nitrite	110.077	2140	13404	1	-0.52
5	3.25	nitrate	707.831	9498	83898	1	3.17
6	4.70	phosphate	501.181	2393	28827	1	-1.88
7	6.23	sulfate	43.868	342	4729	1	-2.04
8	8.22	oxalate	24.672	89	1498	1	-1.67
		Totals	1459.918	17973	152268		

.200mL - 10mL

RL McCown 11/7/95

File: 95110701.D06 Sample: S95T002562 DUPLICATE



WHC-SD-WM-DP-145, REV. 1

Sample Name: S95T002563 SAMPLE Date: 11/07/1995 04:44:08
Data File : C:\DX\DATA\95110701.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS

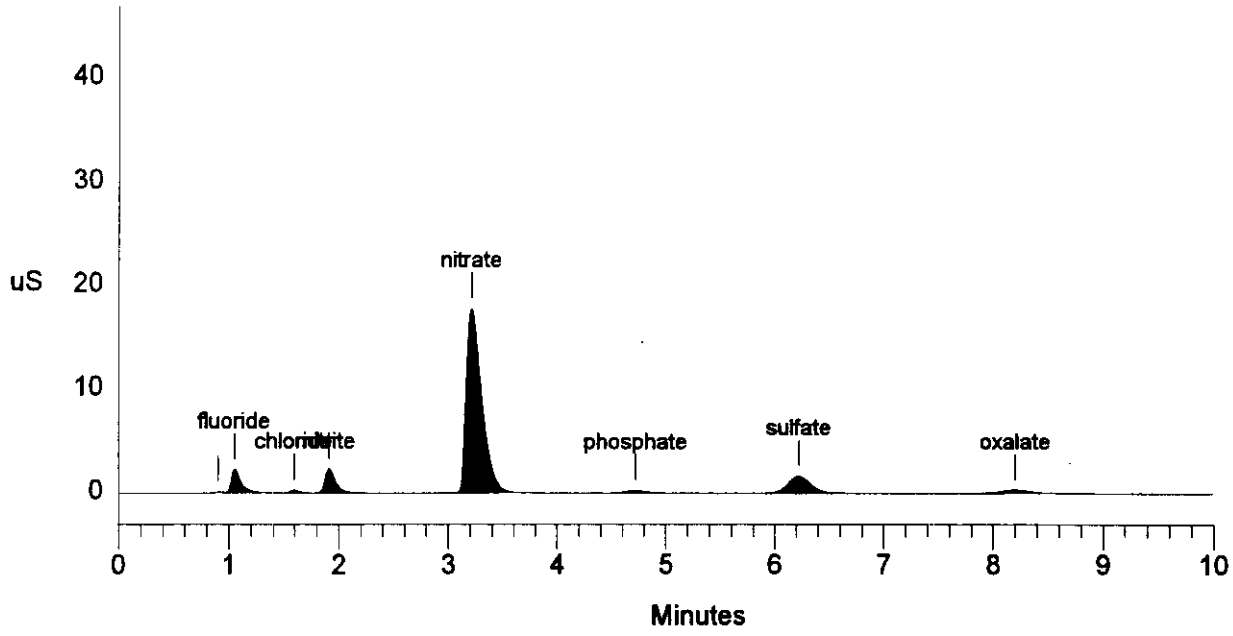
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	68	301	2	
2	1.05	fluoride	47.153	2192	13136	2	1.94
3	1.59	chloride	8.274	274	1479	1	0.63
4	1.91	nitrite	120.591	2319	14832	1	-0.52
5	3.21	nitrate	1384.808	17850	171409	1	1.90
6	4.72	phosphate	58.801	237	2835	1	-1.46
7	6.22	sulfate	160.486	1638	22805	1	-2.20
8	8.20	oxalate	63.560	314	5416	1	-1.91
		Totals	1843.673	24893	232214		

.200mL - 10mL RJ McCown 11/7/95

File: 95110701.D08 Sample: S95T002563 SAMPLE



```
Sample Name: S95T002563 DUPLICATE          Date: 11/07/1995 04:54:57
Data File  : C:\DX\DATA\95110701.D09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 9                    Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

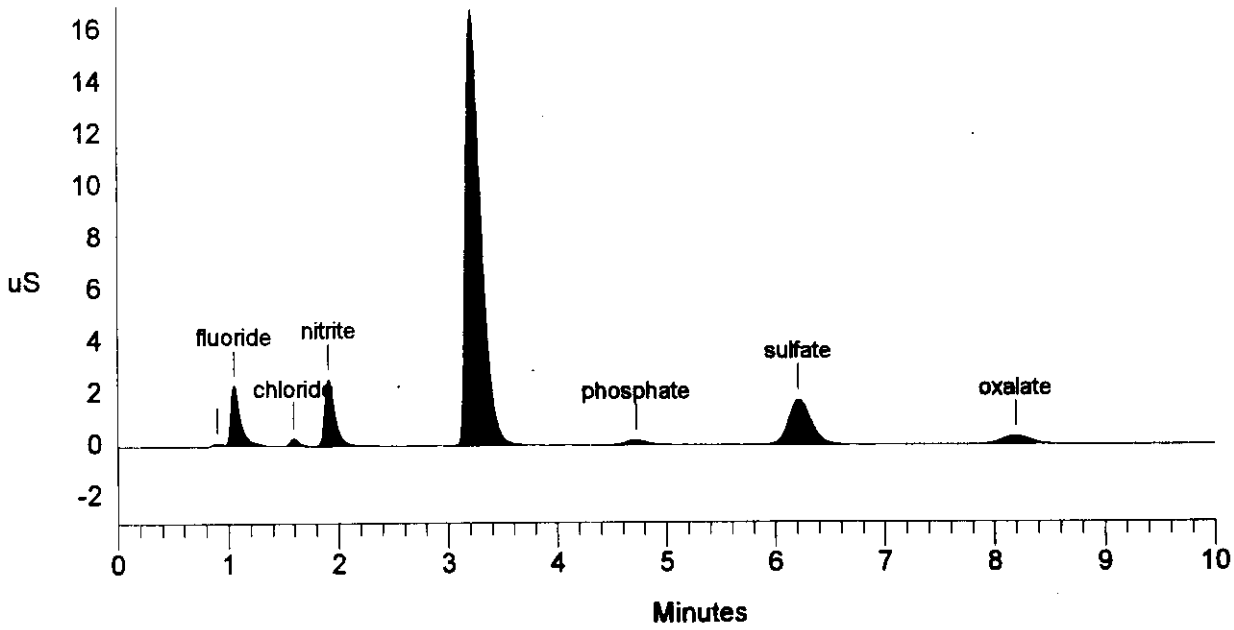
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	72	349	2	
2	1.05	fluoride	48.153	2298	13425	2	1.94
3	1.59	chloride	8.827	298	1584	1	0.63
4	1.91	nitrite	129.664	2571	16065	1	-0.52
5	3.21	nitrate	1293.513	16711	159253	1	1.90
6	4.72	phosphate	47.572	185	2193	1	-1.46
7	6.21	sulfate	168.557	1742	24064	1	-2.36
8	8.19	oxalate	64.601	314	5521	1	-2.03
		Totals	1760.886	24190	222454		

• 200mL - 10mL RTMcCown 11/7/95

File: 95110701.D09 Sample: S95T002563 DUPLICATE



```
Sample Name: S95T002562 SPIKE                    Date: 11/07/1995 03:25:42
Data File  : C:\DX\DATA\95110701.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 7                    Detector:CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
```

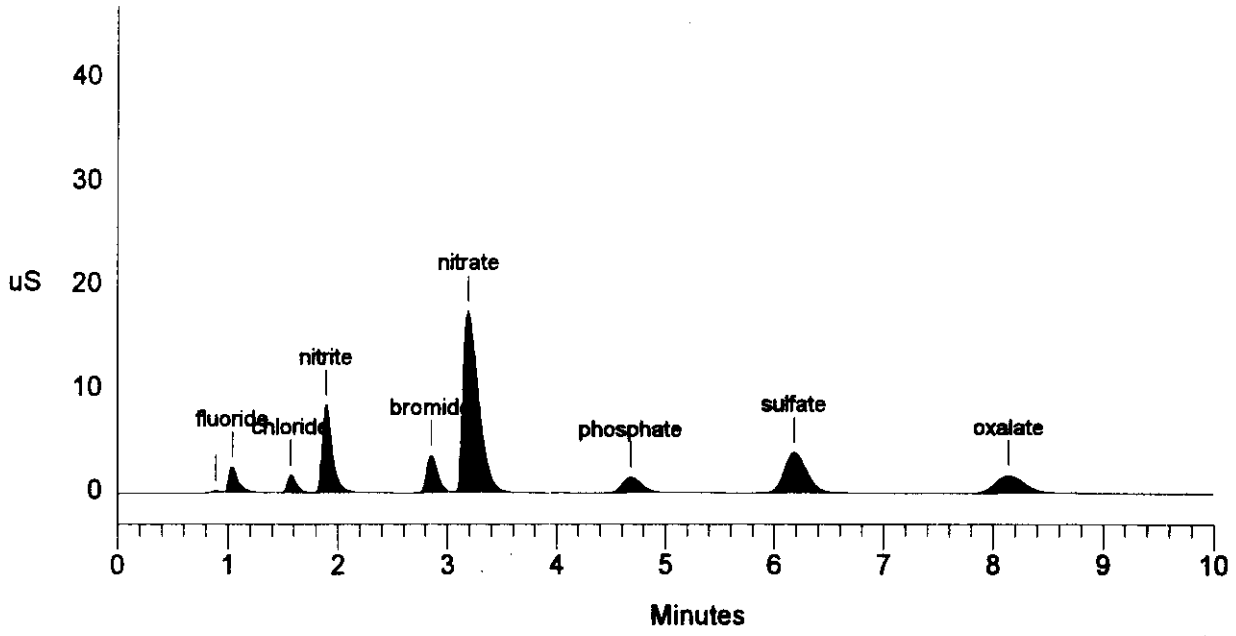
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	110	493	2	
2	1.04	fluoride	49.273	2417	13750	2	0.97
3	1.57	chloride	47.375	1664	8968	1	-0.63
4	1.89	nitrite	393.092	8426	52053	1	-1.56
5	2.85	bromide	274.180	3542	23825	1	1.42
6	3.19	nitrate	1342.580	17506	165772	1	1.27
7	4.68	phosphate	315.165	1458	17726	1	-2.30
8	6.18	sulfate	356.619	3907	53710	1	-2.83
9	8.14	oxalate	307.698	1681	30274	1	-2.63
		Totals	3085.982	40710	366571		

•200mL — { 9.9mL ELUENT / .100mL STD # 109N9D AS SPIKE } RJMcCown 11/7/95

File: 95110701.D07 Sample: S95T002562 SPIKE



LABCORE Completed Worklist Report for Worklist# 4166

Analyst: eal **Instrument:** IC01 **Book#** 118N94

95000104

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: By-108 IC. Rush this is the last one for this tank. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC		1	<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC		1	<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC		1	<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC		1	<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC		1	<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC		1	<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC		1	<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC		1	<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC		59	6.23e+01	105.590	% Recovery
2	CCV			0	@IC-QC	CL	QC		79	8.42e+01	106.580	% Recovery
2	CCV			0	@IC-QC	NO2	QC		534	5.60e+02	104.870	% Recovery
2	CCV			0	@IC-QC	BR	QC		575	6.07e+02	105.570	% Recovery
2	CCV			0	@IC-QC	NO3	QC		614	6.30e+02	102.610	% Recovery
2	CCV			0	@IC-QC	PO4	QC		545	6.17e+02	113.210	% Recovery
2	CCV			0	@IC-QC	SO4	QC		631	6.42e+02	101.740	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC		525	5.35e+02	101.900	% Recovery
3	BLNK-PREP			0	@IC-01	F-02	SOLID		1	<1.31e0		ug/g
3	BLNK-PREP			0	@IC-01	CL-02	SOLID		1	<1.72e0		ug/g
3	BLNK-PREP			0	@IC-01	NO2-02	SOLID		1	<1.08e1		ug/g
3	BLNK-PREP			0	@IC-01	BR-02	SOLID		1	<1.27e1		ug/g
3	BLNK-PREP			0	@IC-01	NO3-02	SOLID		1	<1.41e1		ug/g
3	BLNK-PREP			0	@IC-01	PO4-02	SOLID		1	<1.20e1		ug/g
3	BLNK-PREP			0	@IC-01	SO4-02	SOLID		1	<1.37e1		ug/g
3	BLNK-PREP			0	@IC-01	OXALATE2	SOLID		1	<1.06e1		ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	F-02	SOLID	N/A		4.564e+02	53.760	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	CL-02	SOLID	N/A		1.203e+03	70.300	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	NO2-02	SOLID	N/A		4.288e+04	442.500	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	BR-02	SOLID	N/A	<	5.212e+02	521.000	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	NO3-02	SOLID	N/A		5.049e+04	578.100	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	PO4-02	SOLID	N/A		5.853e+04	492.100	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	SO4-02	SOLID	N/A		4.479e+03	552.400	ug/g
4	SAMPLE	S95T003707		0 W	@IC-01	OXALATE2	SOLID	N/A		9.831e+02	434.200	ug/g
5	DUP	S95T003707		0 W	@IC-01	F-02	SOLID	4.56e+02		4.52e+02	0.880	RPD
5	DUP	S95T003707		0 W	@IC-01	CL-02	SOLID	1.20e+03		1.27e+03	5.670	RPD
5	DUP	S95T003707		0 W	@IC-01	NO2-02	SOLID	4.29e+04		4.43e+04	3.210	RPD
5	DUP	S95T003707		0 W	@IC-01	BR-02	SOLID	<5.21e2		<5.51e2		RPD
5	DUP	S95T003707		0 W	@IC-01	NO3-02	SOLID	5.05e+04		5.10e+04	0.990	RPD
5	DUP	S95T003707		0 W	@IC-01	PO4-02	SOLID	5.85e+04		5.38e+04	8.370	RPD
5	DUP	S95T003707		0 W	@IC-01	SO4-02	SOLID	4.48e+03		1.20e+04	91.260	RPD
5	DUP	S95T003707		0 W	@IC-01	OXALATE2	SOLID	9.83e+02		5.62e+02	54.500	RPD
6	SPK	S95T003707		0 W	@IC-01	F-02	SOLID	59		61.460	104.170	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4166

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003707	0	W	@IC-01 CL-02	SOLID	79	83.010	105.080	% Recovery
6	SPK	S95T003707	0	W	@IC-01 NO2-02	SOLID	534	559.510	104.780	% Recovery
6	SPK	S95T003707	0	W	@IC-01 BR-02	SOLID	575	590.000	102.610	% Recovery
6	SPK	S95T003707	0	W	@IC-01 NO3-02	SOLID	614	646.970	105.370	% Recovery
6	SPK	S95T003707	0	W	@IC-01 PO4-02	SOLID	545	553.130	101.490	% Recovery
6	SPK	S95T003707	0	W	@IC-01 SO4-02	SOLID	631	628.860	99.660	% Recovery
6	SPK	S95T003707	0	W	@IC-01 OXALATE2	SOLID	525	536.850	102.260	% Recovery

Comments Section:

Comments for sample# S95T003707 and test @IC-01 .
RPD% for SO4 and oxalate is very high

Final page for worklist# 4166

Analyst Signature **Date**

Analyst Signature **Date**

12/11/95
Reviewer Signature **Date**

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 4166

Analyst: [illegible] **Instrument:** IC01 IC01 **Book#** 118N9-A

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: By-108 IC. Rush this is the last one for this tank. JMF

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S95T003707	0	W	@IC-01	SOLID	95000104	BY-108 (R)
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S95T003707	0	W	@IC-01	SOLID		
6	SPK	S95T003707	0	W	@IC-01	SOLID		

Final page for worklist # 4166

Ann Lambert 12-11-95

Analyst Signature **Date**

Analyst Signature **Date**

Uploaded 12/11/95 J. M. Luyn

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 11-Dec-95

Worklist#: 4166

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003707
=>	5	DUP	S95T003707
=>	6	SPK	S95T003707

Data File: 4166DEC.CSV

Seq#	Data File	Sample Name	Dilution
1	95121101.d01	BLANK	1.00
2	95121101.d03	118N9-A	101.00
3	95121101.d04	PREP. BLANK	101.00
	95121101.d05	S95T003707	101.00
	95121101.d06	S95T003707	21.00
4	95121101.d07	S95T003707	11.00
5	95121101.d08	S95T003707 DUP	11.00
6	95121101.d09	S95T003707 SPIKE	11.00

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Sample Name: BLANK Date: 12/11/1995 08:09:16
Data File : C:\DX\DATA\95121101.D01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1 Detector:CDM-1
Analyst : A Lambel Column:

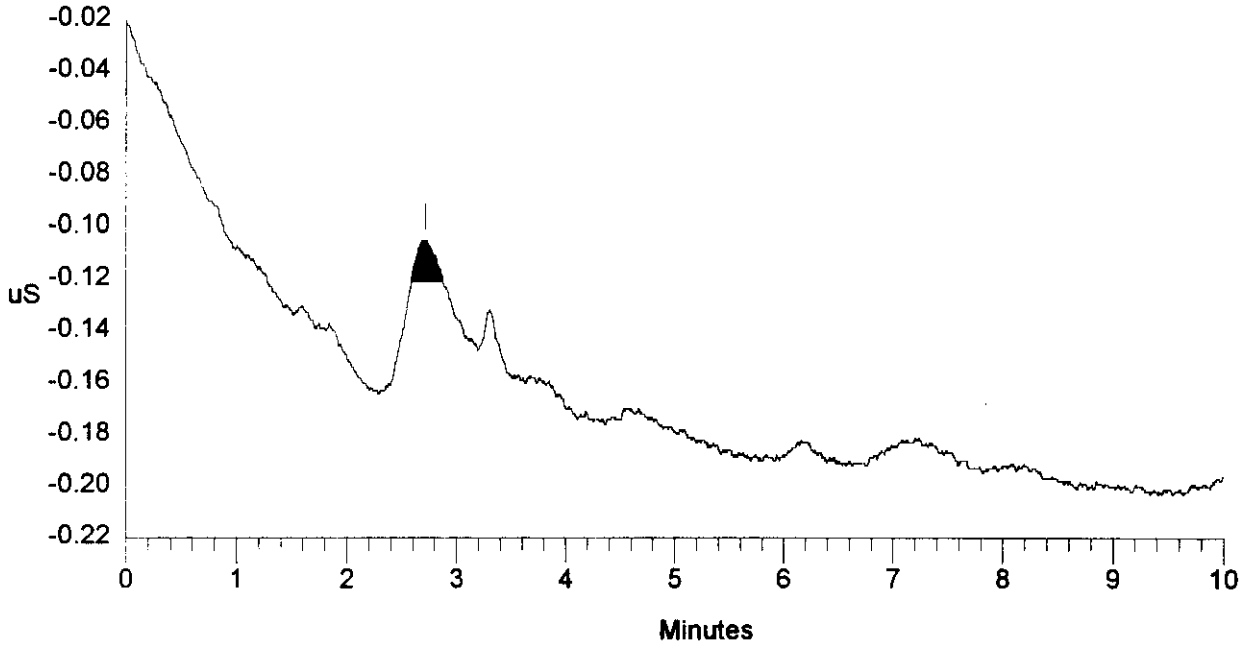
12-11-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 95121101.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 524 TO 531.

WHC-SD-WM-DP-145, REV. 1

Data Reprocessed On 12/11/1995 08:43:58

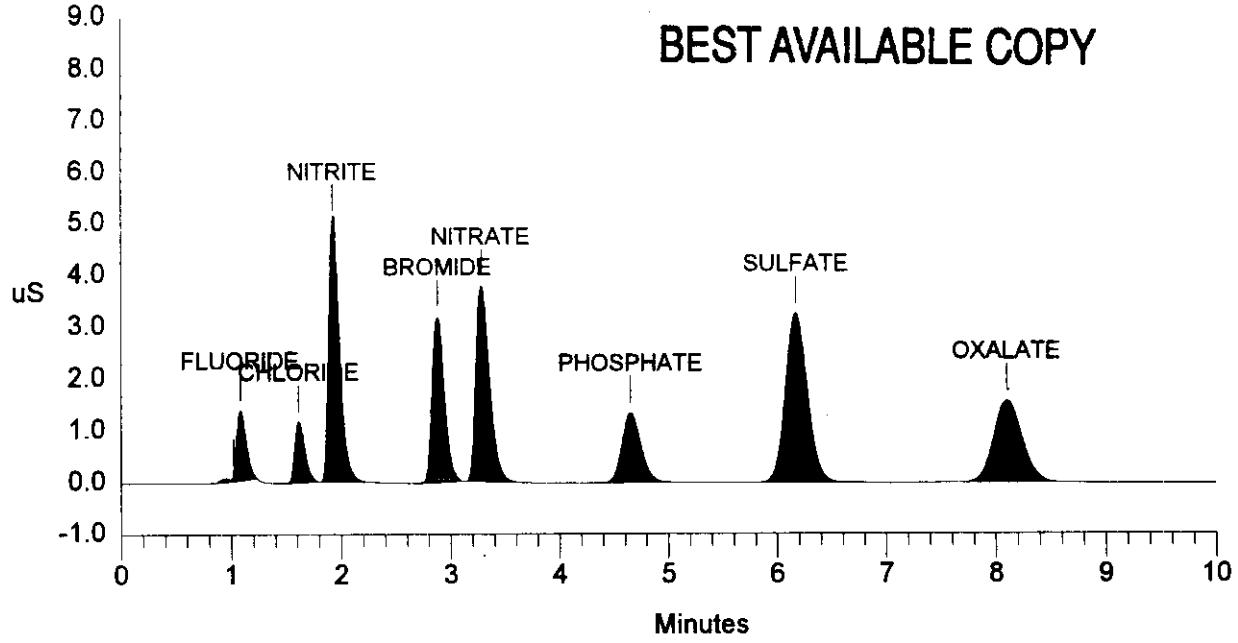
Sample Name: 118N9-A Date: 12/11/1995 08:33:01
Data File : C:\DX\DATA\95121101.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3 Detector:CDM-1
Analyst : A. Lambert Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
1	1.02		0.000	107	527	2	
2	1.08	FLUORIDE	62.257 1.05	1345	8005	2	0.93
3	1.61	CHLORIDE	84.189 1.06	1182	7269	1	1.26
4	1.92	NITRITE	560.355 1.04	5060	34323	1	1.59
5	2.88	BROMIDE	606.543 1.05	3197	23956	1	1.05
6	3.28	NITRATE	629.857 1.03	3777	32162	1	0.31
7	4.65	PHOSPHATE	617.111 1.02	1350	15806	1	0.22
8	6.17	SULFATE	642.352 1.01	3269	44548	1	1.48
9	8.10	OXALATE	535.166 1.01	1579	27935	1	1.25
		Totals	3737.830	20866	194530		

File: 95121101.D03 Sample: 118N9-A



WHC-SD-WM-DP-145, REV. 1

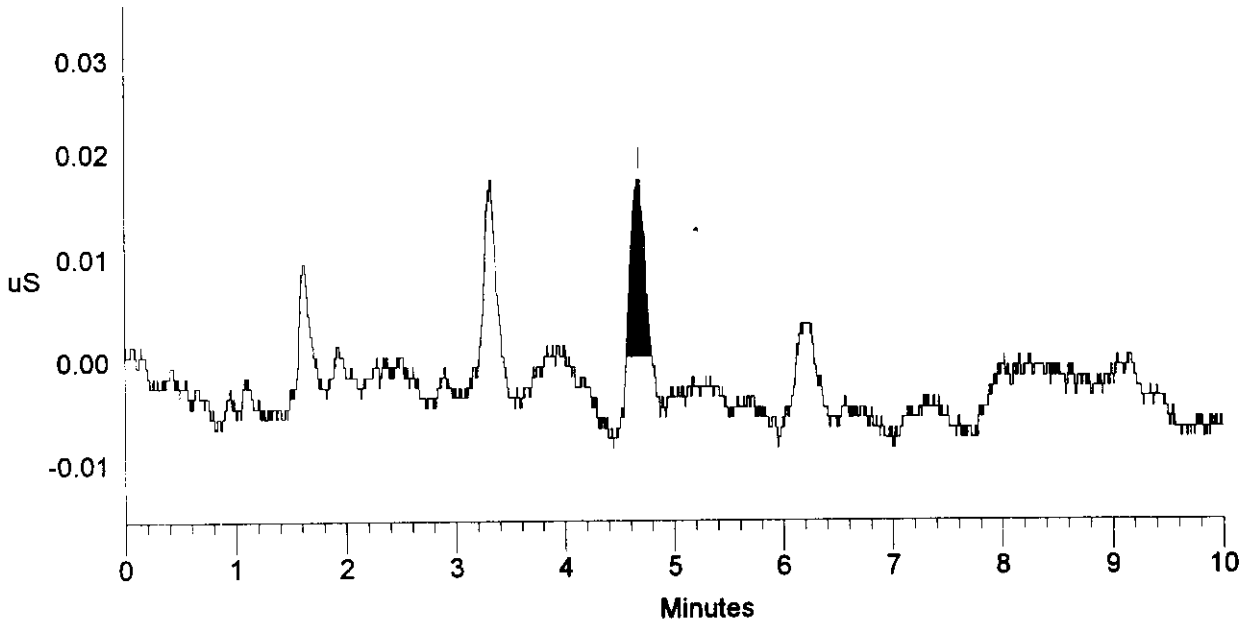
```
Sample Name: PREP. BLANK                    Date: 12/11/1995 08:58:23
Data File  : C:\DX\DATA\95121101.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 4              Detector:CDM-1
Analyst    :               Column:
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95121101.D04 Sample: PREP. BLANK



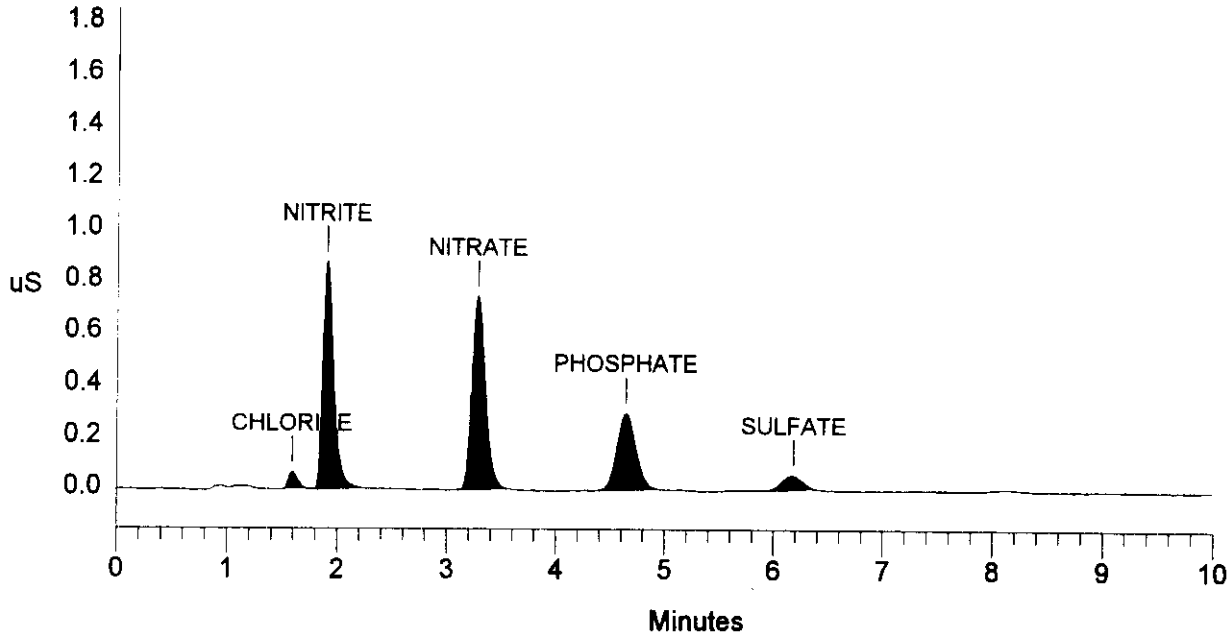
Sample Name:	S95T003707	Date: 12/11/1995 09:09:57
Data File :	C:\DX\DATA\95121101.D05	
Method :	C:\DX\METHOD\KIT.MET	
ACI Address: 1	System: 1 Inject#: 5	Detector:CDM-1
Analyst :	Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
1	1.59	CHLORIDE	3.764	61	330	1	0.00
2	1.90	NITRITE	107.822	874	5910	1	0.53
3	3.28	NITRATE	134.144	745	6235	1	0.31
4	4.64	PHOSPHATE	142.690	294	3452	1	0.00
5	6.18	SULFATE	22.506	54	661	1	1.64
		Totals	410.927	2028	16588		

File: 95121101.D05 Sample: S95T003707



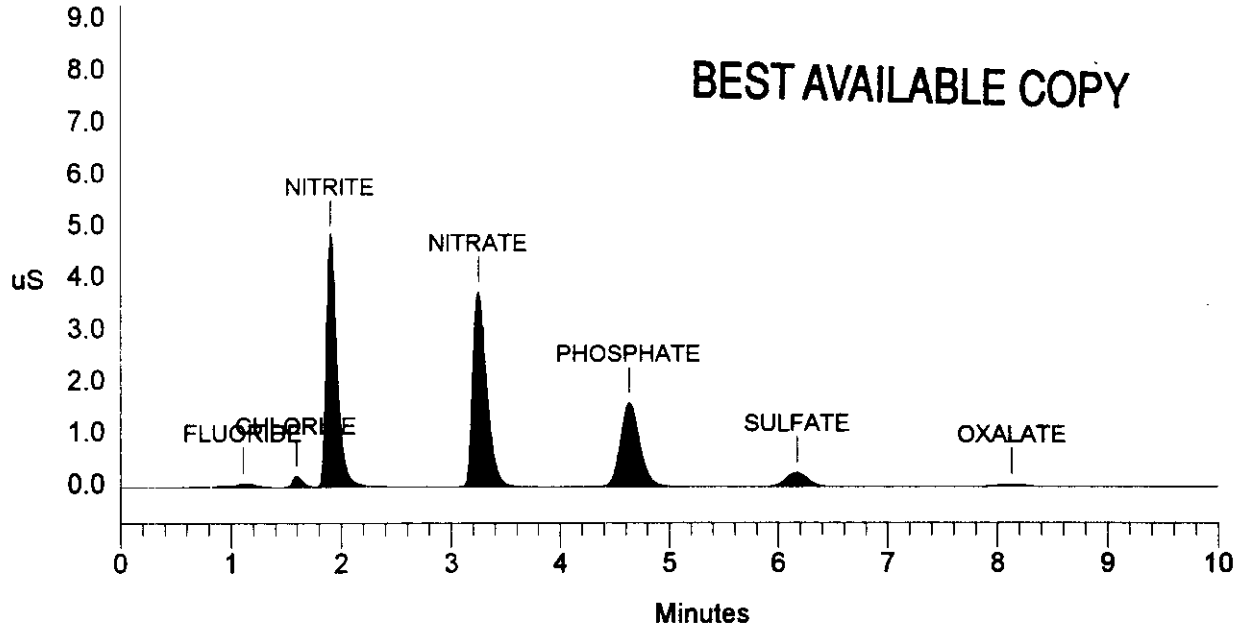
Sample Name:	S95T003707	Date:	12/11/1995 09:25:51
Data File :	C:\DX\DATA\95121101.D06		
Method :	C:\DX\METHOD\KIT.MET		
ACI Address:	1 System: 1 Inject#: 6	Detector:	CDM-1
Analyst :	Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
1	1.11	FLUORIDE	1.870	71	1141	1	3.74
2	1.59	CHLORIDE	3.086	213	1279	1	0.00
3	1.90	NITRITE	109.952	4827	32331	1	0.53
4	3.25	NITRATE	131.997	3750	32425	1	-0.61
5	4.63	PHOSPHATE	152.994	1612	18950	1	-0.22
6	6.17	SULFATE	13.140	260	3501	1	1.48
7	8.13	OXALATE	2.620	34	486	1	1.63
		Totals	415.659	10766	90113		

File: 95121101.D06 Sample: S95T003707



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Sample Name: S95T003707
Data File : C:\DX\DATA\95121101.D07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : A. Lamb Column:

Date: 12/11/1995 09:42:23

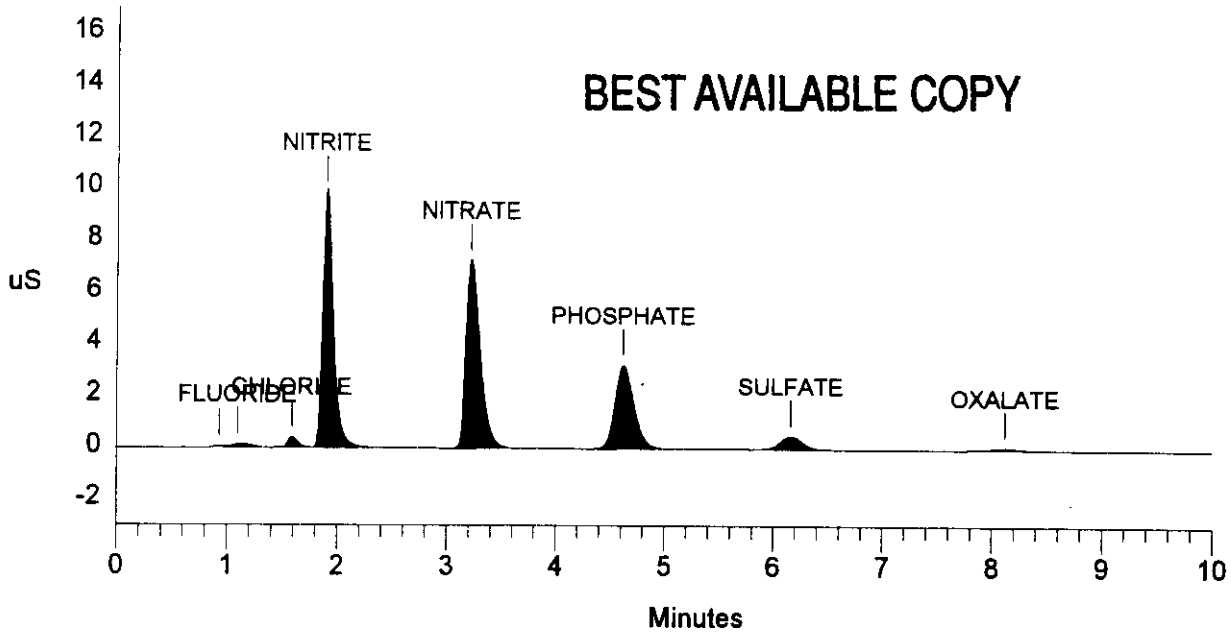
Detector:CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	11	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
2	1.10	FLUORIDE	1.214	118	1416	2	2.80
3	1.59	CHLORIDE	3.199	417	2527	1	0.00
4	1.90	NITRITE	114.049	9854	65282	1	0.53
5	3.22	NITRATE	134.303	7257	64475	1	-1.53
6	4.62	PHOSPHATE	155.687	3219	37769	1	-0.43
7	6.16	SULFATE	11.914	496	6731	1	1.32
8	8.12	OXALATE	2.615	69	1081	1	1.50
		Totals	422.981	21430	179282		

File: 95121101.D07 Sample: S95T003707



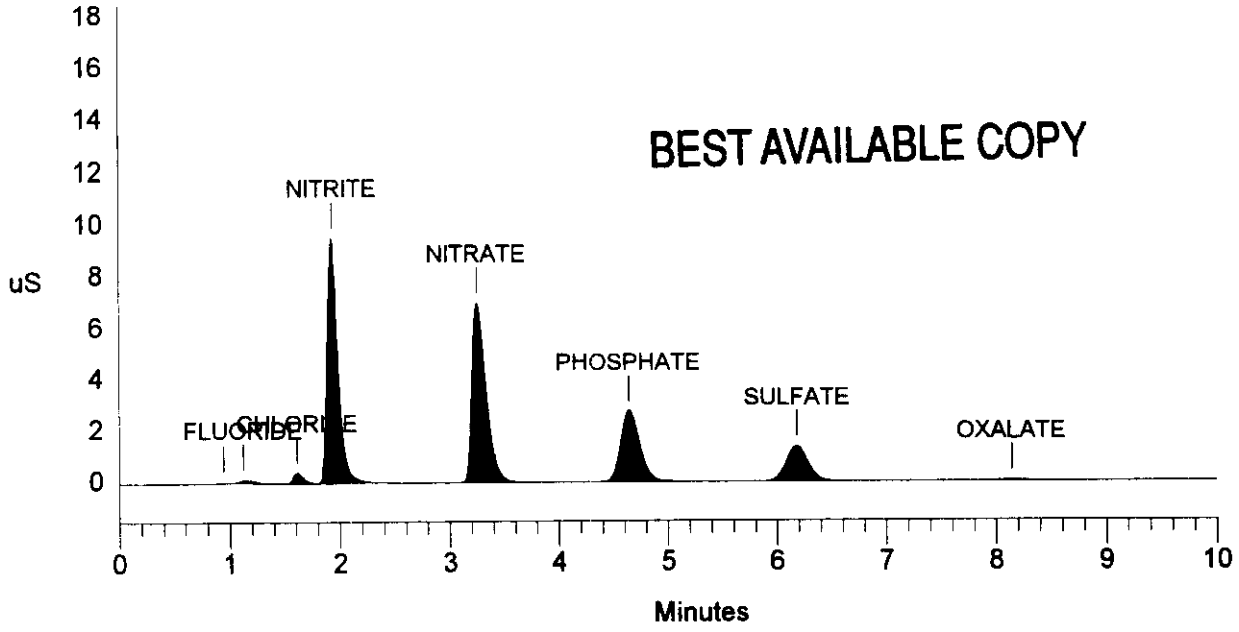
```
Sample Name: S95T003707 DUP                    Date: 12/11/1995 09:53:59
Data File  : C:\DX\DATA\95121101.D08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 8                    Detector:CDM-1
Analyst    :                Column:
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	11	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
2	1.12	FLUORIDE	1.136	113	1324	2	4.67
3	1.61	CHLORIDE	3.193	399	2522	1	1.26
4	1.93	NITRITE	111.533	9504	63803	1	2.12
5	3.25	NITRATE	128.204	6986	61439	1	-0.61
6	4.64	PHOSPHATE	135.218	2740	32592	1	0.00
7	6.18	SULFATE	30.249	1353	18568	1	1.64
8	8.14	OXALATE	1.414	36	506	1	1.75
		Totals	410.946	21132	180754		

File: 95121101.D08 Sample: S95T003707 DUP



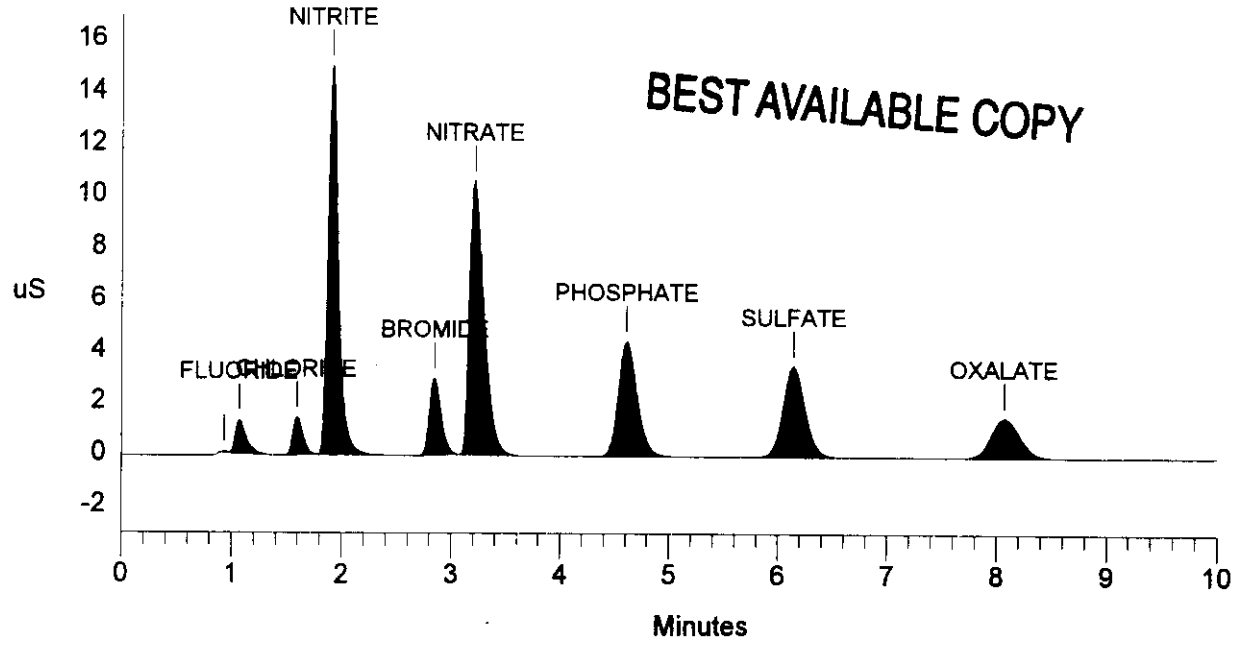
```
Sample Name: S95T003707 SPIKE                    Date: 12/11/1995 10:07:15
Data File  : C:\DX\DATA\95121101.D09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 9            Detector:CDM-1
Analyst    :               Column:
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	11	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration	Height	Area	Bl. Code	%Delta
2	1.07	FLUORIDE	7.364	1278	8703	2	0.00
3	1.59	CHLORIDE	11.465	1436	9107	1	0.00
4	1.91	NITRITE	170.061	15006	98450	1	1.06
5	2.85	BROMIDE	59.019	2978	21326	1	0.00
6	3.21	NITRATE	198.979	10573	97163	1	-1.83
7	4.61	PHOSPHATE	210.807	4469	52027	1	-0.65
8	6.14	SULFATE	74.786	3514	47739	1	0.99
9	8.07	OXALATE	56.344	1510	26993	1	0.88
		Totals	788.825	40764	361507		

File: 95121101.D09 Sample: S95T003707 SPIKE



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FILE # 09508218

LABCORE Data Entry Template for Worklist# 2059

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 **Book#** 46B4XA

Method: LA-505-~~151~~ 161 Rev/Mod A-1

Worklist Comment: ICP BY-108R DIRECT (Li only)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T001427	0	D	@ICP-D03	LIQUID	95000104	BY-108 (R)
	Analytes Requested: LI-D-01							
6	DUP	S95T001427	0	D	@ICP-D03	LIQUID		
7	SPK	S95T001427	0	D	@ICP-D03	LIQUID		
8	SAMPLE	S95T001430	0	D	@ICP-D03	LIQUID	95000104	BY-108 (R)
	Analytes Requested: LI-D-01							
9	DUP	S95T001430	0	D	@ICP-D03	LIQUID		
10	SPK	S95T001430	0	D	@ICP-D03	LIQUID		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		
13	SAMPLE	S95T001373	0	D	@ICP-D03	LIQUID	95000104	BY-108 (R)
	Analytes Requested: LI-D-01							
14	DUP	S95T001373	0	D	@ICP-D03	LIQUID		
15	SPK	S95T001373	0	D	@ICP-D03	LIQUID		
16	ICSA				@ICP-QC	QC		
17	ICSAB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2059

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
18	CCV				@ICP-QC	QC		
19	CCB				@ICP-QC	QC		

Final page for worklist # 2059

Analyst Signature 8-21-95 Date

Reviewed + Validated by:
Analyst Signature 08/22/95 Date

		D.F.
SSIT001427_C	.025mL - 10mL - 2mL - 8mL	2005
SSIT001427	.025mL - 10mL	401
SSIT001427_D	.025mL - 10mL	401
SSIT001427_A	.025mL - 2mL - 8mL	401
SSIT001430_C	.025mL - 10mL - 2mL - 8mL	2005
SSIT001430	.025mL - 10mL	401
SSIT001430_D	.025mL - 10mL	401
SSIT001430_A	.025mL - 2mL - 8mL	401
SSIT001373_C	.025mL - 10mL - 2mL - 8mL	2005
SSIT001373	.025mL - 10mL	401
SSIT001373_D	.025mL - 10mL	401
SSIT001373_A	.025mL - 2mL - 8mL	401

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950821B	ICP2	08/21/95	13:49	BJG	Q	CONC
2	ICB	950821B	ICP2	08/21/95	13:53	BJG	Q	CONC
3	ICSA	950821B	ICP2	08/21/95	13:56	BJG	Q	CONC
4	ICSAB	950821B	ICP2	08/21/95	13:59	BJG	Q	CONC
5	S95T001427_L	950821B	ICP2	08/21/95	14:03	BJG	S	CONC
6	S95T001427_	950821B	ICP2	08/21/95	14:06	BJG	S	CONC
7	S95T001427_D	950821B	ICP2	08/21/95	14:10	BJG	S	CONC
8	S95T001427_A	950821B	ICP2	08/21/95	14:14	BJG	S	CONC
9	S95T001430_L	950821B	ICP2	08/21/95	14:19	BJG	S	CONC
10	S95T001430_	950821B	ICP2	08/21/95	14:23	BJG	S	CONC
11	S95T001430_D	950821B	ICP2	08/21/95	14:28	BJG	S	CONC
12	S95T001430_A	950821B	ICP2	08/21/95	14:31	BJG	S	CONC
13	CCV	950821B	ICP2	08/21/95	14:36	BJG	Q	CONC
14	CCB	950821B	ICP2	08/21/95	14:39	BJG	Q	CONC
15	S95T001373_L	950821B	ICP2	08/21/95	14:44	BJG	S	CONC
16	S95T001373_	950821B	ICP2	08/21/95	14:48	BJG	S	CONC
17	S95T001373_D	950821B	ICP2	08/21/95	14:51	BJG	S	CONC
18	S95T001373_A	950821B	ICP2	08/21/95	14:55	BJG	S	CONC
19	ICSA	950821B	ICP2	08/21/95	14:59	BJG	Q	CONC
20	ICSAB	950821B	ICP2	08/21/95	15:02	BJG	Q	CONC
21	CCV_1	950821B	ICP2	08/21/95	15:05	BJG	Q	CONC
22	CCB_1	950821B	ICP2	08/21/95	15:09	BJG	Q	CONC

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bj Good 8-21-95 B4-108 S95T001427 1430 1373 1085-10 ~

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 534 TO 538.

WHC-SD-WM-DP-145, REV. 1

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.055	5.061	5.210	5.083	4.973	5.226
2	ICB	.0003	-.0059	-.0010	.0058	.0001	-.0001
3	ICSA	-.0001	247.9	-.0954	-.0005	.0018	-.0000
4	ICSAB	.9629	245.8	-.0632	-.0002	.4569	.4789
5	S95T001427_L	1.858	45790.	-47.03	18.96	.1692	-.1373
6	S95T001427	1.035	44430.	-30.43	19.31	.1340	.2992
7	S95T001427_D	1.140	46420.	-28.37	18.95	.0844	.3117
8	S95T001427_A	361.0	44630.	388.7	405.5	369.4	405.2
9	S95T001430_L	.8352	45310.	-62.72	22.55	.3082	-.0711
10	S95T001430	.5215	44790.	-36.25	18.57	.0976	.3394
11	S95T001430_D	.3611	43950.	-28.25	17.67	.0965	.3256
12	S95T001430_A	356.0	43660.	387.3	404.9	363.7	400.9
13	CCV	5.064	4.992	5.179	5.024	4.864	5.205
14	CCB	.0003	-.0056	-.0015	.0054	.0001	-.0001
15	S95T001373_L	.3285	43790.	-73.37	15.36	.1812	-.0009
16	S95T001373	.9976	42500.	-13.38	19.49	.0911	.2987
17	S95T001373_D	1.352	41930.	-12.94	19.31	.1140	.2971
18	S95T001373_A	353.2	41580.	393.3	408.4	366.8	403.5
19	ICSA	.0007	242.7	-.0681	-.0009	.0017	-.0000
20	ICSAB	.9590	241.6	-.0629	.0046	.4436	.4740
21	CCV_1	5.045	4.950	5.120	4.987	4.806	5.171
22	CCB_1	.0004	-.0001	-.0164	.0054	.0001	-.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.031	5.074	5.167	5.100	5.213	5.155
2	ICB	-.0111	.0021	-.0002	.0027	-.0008	.0006
3	ICSA	-.0015	237.0	.0006	.0097	-.0002	.0059
4	ICSAB	-.0119	241.7	.9590	.0111	.4731	.4823
5	S95T001427_L	-30.93	20.39	.2459	6.148	8.029	302.1
6	S95T001427	-3.426	12.43	.0565	-.7292	8.581	289.3
7	S95T001427_D	-10.70	7.292	-.0241	2.552	9.341	305.0
8	S95T001427_A	387.3	406.4	397.3	384.2	407.8	688.8
9	S95T001430_L	13.21	70.31	-1.813	10.57	9.031	275.2
10	S95T001430	8.043	14.33	-.2983	1.241	8.282	270.0
11	S95T001430_D	6.153	9.268	-.2103	.0465	8.475	268.9
12	S95T001430_A	388.1	416.9	396.6	384.9	407.5	664.4
13	CCV	5.056	5.202	5.212	5.018	5.244	5.200
14	CCB	-.0350	.0037	-.0007	.0042	.0003	.0006
15	S95T001373_L	-19.50	33.36	-1.190	5.626	10.40	311.9
16	S95T001373	-7.522	17.35	.2584	1.590	9.229	303.3
17	S95T001373_D	-7.617	8.665	.4019	5.191	9.758	298.7
18	S95T001373_A	379.3	424.6	400.8	386.5	411.3	694.5
19	ICSA	-.0117	245.6	.0009	.0168	-.0001	.0066
20	ICSAB	-.0206	243.5	.9528	.0112	.4712	.4816
21	CCV_1	5.040	5.223	5.196	4.980	5.220	5.186
22	CCB_1	-.0138	.0045	-.0004	.0058	-.0005	.0007

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WHC-SD-WM-DP-145, REV. 1

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.118	.0091	5.139	5.056	5.074	5.089
2	ICE	-.0002	.0003	.0002	-.0088	-.0006	.0005
3	ICSA	-.0100	.0159	92.12	.1333	-.0040	.0032
4	ICSAB	.4749	.0109	92.68	.0473	-.0046	.9549
5	S95T001427_L	5.074	2.921	156.1	3647.	1.515	2.945
6	S95T001427	4.223	.5053	150.4	3283.	-.0559	1.067
7	S95T001427_D	4.450	.6153	157.8	3339.	-.0216	1.031
8	S95T001427_A	389.3	1.105	543.0	3658.	388.2	380.5
9	S95T001430_L	3.438	3.513	95.89	3641.	-.1799	3.313
10	S95T001430	2.780	.5981	92.76	3347.	-.1460	.5521
11	S95T001430_D	2.852	.5482	91.96	3270.	-.1528	.6258
12	S95T001430_A	382.1	1.502	481.2	3674.	385.2	371.8
13	CCV	5.019	.0094	5.160	4.816	5.005	4.885
14	CCB	-.0002	.0015	.0008	.0291	-.0001	.0012
15	S95T001373_L	3.832	3.096	158.8	3241.	-.3697	5.153
16	S95T001373	6.129	1.013	154.6	3266.	.2497	2.098
17	S95T001373_D	3.799	.8067	152.2	3225.	.5149	1.767
18	S95T001373_A	385.7	1.308	545.1	3527.	388.6	376.3
19	ICSA	-.0100	-.0056	93.31	.1338	-.0038	.0048
20	ICSAB	.4644	-.0002	92.22	.0613	-.0040	.9252
21	CCV_1	4.970	.0100	5.120	4.899	4.959	4.826
22	CCB_1	.0002	.0014	.0006	.0690	.0004	.0015

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.057	5.024	5.159	5.043	5.215	5.144
2	ICB	-.0061	.0001	.0021	.0030	.0005	-.0072
3	ICSA	250.5	-.0068	-.0076	189.2	.0047	-.0277
4	ICSAB	249.1	.4460	-.0114	188.8	.0006	.9109
5	S95T001427_L	-11.61	.0797	9.138	219700.	1.598	323.7
6	S95T001427	-2.940	-.1065	14.43	207900.	.7165	324.8
7	S95T001427_D	-1.322	-.1114	14.70	215600.	.1949	342.7
8	S95T001427_A	373.2	374.3	417.0	206300.	397.9	714.1
9	S95T001430_L	-10.18	.5513	10.15	208200.	1.182	235.4
10	S95T001430	-1.627	-.0345	13.66	199600.	-.0287	240.1
11	S95T001430_D	-.9906	-.0064	13.99	194900.	.1517	235.8
12	S95T001430_A	372.3	373.4	415.9	192400.	395.7	623.4
13	CCV	5.003	5.010	5.179	4.873	5.123	5.174
14	CCB	-.0108	.0004	.0008	.0154	.0006	-.0015
15	S95T001373_L	-25.08	.4118	17.62	222700.	-3.795	403.8
16	S95T001373	-2.103	.0522	15.16	209400.	.2751	391.7
17	S95T001373_D	-.0643	.0246	14.13	207400.	.0110	382.9
18	S95T001373_A	374.1	376.7	418.6	204000.	398.4	771.8
19	ICSA	248.0	-.0058	-.0114	180.2	.0036	-.0262
20	ICSAB	246.2	.4437	-.0075	183.7	.0012	.9130
21	CCV_1	4.964	4.991	5.167	4.826	5.078	5.188
22	CCB_1	-.0062	.0005	.0008	.0097	.0010	-.0028

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#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.284	5.185	5.235	4.900	5.129	4.858
2	ICB	.0094	.0083	.0011	.0013	.0008	.0080
3	ICSA	.0482	.0252	-.0179	-.0114	-.0244	.0039
4	ICSAB	.0666	.9919	-.0143	.0040	-.0188	.0038
5	S95T001427_L	574.9	98.51	807.1	-7.274	-736.6	82.49
6	S95T001427	551.2	107.7	787.7	-5.050	-700.9	80.86
7	S95T001427_D	563.6	110.4	823.5	.3893	-713.9	80.53
8	S95T001427_A	931.1	499.1	1176.	378.8	-269.4	443.3
9	S95T001430_L	564.4	97.89	860.5	-3.541	-650.4	105.1
10	S95T001430	535.6	108.5	869.9	-.6379	-662.8	89.33
11	S95T001430_D	538.0	103.6	849.3	-.0919	-627.6	91.62
12	S95T001430_A	924.4	499.7	1232.	373.5	-209.2	465.7
13	CCV	5.157	5.217	5.203	4.872	5.091	4.862
14	CCB	-.0027	-.0023	.0096	.0009	.0170	.0264
15	S95T001373_L	668.9	119.2	810.7	-3.698	-705.0	93.18
16	S95T001373	600.7	148.3	760.0	-.6748	-703.8	78.93
17	S95T001373_D	559.2	127.1	750.3	1.206	-689.0	65.43
18	S95T001373_A	1060.	543.3	1138.	379.7	-250.0	460.1
19	ICSA	.0948	.0310	-.0250	-.0166	.0461	.0272
20	ICSAB	.0818	1.001	-.0258	-.0029	.0436	.0201
21	CCV_1	5.235	5.208	5.180	4.873	5.078	4.833
22	CCB_1	.0116	.0071	-.0009	-.0024	.0086	.0177

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.076	4.976	.0080	4.967	4.957	10.14
2	ICB	.0040	.0001	-.0023	.0000	.0134	.0127
3	ICSA	-.0023	.0019	-.0112	.0014	.0180	-.0048
4	ICSAB	.0056	.0019	-.0039	.0014	.0221	-.0313
5	S95T001427_L	27.89	.6840	-11.71	.8531	3.064	86.75
6	S95T001427	4.035	.5357	-3.929	.3308	-1.750	27.15
7	S95T001427_D	5.094	.5501	-3.988	.3324	-3.740	40.47
8	S95T001427_A	389.6	380.9	-2.315	381.6	379.8	792.6
9	S95T001430_L	35.29	1.369	-11.55	.4579	-45.30	148.1
10	S95T001430	5.407	.9962	-4.570	.2516	.7815	37.55
11	S95T001430_D	4.626	.9955	-3.918	.4129	-5.181	47.75
12	S95T001430_A	388.2	377.7	-2.624	378.7	371.8	803.3
13	CCV	4.989	4.911	.0133	4.945	5.023	9.956
14	CCB	.0153	.0002	-.0031	.0010	.0118	.0539
15	S95T001373_L	36.01	.8331	-11.34	.8651	13.37	135.4
16	S95T001373	9.646	.5028	-4.590	.1766	.1317	48.78
17	S95T001373_D	7.808	.4713	-3.770	.3363	6.216	60.40
18	S95T001373_A	391.2	380.6	-2.984	382.1	386.6	810.4
19	ICSA	.0147	.0017	-.0021	.0018	.0072	-.0291
20	ICSAB	.0142	.0018	.0005	.0025	.0001	-.0120
21	CCV_1	4.935	4.865	.0096	4.912	5.020	9.833
22	CCB_1	.0181	.0002	-.0003	.0002	.0036	.0598

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WHC-SD-WM-DP-145, REV. 1

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.177	.0141	5.188	5.063
2	ICB	.0006	.0001	-.0007	.0010
3	ICSA	-.0013	.0079	-.0047	-.0020
4	ICSAB	.4714	.0084	.9859	-.0020
5	S95T001427_L	4.700	1.257	20.31	4.741
6	S95T001427	.5590	.1572	25.13	1.052
7	S95T001427_D	.7934	.2200	23.44	1.156
8	S95T001427_A	399.4	1.194	422.0	391.2
9	S95T001430_L	7.201	2.200	33.62	5.786
10	S95T001430	1.010	.2515	29.25	1.208
11	S95T001430_D	1.120	.2200	28.11	1.147
12	S95T001430_A	399.0	1.415	427.8	390.9
13	CCV	5.192	.0150	5.237	5.033
14	CCB	.0028	.0009	.0008	.0027
15	S95T001373_L	7.527	2.200	18.43	5.222
16	S95T001373	1.820	.5344	17.87	1.304
17	S95T001373_D	1.474	.4086	17.98	1.230
18	S95T001373_A	402.2	1.415	426.3	394.5
19	ICSA	.0036	.0092	-.0056	.0005
20	ICSAB	.4722	.0092	.9862	.0002
21	CCV_1	5.167	.0150	5.229	4.997
22	CCB_1	.0033	.0009	.0001	.0025

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WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2107

Analyst: JK Sato **Instrument:** ICP01 **Book#** 46848

Method: LA-505-151 Rev/Mod D-3

Worklist Comment: ICP BY-108R DIRECT (Li only)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T001365	0	D	@ICP-D03	LIQUID	95000101	BY-108 (R)
	Analytes Requested: LI-D-01							
6	DUP	S95T001365	0	D	@ICP-D03	LIQUID		
7	SPK	S95T001365	0	D	@ICP-D03	LIQUID		
8	CCV				@ICP-QC	QC		
9	CCB				@ICP-QC	QC		
10	SAMPLE	S95T001659	0	D	@ICP-D03	LIQUID	95000105	BY-108 (R)
	Analytes Requested: LI-D-01							
11	DUP	S95T001659	0	D	@ICP-D03	LIQUID		
12	SPK	S95T001659	0	D	@ICP-D03	LIQUID		
13	ICSA				@ICP-QC	QC		
14	ICSAB				@ICP-QC	QC		
15	CCV				@ICP-QC	QC		
16	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2107

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 2107

Analyst Signature 09-08-95 Date

Analyst Signature 9/12/95 Date
worklist received.

595T001365_L, 4-4-2-8, DF 10
595T001365 4-4 2
595T001365_D 4-4 2
595T001365_Q 4-4 2

~~595T001659 Direct, DF 1~~ 9.8.95.
~~595T001659_D Direct, 1~~ 9.8.95
~~595T001659_Q 8ml sample + 2 ml SSTS, DF 1.25~~ 9.8.95

595T001659_L, 5-10-2-8, DF 105
595T001659 5-10 21
595T001659_D 5-10 21
595T001659_Q 5-10 21, .5ml ~~SST~~ sample + 8ml HNO_3 + 2ml SSTS 9.8.95

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

File: 950908B

Identity 1: ICV Identity 2: Quality Control 12:07 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.925	4.943	4.951	4.675	4.948	4.997	5.074	5.024
S.D.	0.008	0.011	0.016	0.011	0.012	0.010	0.012	0.039
% R.S.D.	0.163	0.231	0.320	0.238	0.243	0.192	0.244	0.781

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.008	4.995	4.982	5.025	4.778	5.029	5.074	9.534
S.D.	0.006	0.002	0.005	0.017	0.007	0.009	0.014	0.009
% R.S.D.	0.113	0.049	0.108	0.331	0.152	0.187	0.286	0.090

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.988	4.992	4.967	5.148	5.004	4.906	5.073	4.957
S.D.	0.027	0.013	0.011	0.205	0.057	0.005	0.009	0.039
% R.S.D.	0.546	0.260	0.227	3.979	1.140	0.112	0.184	0.781

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.057	4.857	4.865	4.935	4.861	5.018	5.022	5.007
S.D.	0.018	0.032	0.005	0.044	0.008	0.006	0.007	0.030
% R.S.D.	0.352	0.656	0.094	0.895	0.174	0.115	0.147	0.606

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.003	4.754	4.969	5.165	4.743
S.D.	0.004	0.048	0.003	0.009	0.019
% R.S.D.	0.073	1.010	0.058	0.171	0.396

09-08-95
LMCS ✓
BY-108 R 595T001365 Direct
595T001659

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 541 TO 560.

Identity 1: ICB Identity 2: Quality Control 12:12 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	-0.000	-0.007	-0.001	-0.013	-0.000	-0.001	-0.000
S.D.	0.001	0.000	0.009	0.001	0.003	0.003	0.000	0.000
% R.S.D.	40.340	34.641	115.174	184.772	24.567	43637893.639	8.325	71.644

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.001	0.002	0.002	-0.000	-0.001	0.004	0.056
S.D.	0.001	0.002	0.003	0.002	0.000	0.001	0.003	0.030
% R.S.D.	53.455	246.924	186.289	98.972	1430.423	126.667	84.843	53.205

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.010	0.020	-0.000	-0.012	0.005	-0.000	0.002	-0.009
S.D.	0.002	0.004	0.000	0.012	0.005	0.000	0.003	0.003
% R.S.D.	15.660	20.164	29.344	100.292	102.270	173.204	164.285	37.113

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.010	-0.001	-0.005	0.001	-0.001	0.003	0.092
S.D.	0.000	0.008	0.000	0.007	0.000	0.001	0.000	0.011
% R.S.D.	37.118	88.504	58.279	146.052	12.226	81.074	8.122	12.424

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	-0.001	-0.001	0.000	-0.051
S.D.	0.000	0.021	0.001	0.000	0.008
% R.S.D.	57.798	3607.049	81.554	158.490	15.776

Identity 1: ICSA Identity 2: Quality Control 12:15 PM September 8, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.011	0.001	-0.029	0.010	202.638	-0.002	0.003	-0.001
S.D.	0.001	0.000	0.008	0.001	0.375	0.003	0.000	0.000
% R.S.D.	5.291	0.000	27.690	10.124	0.185	144.604	10.009	24.945

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.020	0.007	0.004	97.674	101.827	-0.006	-0.012	0.079
S.D.	0.000	0.000	0.002	0.120	0.212	0.001	0.006	0.029
% R.S.D.	1.050	5.941	45.162	0.123	0.208	11.757	51.005	37.281

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	0.044	0.004	0.043	-0.006	101.385	-0.028	188.450
S.D.	0.007	0.004	0.000	0.007	0.007	0.106	0.002	0.942
% R.S.D.	117.142	9.874	2.464	15.978	117.077	0.104	7.249	0.500

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	-0.025	0.003	0.006	0.001	0.001	0.016	0.061
S.D.	0.001	0.009	0.000	0.016	0.000	0.000	0.000	0.020
% R.S.D.	39.668	34.664	2.330	240.897	16.093	41.299	2.033	32.761

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.007	0.064	0.000	0.002	-0.077
S.D.	0.001	0.029	0.001	0.000	0.017
% R.S.D.	9.522	44.425	257.309	4.988	22.362

Identity 1: ICSAB Identity 2: Quality Control 12:19 PM September 8, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.006	0.001	-0.044	0.007	200.418	0.486	0.503	0.947
S.D.	0.001	0.000	0.002	0.002	0.228	0.004	0.001	0.004
% R.S.D.	9.879	8.381	5.361	25.703	0.114	0.859	0.179	0.376

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.961	0.969	0.006	97.676	101.936	0.492	-0.015	0.083
S.D.	0.002	0.000	0.001	0.144	0.017	0.001	0.006	0.030
% R.S.D.	0.181	0.034	11.214	0.148	0.016	0.223	40.592	36.543

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.023	0.049	0.502	0.041	-0.011	99.359	-0.012	186.229
S.D.	0.007	0.007	0.000	0.007	0.019	0.139	0.006	0.608
% R.S.D.	29.064	14.529	0.085	17.038	182.466	0.140	49.967	0.327

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	0.006	0.995	0.978	0.001	0.986	0.016	0.021
S.D.	0.001	0.025	0.002	0.009	0.000	0.003	0.001	0.023
% R.S.D.	107.988	387.981	0.200	0.943	23.205	0.344	6.374	107.493

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.501	0.020	0.484	0.495	-0.031
S.D.	0.001	0.014	0.001	0.001	0.013
% R.S.D.	0.184	68.004	0.230	0.270	41.009

Identity 1: S95T001365_L Identity 2: 4-4-2-8 ml 12:25 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 10.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-CD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.033	0.002	-0.116	2.878	73.355	0.009	0.013	0.042
S.D.	0.004	0.000	0.070	0.015	0.064	0.016	0.003	0.002
% R.S.D.	11.912	14.434	59.965	0.514	0.087	171.972	23.589	3.773

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.029	0.032	0.008	0.085	0.030	7.494	0.086	0.980
S.D.	0.004	0.017	0.007	0.009	0.001	0.024	0.014	0.077
% R.S.D.	12.643	55.018	82.067	10.343	4.013	0.317	16.679	7.860

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.031	0.224	-0.001	4.958	1.316	0.051	-0.047	355.348
S.D.	0.036	0.033	0.001	0.406	0.088	0.001	0.007	1.645
% R.S.D.	114.998	14.519	147.661	8.185	6.662	1.804	13.972	0.463

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.083	0.006	0.002	0.202	0.011	0.012	0.412	12.841
S.D.	0.005	0.025	0.002	0.098	0.004	0.005	0.015	0.052
% R.S.D.	6.322	439.137	68.502	48.220	32.434	40.053	3.615	0.408

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.008	0.409	0.001	-0.001	-0.394
S.D.	0.003	0.037	0.005	0.001	0.047
% R.S.D.	38.606	9.054	480.957	95.470	11.867

Identity 1: S95T001365 Identity 2: 4-4 ml 12:30 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.004	0.002	-0.035	2.837	75.325	0.004	0.007	0.043
S.D.	0.000	0.000	0.024	0.017	0.025	0.003	0.000	0.000
% R.S.D.	12.171	4.839	68.835	0.591	0.033	85.331	6.233	0.965

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.003	0.006	0.002	0.044	0.020	7.739	-0.029	0.298
S.D.	0.000	0.002	0.001	0.005	0.000	0.021	0.007	0.005
% R.S.D.	14.261	37.513	79.374	11.095	1.059	0.268	25.876	1.585

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.044	0.023	-0.001	5.076	1.259	0.036	-0.019	350.177
S.D.	0.011	0.006	0.000	0.102	0.033	0.000	0.005	1.447
% R.S.D.	26.010	26.633	49.036	2.007	2.640	1.340	27.075	0.413

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.097	-0.137	-0.002	-0.010	0.000	0.001	0.415	12.691
S.D.	0.002	0.030	0.001	0.004	0.000	0.001	0.002	0.049
% R.S.D.	1.752	21.809	35.153	42.759	61.171	132.155	0.513	0.387

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	0.095	-0.000	0.001	-0.052
S.D.	0.000	0.061	0.001	0.000	0.015
% R.S.D.	0.008	63.989	646.109	47.488	28.592

Identity 1: S95T001365_D Identity 2: 4-4 ml 12:33 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.002	-0.008	2.770	74.772	-0.009	0.006	0.042
S.D.	0.002	0.000	0.014	0.002	0.093	0.003	0.001	0.000
% R.S.D.	29.045	9.547	176.175	0.068	0.125	34.849	8.995	0.870

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.009	0.010	0.005	0.039	-0.077	7.707	0.001	0.470
S.D.	0.000	0.004	0.004	0.005	0.000	0.018	0.011	0.084
% R.S.D.	5.418	45.995	83.281	13.463	0.386	0.231	1021.351	17.852

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.041	0.044	-0.000	4.634	1.173	0.014	-0.005	347.067
S.D.	0.022	0.020	0.000	0.450	0.058	0.000	0.004	0.695
% R.S.D.	53.573	44.499	66.682	9.708	4.948	1.312	83.023	0.200

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.105	-0.129	0.000	0.031	0.001	-0.002	0.410	12.524
S.D.	0.002	0.039	0.001	0.005	0.001	0.000	0.002	0.011
% R.S.D.	1.772	29.892	2260.232	17.740	67.127	13.308	0.590	0.088

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.003	-0.027	-0.002	0.000	-0.117
S.D.	0.000	0.036	0.001	0.000	0.059
% R.S.D.	8.950	131.719	33.233	86.626	50.335

Identity 1: S95T001365_A Identity 2: 4-4 ml 12:37 PM September 8, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 2.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.507	2.537	2.493	5.351	76.921	2.529	2.611	2.540
S.D.	0.002	0.005	0.041	0.006	0.065	0.000	0.003	0.012
% R.S.D.	0.096	0.181	1.656	0.117	0.084	0.000	0.125	0.489

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	2.505	2.537	2.535	2.572	2.315	10.106	2.580	5.462
S.D.	0.003	0.013	0.005	0.027	0.002	0.014	0.029	0.024
% R.S.D.	0.116	0.519	0.193	1.054	0.105	0.135	1.128	0.438

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	2.508	2.563	2.548	7.485	3.722	2.474	2.577	350.870
S.D.	0.008	0.001	0.004	0.153	0.038	0.003	0.019	1.662
% R.S.D.	0.307	0.054	0.170	2.049	1.030	0.133	0.724	0.474

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	2.654	2.377	1.904	2.518	2.482	2.529	2.911	14.852
S.D.	0.006	0.014	0.002	0.066	0.004	0.006	0.008	0.111
% R.S.D.	0.226	0.603	0.096	2.630	0.164	0.246	0.268	0.749

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.541	2.335	2.520	2.605	2.345
S.D.	0.003	0.093	0.003	0.003	0.023
% R.S.D.	0.112	4.000	0.117	0.111	0.985

Identity 1: CCV Identity 2: Quality Control 12:46 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.927	4.942	4.963	4.696	4.961	5.016	5.080	5.069
S.D.	0.013	0.011	0.016	0.009	0.008	0.006	0.007	0.017
% R.S.D.	0.263	0.223	0.319	0.182	0.167	0.114	0.128	0.339

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.039	5.005	4.982	5.051	4.775	5.045	5.082	9.481
S.D.	0.017	0.018	0.017	0.007	0.013	0.019	0.012	0.034
% R.S.D.	0.333	0.355	0.343	0.139	0.277	0.378	0.231	0.363

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.983	4.992	4.964	4.994	4.953	4.926	5.058	5.027
S.D.	0.017	0.008	0.011	0.133	0.063	0.014	0.015	0.022
% R.S.D.	0.336	0.163	0.218	2.670	1.281	0.278	0.296	0.444

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.063	4.841	4.897	4.933	4.863	5.033	5.049	5.121
S.D.	0.015	0.022	0.012	0.026	0.013	0.020	0.009	0.030
% R.S.D.	0.295	0.458	0.242	0.527	0.269	0.395	0.179	0.592

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.014	4.638	4.977	5.166	4.789
S.D.	0.013	0.026	0.015	0.011	0.006
% R.S.D.	0.267	0.570	0.295	0.211	0.117

Identity 1: CCB Identity 2: Quality Control 12:50 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.003	-0.000	0.001	0.004	-0.008	-0.005	-0.001	-0.001
S.D.	0.001	0.000	0.002	0.001	0.002	0.002	0.000	0.000
% R.S.D.	15.540	0.000	130.460	30.126	18.218	34.641	46.788	8.461

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	0.001	0.002	0.000	0.001	-0.004	0.000	0.099
S.D.	0.000	0.000	0.002	0.002	0.000	0.001	0.003	0.024
% R.S.D.	67.330	58.038	98.329	469.197	49.262	18.534	1035.392	23.961

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.016	0.022	-0.000	0.000	-0.005	-0.000	-0.006	0.001
S.D.	0.005	0.004	0.000	0.012	0.002	0.000	0.004	0.002
% R.S.D.	32.900	18.289	26.391	3548.499	37.799	28.867	59.183	299.516

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.006	0.007	-0.008	0.001	0.000	0.001	-0.000
S.D.	0.001	0.007	0.000	0.003	0.000	0.000	0.000	0.010
% R.S.D.	252.303	123.806	2.510	35.568	20.724	458.246	12.999	319170.766

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.022	-0.002	-0.000	-0.051
S.D.	0.000	0.012	0.001	0.000	0.009
% R.S.D.	60.146	54.680	25.990	44.635	18.579

Identity 1: zzz Identity 2: zzz 12:55 PM September 8, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-CD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.000	0.038	0.002	0.883	-0.012	-0.000	0.004	-16.246
S.D.	0.000	0.000	0.001	0.002	0.006	0.003	0.001	0.000
% R.S.D.	352.761	0.222	43.176	0.228	49.121	59650.441	14.708	0.000

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.116	0.095	0.047	0.001	4.063	-0.004	0.008	-0.035
S.D.	0.010	0.002	0.002	0.002	0.016	0.001	0.002	0.034
% R.S.D.	8.303	1.824	5.162	188.267	0.400	22.303	29.154	97.228

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.093	0.023	0.125	0.018	2.396	0.488	0.001	9.713
S.D.	0.006	0.006	0.001	0.004	0.053	0.000	0.001	0.854
% R.S.D.	6.567	24.252	0.457	20.853	2.206	0.050	178.725	8.790

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.032	0.050	0.013	0.016	-0.000	0.031	0.016	21.160
S.D.	0.001	0.007	0.006	0.012	0.001	0.000	0.000	3.544
% R.S.D.	2.208	13.665	42.590	75.636	122.289	1.313	1.788	16.749

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.125	0.033	-0.001	-0.000	-0.037
S.D.	0.002	0.016	0.001	0.000	0.014
% R.S.D.	1.972	47.717	92.033	49.940	37.266

Identity 1: zzz Identity 2: zzz 1:00 PM September 8, 1995

Task name : OPTIMA

WHC-SD-WM-DP-145, REV. 1

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.003	0.000	0.001	0.015	-0.009	-0.000	0.000	18.200
S.D.	0.001	0.000	0.004	0.001	0.004	0.003	0.000	0.187
% R.S.D.	31.429	23.094	326.533	7.239	47.012	5371600.745	137.249	1.025

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.007	0.000	0.001	-0.000	0.051	0.000	-0.006	0.083
S.D.	0.001	0.002	0.002	0.002	0.000	0.001	0.004	0.024
% R.S.D.	9.867	673.769	195.038	821.507	0.231	431.423	60.532	29.184

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.010	0.001	0.001	0.011	0.043	0.006	-0.001	0.260
S.D.	0.008	0.005	0.000	0.014	0.003	0.000	0.002	0.006
% R.S.D.	75.412	660.000	15.213	126.917	6.458	1.604	413.875	2.364

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	0.003	-0.000	0.016	0.001	0.001	0.001	0.807
S.D.	0.000	0.007	0.001	0.007	0.001	0.000	0.000	0.027
% R.S.D.	6.931	226.424	291.091	42.884	52.598	26.663	52.139	3.370

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	0.011	-0.000	-0.000	-0.056
S.D.	0.000	0.035	0.000	0.000	0.014
% R.S.D.	8.441	306.220	800.197	67.649	25.418

Identity 1: S95T001659_L Identity 2: .5-10-2-8 ml 1:11 PM September 8, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 105.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.072	0.040	-1.035	1.275	-0.956	0.383	0.061	1781.870
S.D.	0.041	0.003	0.106	0.221	0.550	0.439	0.034	6.347
% R.S.D.	57.464	8.248	10.283	17.296	57.562	114.566	55.979	0.356

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.575	0.022	-0.081	-0.052	5.198	-0.048	1.001	2.626
S.D.	0.025	0.076	0.072	0.111	0.031	0.071	0.968	0.998
% R.S.D.	4.328	337.649	88.075	213.028	0.591	146.642	96.720	38.013

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.068	0.316	0.115	0.294	4.084	0.646	-1.207	14.914
S.D.	0.550	0.289	0.009	0.984	0.210	0.010	0.625	0.000
% R.S.D.	812.480	91.241	7.823	334.833	5.135	1.493	51.805	0.000

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.156	-2.356	0.074	0.933	0.001	-0.008	-0.028	35.639
S.D.	0.067	1.370	0.016	0.533	0.016	0.088	0.074	0.126
% R.S.D.	42.963	58.144	21.305	57.160	1636.770	1055.332	261.600	0.354

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.213	3.722	-0.041	0.033	0.616
S.D.	0.000	1.431	0.065	0.011	1.419
% R.S.D.	0.013	38.461	160.256	33.899	230.475

Identity 1: S95T001659 Identity 2: .5-10 ml 1:15 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 21.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.039	0.037	-0.044	0.856	-0.227	0.019	0.010	1682.563
S.D.	0.007	0.000	0.097	0.038	0.059	0.033	0.006	12.124
% R.S.D.	17.356	0.000	219.099	4.392	25.940	173.254	56.947	0.721

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.332	0.016	0.074	0.044	5.074	-0.040	-0.133	0.941
S.D.	0.003	0.013	0.025	0.046	0.011	0.020	0.006	0.519
% R.S.D.	0.761	76.681	33.412	106.064	0.227	50.133	4.423	55.182

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.000	0.269	0.121	-0.077	2.885	0.550	-0.044	8.052
S.D.	0.034	0.077	0.003	0.330	0.237	0.004	0.030	0.046
% R.S.D.	8520.102	28.745	2.109	429.365	8.215	0.701	68.162	0.575

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.007	-0.909	-0.012	0.311	0.007	0.063	0.025	11.952
S.D.	0.031	0.157	0.007	0.068	0.001	0.003	0.019	0.166
% R.S.D.	453.664	17.244	53.883	21.774	21.003	4.543	76.822	1.385

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.130	0.574	-0.011	-0.004	-0.971
S.D.	0.006	0.395	0.004	0.004	0.137
% R.S.D.	4.364	68.890	36.582	104.905	14.096

Identity 1: S95T001659_D Identity 2: .5-10 ml 1:19 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 21.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-CD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.087	0.034	0.085	0.977	-0.401	-0.019	-0.012	1669.951
S.D.	0.009	0.002	0.191	0.073	0.105	0.033	0.004	15.721
% R.S.D.	10.246	6.742	225.663	7.491	26.151	173.156	34.038	0.941

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.331	0.155	0.149	-0.010	4.336	-0.029	-0.171	3.075
S.D.	0.017	0.020	0.025	0.035	0.013	0.006	0.128	0.692
% R.S.D.	5.286	12.571	16.734	360.737	0.306	20.460	74.959	22.504

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.208	0.582	0.119	-0.281	3.064	0.554	0.055	7.878
S.D.	0.127	0.109	0.002	0.225	0.095	0.002	0.074	0.070
% R.S.D.	60.927	18.756	1.797	80.099	3.094	0.348	134.611	0.882

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.032	-0.345	-0.036	0.300	0.024	0.042	0.046	12.259
S.D.	0.012	0.225	0.013	0.234	0.008	0.012	0.033	0.197
% R.S.D.	36.739	65.270	34.938	77.865	33.474	27.724	70.967	1.609

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.140	0.999	-0.040	-0.007	-1.116
S.D.	0.003	0.684	0.013	0.000	0.431
% R.S.D.	2.330	68.429	32.858	1.194	38.619

Identity 1: S95T001659_A Identity 2: .5-10 ml 1:22 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 21.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	20.090	20.202	19.406	20.224	19.713	19.929	20.616	1708.738
S.D.	0.011	0.043	0.200	0.045	0.058	0.033	0.056	3.711
% R.S.D.	0.057	0.215	1.029	0.220	0.293	0.167	0.269	0.217

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	20.126	20.234	20.342	20.181	23.584	20.330	20.182	40.185
S.D.	0.016	0.050	0.049	0.196	0.056	0.042	0.222	0.806
% R.S.D.	0.078	0.248	0.241	0.973	0.236	0.205	1.098	2.005

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	19.729	20.594	20.273	19.934	22.554	20.083	19.938	27.200
S.D.	0.222	0.086	0.049	0.594	0.361	0.015	0.131	0.061
% R.S.D.	1.127	0.418	0.240	2.981	1.601	0.077	0.658	0.225

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	19.973	18.972	17.197	20.467	19.705	19.983	19.865	29.797
S.D.	0.070	0.370	0.028	0.235	0.042	0.054	0.102	0.547
% R.S.D.	0.348	1.950	0.162	1.150	0.212	0.268	0.515	1.835

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	20.262	17.365	20.005	20.499	17.763
S.D.	0.017	0.800	0.024	0.025	0.308
% R.S.D.	0.084	4.607	0.122	0.122	1.734

Identity 1: ICSA Identity 2: Quality Control 1:28 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00 WHC-SD-WM-DP-145, REV. 1
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.009	0.001	-0.026	0.007	200.218	0.006	0.003	0.001
S.D.	0.000	0.000	0.010	0.001	0.525	0.003	0.000	0.000
% R.S.D.	1.177	3.896	36.717	20.775	0.262	42.766	4.594	26.729

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.020	0.005	0.002	96.558	100.605	-0.002	-0.010	0.030
S.D.	0.001	0.002	0.001	0.154	0.296	0.000	0.008	0.024
% R.S.D.	2.719	33.372	55.238	0.160	0.294	19.482	81.856	80.994

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.001	0.030	0.004	0.027	-0.015	97.811	-0.002	188.870
S.D.	0.007	0.005	0.000	0.010	0.010	0.249	0.002	0.817
% R.S.D.	689.690	17.756	3.876	38.570	70.510	0.254	117.881	0.432

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.045	0.030	0.011	0.000	0.002	0.013	0.269
S.D.	0.000	0.014	0.002	0.003	0.000	0.001	0.002	0.014
% R.S.D.	42.854	32.383	6.959	26.615	11.987	37.065	14.821	5.148

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.023	-0.002	0.002	-0.021
S.D.	0.000	0.006	0.001	0.000	0.015
% R.S.D.	6.372	26.561	45.671	0.165	70.691

Identity 1: ICSAB Identity 2: Quality Control 1:31 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.006	0.001	-0.043	0.004	201.292	0.485	0.503	0.966
S.D.	0.001	0.000	0.011	0.003	0.398	0.000	0.001	0.001
% R.S.D.	11.627	2.474	24.630	76.116	0.198	0.001	0.277	0.152

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.967	0.971	0.003	97.301	101.383	0.492	-0.013	0.038
S.D.	0.002	0.008	0.001	0.126	0.212	0.003	0.009	0.005
% R.S.D.	0.229	0.832	36.578	0.130	0.209	0.523	68.671	14.588

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.001	0.036	0.500	0.005	0.018	99.648	-0.015	188.454
S.D.	0.003	0.003	0.001	0.026	0.015	0.157	0.006	0.275
% R.S.D.	352.356	9.052	0.178	535.104	81.090	0.158	38.158	0.146

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.005	0.013	1.001	0.974	0.000	0.987	0.015	0.282
S.D.	0.002	0.004	0.001	0.019	0.000	0.002	0.001	0.011
% R.S.D.	35.942	32.005	0.113	1.939	90.669	0.205	3.419	4.074

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.500	0.022	0.482	0.494	-0.048
S.D.	0.001	0.009	0.001	0.001	0.007
% R.S.D.	0.154	40.644	0.246	0.150	13.692

Identity 1: CCV Identity 2: Quality Control 1:38 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.956	4.993	4.974	4.684	4.972	4.991	5.130	5.125
S.D.	0.010	0.007	0.012	0.004	0.006	0.004	0.005	0.013
% R.S.D.	0.192	0.147	0.231	0.092	0.129	0.084	0.092	0.249

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.984	4.988	5.012	5.041	4.809	5.011	5.167	9.688
S.D.	0.006	0.010	0.006	0.021	0.007	0.014	0.007	0.034
% R.S.D.	0.111	0.196	0.124	0.408	0.136	0.286	0.130	0.348

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.012	5.068	5.023	4.986	4.930	4.899	5.063	5.089
S.D.	0.018	0.013	0.006	0.189	0.092	0.008	0.021	0.019
% R.S.D.	0.354	0.250	0.128	3.786	1.874	0.160	0.424	0.365

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.052	4.849	4.853	4.912	4.882	5.015	5.042	5.225
S.D.	0.015	0.017	0.004	0.016	0.007	0.007	0.011	0.022
% R.S.D.	0.294	0.354	0.089	0.328	0.144	0.138	0.222	0.430

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	4.993	4.700	4.975	5.189	4.731
S.D.	0.008	0.069	0.008	0.009	0.011
% R.S.D.	0.156	1.466	0.153	0.170	0.241

Identity 1: CCB Identity 2: Quality Control 1:42 PM September 8, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00 WHO-SD-WM-DP-145, REV. 1
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.001	-0.000	0.002	0.002	-0.001	-0.000	-0.000	0.000
S.D.	0.000	0.000	0.012	0.001	0.003	0.003	0.000	0.000
% R.S.D.	7.863	42.857	726.981	64.001	185.401	15937953.685	26.399	51.374

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	0.001	-0.001	0.001	0.000	-0.002	-0.000	0.069
S.D.	0.001	0.001	0.001	0.002	0.000	0.001	0.006	0.016
% R.S.D.	177.453	53.168	181.258	121.094	29.178	60.282	1395.398	23.725

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.014	0.014	-0.000	-0.027	0.004	-0.000	-0.007	0.042
S.D.	0.006	0.003	0.000	0.006	0.006	0.000	0.003	0.003
% R.S.D.	39.817	24.211	39.068	24.017	152.418	28791027.376	37.325	6.944

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.001	0.006	0.010	0.001	-0.001	0.001	0.112
S.D.	0.002	0.003	0.001	0.008	0.000	0.001	0.001	0.004
% R.S.D.	160.577	271.271	14.593	76.749	14.740	60.232	64.602	3.227

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.053	-0.002	-0.000	-0.046
S.D.	0.001	0.017	0.000	0.000	0.008
% R.S.D.	194444.563	32.091	4.467	70.617	16.714

09-08-95

08/24/95 12:50 File: 095T028A.TXT
A-0004-1 WHC-SD-WM-DP-145, REV. 1 Page:

LABCORE Data Entry Template for Worklist# 2097

Analyst: K Sato **Instrument:** ICP01 8-28-95 **Book#** 46848

Method: LA-505-~~151~~/61 8-28-95 **Rev/Mod** B-0

Worklist Comment: ICP BY-108R (Acid Digest)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T001483	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
8	DUP	S95T001483	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T001483	0	A	@ICP-A01	SOLID		
10	SAMPLE	S95T001484	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
11	DUP	S95T001484	0	A	@ICP-A01	SOLID		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		
14	SAMPLE	S95T001485	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
15	DUP	S95T001485	0	A	@ICP-A01	SOLID		
16	SAMPLE	S95T001486	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
17	DUP	S95T001486	0	A	@ICP-A01	SOLID		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2097

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
18	ICSA				@ICP-QC	QC		
19	ICSAB				@ICP-QC	QC		
20	CCV				@ICP-QC	QC		
21	CCB				@ICP-QC	QC		

Final page for worklist # 2097

DK [signature] 08-28-95
Analyst Signature Date

Reviewed & Validated by:
Samuel M. Parry 08/31/95
Analyst Signature Date

Prepstd TJa 5 ml each, WHC 1a & 2, in 100 ml
Prepblk TJa 100 ml

S95T001483_L, 1.0240g → 100 ml, (100 x 25)/1.0240 = 2441.4
S95T001483 1.0240g → 100 (100 x 5)/1.024 = 488.3
S95T001483_D 1.0090g → 100 (100 x 5)/1.0090 = 495.5
S95T001483_S 1.0870g → 100 (100 x 5)/1.0870 = 460.0

S95T001484_L, 1.0330g → 100 ml, (100 x 25)/1.0330 = 2420.1
S95T001484 1.0330g → 100 (100 x 5)/1.0330 = 484.0
S95T001484_D 1.0320g → 100 (100 x 5)/1.0320 = 484.5

S95T001485_L, 1.0050g → 100 ml, (100 x 25)/1.0050 = 2487.6
S95T001485 1.0050g → 100 (100 x 5)/1.0050 = 497.5
S95T001485_D 1.0410g → 100 (100 x 5)/1.0410 = 480.3

S95T001486_L, 1.0400g → 100 ml, (100 x 25)/1.0400 = 2403.8
S95T001486 1.0400g → 100 (100 x 5)/1.0400 = 480.8
S95T001486_D 1.0800g → 100 (100 x 5)/1.0800 = 463.0
S95T001486_S 1.0346g → 100 (100 x 5)/1.0346 = 483.3

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950828A	ICP2	08/28/95	12:34	DKS	Q	CONC
2	ICB	950828A	ICP2	08/28/95	12:37	DKS	Q	CONC
3	ICSA	950828A	ICP2	08/28/95	12:40	DKS	Q	CONC
4	ICSAB	950828A	ICP2	08/28/95	12:43	DKS	Q	CONC
5	PREPSTDTJA	950828A	ICP2	08/28/95	12:49	DKS	S	CONC
6	PREPBLKTJA	950828A	ICP2	08/28/95	12:54	DKS	S	CONC
7	S95T001483_L	950828A	ICP2	08/28/95	12:59	DKS	S	CONC
8	S95T001483	950828A	ICP2	08/28/95	13:03	DKS	S	CONC
9	S95T001483_D	950828A	ICP2	08/28/95	13:07	DKS	S	CONC
10	S95T001483_S	950828A	ICP2	08/28/95	13:11	DKS	S	CONC
11	CCV	950828A	ICP2	08/28/95	13:17	DKS	Q	CONC
12	CCB	950828A	ICP2	08/28/95	13:22	DKS	Q	CONC
13	S95T001484_L	950828A	ICP2	08/28/95	13:26	DKS	S	CONC
14	S95T001484	950828A	ICP2	08/28/95	13:32	DKS	S	CONC
15	S95T001484_D	950828A	ICP2	08/28/95	13:36	DKS	S	CONC
16	S95T001485_L	950828A	ICP2	08/28/95	13:42	DKS	S	CONC
17	S95T001485	950828A	ICP2	08/28/95	13:46	DKS	S	CONC
18	S95T001485_D	950828A	ICP2	08/28/95	13:49	DKS	S	CONC
19	CCV_1	950828A	ICP2	08/28/95	13:57	DKS	Q	CONC
20	CCB_1	950828A	ICP2	08/28/95	14:01	DKS	Q	CONC
21	S95T001486_L	950828A	ICP2	08/28/95	14:05	DKS	S	CONC
22	S95T001486	950828A	ICP2	08/28/95	14:09	DKS	S	CONC
23	S95T001486_D	950828A	ICP2	08/28/95	14:12	DKS	S	CONC
24	S95T001486_S	950828A	ICP2	08/28/95	14:16	DKS	S	CONC
25	ICSA	950828A	ICP2	08/28/95	14:22	DKS	Q	CONC
26	ICSAB	950828A	ICP2	08/28/95	14:26	DKS	Q	CONC
27	CCV_2	950828A	ICP2	08/28/95	14:35	DKS	Q	CONC
28	CCB_2	950828A	ICP2	08/28/95	14:39	DKS	Q	CONC

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08-28-95

BY-108 S95T001483
S95T001484
S95T001485

Worklist # 2097

WHO-SD-WM-DP-145, REV. 1

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 563 TO 568.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.964	5.050	5.226	5.069	5.105	5.269
2	ICB	.0012	.0073	.0055	.0014	-.0001	.0002
3	ICSA	-.0006	251.2	-.0199	-.0023	.0018	.0002
4	ICSAB	.9591	247.0	-.0026	-.0038	.4703	.4830
5	PREPSTDTJA	.7852	5.131	4.597	4.987	4.549	4.948
6	PREPBLKTJA	.0004	.1509	.0214	.2668	.0005	.0001
7	S95T001483_L	-.2549	48120.	30.97	28.16	1.250	.1747
8	S95T001483	.6012	46790.	4.384	27.68	1.510	.2761
9	S95T001483_D	1.195	50090.	8.917	36.46	1.260	.2599
10	S95T001483_S	77.62	46250.	448.9	437.7	421.7	450.2
11	CCV	5.058	5.107	5.340	5.148	5.182	5.396
12	CCB	.0016	.0052	.0069	.0023	-.0000	-.0000
13	S95T001484_L	-.2882	39280.	17.42	14.64	1.656	.2533
14	S95T001484	.6911	38640.	2.705	5.960	1.785	.3014
15	S95T001484_D	.8143	34750.	-11.65	7.519	1.889	.2499
16	S95T001485_L	.7407	18610.	15.29	16.19	1.555	.1697
17	S95T001485	.3164	18300.	7.044	7.263	1.520	.2408
18	S95T001485_D	.8210	19770.	-.3485	7.039	1.672	.2495
19	CCV_1	5.033	5.089	5.293	5.120	5.146	5.353
20	CCB_1	.0014	-.0027	-.0046	.0046	-.0000	.0001
21	S95T001486_L	1.474	24110.	-9.402	10.36	20.76	.6152
22	S95T001486	.6721	23320.	.8248	11.60	20.00	.2834
23	S95T001486_D	.9566	23830.	-1.382	10.79	20.71	.2633
24	S95T001486_S	80.13	26040.	468.5	460.2	453.6	466.6
25	ICSA	.0016	250.0	.0051	-.0106	.0018	.0003
26	ICSAB	.9640	247.3	.0250	-.0004	.4692	.4868
27	CCV_2	4.954	5.023	5.264	5.071	5.085	5.305
28	CCB_2	.0011	-.0064	.0086	.0051	.0000	-.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.072	5.200	5.181	5.125	5.157	5.214
2	ICB	-.0006	.0039	.0004	-.0025	.0023	.0013
3	ICSA	.0090	248.8	.0012	.0082	.0007	.0071
4	ICSAB	-.0088	251.2	.9565	.0132	.4750	.4872
5	PREPSTDTJA	4.386	4.731	4.509	4.594	4.611	4.590
6	PREPBLKTJA	-.0063	.1130	-.0007	-.0011	.0005	.0028
7	S95T001483_L	15.32	331.1	.2979	-10.06	1.095	132.9
8	S95T001483	15.32	205.1	.6433	.1141	4.380	126.0
9	S95T001483_D	12.26	121.0	.6879	2.368	3.919	111.3
10	S95T001483_S	437.1	607.8	439.0	429.5	444.8	552.4
11	CCV	5.189	5.433	5.329	5.196	5.281	5.355
12	CCB	.0096	.0042	.0003	.0026	.0007	.0007
13	S95T001484_L	5.651	253.8	.8954	-12.07	-.4050	129.0
14	S95T001484	-3.062	138.4	1.333	.0141	4.609	127.4
15	S95T001484_D	-.7228	125.6	1.108	-1.076	4.899	141.2
16	S95T001485_L	5.533	267.0	3.042	3.236	7.377	139.5
17	S95T001485	19.82	140.7	.6269	.1610	6.382	134.4
18	S95T001485_D	7.687	133.4	.5055	2.475	5.335	146.6
19	CCV_1	5.080	5.382	5.270	5.168	5.244	5.311
20	CCB_1	-.0019	.0033	-.0002	-.0058	-.0016	-.0001
21	S95T001486_L	70.54	1063.	1.741	.0233	15.63	273.6

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WHO-CO-WM-DP-145, REV.1

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
22	S95T001486	79.97	895.4	1.282	-2.249	16.05	258.8
23	S95T001486_D	67.47	885.0	.7323	-2.304	15.71	261.8
24	S95T001486_S	497.0	1432.	459.1	440.6	472.8	741.6
25	ICSA	-.0014	256.2	.0012	.0194	.0009	.0062
26	ICSAB	-.0287	255.4	.9632	.0177	.4779	.4926
27	CCV_2	5.099	5.343	5.202	5.097	5.169	5.240
28	CCB_2	-.0126	.0047	.0007	.0007	-.0022	.0009

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.188	.0073	5.195	5.187	5.125	5.040
2	ICB	.0004	.0011	.0003	.0009	-.0004	.0013
3	ICSA	-.0095	-.0078	94.15	.1316	-.0037	.0032
4	ICSAB	.4787	-.0141	93.55	.4115	-.0034	.9774
5	PREPSTDTJA	4.497	.0058	4.586	4.370	4.614	4.437
6	PREPBLKTJA	.0029	-.0007	.0473	.0929	-.0003	.0003
7	S95T001483_L	6.937	3.500	396.7	1557.	-1.542	22.38
8	S95T001483	5.067	.9856	389.4	1224.	-.0654	18.42
9	S95T001483_D	4.939	1.234	305.3	1091.	.2118	17.60
10	S95T001483_S	427.5	1.369	764.7	1537.	435.5	434.3
11	CCV	5.263	.0076	5.329	5.083	5.195	5.041
12	CCB	.0006	.0014	.0010	.0952	.0011	.0014
13	S95T001484_L	2.806	3.077	463.5	1588.	-.3816	5.547
14	S95T001484	3.965	.9342	455.5	1122.	.3141	3.282
15	S95T001484_D	4.366	.8775	450.3	1275.	-.1245	3.378
16	S95T001485_L	3.360	4.659	478.8	1747.	1.849	5.226
17	S95T001485	4.281	.6290	467.2	1327.	.4344	.9977
18	S95T001485_D	3.116	.8891	511.8	1380.	.4775	1.009
19	CCV_1	5.223	.0080	5.292	4.960	5.164	5.016
20	CCB_1	-.0005	.0017	.0006	.1931	-.0011	.0020
21	S95T001486_L	7.895	3.766	2917.	2077.	1.794	4.591
22	S95T001486	4.026	1.308	2773.	1519.	1.560	1.515
23	S95T001486_D	3.362	1.289	2718.	1658.	1.763	1.415
24	S95T001486_S	389.9	2.091	2762.	2139.	449.5	425.6
25	ICSA	-.0093	-.0221	95.23	.2866	-.0038	.0042
26	ICSAB	.4776	-.0218	94.25	.3098	-.0026	.9705
27	CCV_2	5.177	.0077	5.215	4.929	5.108	5.019
28	CCB_2	.0004	.0018	.0011	.2630	.0007	.0018

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.042	5.088	5.199	5.039	5.230	5.149
2	ICB	.0038	.0004	.0012	.0081	.0020	.0095
3	ICSA	252.7	-.0063	-.0059	195.5	.0025	-.0141
4	ICSAB	249.7	.4534	-.0122	191.3	.0055	.9176
5	PREPSTDTJA	4.436	4.485	4.634	6.045	4.559	4.600
6	PREPBLKTJA	.0126	.0001	.0005	1.013	.0028	.0159
7	S95T001483_L	47.40	5.401	8.256	118000.	4.125	272.0
8	S95T001483	31.29	4.313	5.926	111900.	.9813	253.6
9	S95T001483_D	19.53	3.290	5.190	98740.	1.653	244.8
10	S95T001483_S	445.4	425.6	454.2	117600.	427.6	685.3
11	CCV	5.128	5.190	5.324	5.050	5.293	5.293

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
12	CCB	.0043	.0003	-.0025	.0120	.0031	.0085
13	S95T001484_L	3.364	4.101	5.402	172100.	-5.082	354.3
14	S95T001484	12.97	3.118	6.403	164800.	-.1748	337.9
15	S95T001484_D	18.10	3.016	4.956	162600.	.2408	359.4
16	S95T001485_L	19.91	3.690	3.090	190000.	3.217	483.5
17	S95T001485	16.44	2.660	6.079	183300.	1.703	447.4
18	S95T001485_D	12.82	2.811	5.720	180000.	.0770	469.1
19	CCV_1	5.105	5.148	5.289	5.012	5.264	5.261
20	CCB_1	-.0063	.0006	.0005	.0166	.0001	.0064
21	S95T001486_L	103.7	25.97	4.779	166100.	10.16	1654.
22	S95T001486	99.26	24.01	7.004	159200.	7.923	1551.
23	S95T001486_D	101.6	23.68	6.840	160100.	9.192	1553.
24	S95T001486_S	545.3	462.4	475.5	171600.	447.8	2109.
25	ICSA	253.4	-.0060	-.0109	191.6	.0031	-.0152
26	ICSAB	250.9	.4561	-.0108	190.0	.0037	.9341
27	CCV_2	5.039	5.072	5.221	5.004	5.216	5.178
28	CCB_2	.0031	.0005	-.0006	.0159	.0030	.0063

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.059	5.193	5.173	4.891	5.130	4.906
2	ICB	.0484	.0076	.0182	-.0002	.0441	.0096
3	ICSA	.2080	.0064	-.0262	.0032	.5797	.0186
4	ICSAB	.1350	.9943	-.0154	-.0028	.5977	.0183
5	PREPSTDTJA	4.478	4.478	4.553	4.285	4.577	9.478
6	PREPBLKTJA	.0719	-.0071	.0707	-.0081	.0291	.4413
7	S95T001483_L	4991.	26.93	1791.	-23.75	93.74	271.9
8	S95T001483	4877.	51.10	1708.	-1.391	33.40	239.3
9	S95T001483_D	3048.	57.00	1666.	-1.043	49.05	195.4
10	S95T001483_S	7353.	484.5	2143.	419.8	461.2	632.8
11	CCV	5.171	5.305	5.264	4.991	5.302	5.007
12	CCB	.0489	.0048	.0057	-.0044	.0350	.0096
13	S95T001484_L	3161.	44.35	4014.	-3.423	42.90	195.5
14	S95T001484	3061.	45.51	3964.	-2.197	-37.85	161.5
15	S95T001484_D	2670.	47.66	4312.	-1.819	-46.48	181.0
16	S95T001485_L	5205.	55.79	7164.	-9.867	-15.41	154.8
17	S95T001485	5085.	48.02	7074.	-2.646	-96.83	102.2
18	S95T001485_D	5103.	51.81	7589.	-4.137	-96.28	107.9
19	CCV_1	5.218	5.271	5.265	4.964	5.212	4.969
20	CCB_1	.0685	-.0146	.0105	-.0150	.0461	.0114
21	S95T001486_L	3076.	146.4	17830.	-8.569	22.26	851.2
22	S95T001486	2934.	162.8	17320.	-3.703	-62.88	785.1
23	S95T001486_D	2776.	138.1	16910.	2.024	-72.61	814.5
24	S95T001486_S	3189.	613.8	18680.	437.9	386.2	1367.
25	ICSA	.2316	.0129	-.0175	-.0100	.5889	.0143
26	ICSAB	.1691	.9979	-.0078	-.0078	.6105	.0167
27	CCV_2	5.212	5.167	5.230	4.912	5.188	4.904
28	CCB_2	.0733	.0066	.0158	.0009	.0528	.0112

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WHO-CD-WM-DP-145, REV.1

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.140	5.045	.0200	4.999	5.055	10.20
2	ICB	.0127	.0001	.0003	-.0002	-.0191	.0441
3	ICSA	-.0024	.0018	-.0070	.0004	.0574	-.0970
4	ICSAB	.0093	.0017	.0056	.0014	.0850	-.1049
5	PREPSTDTJA	4.626	4.544	.0209	4.491	4.434	9.216
6	PREPBLKTJA	-.0049	.0030	.0012	.0006	.0146	-.0274
7	S95T001483_L	39.19	5.422	-12.79	7.606	23.13	205.1
8	S95T001483	8.092	4.940	-2.110	8.063	5.220	107.5
9	S95T001483_D	10.81	4.613	-2.520	4.612	-8.642	115.4
10	S95T001483_S	436.5	433.5	-.1647	432.2	425.7	954.7
11	CCV	5.206	5.130	.0231	5.097	5.141	10.32
12	CCB	.0162	.0002	-.0014	-.0004	-.0195	.0509
13	S95T001484_L	35.63	10.78	-13.17	.5511	8.592	250.2
14	S95T001484	9.110	10.22	-.6934	2.108	-2.603	173.7
15	S95T001484_D	9.736	10.52	-5.097	2.211	4.928	178.9
16	S95T001485_L	54.91	30.87	1.679	.5933	-29.02	342.8
17	S95T001485	7.226	30.01	-.5791	.8309	.7675	179.8
18	S95T001485_D	9.885	31.35	-.1455	.8065	5.930	190.3
19	CCV_1	5.186	5.105	.0214	5.072	5.139	10.26
20	CCB_1	.0224	.0000	-.0071	-.0006	-.0024	.0761
21	S95T001486_L	36.57	1148.	4.176	7.981	28.82	2709.
22	S95T001486	8.754	1109.	2.349	8.932	7.684	2516.
23	S95T001486_D	8.492	1172.	.2187	9.842	13.54	2588.
24	S95T001486_S	452.0	1663.	5.483	452.3	440.8	3640.
25	ICSA	.0074	.0016	.0035	.0006	.0908	-.1329
26	ICSAB	.0100	.0017	.0034	.0008	.0653	-.1237
27	CCV_2	5.124	5.046	.0204	5.001	5.122	10.18
28	CCB_2	.0217	-.0003	-.0054	-.0002	.0011	.0738

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.155	.0142	5.155	5.084
2	ICB	.0031	.0008	-.0010	.0017
3	ICSA	.0022	.0082	.0013	-.0023
4	ICSAB	.4763	.0086	.9847	-.0035
5	PREPSTDTJA	4.533	.0112	4.396	4.561
6	PREPBLKTJA	-.0003	-.0002	.0051	-.0001
7	S95T001483_L	15.81	2.296	41.58	5.688
8	S95T001483	10.20	.6124	22.24	1.863
9	S95T001483_D	7.556	.8157	21.35	2.348
10	S95T001483_S	440.6	1.587	459.4	203.5
11	CCV	5.276	.0149	5.276	5.175
12	CCB	.0034	.0009	-.0017	.0024
13	S95T001484_L	12.76	2.276	44.09	7.050
14	S95T001484	6.911	.6829	22.66	2.791
15	S95T001484_D	5.954	.7596	22.88	3.143
16	S95T001485_L	17.49	3.510	42.02	5.916
17	S95T001485	7.931	.6240	21.38	1.564
18	S95T001485_D	9.531	.6777	21.23	2.706
19	CCV_1	5.239	.0148	5.237	5.142
20	CCB_1	.0044	.0013	-.0018	.0031
21	S95T001486_L	10.48	4.711	106.8	11.50

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#	Sample Name	V	Y	Zn	Zr
22	S95T001486	3.261	2.337	86.78	10.21
23	S95T001486_D	2.758	2.395	26.85	11.04
24	S95T001486_S	453.2	3.751	486.3	463.2
25	ICSA	.0045	.0089	.0003	-.0016
26	ICSAB	.4811	.0091	.9908	-.0005
27	CCV_2	5.172	.0144	5.161	5.079
28	CCB_2	.0044	.0013	-.0020	.0029

8-28-95

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WHO-SD-WM DP-145, REV.1

F.LE # 0950907A

09/05/95 10:02
A-0004-1

WHC-CD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2098

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 9-7-95 **Book#** 466413

Method: LA-505-~~151~~ 161 9-7-95 Rev/Mod B-0

Worklist Comment: ICP BY-108R (Acid Digest)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T001487	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
8	DUP	S95T001487	0	A	@ICP-A01	SOLID		
9	SAMPLE	S95T001488	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
10	DUP	S95T001488	0	A	@ICP-A01	SOLID		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		
13	SAMPLE	S95T001489	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
14	DUP	S95T001489	0	A	@ICP-A01	SOLID		
15	SPK-PREDIG	S95T001489	0	A	@ICP-A01	SOLID		
16	ICSA				@ICP-QC	QC		
17	ICSAB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2098

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
18	CCV				@ICP-QC	QC		
19	CCB				@ICP-QC	QC		

Final page for worklist # 2098

Reviewed & Validated by:

[signature] 9-7-95
Analyst Signature Date

[signature] 09/11/95
Analyst Signature Date

		D.F.
PREP STD TJA	5mL ea. (WHC-1A, WHC-2) in 100mL	1
PREP BLK TJA	100mL DIRECT	1
S95T001487_L	1.0010g in 100mL - 1mL-9mL-2mL-8mL	4995
S95T001487	1.0010g in 100mL - 1mL-9mL	999
S95T001487_D	1.0083g in 100mL - 1mL-9mL	992
~~S95T001487_A~~	~~1.0010g in 100mL~~ BB 9-7-95	
S95T001488_L	1.0632g in 100mL - 1mL-9mL-2mL-8mL	4703
S95T001488	1.0632g in 100mL - 1mL-9mL	941
S95T001488_D	1.0789g in 100mL - 1mL-9mL	927
S95T001489_L	1.0289g in 100mL - 1mL-9mL-2mL-8mL	4860
S95T001489	1.0289g in 100mL - 1mL-9mL	972
S95T001489_D	1.0362g in 100mL - 1mL-9mL	965
S95T001489_S	1.0544g in 100mL - 1mL-9mL	948

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950907A	ICP2	09/07/95	10:10	BJG	Q	CONC
2	ICB	950907A	ICP2	09/07/95	10:16	BJG	Q	CONC
3	ICSA	950907A	ICP2	09/07/95	10:20	BJG	Q	CONC
4	ICSAB	950907A	ICP2	09/07/95	10:24	BJG	Q	CONC
5	PREPSTDTJA	950907A	ICP2	09/07/95	10:29	BJG	S	CONC
6	PREPBLKTJA	950907A	ICP2	09/07/95	10:38	BJG	S	CONC
7	S95T001487_L	950907A	ICP2	09/07/95	10:42	BJG	S	CONC
8	S95T001487	950907A	ICP2	09/07/95	10:45	BJG	S	CONC
9	S95T001487_D	950907A	ICP2	09/07/95	10:49	BJG	S	CONC
10	S95T001488_L	950907A	ICP2	09/07/95	10:53	BJG	S	CONC
11	S95T001488	950907A	ICP2	09/07/95	10:57	BJG	S	CONC
12	S95T001488_D	950907A	ICP2	09/07/95	11:00	BJG	S	CONC
13	CCV	950907A	ICP2	09/07/95	11:16	BJG	Q	CONC
14	CCB	950907A	ICP2	09/07/95	11:19	BJG	Q	CONC
15	S95T001489_L	950907A	ICP2	09/07/95	11:23	BJG	S	CONC
16	S95T001489	950907A	ICP2	09/07/95	11:26	BJG	S	CONC
17	S95T001489_D	950907A	ICP2	09/07/95	11:30	BJG	S	CONC
18	S95T001489_S	950907A	ICP2	09/07/95	11:33	BJG	S	CONC
19	ICSA	950907A	ICP2	09/07/95	11:41	BJG	Q	CONC
20	ICSAB	950907A	ICP2	09/07/95	11:45	BJG	Q	CONC
21	CCV_1	950907A	ICP2	09/07/95	11:49	BJG	Q	CONC
22	CCB_1	950907A	ICP2	09/07/95	11:53	BJG	Q	CONC

BJG 9-7-95
BY-10PR
S95T001487-89
ACID DIGEST
FILE# 0950907A

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 571 TO 575.

WHC-SD-WM-DP-145, REV. 1

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.882	5.032	5.145	5.067	5.098	5.213
2	ICB	-.0004	-.0091	-.0049	.0038	-.0000	-.0001
3	ICSA	.0001	256.0	-.0875	.0001	.0019	.0001
4	ICSAB	.9634	255.5	-.0630	-.0011	.4903	.4966
5	PREPSTDTJA	.9064	5.256	5.229	5.428	5.187	5.496
6	PREPBLKTJA	-.0003	.0118	-.0067	.0723	.0001	-.0001
7	S95T001487_L	-2.836	24390.	41.05	21.68	5.972	-.0412
8	S95T001487	-.3626	23850.	-.7019	13.69	5.815	.3205
9	S95T001487_D	-.6069	22290.	-5.185	14.88	5.998	.3143
10	S95T001488_L	-1.785	21780.	-25.05	42.18	2.153	-.3593
11	S95T001488	1.166	21390.	-9.499	14.30	2.002	.0834
12	S95T001488_D	-.7987	23880.	-10.38	12.32	1.324	.0507
13	CCV	4.847	4.889	5.004	4.931	4.867	5.042
14	CCB	.0009	.0002	-.0023	.0050	.0001	.0000
15	S95T001489_L	5.555	25700.	-5.768	15.62	2.067	.4828
16	S95T001489	-.2391	25570.	-12.97	16.92	2.068	.4166
17	S95T001489_D	.0142	23650.	-11.22	31.76	2.563	.2098
18	S95T001489_S	85.15	23590.	481.6	512.3	448.9	477.7
19	ICSA	.0002	247.2	-.0566	.0034	.0018	.0003
20	ICSAB	.9445	246.2	-.0623	.0044	.4645	.4799
21	CCV_1	4.877	4.951	5.087	4.993	4.959	5.156
22	CCB_1	.0001	.0012	.0006	.0086	.0001	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.015	4.985	5.100	5.131	5.059	5.133
2	ICB	-.0493	.0094	-.0004	-.0074	-.0029	-.0013
3	ICSA	-.0463	248.4	.0018	.0247	.0016	.0070
4	ICSAB	-.0425	251.2	.9742	.0119	.4788	.4912
5	PREPSTDTJA	4.980	5.300	5.134	5.242	5.198	5.175
6	PREPBLKTJA	-.0065	-.0710	-.0007	.0030	.0008	.0004
7	S95T001487_L	-156.9	624.0	2.291	6.503	10.84	153.5
8	S95T001487	-11.15	507.0	.5220	-.9440	5.816	150.0
9	S95T001487_D	-11.45	514.3	1.518	13.16	5.270	143.2
10	S95T001488_L	-113.3	286.6	.0950	24.19	-.9449	140.7
11	S95T001488	-2.522	156.2	.3847	6.988	7.350	142.8
12	S95T001488_D	-26.07	119.1	-.6664	.5302	7.296	155.3
13	CCV	4.901	4.889	4.990	4.967	4.992	5.017
14	CCB	-.0665	.0169	.0005	.0083	-.0008	.0004
15	S95T001489_L	-67.21	272.5	-.3315	-6.453	35.12	215.3
16	S95T001489	-34.32	138.9	.6076	-6.946	31.94	214.6
17	S95T001489_D	-48.79	131.9	.9979	4.227	35.70	221.2
18	S95T001489_S	405.2	649.9	476.2	471.1	514.6	693.7
19	ICSA	-.0576	239.4	.0023	.0154	-.0001	.0054
20	ICSAB	-.0504	240.8	.9467	.0103	.4687	.4769
21	CCV_1	4.918	4.950	5.044	5.059	5.033	5.070
22	CCB_1	-.0418	.0203	.0002	.0006	-.0003	-.0007

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.160	.0041	5.136	4.556	5.124	5.100
2	ICB	-.0006	.0000	-.0013	-.3068	-.0007	.0000
3	ICSA	-.0101	-.0169	95.33	.0841	-.0019	.0025
4	ICSAB	.4942	-.0179	95.64	-.2135	-.0033	1.038
5	PREPSTDTJA	5.130	.0038	5.151	4.914	5.242	5.146
6	PREPBLKTJA	.0062	.0007	.0093	-.2510	.0010	.0003
7	S95T001487_L	7.964	2.411	1205.	771.2	1.368	1.549
8	S95T001487	5.214	.4114	1188.	1503.	.8233	.6197
9	S95T001487_D	5.137	1.077	826.4	1361.	2.800	.7179
10	S95T001488_L	3.572	7.058	305.8	511.6	2.794	8.265
11	S95T001488	4.932	1.881	288.6	1542.	1.463	1.751
12	S95T001488_D	3.896	1.030	228.8	1561.	.2053	.9583
13	CCV	5.049	.0071	5.005	4.829	4.950	4.897
14	CCB	.0008	.0011	.0000	-.2821	.0015	.0013
15	S95T001489_L	5.764	3.450	411.6	483.6	-.9928	4.463
16	S95T001489	4.614	.4792	412.7	1671.	-.4435	.8926
17	S95T001489_D	4.320	1.367	609.6	1391.	.7172	1.477
18	S95T001489_S	466.7	2.124	1039.	1963.	469.3	451.5
19	ICSA	-.0109	.0060	92.46	.0094	-.0026	.0032
20	ICSAB	.4816	.0067	92.57	-.1441	-.0041	.9975
21	CCV_1	5.162	.0065	5.052	4.718	5.054	5.025
22	CCB_1	.0008	.0011	.0002	-.1990	.0005	.0012

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.990	5.004	5.087	5.023	5.259	5.108
2	ICB	-.0137	.0001	-.0002	.0008	-.0028	-.0033
3	ICSA	258.5	-.0073	-.0049	201.8	.0031	-.0232
4	ICSAB	258.1	.4607	-.0070	202.1	.0027	.9081
5	PREPSTDTJA	5.086	5.093	5.145	5.427	5.214	5.228
6	PREPBLKTJA	.0076	.0001	-.0001	.1145	.0009	-.0108
7	S95T001487_L	84.87	7.965	2.113	201100.	1.977	1298.
8	S95T001487	44.44	6.515	6.702	193600.	1.250	1277.
9	S95T001487_D	52.57	5.642	8.168	191700.	.5558	1354.
10	S95T001488_L	-36.67	4.209	.3719	178400.	-8.161	1094.
11	S95T001488	2.195	2.198	5.686	173500.	-1.886	1095.
12	S95T001488_D	1.886	1.486	7.409	173600.	-2.029	927.3
13	CCV	4.856	4.896	5.028	4.873	5.075	4.977
14	CCB	.0029	.0006	.0003	.0110	.0007	-.0078
15	S95T001489_L	-29.92	5.090	4.188	179700.	-1.959	757.6
16	S95T001489	13.75	3.391	9.079	177200.	1.123	744.9
17	S95T001489_D	15.06	4.403	6.280	174600.	3.339	832.1
18	S95T001489_S	472.6	456.1	490.6	177000.	466.2	1294.
19	ICSA	250.0	-.0068	-.0051	193.9	.0042	-.0273
20	ICSAB	249.0	.4445	-.0063	193.6	.0015	.8982
21	CCV_1	4.904	4.921	5.086	4.946	5.184	5.004
22	CCB_1	.0061	.0006	.0010	.0102	.0002	-.0057

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.412	5.045	5.077	4.777	5.050	4.808
2	ICB	.0184	.0116	-.0032	-.0034	.0118	.0028
3	ICSA	.1539	.0384	-.0394	-.0058	-.0846	.0062
4	ICSAB	.0958	1.013	-.0329	.0053	-.0803	.0043
5	PREPSTDTJA	5.380	5.077	5.064	4.824	5.189	7.760
6	PREPBLKTJA	.0291	-.0005	.0096	-.0025	.0334	.0703
7	S95T001487_L	3019.	120.4	17690.	-13.07	149.5	371.4
8	S95T001487	2850.	98.55	17300.	1.044	26.87	337.8
9	S95T001487_D	4288.	96.15	17790.	4.319	37.01	363.5
10	S95T001488_L	7562.	105.5	20790.	6.919	175.1	318.1
11	S95T001488	7339.	73.00	20500.	9.039	34.84	258.0
12	S95T001488_D	1394.	58.90	21610.	-4.994	21.77	246.7
13	CCV	5.049	4.994	4.931	4.722	4.893	4.780
14	CCB	.0339	.0070	.0047	.0019	.0413	.0143
15	S95T001489_L	1176.	134.7	26410.	-11.21	165.1	532.8
16	S95T001489	981.8	88.47	26260.	-.6395	26.29	477.8
17	S95T001489_D	1571.	81.95	29480.	.6065	31.46	672.5
18	S95T001489_S	1788.	554.6	32170.	450.3	522.5	1256.
19	ICSA	.1278	.0352	-.0267	.0021	-.0386	.0133
20	ICSAB	.0728	.9895	-.0187	.0072	-.0437	.0123
21	CCV_1	5.106	5.019	4.962	4.765	5.040	4.789
22	CCB_1	.0324	.0088	.0088	-.0008	.0453	.0107

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.145	5.046	-.0710	4.940	4.995	10.13
2	ICB	-.0051	.0001	-.0033	-.0004	.0055	-.0070
3	ICSA	-.0081	.0022	-.0164	.0015	.0444	.0348
4	ICSAB	-.0082	.0021	-.0134	.0017	.0355	-.0069
5	PREPSTDTJA	5.238	5.162	-.0753	5.015	5.035	10.40
6	PREPBLKTJA	.0048	.0005	-.0000	.0009	-.0055	.0201
7	S95T001487_L	7.551	168.6	-19.18	6.359	78.08	795.0
8	S95T001487	.2215	164.2	-3.935	3.385	-2.976	721.0
9	S95T001487_D	5.796	173.2	.4351	3.370	28.18	777.1
10	S95T001488_L	76.44	32.49	-15.20	3.100	88.76	632.3
11	S95T001488	19.84	31.02	-2.816	1.225	8.320	404.2
12	S95T001488_D	11.69	19.29	-7.956	.6061	10.63	337.7
13	CCV	4.964	4.847	-.0564	4.842	4.845	9.929
14	CCB	.0099	.0005	.0018	.0008	.0267	.0484
15	S95T001489_L	47.55	19.08	-14.75	2.080	26.39	516.8
16	S95T001489	2.917	17.48	-3.402	1.412	18.42	366.2
17	S95T001489_D	12.31	20.68	2.808	1.814	10.08	452.4
18	S95T001489_S	481.0	477.1	-4.633	462.7	474.5	1378.
19	ICSA	.0071	.0018	-.0121	.0017	.0289	.1052
20	ICSAB	.0039	.0019	-.0155	.0017	.0589	.0851
21	CCV_1	5.091	4.960	-.0524	4.937	4.868	10.12
22	CCB_1	.0110	.0005	.0011	.0002	.0102	.0403

#	Sample Name	V	Y	Zn	Zr		
1	ICV	5.068	.0127	5.025	5.029		
2	ICB	.0002	-.0001	.0037	-.0003		
3	ICSA	-.0020	.0074	-.0196	-.0025		
4	ICSAB	.4780	.0073	.9684	-.0023		
5	PREPSTDTJA	5.093	.0115	4.992	5.091		
6	PREPBLKTJA	.0018	.0002	-.0153	.0017		
7	S95T001487_L	5.030	2.350	54.14	6.583		
8	S95T001487	1.619	.6266	23.70	3.685		
9	S95T001487_D	3.387	1.167	22.80	3.843		
10	S95T001488_L	20.88	4.794	54.46	11.59		
11	S95T001488	6.300	1.254	20.73	4.789		
12	S95T001488_D	3.077	.7995	18.45	3.019		
13	CCV	4.988	.0139	4.989	4.937		
14	CCB	.0028	.0006	.0026	.0015		
15	S95T001489_L	10.84	2.667	61.25	8.984		
16	S95T001489	1.456	.4573	27.06	2.685		
17	S95T001489_D	3.894	.9079	24.89	4.281		
18	S95T001489_S	468.9	2.378	502.3	476.9		
19	ICSA	.0019	.0084	-.0193	-.0008		
20	ICSAB	.4713	.0080	.9513	-.0009		
21	CCV_1	5.064	.0136	5.014	5.019		
22	CCB_1	.0027	.0007	.0032	.0007		

WI-10-CD-WM-DP-145, REV. 1

FILE # 08505088

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WHC-SD-WM-DP-145, REV. 1

Page:

LABCORE Data Entry Template for Worklist# 2099

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 5-8-95 **Book#** 466488

Method: LA-505-~~151~~ 161 5-8-95 **Rev/Mod** B-0

Worklist Comment: ICP BY-108R (Acid Digest)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T001490	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
8	DUP	S95T001490	0	A	@ICP-A01	SOLID		
~~9~~	~~SPK~~	~~S95T001490~~	~~0~~	~~A~~	~~@ICP-A01~~	~~SOLID~~		
10	SAMPLE	S95T001491	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
11	DUP	S95T001491	0	A	@ICP-A01	SOLID		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		
14	SAMPLE	S95T001492	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
15	DUP	S95T001492	0	A	@ICP-A01	SOLID		
16	SAMPLE	S95T001493	0	A	@ICP-A01	SOLID	95000104	BY-108 (R)
	Analytes Requested: LI-A-01 , NI-A-01							
17	DUP	S95T001493	0	A	@ICP-A01	SOLID		

SP 09/11/95

SP, KE → SP 09/11/95

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2099

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
18	ICSA				@ICP-QC	QC		
19	ICSAB				@ICP-QC	QC		
20	CCV				@ICP-QC	QC		
21	CCB				@ICP-QC	QC		

Final page for worklist # 2099

Reviewed + Validated by:

Analyst Signature — Date: 9-8-95

Analyst Signature — Date: 09/11/95

		D.F.
PREPBLKTJA	100 mL DIRECT	1
PREPSTDTJA	5mL ea. EWHC1A+2 in 100mL	1
S95T001480_L	1.0483g in 100mL -1mL-5mL-2mL-5mL	4770
S95T001480	1.0483g in 100mL -1mL-5mL	954
S95T001480_D	1.0464g in 100mL -1mL-5mL	956
S95T001481_L	1.0342g in 100mL -1mL-5mL-2mL-5mL	4835
S95T001481	1.0342g in 100mL -1mL-5mL-	967
S95T001481_D	1.0331g in 100mL -1mL-5mL	968
S95T001482_L	1.0564g in 100mL -1mL-5mL-2mL-5mL	4733
S95T001482	1.0564g in 100mL -1mL-5mL	947
S95T001482_D	1.0570g in 100mL -1mL-5mL	946
S95T001483_L	.9289g in 100mL -1mL-5mL-2mL-5mL	5383
S95T001483	.9289g in 100mL -1mL-5mL	1076
S95T001483_D	.9272g in 100mL -1mL-5mL	1078
S95T001483_S	.9720g in 100mL -1mL-5mL	1029

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950908B	ICP2	09/08/95	09:49	BJG	Q	CONC
2	ICB	950908B	ICP2	09/08/95	09:55	BJG	Q	CONC
3	ICSA	950908B	ICP2	09/08/95	09:58	BJG	Q	CONC
4	ICSAB	950908B	ICP2	09/08/95	10:03	BJG	Q	CONC
5	PREPSTDTJA	950908B	ICP2	09/08/95	10:07	BJG	S	CONC
6	PREPBLKTJA	950908B	ICP2	09/08/95	10:13	BJG	S	CONC
7	S95T001490_L	950908B	ICP2	09/08/95	10:17	BJG	S	CONC
8	S95T001490	950908B	ICP2	09/08/95	10:21	BJG	S	CONC
9	S95T001490_D	950908B	ICP2	09/08/95	10:25	BJG	S	CONC
10	S95T001491_L	950908B	ICP2	09/08/95	10:33	BJG	S	CONC
11	S95T001491	950908B	ICP2	09/08/95	10:37	BJG	S	CONC
12	S95T001491_D	950908B	ICP2	09/08/95	10:42	BJG	S	CONC
13	CCV	950908B	ICP2	09/08/95	10:53	BJG	Q	CONC
14	CCB	950908B	ICP2	09/08/95	10:57	BJG	Q	CONC
15	S95T001492_L	950908B	ICP2	09/08/95	11:01	BJG	S	CONC
16	S95T001492	950908B	ICP2	09/08/95	11:05	BJG	S	CONC
17	S95T001492_D	950908B	ICP2	09/08/95	11:08	BJG	S	CONC
18	S95T001493_L	950908B	ICP2	09/08/95	11:15	BJG	S	CONC
19	S95T001493	950908B	ICP2	09/08/95	11:18	BJG	S	CONC
20	S95T001493_D	950908B	ICP2	09/08/95	11:22	BJG	S	CONC
21	S95T001493_S	950908B	ICP2	09/08/95	11:27	BJG	S	CONC
22	ICSA	950908B	ICP2	09/08/95	11:31	BJG	Q	CONC
23	ICSAB	950908B	ICP2	09/08/95	11:34	BJG	Q	CONC
24	CCV_1	950908B	ICP2	09/08/95	11:39	BJG	Q	CONC
25	CCB_1	950908B	ICP2	09/08/95	11:43	BJG	Q	CONC

WHC-CD-WM-DP-146, REV. 1

BJG 9-8-95
B4-108R
S95T001490-93
1-6-9-6

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 578 TO 582.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.900	4.943	5.087	4.996	4.940	5.152
2	ICB	-.0037	.0056	-.0045	.0018	-.0001	.0001
3	ICSA	-.0015	247.6	-.0484	.0000	.0035	.0004
4	ICSAB	.9558	248.5	-.0515	-.0113	.4734	.4866
5	PREPSTDTJA	.8436	5.002	5.016	5.196	4.897	5.243
6	PREPBLKTJA	-.0013	.0095	-.0110	.0009	.0001	.0001
7	S95T001490_L	-7.265	14840.	-13.08	4.603	190.2	1.304
8	S95T001490	-.8590	14440.	-18.97	14.34	184.7	.2783
9	S95T001490_D	-2.090	14450.	-15.86	16.95	184.3	.1154
10	S95T001491_L	-4.184	10380.	-1.462	20.15	441.7	1.327
11	S95T001491	-1.144	10210.	-21.06	5.431	435.0	.1962
12	S95T001491_D	-.0122	10120.	-28.21	14.91	429.2	.1424
13	CCV	4.976	5.025	5.224	5.064	5.022	5.291
14	CCB	-.0018	.0056	-.0085	.0014	-.0001	.0002
15	S95T001492_L	-4.517	6739.	-44.55	7.284	149.4	.1413
16	S95T001492	-1.735	6677.	-16.33	16.10	147.6	.0083
17	S95T001492_D	-.9692	6684.	-23.21	15.26	147.6	.1419
18	S95T001493_L	.2105	5874.	-73.79	-7.704	48.12	.7953
19	S95T001493	-1.326	5842.	-35.05	10.15	47.85	-.0857
20	S95T001493_D	-1.214	5873.	-16.69	14.61	48.08	.0965
21	S95T001493_S	90.20	9897.	487.5	548.7	583.9	530.9
22	ICSA	-.0025	251.3	-.0840	-.0064	.0036	.0004
23	ICSAB	.9589	249.0	-.0587	-.0067	.4707	.4875
24	CCV_1	4.964	5.026	5.173	5.046	5.037	5.250
25	CCB_1	-.0026	.0117	-.0028	.0064	-.0000	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	4.944	4.928	5.094	5.027	5.086	5.103
2	ICB	-.0114	-.0002	.0002	-.0069	-.0026	-.0010
3	ICSA	.0140	242.9	.0011	.0102	-.0009	-.0064
4	ICSAB	-.0026	244.1	.9595	.0011	.4744	.4700
5	PREPSTDTJA	4.794	4.957	4.979	5.010	5.086	4.999
6	PREPBLKTJA	.0145	-.0897	.0007	.0039	-.0007	.0010
7	S95T001490_L	523.0	24130.	2.051	25.63	-17.66	344.2
8	S95T001490	559.7	23160.	3.089	-4.577	-3.008	336.6
9	S95T001490_D	549.6	23000.	1.855	-12.79	-4.766	333.4
10	S95T001491_L	1145.	7810.	12.40	-36.20	-16.84	389.4
11	S95T001491	1104.	7578.	5.357	-34.48	-10.98	385.9
12	S95T001491_D	1085.	7501.	3.340	-36.73	-9.794	379.7
13	CCV	5.085	5.112	5.227	5.129	5.197	5.219
14	CCB	-.0090	.0030	.0002	-.0038	-.0047	-.0014
15	S95T001492_L	787.6	15540.	4.765	-8.212	-18.02	80.48
16	S95T001492	742.4	15310.	4.690	14.93	-9.496	77.53
17	S95T001492_D	760.0	15450.	3.712	15.46	-8.825	79.12
18	S95T001493_L	389.0	7457.	.7783	3.020	-5.322	46.98
19	S95T001493	407.6	7272.	3.383	41.92	-5.581	42.61
20	S95T001493_D	425.2	7260.	6.026	49.09	-8.639	42.69
21	S95T001493_S	1384.	11490.	525.7	576.3	511.6	580.0
22	ICSA	-.0145	247.1	.0007	.0121	-.0024	-.0068
23	ICSAB	-.0128	246.5	.9569	.0129	.4734	.4723
24	CCV_1	5.023	5.086	5.150	5.138	5.139	5.183

WHC-SD-WM-DP-145, REV. 1

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
25	CCB_1	-.0040	.0061	-.0006	-.0004	-.0024	-.0006

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.117	.0055	5.085	4.963	5.012	4.941
2	ICB	-.0004	-.0005	-.0017	-.1828	-.0012	-.0001
3	ICSA	-.0084	-.0035	93.10	.1249	-.0044	.0024
4	ICSAB	.4864	-.0010	93.12	-.0971	-.0058	1.008
5	PREPSTDTJA	4.980	.0046	4.973	4.979	5.014	4.889
6	PREPBLKTJA	.0078	-.0012	.0287	-.0269	-.0001	-.0007
7	S95T001490_L	2.912	22.52	7772.	1236.	35.74	5.715
8	S95T001490	6.525	18.39	7475.	1262.	33.27	4.477
9	S95T001490_D	5.756	18.81	7441.	1088.	31.89	4.486
10	S95T001491_L	7.176	-5.111	9599.	716.8	63.88	3.862
11	S95T001491	8.967	-2.917	9384.	1017.	65.76	4.248
12	S95T001491_D	8.996	-2.456	9282.	1122.	64.32	4.253
13	CCV	5.219	.0048	5.211	4.950	5.121	5.022
14	CCB	-.0008	-.0005	-.0012	-.1359	-.0009	.0001
15	S95T001492_L	9.595	7.537	13500.	248.9	18.60	3.781
16	S95T001492	12.80	6.889	13240.	1022.	24.69	3.971
17	S95T001492_D	12.42	7.234	13320.	888.6	25.78	3.967
18	S95T001493_L	31.11	-.4523	19050.	554.8	29.10	8.600
19	S95T001493	29.83	-2.092	18630.	693.5	36.26	4.083
20	S95T001493_D	29.61	-2.347	18720.	913.8	36.43	4.305
21	S95T001493_S	541.6	-5.534	38440.	1601.	571.0	502.8
22	ICSA	-.0105	-.0079	94.20	.0360	-.0036	.0020
23	ICSAB	.4858	-.0066	93.48	.1147	-.0037	1.007
24	CCV_1	5.230	.0045	5.175	4.956	5.129	5.097
25	CCB_1	-.0004	-.0009	-.0005	-.0009	-.0004	-.0003

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.899	4.970	5.116	4.909	5.133	5.044
2	ICB	-.0077	-.0000	-.0008	-.0040	-.0042	-.0080
3	ICSA	247.7	-.0078	-.0107	192.5	.0184	-.0272
4	ICSAB	248.4	.4491	-.0119	194.7	.0161	.9143
5	PREPSTDTJA	4.872	4.904	5.146	5.156	4.976	5.068
6	PREPBLKTJA	-.0005	-.0001	-.0015	.0622	-.0011	-.0091
7	S95T001490_L	984.0	98.71	-11.67	133600.	58.68	15540.
8	S95T001490	977.7	93.30	-2.563	130700.	66.96	14850.
9	S95T001490_D	966.4	93.00	-2.122	131200.	67.02	14770.
10	S95T001491_L	962.4	158.7	-.3343	111300.	147.5	10280.
11	S95T001491	997.5	156.2	-.7483	109200.	139.5	9920.
12	S95T001491_D	981.8	155.3	-2.642	107800.	138.8	9790.
13	CCV	4.999	5.060	5.225	4.990	5.233	5.158
14	CCB	-.0165	.0001	-.0005	-.0036	-.0046	-.0040
15	S95T001492_L	459.3	142.6	-7.472	111400.	62.63	5803.
16	S95T001492	552.1	140.7	.0205	109400.	67.09	5647.
17	S95T001492_D	552.2	142.1	-3.367	108600.	66.79	5672.
18	S95T001493_L	630.1	264.5	-6.584	81550.	62.71	3623.
19	S95T001493	626.2	258.6	-3.342	80980.	64.10	3599.
20	S95T001493_D	604.9	259.5	-.1740	81210.	64.68	3612.

WHC-CD-WM-DP-145, REV. 1

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
21	S95T001493_S	1560.	966.2	531.1	126600.	608.8	6917.
22	ICSA	251.0	-.0080	-.0135	195.9	.0134	-.0154
23	ICSAB	249.3	.4492	-.0103	194.4	.0150	.9017
24	CCV_1	4.991	5.024	5.191	5.036	5.257	5.125
25	CCB_1	-.0085	-.0000	-.0012	-.0083	-.0031	-.0090

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.077	5.073	5.048	4.795	5.055	4.816
2	ICB	.0046	-.0245	.0030	-.0003	.0009	.0019
3	ICSA	.0215	.0048	.0569	-.0082	-.0726	.0085
4	ICSAB	.0064	.9619	.0397	.0009	-.0704	.0114
5	PREPSTDTJA	5.164	4.927	4.996	4.795	5.120	6.230
6	PREPBLKTJA	.0081	-.0052	-.0052	.0040	.0201	.0129
7	S95T001490_L	24240.	434.1	9464.	-3.788	151.1	2529.
8	S95T001490_	23690.	459.0	9308.	14.99	-.8266	2453.
9	S95T001490_D	24150.	450.5	9297.	.6170	8.818	2439.
10	S95T001491_L	13700.	642.0	1735.	55.48	78.21	2238.
11	S95T001491_	13550.	638.3	1618.	-1.837	46.21	2214.
12	S95T001491_D	13480.	613.9	1640.	8.967	53.54	2203.
13	CCV	5.261	5.151	5.097	4.894	5.201	4.913
14	CCB	.0103	-.0059	-.0002	-.0052	.0295	.0019
15	S95T001492_L	27440.	321.3	1434.	2.495	76.92	1036.
16	S95T001492_	27410.	334.1	1384.	3.074	25.14	1025.
17	S95T001492_D	27240.	332.7	1391.	-5.596	28.40	1030.
18	S95T001493_L	16630.	458.4	1599.	-9.686	215.6	1204.
19	S95T001493_	16520.	496.0	1553.	.5970	56.02	1168.
20	S95T001493_D	16130.	522.7	1534.	2.997	51.16	1169.
21	S95T001493_S	27490.	1562.	2295.	495.7	562.7	2382.
22	ICSA	.0112	.0072	.0380	-.0085	-.0498	.0053
23	ICSAB	.0304	.9771	.0102	-.0006	-.0466	.0082
24	CCV_1	5.406	5.123	5.123	4.862	5.153	4.887
25	CCB_1	.0149	-.0121	-.0007	-.0094	.0193	-.0002

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.023	4.913	-.0610	4.912	4.939	10.01
2	ICB	-.0083	-.0001	.0000	-.0011	.0157	-.0211
3	ICSA	-.0150	-.0046	-.0166	.0010	.0032	.0131
4	ICSAB	-.0205	-.0047	-.0151	.0006	.0265	.0020
5	PREPSTDTJA	4.991	4.914	-.0624	4.978	4.836	10.06
6	PREPBLKTJA	-.0161	-.0001	.0031	-.0009	-.0135	-.0283
7	S95T001490_L	-16.01	9999.	-106.0	24.76	32.06	21040.
8	S95T001490_	-1.336	9798.	-113.3	26.56	-8.669	20530.
9	S95T001490_D	-2.064	9794.	-125.1	26.62	-18.75	20540.
10	S95T001491_L	-24.33	23920.	-329.3	51.21	83.40	54440.
11	S95T001491_	1.843	24200.	-311.9	52.05	-5.041	53710.
12	S95T001491_D	4.132	23920.	-302.6	51.50	-37.58	52950.
13	CCV	5.116	5.036	-.0598	5.030	5.049	10.19
14	CCB	-.0083	-.0001	-.0007	-.0013	-.0081	-.0228
15	S95T001492_L	-6.001	5578.	-236.2	27.53	-2.772	35670.
16	S95T001492_	3.455	5511.	-201.7	32.28	-.7837	35160.

WHC-CD-WM-DP-145, REV. 1

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
17	S95T001492_D	10.19	5507.	-185.8	32.45	-18.65	35090.
18	S95T001493_L	23.69	1039.	-222.7	35.83	-32.55	39360.
19	S95T001493_	8.680	1027.	-211.7	38.25	-19.00	38920.
20	S95T001493_D	6.281	1030.	-217.3	38.32	-4.845	39050.
21	S95T001493_S	518.1	1929.	-379.0	578.5	481.5	66100.
22	ICSA	-.0212	-.0041	-.0099	.0002	.0430	-.0301
23	ICSAB	-.0156	-.0041	-.0055	.0004	.0321	-.0132
24	CCV_1	5.139	5.056	-.0630	5.020	4.987	10.24
25	CCB_1	-.0127	-.0001	.0059	-.0011	-.0059	-.0482

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.070	.0129	5.065	5.013
2	ICB	-.0014	-.0003	.0003	-.0011
3	ICSA	-.0037	.0186	-.0086	-.0024
4	ICSAB	.4710	.0183	.9720	-.0032
5	PREPSTDTJA	4.962	.0112	4.904	5.061
6	PREPBLKTJA	-.0021	-.0008	-.0157	-.0019
7	S95T001490_L	1.690	14.96	143.6	13.88
8	S95T001490_	2.843	14.96	111.5	17.44
9	S95T001490_D	2.164	14.92	113.4	18.17
10	S95T001491_L	3.766	32.22	178.1	24.75
11	S95T001491_	8.237	32.98	146.0	26.26
12	S95T001491_D	8.934	32.71	145.6	26.29
13	CCV	5.191	.0130	5.154	5.122
14	CCB	-.0008	-.0003	.0008	-.0011
15	S95T001492_L	-.7562	24.12	102.0	9.023
16	S95T001492_	5.575	24.13	82.13	7.563
17	S95T001492_D	6.343	24.55	80.67	6.317
18	S95T001493_L	8.543	30.81	174.0	10.88
19	S95T001493_	7.399	29.53	171.3	8.252
20	S95T001493_D	6.606	29.50	149.5	8.637
21	S95T001493_S	518.4	49.06	790.8	208.4
22	ICSA	-.0040	.0185	-.0072	-.0030
23	ICSAB	.4741	.0187	.9740	-.0035
24	CCV_1	5.167	.0126	5.114	5.107
25	CCB_1	-.0027	-.0007	.0010	-.0018

WHC-SD-WM-DP-145, REV. 1

FILE # 09510271E

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WHC-SD-WM-DP-146, REV. 1 Page:

LABCORE Data Entry Template for Worklist# 2876

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 10-22-95 **Book#** 48B48B

Method: LA-505-~~151~~/161 Rev/Mod B-D
10-22-95

Worklist Comment: ICP BY-108 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T002161	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)
	Analytes Requested:				AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01			
8	DUP	S95T002161	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T002161	0	A	@ICP-A01	SOLID		
10	ICSA				@ICP-QC	QC		
11	ICSAB				@ICP-QC	QC		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2876

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 2876

Reviewed by:

Analyst Signature: [signature] Date: 10-27-95

Analyst Signature: [signature] Date: 10/30/95

		D.F.
PREPSTD TSA	5mL ER (WITCIAL) in 100mL, DIRECT	1
PREPBLK TSA	100mL, DIRECT	1
SSSTCO 2161_C	1.0023g in 100mL - 1mL - 5mL - 2mL - 5mL	4988
SSSTCO 2161	1.0023g in 100mL - 1mL - 5mL	998
SSSTCO 2161_D	1.0184g in 100mL - 1mL - 5mL	982
SSS-TCO 2161_S	1.0322g in 100mL - 1mL - 5mL	970

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951027E	ICP2	10/27/95	14:00	BJG	Q	CONC
2	ICB	951027E	ICP2	10/27/95	14:03	BJG	Q	CONC
3	ICSA	951027E	ICP2	10/27/95	14:06	BJG	Q	CONC
4	ICSAB	951027E	ICP2	10/27/95	14:09	BJG	Q	CONC
5	PREPSTDTJA	951027E	ICP2	10/27/95	14:12	BJG	S	CONC
6	PREPBLKTJA	951027E	ICP2	10/27/95	14:15	BJG	S	CONC
7	S95T002161_L	951027E	ICP2	10/27/95	14:19	BJG	S	CONC
8	S95T002161_	951027E	ICP2	10/27/95	14:22	BJG	S	CONC
9	S95T002161_D	951027E	ICP2	10/27/95	14:25	BJG	S	CONC
10	S95T002161_S	951027E	ICP2	10/27/95	14:28	BJG	S	CONC
11	ICSA	951027E	ICP2	10/27/95	14:31	BJG	Q	CONC
12	ICSAB	951027E	ICP2	10/27/95	14:34	BJG	Q	CONC
13	CCV	951027E	ICP2	10/27/95	14:38	BJG	Q	CONC
14	CCB	951027E	ICP2	10/27/95	14:40	BJG	Q	CONC

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10-27-95
By-108
ACID DIGEST
S95T002161
1nL-9-L

WHC-CD-WM-DP-145, REV. 1

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 585 TO 588.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.987	4.840	5.123	4.972	4.958	5.101
2	ICB	-.0004	.0021	-.0028	.0063	-.0000	-.0000
3	ICSA	-.0123	236.0	-.0379	.0065	.0030	-.0001
4	ICSAB	.9294	236.0	-.0640	-.0041	.4607	.4651
5	PREPSTDTJA	.8805	4.989	4.518	6.022	4.606	4.855
6	PREPBLKTJA	.0008	.0234	-.0026	.0234	.0002	-.0001
7	S95T002161_L	-5.795	23860.	-33.27	48.36	2.633	.0548
8	S95T002161	-.5499	23120.	-1.856	41.69	3.130	.2183
9	S95T002161_D	-.9029	14580.	8.274	56.71	3.346	.1797
10	S95T002161_S	91.77	15190.	475.2	634.0	447.2	471.8
11	ICSA	-.0137	239.8	-.0301	.0053	.0030	.0000
12	ICSAB	.9438	239.0	-.0285	-.0056	.4671	.4757
13	CCV	5.045	4.891	5.183	5.046	5.009	5.201
14	CCB	.0001	.0043	-.0069	.0042	.0000	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.034	5.170	5.022	5.124	5.022	5.075
2	ICB	-.0068	-.0020	-.0006	-.0023	-.0013	.0002
3	ICSA	-.0284	241.7	.0012	.0104	-.0002	-.0036
4	ICSAB	-.0106	244.6	.9170	.0131	.4546	.4584
5	PREPSTDTJA	4.418	5.826	4.366	4.782	4.507	4.534
6	PREPBLKTJA	-.0176	.1221	.0010	.0078	.0019	.0019
7	S95T002161_L	-105.7	326.1	3.766	-14.14	-3.356	99.84
8	S95T002161	2.873	292.4	2.526	-2.191	1.928	93.10
9	S95T002161_D	-4.546	249.5	2.284	-2.677	.8251	92.76
10	S95T002161_S	464.9	815.7	459.8	464.3	471.0	557.3
11	ICSA	-.0390	251.0	.0003	.0127	-.0009	-.0034
12	ICSAB	-.0268	251.3	.9415	.0034	.4632	.4680
13	CCV	5.135	5.281	5.089	5.187	5.084	5.140
14	CCB	.0095	-.0006	.0002	.0014	.0002	.0012

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.075	.0075	5.047	5.126	5.047	5.033
2	ICB	.0006	-.0003	.0006	-.0173	-.0007	-.0002
3	ICSA	-.0085	.0012	89.98	.2434	-.0035	.0018
4	ICSAB	.4721	.0001	90.62	.1277	-.0034	.9842
5	PREPSTDTJA	4.551	.0063	4.519	4.662	4.733	4.734
6	PREPBLKTJA	.0020	-.0026	.0255	.1955	-.0004	-.0025
7	S95T002161_L	7.717	-1.608	1033.	833.2	-5.386	25.24
8	S95T002161	6.145	-.3872	1005.	389.0	-.5637	26.51
9	S95T002161_D	5.077	-.3405	1209.	281.8	-.6332	25.23
10	S95T002161_S	458.9	.8321	1540.	840.5	463.7	485.1
11	ICSA	-.0091	-.0101	92.35	.1430	-.0043	.0020
12	ICSAB	.4786	-.0078	92.51	.0589	-.0044	.9895
13	CCV	5.158	.0078	5.105	5.409	5.102	5.123
14	CCB	.0006	-.0006	.0006	.1171	-.0002	-.0007

WHC-CD-WM-DP-145, REV. 1

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.898	4.920	5.027	5.000	5.086	4.991
2	ICB	.0057	.0001	.0011	-.0018	-.0014	-.0065
3	ICSA	242.8	-.0077	-.0164	195.5	.0083	-.0198
4	ICSAB	242.9	.4332	-.0118	195.1	.0095	.8770
5	PREPSTDTJA	4.630	4.407	4.643	8.232	4.641	4.466
6	PREPBLKTJA	.0176	-.0001	-.0014	.0815	.0011	.0003
7	S95T002161_L	63.16	14.11	-7.489	226800.	-14.99	137.4
8	S95T002161	83.03	13.90	-.2877	218700.	-1.285	130.4
9	S95T002161_D	86.82	14.62	-1.157	222800.	-1.455	118.0
10	S95T002161_S	554.3	455.7	464.2	219600.	453.2	578.9
11	ICSA	247.3	-.0077	-.0145	196.2	.0069	-.0176
12	ICSAB	246.2	.4412	-.0118	196.0	.0077	.9015
13	CCV	4.959	4.967	5.096	5.053	5.146	5.033
14	CCB	.0145	-.0001	-.0023	-.0053	.0011	-.0024

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.943	5.051	4.876	4.794	4.872	4.903
2	ICB	.0135	.0120	.0123	.0045	.0064	.0036
3	ICSA	.0034	.0515	.0460	-.0033	-.0412	.0130
4	ICSAB	.0231	1.005	.0575	-.0024	-.0410	.0106
5	PREPSTDTJA	4.713	4.328	4.328	4.252	4.360	1.269
6	PREPBLKTJA	.0335	.0072	.0398	.0014	-.0119	.0672
7	S95T002161_L	34210.	47.25	1336.	-2.323	5.409	233.0
8	S95T002161	33020.	57.11	1190.	4.603	-13.61	200.4
9	S95T002161_D	32450.	63.63	949.3	2.731	-10.19	378.8
10	S95T002161_S	36920.	542.3	1646.	446.7	446.0	2519.
11	ICSA	.0212	.0451	.0335	.0056	-.0460	.0160
12	ICSAB	.0218	1.025	.0487	.0091	-.0297	.0138
13	CCV	5.094	5.142	4.982	4.850	4.940	4.962
14	CCB	-.0122	.0143	-.0046	.0005	-.0116	.0021

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.913	4.933	.0362	4.861	4.828	9.489
2	ICB	.0010	.0001	-.0002	.0000	.0021	-.0075
3	ICSA	-.0101	-.0033	-.0134	.0017	.0461	.0799
4	ICSAB	-.0118	-.0041	-.0020	.0013	.0525	.0645
5	PREPSTDTJA	4.633	4.628	.0326	4.592	4.307	9.075
6	PREPBLKTJA	-.0252	-.0003	.0102	.0007	.0052	-.1029
7	S95T002161_L	-3.495	33.67	5.811	8.842	32.52	103.1
8	S95T002161	-3.067	32.90	7.307	10.82	17.75	113.9
9	S95T002161_D	1.292	36.42	.3250	11.39	16.44	135.9
10	S95T002161_S	448.3	486.0	8.555	443.8	455.5	1011.
11	ICSA	-.0088	-.0034	-.0112	.0015	.0109	.0446
12	ICSAB	-.0127	-.0042	-.0157	.0011	.0233	.0271
13	CCV	4.985	4.994	.0457	4.930	4.936	9.600
14	CCB	-.0006	-.0000	.0046	.0004	.0093	-.0140

IO-SD-WM-DP-145, REV. 1

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#	Sample Name	V	Y	Zn	Zr
1	ICV	4.945	.0094	5.013	4.936
2	ICB	-.0003	-.0003	.0034	-.0003
3	ICSA	-.0028	.0173	.0026	-.0023
4	ICSAB	.4502	.0186	.9438	-.0042
5	PREPSTDTJA	4.477	.0061	4.278	4.628
6	PREPBLKTJA	-.0053	-.0019	.0156	-.0037
7	S95T002161_L	70.49	-1.217	68.67	-.5601
8	S95T002161	69.40	-.1266	37.93	-.1600
9	S95T002161_D	67.92	.0192	44.46	.3565
10	S95T002161_S	526.5	.9855	504.1	203.7
11	ICSA	-.0020	.0179	.0011	-.0019
12	ICSAB	.4602	.0190	.9641	-.0024
13	CCV	5.018	.0094	5.073	4.993
14	CCB	-.0009	-.0004	.0017	-.0023

WHC-SD-WM-DP-145, REV. 1

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SP
10/30/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	2876	1			ICV	AG				4.9870		1.0000	10/27/95	14:00		0.01	@ICP-QC
2	2876	1			ICV	AL				4.8366		1.0000	10/27/95	14:00		0.05	@ICP-QC
3	2876	1			ICV	AS				5.1233		1.0000	10/27/95	14:00		0.05	@ICP-QC
4	2876	1			ICV	B				4.9717		1.0000	10/27/95	14:00		0.05	@ICP-QC
5	2876	1			ICV	BA				4.9578		1.0000	10/27/95	14:00		0.05	@ICP-QC
6	2876	1			ICV	BE				5.1008		1.0000	10/27/95	14:00		0.005	@ICP-QC
7	2876	1			ICV	BI				5.0341		1.0000	10/27/95	14:00		0.1	@ICP-QC
8	2876	1			ICV	CA				5.1700		1.0000	10/27/95	14:00		0.1	@ICP-QC
9	2876	1			ICV	CD				5.0224		1.0000	10/27/95	14:00		0.01	@ICP-QC
10	2876	1			ICV	CE				5.1243		1.0000	10/27/95	14:00		0.1	@ICP-QC
11	2876	1			ICV	CO				5.0221		1.0000	10/27/95	14:00		0.02	@ICP-QC
12	2876	1			ICV	CR				5.0747		1.0000	10/27/95	14:00		0.01	@ICP-QC
13	2876	1			ICV	CU				5.0754		1.0000	10/27/95	14:00		0.01	@ICP-QC
14	2876	1			ICV	EU				0.0075		1.0000	10/27/95	14:00		0.05	@ICP-QC
15	2876	1			ICV	FE				5.0474		1.0000	10/27/95	14:00		0.05	@ICP-QC
16	2876	1			ICV	K				5.1280		1.0000	10/27/95	14:00		0.3	@ICP-QC
17	2876	1			ICV	LA				5.0468		1.0000	10/27/95	14:00		0.05	@ICP-QC
18	2876	1			ICV	LI				5.0329		1.0000	10/27/95	14:00		0.01	@ICP-QC
19	2876	1			ICV	MG				4.9665		1.0000	10/27/95	14:00		0.1	@ICP-QC
20	2876	1			ICV	MN				4.9201		1.0000	10/27/95	14:00		0.01	@ICP-QC
21	2876	1			ICV	MO				5.0271		1.0000	10/27/95	14:00		0.05	@ICP-QC
22	2876	1			ICV	NA				5.0002		1.0000	10/27/95	14:00		0.1	@ICP-QC
23	2876	1			ICV	ND				5.0865		1.0000	10/27/95	14:00		0.1	@ICP-QC
24	2876	1			ICV	NI				4.9908		1.0000	10/27/95	14:00		0.02	@ICP-QC
25	2876	1			ICV	P				4.9428		1.0000	10/27/95	14:00		0.2	@ICP-QC
26	2876	1			ICV	PB				5.0509		1.0000	10/27/95	14:00		0.1	@ICP-QC
27	2876	1			ICV	S				4.8757		1.0000	10/27/95	14:00		0.05	@ICP-QC
28	2876	1			ICV	SB				4.7935		1.0000	10/27/95	14:00		0.2	@ICP-QC
29	2876	1			ICV	SE				4.8718		1.0000	10/27/95	14:00		0.1	@ICP-QC
30	2876	1			ICV	SI				4.9031		1.0000	10/27/95	14:00		0.05	@ICP-QC
31	2876	1			ICV	SM				4.9127		1.0000	10/27/95	14:00		0.1	@ICP-QC
32	2876	1			ICV	SR				4.9330		1.0000	10/27/95	14:00		0.01	@ICP-QC
33	2876	1			ICV	TH				0.0362		1.0000	10/27/95	14:00		0	@ICP-QC
34	2876	1			ICV	TI				4.9613		1.0000	10/27/95	14:00		0.01	@ICP-QC
35	2876	1			ICV	TL				4.8277		1.0000	10/27/95	14:00		0.2	@ICP-QC
36	2876	1			ICV	U				9.4888		1.0000	10/27/95	14:00		0.4	@ICP-QC
37	2876	1			ICV	V				4.9448		1.0000	10/27/95	14:00		0.05	@ICP-QC
38	2876	1			ICV	Y				0.0084		1.0000	10/27/95	14:00		0.01	@ICP-QC
39	2876	1			ICV	ZN				5.0128		1.0000	10/27/95	14:00		0.01	@ICP-QC
40	2876	1			ICV	ZR				4.9359		1.0000	10/27/95	14:00		0.01	@ICP-QC
41	2876	2			ICB	AG				-0.0004		1.0000	10/27/95	14:03		0.01	@ICP-QC
42	2876	2			ICB	AL				0.0021		1.0000	10/27/95	14:03		0.05	@ICP-QC
43	2876	2			ICB	AS				-0.0028		1.0000	10/27/95	14:03		0.05	@ICP-QC
44	2876	2			ICB	B				0.0083		1.0000	10/27/95	14:03		0.05	@ICP-QC
45	2876	2			ICB	BA				-0.0000		1.0000	10/27/95	14:03		0.05	@ICP-QC
46	2876	2			ICB	BE				-0.0000		1.0000	10/27/95	14:03		0.005	@ICP-QC
47	2876	2			ICB	BI				-0.0068		1.0000	10/27/95	14:03		0.1	@ICP-QC
48	2876	2			ICB	CA				-0.0020		1.0000	10/27/95	14:03		0.1	@ICP-QC
49	2876	2			ICB	CD				-0.0006		1.0000	10/27/95	14:03		0.01	@ICP-QC
50	2876	2			ICB	CE				-0.0023		1.0000	10/27/95	14:03		0.1	@ICP-QC
51	2876	2			ICB	CO				-0.0013		1.0000	10/27/95	14:03		0.02	@ICP-QC
52	2876	2			ICB	CR				0.0002		1.0000	10/27/95	14:03		0.01	@ICP-QC
53	2876	2			ICB	CU				0.0006		1.0000	10/27/95	14:03		0.01	@ICP-QC
54	2876	2			ICB	EU				-0.0003		1.0000	10/27/95	14:03		0.05	@ICP-QC
55	2876	2			ICB	FE				0.0006		1.0000	10/27/95	14:03		0.05	@ICP-QC
56	2876	2			ICB	K				-0.0173		1.0000	10/27/95	14:03		0.3	@ICP-QC
57	2876	2			ICB	LA				-0.0007		1.0000	10/27/95	14:03		0.05	@ICP-QC
58	2876	2			ICB	LI				-0.0002		1.0000	10/27/95	14:03		0.01	@ICP-QC
59	2876	2			ICB	MG				0.0057		1.0000	10/27/95	14:03		0.1	@ICP-QC
60	2876	2			ICB	MN				0.0001		1.0000	10/27/95	14:03		0.01	@ICP-QC
61	2876	2			ICB	MO				0.0011		1.0000	10/27/95	14:03		0.05	@ICP-QC
62	2876	2			ICB	NA				-0.0018		1.0000	10/27/95	14:03		0.1	@ICP-QC
63	2876	2			ICB	ND				-0.0014		1.0000	10/27/95	14:03		0.1	@ICP-QC
64	2876	2			ICB	NI				-0.0065		1.0000	10/27/95	14:03		0.02	@ICP-QC
65	2876	2			ICB	P				0.0135		1.0000	10/27/95	14:03		0.2	@ICP-QC
66	2876	2			ICB	PB				0.0120		1.0000	10/27/95	14:03		0.1	@ICP-QC
67	2876	2			ICB	S				0.0123		1.0000	10/27/95	14:03		0.05	@ICP-QC
68	2876	2			ICB	SB				0.0045		1.0000	10/27/95	14:03		0.2	@ICP-QC
69	2876	2			ICB	SE				0.0064		1.0000	10/27/95	14:03		0.1	@ICP-QC
70	2876	2			ICB	SI				0.0036		1.0000	10/27/95	14:03		0.05	@ICP-QC
71	2876	2			ICB	SM				0.0010		1.0000	10/27/95	14:03		0.1	@ICP-QC
72	2876	2			ICB	SR				0.0001		1.0000	10/27/95	14:03		0.01	@ICP-QC
73	2876	2			ICB	TH				-0.0002		1.0000	10/27/95	14:03		0	@ICP-QC
74	2876	2			ICB	TI				0.0000		1.0000	10/27/95	14:03		0.01	@ICP-QC
75	2876	2			ICB	TL				0.0021		1.0000	10/27/95	14:03		0.2	@ICP-QC
76	2876	2			ICB	U				-0.0075		1.0000	10/27/95	14:03		0.4	@ICP-QC
77	2876	2			ICB	V				-0.0003		1.0000	10/27/95	14:03		0.05	@ICP-QC
78	2876	2			ICB	Y				-0.0003		1.0000	10/27/95	14:03		0.01	@ICP-QC
79	2876	2			ICB	ZN				0.0034		1.0000	10/27/95	14:03		0.01	@ICP-QC
80	2876	2			ICB	ZR				-0.0003		1.0000	10/27/95	14:03		0.01	@ICP-QC
81	2876	3			ICSA	AG				-0.0123		1.0000	10/27/95	14:06		0.01	@ICP-QC
82	2876	3			ICSA	AL				236.0356		1.0000	10/27/95	14:06		0.05	@ICP-QC
83	2876	3			ICSA	AS				-0.0379		1.0000	10/27/95	14:06		0.05	@ICP-QC
84	2876	3			ICSA	B				0.0085		1.0000	10/27/95	14:06		0.05	@ICP-QC
85	2876	3			ICSA	BA				0.0030		1.0000	10/27/95	14:06		0.05	@ICP-QC
86	2876	3			ICSA	BE				-0.0001		1.0000	10/27/95	14:06		0.005	@ICP-QC
87	2876	3			ICSA	BI				-0.0284		1.0000	10/27/95	14:06		0.1	@ICP-QC
88	2876	3			ICSA	CA				241.7389		1.0000	10/27/95	14:06		0.1	@ICP-QC
89	2876	3			ICSA	CD				0.0012		1.0000	10/27/95	14:06		0.01	@ICP-QC
90	2876	3			ICSA	CE				0.0104		1.0000	10/27/95	14:06		0.1	@ICP-QC
91	2876	3			ICSA	CO				-0.0002		1.0000	10/27/95	14:06		0.02	@ICP-QC
92	2876	3			ICSA	CR				-0.0036		1.0000	10/27/95	14:06		0.01	@ICP-QC
93	2876	3			ICSA	CU				-0.0085		1.0000	10/27/95	14:06		0.01	@ICP-QC
94	2876	3			ICSA	EU				0.0012		1.0000	10/27/95	14:06		0.05	@ICP-QC
95	2876	3			ICSA	FE				99.9775		1.0000	10/27/95	14:06		0.05	@ICP-QC
96	2876	3			ICSA	K				0.2434		1.0000	10/27/95	14:06		0.3	@ICP-QC
97	2876	3			ICSA	LA				-0.0035		1.0000	10/27/95	14:06		0.05	@ICP-QC
98	2876	3			ICSA	LI				0.0018		1.0000	10/27/95	14:06		0.01	@ICP-QC
99	2876	3			ICSA	MG				242.8238		1.0000	10/27/95	14:06		0.1	@ICP-QC
100	2876	3			ICSA	MN				-0.0077		1.0000	10/27/95	14:06		0.01	@ICP-QC
101	2876	3			ICSA	MO				-0.0184		1.0000	10/27/95	14:06		0.05	@ICP-QC
102	2876	3			ICSA	NA				195.4803		1.0000	10/27/95	14:06		0.1	@ICP-QC
103	2876	3			ICSA	ND				0.0083		1.0000	10/27/95	14:06		0.1	@ICP-QC
104	2876	3			ICSA	NI				-0.0196		1.0000	10/27/95	14:06		0.02	@ICP-QC
105	2876	3			ICSA	P				0.0034		1.0000	10/27/95	14:06		0.2	@ICP-QC
106	2876	3			ICSA	PB				0.0515		1.0000	10/27/95	14:06		0.1	@ICP-QC
107	2876	3			ICSA	S				0.0480		1.0000	10/27/95	14:06		0.05	@ICP-QC
108	2876	3			ICSA	SB				-0.0033		1.0000	10/27/95	14:06		0.2	@ICP-QC
109	2876	3			ICSA	SE				-0.0412		1.0000	10/27/95	14:06		0.1	@ICP-QC
110	2876	3			ICSA	SI				0.0130		1.0000	10/27/95	14:06		0.05	@ICP-QC
111	2876	3			ICSA	SM				-0.0101		1.0000	10/27/95	14:06		0.1	@ICP-QC
112	2876	3			ICSA	SR				-0.0033		1.0000	10/27/95	14:06		0.01	@ICP-QC
113	2876	3			ICSA	TH				-0.0134		1.0000	10/27/95	14:06		0	@ICP-QC
114	2876	3			ICSA	TI				0.0017		1.0000	10/27/95	14:06		0.01	@ICP-QC
115	2876	3			ICSA	TL				0.0461		1.0000	10/27/95	14:06		0.2	@ICP-QC
116	2876	3			ICSA	U				0.0799		1.0000	10/27/95	14:06		0.4	@ICP-QC
117	2876	3			ICSA	V				-0.0028		1.0000	10/27/95	14:06		0.05	@ICP-QC
118	2876	3			ICSA	Y				0.0173		1.0000	10/27/95	14:06		0.01	@ICP-QC
119	2876	3			ICSA	ZN				0.0026		1.0000	10/27/95	14:06		0.01	@ICP-QC
120	2876	3			ICSA	ZR				-0.0023		1.0000	10/27/95	14:06		0.01	@ICP-QC
121	2876	4			ICSAB	AG				0.8294		1.0000	10/27/95	14:09		0.01	@ICP-QC
122	2876	4			ICSAB	AL				236.0231		1.0000	10/27/95	14:09		0.05	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	2876	4			ICSAB	AS				-0.0840		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
124	2876	4			ICSAB	B				-0.0041		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
125	2876	4			ICSAB	BA				0.4807		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
126	2876	4			ICSAB	BE				0.4851		1.0000	10/27/95	14:09	blg	0.005	@ICP-QC
127	2876	4			ICSAB	BI				-0.0108		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
128	2876	4			ICSAB	CA				244.9132		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
129	2876	4			ICSAB	CD				0.9170		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
130	2876	4			ICSAB	CE				0.0131		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
131	2876	4			ICSAB	CO				0.4546		1.0000	10/27/95	14:09	blg	0.02	@ICP-QC
132	2876	4			ICSAB	CR				0.4584		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
133	2876	4			ICSAB	CU				0.4721		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
134	2876	4			ICSAB	EU				0.0001		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
135	2876	4			ICSAB	FE				90.8203		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
136	2876	4			ICSAB	K				0.1277		1.0000	10/27/95	14:09	blg	0.3	@ICP-QC
137	2876	4			ICSAB	LA				-0.0034		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
138	2876	4			ICSAB	LI				0.0842		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
139	2876	4			ICSAB	MG				242.8523		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
140	2876	4			ICSAB	MN				0.4332		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
141	2876	4			ICSAB	MO				-0.0118		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
142	2876	4			ICSAB	NA				195.0515		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
143	2876	4			ICSAB	ND				0.0085		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
144	2876	4			ICSAB	NI				0.8770		1.0000	10/27/95	14:09	blg	0.02	@ICP-QC
145	2876	4			ICSAB	P				0.0231		1.0000	10/27/95	14:09	blg	0.2	@ICP-QC
146	2876	4			ICSAB	PB				1.0063		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
147	2876	4			ICSAB	S				0.0575		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
148	2876	4			ICSAB	SB				-0.0024		1.0000	10/27/95	14:09	blg	0.2	@ICP-QC
149	2876	4			ICSAB	SE				-0.0410		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
150	2876	4			ICSAB	SI				0.0108		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
151	2876	4			ICSAB	SM				-0.0118		1.0000	10/27/95	14:09	blg	0.1	@ICP-QC
152	2876	4			ICSAB	SR				-0.0041		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
153	2876	4			ICSAB	TH				-0.0020		1.0000	10/27/95	14:09	blg	0	@ICP-QC
154	2876	4			ICSAB	TI				0.0013		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
155	2876	4			ICSAB	TL				0.0525		1.0000	10/27/95	14:09	blg	0.2	@ICP-QC
156	2876	4			ICSAB	U				0.0845		1.0000	10/27/95	14:09	blg	0.4	@ICP-QC
157	2876	4			ICSAB	V				0.4502		1.0000	10/27/95	14:09	blg	0.05	@ICP-QC
158	2876	4			ICSAB	Y				0.0186		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
159	2876	4			ICSAB	ZN				0.9438		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
160	2876	4			ICSAB	ZR				-0.0042		1.0000	10/27/95	14:09	blg	0.01	@ICP-QC
161	2876	5			PREPSTDTJA	AG-A-01				0.8805		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
162	2876	5			PREPSTDTJA	AL-A-01				4.9887		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
163	2876	5			PREPSTDTJA	AS-A-01				4.5182		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
164	2876	5			PREPSTDTJA	B-A-01				6.0220		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
165	2876	5			PREPSTDTJA	BA-A-01				4.8060		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
166	2876	5			PREPSTDTJA	BE-A-01				4.8553		1.0000	10/27/95	14:12	blg	0.005	@ICP-A01
167	2876	5			PREPSTDTJA	BI-A-01				4.4178		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
168	2876	5			PREPSTDTJA	CA-A-01				5.8261		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
169	2876	5			PREPSTDTJA	CD-A-01				4.3883		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
170	2876	5			PREPSTDTJA	CE-A-01				4.7822		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
171	2876	5			PREPSTDTJA	CO-A-01				4.5070		1.0000	10/27/95	14:12	blg	0.02	@ICP-A01
172	2876	5			PREPSTDTJA	CR-A-01				4.5336		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
173	2876	5			PREPSTDTJA	CU-A-01				4.5505		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
174	2876	5			PREPSTDTJA	EU-A-01				0.0063		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
175	2876	5			PREPSTDTJA	FE-A-01				4.5188		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
176	2876	5			PREPSTDTJA	K-A-01				4.8622		1.0000	10/27/95	14:12	blg	0.3	@ICP-A01
177	2876	5			PREPSTDTJA	LA-A-01				4.7332		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
178	2876	5			PREPSTDTJA	LI-A-01				4.7339		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
179	2876	5			PREPSTDTJA	MG-A-01				4.8296		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
180	2876	5			PREPSTDTJA	MN-A-01				4.4071		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
181	2876	5			PREPSTDTJA	MO-A-01				4.6431		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
182	2876	5			PREPSTDTJA	NA-A-01				8.2316		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
183	2876	5			PREPSTDTJA	ND-A-01				4.6409		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
184	2876	5			PREPSTDTJA	NI-A-01				4.4664		1.0000	10/27/95	14:12	blg	0.02	@ICP-A01
185	2876	5			PREPSTDTJA	P-A-01				4.7132		1.0000	10/27/95	14:12	blg	0.2	@ICP-A01
186	2876	5			PREPSTDTJA	PB-A-01				4.3281		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
187	2876	5			PREPSTDTJA	S-A-01				4.3278		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
188	2876	5			PREPSTDTJA	SB-A-01				4.2525		1.0000	10/27/95	14:12	blg	0.2	@ICP-A01
189	2876	5			PREPSTDTJA	SE-A-01				4.3803		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
190	2876	5			PREPSTDTJA	SI-A-01				1.2888		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
191	2876	5			PREPSTDTJA	SM-A-01				4.6328		1.0000	10/27/95	14:12	blg	0.1	@ICP-A01
192	2876	5			PREPSTDTJA	SR-A-01				4.6280		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
193	2876	5			PREPSTDTJA	TH-A-01				0.0326		1.0000	10/27/95	14:12	blg	0	@ICP-A01
194	2876	5			PREPSTDTJA	TI-A-01				4.5820		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
195	2876	5			PREPSTDTJA	TL-A-01				4.3073		1.0000	10/27/95	14:12	blg	0.2	@ICP-A01
196	2876	5			PREPSTDTJA	U-A-01				9.0752		1.0000	10/27/95	14:12	blg	0.4	@ICP-A01
197	2876	5			PREPSTDTJA	V-A-01				4.4766		1.0000	10/27/95	14:12	blg	0.05	@ICP-A01
198	2876	5			PREPSTDTJA	Y-A-01				0.0061		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
199	2876	5			PREPSTDTJA	ZN-A-01				4.2781		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
200	2876	5			PREPSTDTJA	ZR-A-01				4.8283		1.0000	10/27/95	14:12	blg	0.01	@ICP-A01
201	2876	6			PREPBLKTJA	AG-A-01				0.0006		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
202	2876	6			PREPBLKTJA	AL-A-01				0.0234		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
203	2876	6			PREPBLKTJA	AS-A-01				-0.0026		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
204	2876	6			PREPBLKTJA	B-A-01				0.0234		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
205	2876	6			PREPBLKTJA	BA-A-01				0.0002		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
206	2876	6			PREPBLKTJA	BE-A-01				-0.0001		1.0000	10/27/95	14:15	blg	0.005	@ICP-A01
207	2876	6			PREPBLKTJA	BI-A-01				-0.0176		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
208	2876	6			PREPBLKTJA	CA-A-01				0.1221		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
209	2876	6			PREPBLKTJA	CD-A-01				0.0010		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
210	2876	6			PREPBLKTJA	CE-A-01				0.0078		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
211	2876	6			PREPBLKTJA	CO-A-01				0.0019		1.0000	10/27/95	14:15	blg	0.02	@ICP-A01
212	2876	6			PREPBLKTJA	CR-A-01				0.0019		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
213	2876	6			PREPBLKTJA	CU-A-01				0.0020		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
214	2876	6			PREPBLKTJA	EU-A-01				-0.0026		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
215	2876	6			PREPBLKTJA	FE-A-01				0.0255		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
216	2876	6			PREPBLKTJA	K-A-01				0.1955		1.0000	10/27/95	14:15	blg	0.3	@ICP-A01
217	2876	6			PREPBLKTJA	LA-A-01				-0.0004		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
218	2876	6			PREPBLKTJA	LI-A-01				-0.0025		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
219	2876	6			PREPBLKTJA	MG-A-01				0.0178		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
220	2876	6			PREPBLKTJA	MN-A-01				-0.0002		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
221	2876	6			PREPBLKTJA	MO-A-01				-0.0014		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
222	2876	6			PREPBLKTJA	NA-A-01				0.0815		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
223	2876	6			PREPBLKTJA	ND-A-01				0.0011		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
224	2876	6			PREPBLKTJA	NI-A-01				0.0003		1.0000	10/27/95	14:15	blg	0.02	@ICP-A01
225	2876	6			PREPBLKTJA	P-A-01				0.0335		1.0000	10/27/95	14:15	blg	0.2	@ICP-A01
226	2876	6			PREPBLKTJA	PB-A-01				0.0072		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
227	2876	6			PREPBLKTJA	S-A-01				0.0396		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
228	2876	6			PREPBLKTJA	SB-A-01				0.0014		1.0000	10/27/95	14:15	blg	0.2	@ICP-A01
229	2876	6			PREPBLKTJA	SE-A-01				-0.0119		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
230	2876	6			PREPBLKTJA	SI-A-01				0.0872		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
231	2876	6			PREPBLKTJA	SM-A-01				-0.0252		1.0000	10/27/95	14:15	blg	0.1	@ICP-A01
232	2876	6			PREPBLKTJA	SR-A-01				-0.0003		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
233	2876	6			PREPBLKTJA	TH-A-01				0.0102		1.0000	10/27/95	14:15	blg	0	@ICP-A01
234	2876	6			PREPBLKTJA	TI-A-01				0.0007		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
235	2876	6			PREPBLKTJA	TL-A-01				0.0052		1.0000	10/27/95	14:15	blg	0.2	@ICP-A01
236	2876	6			PREPBLKTJA	U-A-01				-0.1029		1.0000	10/27/95	14:15	blg	0.4	@ICP-A01
237	2876	6			PREPBLKTJA	V-A-01				-0.0053		1.0000	10/27/95	14:15	blg	0.05	@ICP-A01
238	2876	6			PREPBLKTJA	Y-A-01				-0.0019		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
239	2876	6			PREPBLKTJA	ZN-A-01				0.0156		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
240	2876	6			PREPBLKTJA	ZR-A-01				-0.0037		1.0000	10/27/95	14:15	blg	0.01	@ICP-A01
241	2876	7	S95T002161			AG-A-01			<	9.9800		998.0000	10/27/95	14:22	blg	0.01	@ICP-A01
242	2876	7	S95T002161			AL-A-01				23117.5273		998.0000	10/27/95	14:22	blg	0.05	@ICP-A01
243	2876	7	S95T002161			AS-A-01			<	49.9000		998.0000	10/27/95	14:22	blg	0.05	@ICP-A01
244	2876	7	S95T002161			B-A-01			<	49.9000		998.0000	10/27/95	14:22	blg	0.05	@ICP-A01

ICP-CO-WM-DP/45, REV.1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
345	2876	7	S95T002161			BA-A-01			<	49.9000		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
346	2876	7	S95T002161			BE-A-01			<	4.9900		998.0000	10/27/95	14:22	lab	0.006	@ICP-A01
347	2876	7	S95T002161			BI-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
348	2876	7	S95T002161			CA-A-01				292.4272		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
349	2876	7	S95T002161			CD-A-01			<	9.9800		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
350	2876	7	S95T002161			CE-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
351	2876	7	S95T002161			CO-A-01			<	19.9600		998.0000	10/27/95	14:22	lab	0.02	@ICP-A01
352	2876	7	S95T002161			CR-A-01				93.0969		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
353	2876	7	S95T002161			CU-A-01			<	9.9800		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
354	2876	7	S95T002161			FE-A-01				1004.6347		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
355	2876	7	S95T002161			K-A-01				388.9676		998.0000	10/27/95	14:22	lab	0.3	@ICP-A01
356	2876	7	S95T002161			LA-A-01			<	49.9000		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
357	2876	7	S95T002161			LI-A-01				28.5124		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
358	2876	7	S95T002161			MG-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
359	2876	7	S95T002161			MN-A-01				13.9007		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
360	2876	7	S95T002161			MO-A-01			<	49.9000		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
361	2876	7	S95T002161			NA-A-01				218674.5000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
362	2876	7	S95T002161			ND-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
363	2876	7	S95T002161			NI-A-01				130.4082		998.0000	10/27/95	14:22	lab	0.02	@ICP-A01
364	2876	7	S95T002161			P-A-01				33024.6445		998.0000	10/27/95	14:22	lab	0.2	@ICP-A01
365	2876	7	S95T002161			PB-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
366	2876	7	S95T002161			S-A-01				1190.0909		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
367	2876	7	S95T002161			SB-A-01			<	199.6000		998.0000	10/27/95	14:22	lab	0.2	@ICP-A01
368	2876	7	S95T002161			SE-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
369	2876	7	S95T002161			SI-A-01				200.3808		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
370	2876	7	S95T002161			SM-A-01			<	99.8000		998.0000	10/27/95	14:22	lab	0.1	@ICP-A01
371	2876	7	S95T002161			SR-A-01				32.9018		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
372	2876	7	S95T002161			TI-A-01				10.8204		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
373	2876	7	S95T002161			TL-A-01			<	199.8000		998.0000	10/27/95	14:22	lab	0.2	@ICP-A01
374	2876	7	S95T002161			U-A-01			<	399.2000		998.0000	10/27/95	14:22	lab	0.4	@ICP-A01
375	2876	7	S95T002161			V-A-01				69.4047		998.0000	10/27/95	14:22	lab	0.05	@ICP-A01
376	2876	7	S95T002161			ZN-A-01				37.9265		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
377	2876	7	S95T002161			ZR-A-01			<	9.9800		998.0000	10/27/95	14:22	lab	0.01	@ICP-A01
378	2876	8	S95T002161	DUP		AG-A-01		<9.9800		<9.8200		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
379	2876	8	S95T002161	DUP		AL-A-01		23117.5273		14577.5771		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
380	2876	8	S95T002161	DUP		AS-A-01		<49.9000		<49.1000		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
381	2876	8	S95T002161	DUP		B-A-01		<49.9000		56.7086		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
382	2876	8	S95T002161	DUP		BA-A-01		<49.9000		<49.1000		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
383	2876	8	S95T002161	DUP		BE-A-01		<4.9900		<4.9100		982.0000	10/27/95	14:25	lab	0.005	@ICP-A01
384	2876	8	S95T002161	DUP		BI-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
385	2876	8	S95T002161	DUP		CA-A-01		292.4272		249.5220		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
386	2876	8	S95T002161	DUP		CD-A-01		<9.9800		<9.8200		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
387	2876	8	S95T002161	DUP		CE-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
388	2876	8	S95T002161	DUP		CO-A-01		<19.9600		<19.6400		982.0000	10/27/95	14:25	lab	0.02	@ICP-A01
389	2876	8	S95T002161	DUP		CR-A-01		93.0969		92.7648		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
390	2876	8	S95T002161	DUP		CU-A-01		<9.9800		<9.8200		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
391	2876	8	S95T002161	DUP		FE-A-01		1004.6347		1209.0212		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
392	2876	8	S95T002161	DUP		K-A-01		388.9676		<294.6000		982.0000	10/27/95	14:25	lab	0.3	@ICP-A01
393	2876	8	S95T002161	DUP		LA-A-01		<49.9000		<49.1000		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
394	2876	8	S95T002161	DUP		LI-A-01		28.5124		25.2258		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
395	2876	8	S95T002161	DUP		MG-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
396	2876	8	S95T002161	DUP		MN-A-01		13.9007		14.6185		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
397	2876	8	S95T002161	DUP		MO-A-01		<49.9000		<49.1000		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
398	2876	8	S95T002161	DUP		NA-A-01		218674.5000		222845.3750		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
399	2876	8	S95T002161	DUP		ND-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
400	2876	8	S95T002161	DUP		NI-A-01		130.4082		118.0260		982.0000	10/27/95	14:25	lab	0.02	@ICP-A01
401	2876	8	S95T002161	DUP		P-A-01		33024.6445		32451.5977		982.0000	10/27/95	14:25	lab	0.2	@ICP-A01
402	2876	8	S95T002161	DUP		PB-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
403	2876	8	S95T002161	DUP		S-A-01		1190.0909		949.3092		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
404	2876	8	S95T002161	DUP		SB-A-01		<199.6000		<196.4000		982.0000	10/27/95	14:25	lab	0.2	@ICP-A01
405	2876	8	S95T002161	DUP		SE-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
406	2876	8	S95T002161	DUP		SI-A-01		200.3808		378.8168		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
407	2876	8	S95T002161	DUP		SM-A-01		<99.8000		<98.2000		982.0000	10/27/95	14:25	lab	0.1	@ICP-A01
408	2876	8	S95T002161	DUP		SR-A-01		32.9018		36.4228		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
409	2876	8	S95T002161	DUP		TI-A-01		10.8204		11.3893		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
410	2876	8	S95T002161	DUP		TL-A-01		<199.8000		<196.4000		982.0000	10/27/95	14:25	lab	0.2	@ICP-A01
411	2876	8	S95T002161	DUP		U-A-01		<399.2000		<392.8000		982.0000	10/27/95	14:25	lab	0.4	@ICP-A01
412	2876	8	S95T002161	DUP		V-A-01		69.4047		67.9158		982.0000	10/27/95	14:25	lab	0.05	@ICP-A01
413	2876	8	S95T002161	DUP		ZN-A-01		37.9265		44.4620		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
414	2876	8	S95T002161	DUP		ZR-A-01		<9.9800		<9.8200		982.0000	10/27/95	14:25	lab	0.01	@ICP-A01
415	2876	9	S95T002161_S		SPK-PREDIG	AG-A-01		95		91.7653		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
416	2876	9	S95T002161_S		SPK-PREDIG	AL-A-01		n/a		n/a		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
417	2876	9	S95T002161_S		SPK-PREDIG	AS-A-01		475		475.2079		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
418	2876	9	S95T002161_S		SPK-PREDIG	B-A-01		475		534.0425		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
419	2876	9	S95T002161_S		SPK-PREDIG	BA-A-01		475		447.2317		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
420	2876	9	S95T002161_S		SPK-PREDIG	BE-A-01		475		471.7765		950.0000	10/27/95	14:28	lab	0.005	@ICP-A01
421	2876	9	S95T002161_S		SPK-PREDIG	BI-A-01		475		464.9223		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
422	2876	9	S95T002161_S		SPK-PREDIG	CA-A-01		475		523.2411		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
423	2876	9	S95T002161_S		SPK-PREDIG	CD-A-01		475		459.8135		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
424	2876	9	S95T002161_S		SPK-PREDIG	CE-A-01		475		464.3141		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
425	2876	9	S95T002161_S		SPK-PREDIG	CO-A-01		475		471.0281		950.0000	10/27/95	14:28	lab	0.02	@ICP-A01
426	2876	9	S95T002161_S		SPK-PREDIG	CR-A-01		475		464.2442		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
427	2876	9	S95T002161_S		SPK-PREDIG	CU-A-01		475		458.9155		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
428	2876	9	S95T002161_S		SPK-PREDIG	FE-A-01		475		535.1402		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
429	2876	9	S95T002161_S		SPK-PREDIG	K-A-01		475		451.5274		950.0000	10/27/95	14:28	lab	0.3	@ICP-A01
430	2876	9	S95T002161_S		SPK-PREDIG	LA-A-01		475		463.8691		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
431	2876	9	S95T002161_S		SPK-PREDIG	LI-A-01		475		458.5997		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
432	2876	9	S95T002161_S		SPK-PREDIG	MG-A-01		475		584.2975		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
433	2876	9	S95T002161_S		SPK-PREDIG	MN-A-01		475		441.8214		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
434	2876	9	S95T002161_S		SPK-PREDIG	MO-A-01		475		464.2028		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
435	2876	9	S95T002161_S		SPK-PREDIG	NA-A-01		n/a		n/a		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
436	2876	9	S95T002161_S		SPK-PREDIG	ND-A-01		475		453.2446		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
437	2876	9	S95T002161_S		SPK-PREDIG	NI-A-01		475		448.4805		950.0000	10/27/95	14:28	lab	0.02	@ICP-A01
438	2876	9	S95T002161_S		SPK-PREDIG	P-A-01		n/a		n/a		950.0000	10/27/95	14:28	lab	0.2	@ICP-A01
439	2876	9	S95T002161_S		SPK-PREDIG	PB-A-01		475		542.2957		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
440	2876	9	S95T002161_S		SPK-PREDIG	S-A-01		475		458.7098		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
441	2876	9	S95T002161_S		SPK-PREDIG	SB-A-01		475		446.7351		950.0000	10/27/95	14:28	lab	0.2	@ICP-A01
442	2876	9	S95T002161_S		SPK-PREDIG	SE-A-01		475		446.0139		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
443	2876	9	S95T002161_S		SPK-PREDIG	SI-A-01		n/a		n/a		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
444	2876	9	S95T002161_S		SPK-PREDIG	SM-A-01		475		448.3404		950.0000	10/27/95	14:28	lab	0.1	@ICP-A01
445	2876	9	S95T002161_S		SPK-PREDIG	SR-A-01		475		453.1023		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
446	2876	9	S95T002161_S		SPK-PREDIG	TI-A-01		475		433.0248		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
447	2876	9	S95T002161_S		SPK-PREDIG	TL-A-01		475		455.4869		950.0000	10/27/95	14:28	lab	0.2	@ICP-A01
448	2876	9	S95T002161_S		SPK-PREDIG	U-A-01		950		1011.0333		950.0000	10/27/95	14:28	lab	0.4	@ICP-A01
449	2876	9	S95T002161_S		SPK-PREDIG	V-A-01		475		456.5892		950.0000	10/27/95	14:28	lab	0.05	@ICP-A01
450	2876	9	S95T002161_S		SPK-PREDIG	ZN-A-01		475		466.1599		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
451	2876	9	S95T002161_S		SPK-PREDIG	ZR-A-01		475		407.4568		950.0000	10/27/95	14:28	lab	0.01	@ICP-A01
452	2876	10			ICSA	AG				-0.0137		1.0000	10/27/95	14:31	lab	0.01	@ICP-QC
453	2876	10			ICSA	AL				239.7519		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC
454	2876	10			ICSA	AS				-0.0301		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC
455	2876	10			ICSA	B				0.0053		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC
456	2876	10			ICSA	BA				0.0030		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC
457	2876	10			ICSA	BE				0.0000		1.0000	10/27/95	14:31	lab	0.006	@ICP-QC
458	2876	10			ICSA	BI				-0.0390		1.0000	10/27/95	14:31	lab	0.1	@ICP-QC
459	2876	10			ICSA	CA				250.9914		1.0000	10/27/95	14:31	lab	0.1	@ICP-QC
460	2876	10			ICSA	CD				0.0003		1.0000	10/27/95	14:31	lab	0.01	@ICP-QC
461	2876	10			ICSA	CE				0.0127		1.0000	10/27/95	14:31	lab	0.1	@ICP-QC
462	2876	10			ICSA	CO				-0.0009		1.0000	10/27/95	14:31	lab	0.02	@ICP-QC
463	2876	10			ICSA	CR				-0.0034		1.0000	10/27/95	14:31	lab	0.01	@ICP-QC
464	2876	10			ICSA	CU				-0.0091		1.0000	10/27/95	14:31	lab	0.01	@ICP-QC
465	2876	10			ICSA	EU				-0.0101		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC
466	2876	10			ICSA	FE				92.3515		1.0000	10/27/95	14:31	lab	0.05	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	2876	10			ICSA	K				0.1430		1.0000	10/27/95	14:31	blg	0.3	@ICP-QC
368	2876	10			ICSA	LA				-0.0043		1.0000	10/27/95	14:31	blg	0.06	@ICP-QC
369	2876	10			ICSA	LI				0.0020		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
370	2876	10			ICSA	MG				247.2710		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
371	2876	10			ICSA	MN				-0.0077		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
372	2876	10			ICSA	MO				-0.0145		1.0000	10/27/95	14:31	blg	0.06	@ICP-QC
373	2876	10			ICSA	NA				198.2103		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
374	2876	10			ICSA	ND				0.0068		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
375	2876	10			ICSA	NI				-0.0176		1.0000	10/27/95	14:31	blg	0.02	@ICP-QC
376	2876	10			ICSA	P				0.0212		1.0000	10/27/95	14:31	blg	0.2	@ICP-QC
377	2876	10			ICSA	PB				0.0451		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
378	2876	10			ICSA	S				0.0335		1.0000	10/27/95	14:31	blg	0.05	@ICP-QC
379	2876	10			ICSA	SB				0.0056		1.0000	10/27/95	14:31	blg	0.2	@ICP-QC
380	2876	10			ICSA	SE				-0.0460		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
381	2876	10			ICSA	SI				0.0180		1.0000	10/27/95	14:31	blg	0.05	@ICP-QC
382	2876	10			ICSA	SM				-0.0088		1.0000	10/27/95	14:31	blg	0.1	@ICP-QC
383	2876	10			ICSA	SR				-0.0034		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
384	2876	10			ICSA	TH				-0.0112		1.0000	10/27/95	14:31	blg	0	@ICP-QC
385	2876	10			ICSA	TI				0.0015		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
386	2876	10			ICSA	TL				0.0109		1.0000	10/27/95	14:31	blg	0.2	@ICP-QC
387	2876	10			ICSA	U				0.0446		1.0000	10/27/95	14:31	blg	0.4	@ICP-QC
388	2876	10			ICSA	V				-0.0020		1.0000	10/27/95	14:31	blg	0.05	@ICP-QC
389	2876	10			ICSA	Y				0.0179		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
390	2876	10			ICSA	ZN				0.0011		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
391	2876	10			ICSA	ZR				-0.0019		1.0000	10/27/95	14:31	blg	0.01	@ICP-QC
392	2876	11			ICSAB	AG				0.0438		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
393	2876	11			ICSAB	AL				239.0289		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
394	2876	11			ICSAB	AS				-0.0285		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
395	2876	11			ICSAB	B				-0.0056		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
396	2876	11			ICSAB	BA				0.4671		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
397	2876	11			ICSAB	BE				0.4757		1.0000	10/27/95	14:34	blg	0.005	@ICP-QC
398	2876	11			ICSAB	BI				-0.0268		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
399	2876	11			ICSAB	CA				251.2771		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
400	2876	11			ICSAB	CD				0.9415		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
401	2876	11			ICSAB	CE				0.0034		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
402	2876	11			ICSAB	CO				0.4632		1.0000	10/27/95	14:34	blg	0.02	@ICP-QC
403	2876	11			ICSAB	CR				0.4680		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
404	2876	11			ICSAB	CU				0.4788		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
405	2876	11			ICSAB	EU				-0.0078		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
406	2876	11			ICSAB	FE				92.5068		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
407	2876	11			ICSAB	K				0.0589		1.0000	10/27/95	14:34	blg	0.3	@ICP-QC
408	2876	11			ICSAB	LA				-0.0044		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
409	2876	11			ICSAB	LI				0.9895		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
410	2876	11			ICSAB	MG				246.1810		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
411	2876	11			ICSAB	MN				0.4412		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
412	2876	11			ICSAB	MO				-0.0118		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
413	2876	11			ICSAB	NA				196.0070		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
414	2876	11			ICSAB	ND				0.0077		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
415	2876	11			ICSAB	NI				0.9015		1.0000	10/27/95	14:34	blg	0.02	@ICP-QC
416	2876	11			ICSAB	P				0.0216		1.0000	10/27/95	14:34	blg	0.2	@ICP-QC
417	2876	11			ICSAB	PB				1.0248		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
418	2876	11			ICSAB	S				0.0487		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
419	2876	11			ICSAB	SB				0.0091		1.0000	10/27/95	14:34	blg	0.2	@ICP-QC
420	2876	11			ICSAB	SE				-0.0297		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
421	2876	11			ICSAB	SI				0.0138		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
422	2876	11			ICSAB	SM				-0.0127		1.0000	10/27/95	14:34	blg	0.1	@ICP-QC
423	2876	11			ICSAB	SR				-0.0042		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
424	2876	11			ICSAB	TH				-0.0157		1.0000	10/27/95	14:34	blg	0	@ICP-QC
425	2876	11			ICSAB	TI				0.0011		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
426	2876	11			ICSAB	TL				0.0233		1.0000	10/27/95	14:34	blg	0.2	@ICP-QC
427	2876	11			ICSAB	U				0.0271		1.0000	10/27/95	14:34	blg	0.4	@ICP-QC
428	2876	11			ICSAB	V				0.4602		1.0000	10/27/95	14:34	blg	0.05	@ICP-QC
429	2876	11			ICSAB	Y				0.0190		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
430	2876	11			ICSAB	ZN				0.9841		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
431	2876	11			ICSAB	ZR				-0.0024		1.0000	10/27/95	14:34	blg	0.01	@ICP-QC
432	2876	12			CCV	AG				5.0452		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
433	2876	12			CCV	AL				4.8612		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
434	2876	12			CCV	AS				5.1828		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
435	2876	12			CCV	B				5.0465		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
436	2876	12			CCV	BA				5.0094		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
437	2876	12			CCV	BE				5.2015		1.0000	10/27/95	14:38	blg	0.005	@ICP-QC
438	2876	12			CCV	BI				5.1353		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
439	2876	12			CCV	CA				5.2813		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
440	2876	12			CCV	CD				5.0893		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
441	2876	12			CCV	CE				5.1673		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
442	2876	12			CCV	CO				5.0840		1.0000	10/27/95	14:38	blg	0.02	@ICP-QC
443	2876	12			CCV	CR				5.1402		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
444	2876	12			CCV	CU				5.1580		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
445	2876	12			CCV	EU				0.0078		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
446	2876	12			CCV	FE				5.1048		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
447	2876	12			CCV	K				5.4093		1.0000	10/27/95	14:38	blg	0.3	@ICP-QC
448	2876	12			CCV	LA				5.1019		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
449	2876	12			CCV	LI				5.1228		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
450	2876	12			CCV	MG				4.9592		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
451	2876	12			CCV	MN				4.9672		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
452	2876	12			CCV	MO				5.0983		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
453	2876	12			CCV	NA				5.0533		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
454	2876	12			CCV	ND				5.1464		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
455	2876	12			CCV	NI				5.0328		1.0000	10/27/95	14:38	blg	0.02	@ICP-QC
456	2876	12			CCV	P				5.0841		1.0000	10/27/95	14:38	blg	0.2	@ICP-QC
457	2876	12			CCV	PB				5.1418		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
458	2876	12			CCV	S				4.9825		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
459	2876	12			CCV	SB				4.8502		1.0000	10/27/95	14:38	blg	0.2	@ICP-QC
460	2876	12			CCV	SE				4.9398		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
461	2876	12			CCV	SI				4.9615		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
462	2876	12			CCV	SM				4.9648		1.0000	10/27/95	14:38	blg	0.1	@ICP-QC
463	2876	12			CCV	SR				4.9939		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
464	2876	12			CCV	TH				0.0457		1.0000	10/27/95	14:38	blg	0	@ICP-QC
465	2876	12			CCV	TI				4.8298		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
466	2876	12			CCV	TL				4.9358		1.0000	10/27/95	14:38	blg	0.2	@ICP-QC
467	2876	12			CCV	U				9.8003		1.0000	10/27/95	14:38	blg	0.4	@ICP-QC
468	2876	12			CCV	V				5.0180		1.0000	10/27/95	14:38	blg	0.05	@ICP-QC
469	2876	12			CCV	Y				0.0094		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
470	2876	12			CCV	ZN				5.0731		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
471	2876	12			CCV	ZR				4.9927		1.0000	10/27/95	14:38	blg	0.01	@ICP-QC
472	2876	13			CCB	AG				0.0001		1.0000	10/27/95	14:40	blg	0.01	@ICP-QC
473	2876	13			CCB	AL				0.0043		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
474	2876	13			CCB	AS				-0.0089		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
475	2876	13			CCB	B				0.0042		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
476	2876	13			CCB	BA				0.0000		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
477	2876	13			CCB	BE				0.0000		1.0000	10/27/95	14:40	blg	0.005	@ICP-QC
478	2876	13			CCB	BI				0.0095		1.0000	10/27/95	14:40	blg	0.1	@ICP-QC
479	2876	13			CCB	CA				-0.0008		1.0000	10/27/95	14:40	blg	0.1	@ICP-QC
480	2876	13			CCB	CD				0.0002		1.0000	10/27/95	14:40	blg	0.01	@ICP-QC
481	2876	13			CCB	CE				0.0014		1.0000	10/27/95	14:40	blg	0.1	@ICP-QC
482	2876	13			CCB	CO				0.0002		1.0000	10/27/95	14:40	blg	0.02	@ICP-QC
483	2876	13			CCB	CR				0.0012		1.0000	10/27/95	14:40	blg	0.01	@ICP-QC
484	2876	13			CCB	CU				0.0006		1.0000	10/27/95	14:40	blg	0.01	@ICP-QC
485	2876	13			CCB	EU				-0.0008		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
486	2876	13			CCB	FE				0.0006		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC
487	2876	13			CCB	K				0.1171		1.0000	10/27/95	14:40	blg	0.3	@ICP-QC
488	2876	13			CCB	LA				-0.0062		1.0000	10/27/95	14:40	blg	0.05	@ICP-QC

WHC-SD-WM-DP-145, REV. 1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
489	2876	13			CCB	LI				-0.0007		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
490	2876	13			CCB	MG				0.0145		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
491	2876	13			CCB	MN				-0.0001		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
492	2876	13			CCB	MO				-0.0023		1.0000	10/27/95	14:40	kjg	0.05	@ICP-QC
493	2876	13			CCB	NA				-0.0053		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
494	2876	13			CCB	ND				0.0011		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
495	2876	13			CCB	NI				-0.0024		1.0000	10/27/95	14:40	kjg	0.02	@ICP-QC
496	2876	13			CCB	P				-0.0122		1.0000	10/27/95	14:40	kjg	0.2	@ICP-QC
497	2876	13			CCB	PB				0.0143		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
498	2876	13			CCB	S				-0.0046		1.0000	10/27/95	14:40	kjg	0.05	@ICP-QC
499	2876	13			CCB	SB				0.0005		1.0000	10/27/95	14:40	kjg	0.2	@ICP-QC
500	2876	13			CCB	SE				-0.0116		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
501	2876	13			CCB	SI				0.0021		1.0000	10/27/95	14:40	kjg	0.05	@ICP-QC
502	2876	13			CCB	SM				-0.0006		1.0000	10/27/95	14:40	kjg	0.1	@ICP-QC
503	2876	13			CCB	SR				-0.0000		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
504	2876	13			CCB	TH				0.0046		1.0000	10/27/95	14:40	kjg	0	@ICP-QC
505	2876	13			CCB	TI				0.0004		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
506	2876	13			CCB	TL				0.0093		1.0000	10/27/95	14:40	kjg	0.2	@ICP-QC
507	2876	13			CCB	U				-0.0140		1.0000	10/27/95	14:40	kjg	0.4	@ICP-QC
508	2876	13			CCB	V				-0.0009		1.0000	10/27/95	14:40	kjg	0.05	@ICP-QC
509	2876	13			CCB	Y				-0.0004		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
510	2876	13			CCB	ZN				0.0017		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC
511	2876	13			CCB	ZR				-0.0023		1.0000	10/27/95	14:40	kjg	0.01	@ICP-QC

WHC-SD-WM-DP-145, REV. 1

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10/30/95

LABCORE Data Entry Template for Worklist# 2877

Analyst: B. Goeckle Instrument: ~~ICP01~~ ICP02 BG 10-31-95 Book# 48348

Method: LA-505-~~151~~/161 Rev/Mod B-1 BG 10-31-95

Worklist Comment: ICP BY-108 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T002162	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

8	DUP	S95T002162	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T002162	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T002163	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2877

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T002163	0	A	@ICP-A01	SOLID		
14	SAMPLE	S95T002164	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
15	DUP	S95T002164	0	A	@ICP-A01	SOLID		
16	ICSA				@ICP-QC	QC		
17	ICSAB				@ICP-QC	QC		
18	CCV				@ICP-QC	QC		
19	CCB				@ICP-QC	QC		

Final page for worklist # 2877

Reviewed by:

[signature] 10-31-95 — Analyst Signature — Date

[signature] 10/31/95 — Analyst Signature — Date

		D.F.
PREPSTDTJA	5mL EA (WHC1A+2) in 100mL, DIRECT	1
PREPBLKTJA	100mL, DIRECT	1
S95T002162-L	.7395 g in 100mL - 1mL - 9mL - 2mL - 8mL	6761
S95T002162	.7395 g in 100mL - 1mL - 9mL	1352
S95T002162-D	.7378 g in 100mL - 1mL - 9mL	1355
S95T002162-S	.8712 g in 100mL - 1mL - 9mL	1148
		6795
S95T002163-L	.7358 g in 100mL - 1mL - 9mL - 2mL - 8mL	1359
S95T002163	.7358 g in 100mL - 1mL - 9mL	1500
S95T002163-D	.6666 g in 100mL - 1mL - 9mL	
		5285
S95T002164-L	.9460 g in 100mL - 1mL - 9mL - 2mL - 8mL	1057
S95T002164	.9460 g in 100mL - 1mL - 9mL	1025
S95T002164-D	.9752 g in 100mL - 1mL - 9mL	

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951031B	ICP2	10/31/95	12:42	BJG	Q	CONC
2	ICB	951031B	ICP2	10/31/95	12:45	BJG	Q	CONC
3	ICSA	951031B	ICP2	10/31/95	12:48	BJG	Q	CONC
4	ICSAB	951031B	ICP2	10/31/95	12:51	BJG	Q	CONC
5	PREPSTDTJA	951031B	ICP2	10/31/95	12:54	BJG	S	CONC
6	PREPBLKTJA	951031B	ICP2	10/31/95	12:58	BJG	S	CONC
7	S95T002162_L	951031B	ICP2	10/31/95	13:01	BJG	S	CONC
8	S95T002162	951031B	ICP2	10/31/95	13:04	BJG	S	CONC
9	S95T002162_D	951031B	ICP2	10/31/95	13:07	BJG	S	CONC
10	S95T002162_S	951031B	ICP2	10/31/95	13:10	BJG	S	CONC
11	CCV	951031B	ICP2	10/31/95	13:14	BJG	Q	CONC
12	CCB	951031B	ICP2	10/31/95	13:17	BJG	Q	CONC
13	S95T002163_L	951031B	ICP2	10/31/95	13:20	BJG	S	CONC
14	S95T002163	951031B	ICP2	10/31/95	13:23	BJG	S	CONC
15	S95T002163_D	951031B	ICP2	10/31/95	13:27	BJG	S	CONC
16	S95T002164_L	951031B	ICP2	10/31/95	13:31	BJG	S	CONC
17	S95T002164	951031B	ICP2	10/31/95	13:34	BJG	S	CONC
18	S95T002164_D	951031B	ICP2	10/31/95	13:37	BJG	S	CONC
19	ICSA	951031B	ICP2	10/31/95	13:41	BJG	Q	CONC
20	ICSAB	951031B	ICP2	10/31/95	13:43	BJG	Q	CONC
21	CCV_1	951031B	ICP2	10/31/95	13:49	BJG	Q	CONC
22	CCB_1	951031B	ICP2	10/31/95	13:52	BJG	Q	CONC

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10-31-95
BJG-10R
S95T002162,63,64
Acid Digest
1mL-5mL

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 596 TO 600.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.954	4.964	5.078	4.961	4.928	5.160
2	ICB	.0013	.0042	.0061	.0070	.0000	.0001
3	ICSA	-.0117	244.9	-.0924	-.0012	.0030	.0002
4	ICSAB	.9377	247.7	-.1025	.0014	.4740	.4848
5	PREPSTDTJA	.8640	5.120	4.490	5.975	4.702	4.959
6	PREPBLKTJA	.0004	.0379	-.0045	.0248	.0005	.0001
7	S95T002162_L	-.1118	35960.	-68.49	32.02	265.1	1.132
8	S95T002162	.8629	34550.	-12.90	24.13	257.1	.6264
9	S95T002162_D	2.623	55800.	-25.79	10.32	409.7	1.034
10	S95T002162_S	109.5	47220.	538.0	574.1	878.5	554.0
11	CCV	5.105	5.128	5.304	5.093	5.118	5.346
12	CCB	.0007	.0060	-.0198	.0029	-.0001	.0002
13	S95T002163_L	6.383	43740.	-104.9	51.87	347.2	1.366
14	S95T002163	1.319	42750.	-20.52	42.30	340.3	.7184
15	S95T002163_D	-1.232	41700.	-27.01	27.27	329.5	.8467
16	S95T002164_L	6.692	37790.	-54.83	3.048	148.2	1.052
17	S95T002164	-.5221	36780.	-28.09	17.51	143.9	.5487
18	S95T002164_D	-.2347	32390.	-17.90	21.59	130.8	.4991
19	ICSA	-.0123	248.1	-.0800	-.0004	.0031	.0002
20	ICSAB	.9501	248.2	-.0802	-.0039	.4728	.4889
21	CCV_1	5.067	5.101	5.258	5.087	5.085	5.322
22	CCB_1	.0010	.0095	.0102	.0029	.0001	.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.058	5.015	5.017	5.081	5.007	5.067
2	ICB	.0075	.0021	.0006	.0025	.0016	.0006
3	ICSA	-.0423	247.2	.0016	.0064	-.0016	-.0059
4	ICSAB	.0026	246.6	.9354	.0040	.4604	.4611
5	PREPSTDTJA	4.335	5.223	4.301	4.859	4.455	4.513
6	PREPBLKTJA	.0179	.1348	.0006	.0028	.0004	.0033
7	S95T002162_L	90.49	2788.	2.328	-4.025	-.4749	118.9
8	S95T002162	32.84	2638.	.1369	7.713	7.124	114.5
9	S95T002162_D	28.48	4425.	1.276	8.659	4.520	165.6
10	S95T002162_S	586.0	4147.	543.0	557.3	545.1	681.2
11	CCV	5.174	5.258	5.186	5.256	5.170	5.242
12	CCB	.0060	.0013	-.0004	-.0023	-.0009	-.0001
13	S95T002163_L	-54.51	3003.	-1.847	22.46	-5.130	136.1
14	S95T002163	50.01	2827.	.5552	7.410	7.145	129.6
15	S95T002163_D	32.41	2744.	1.153	-4.066	5.920	123.2
16	S95T002164_L	27.53	1798.	.4734	19.12	7.213	148.5
17	S95T002164	18.73	1700.	-.4343	-3.617	3.195	138.4
18	S95T002164_D	7.706	1514.	.3109	.4942	3.238	117.0
19	ICSA	-.0120	251.4	.0016	.0136	.0007	-.0037
20	ICSAB	-.0150	254.6	.9506	.0037	.4670	.4727
21	CCV_1	5.195	5.251	5.151	5.224	5.130	5.211
22	CCB_1	.0394	.0000	-.0006	.0008	-.0001	.0008

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#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.082	.0065	5.054	4.823	5.027	5.033
2	ICB	-.0004	-.0008	.0000	.0980	.0004	-.0002
3	ICSA	-.0086	-.0041	92.13	.1256	-.0039	.0019
4	ICSAB	.4906	.0025	92.46	.0671	-.0040	1.018
5	PREPSTDTJA	4.647	.0041	4.538	4.649	4.844	4.937
6	PREPBLKTJA	.0017	-.0050	.0141	.1401	.0003	-.0018
7	S95T002162_L	1.259	-3.489	3291.	-252.4	.7615	.6459
8	S95T002162	5.202	1.078	3136.	570.5	2.884	1.023
9	S95T002162_D	5.700	3.929	5114.	847.6	5.495	2.822
10	S95T002162_S	541.6	3.235	4621.	1087.	554.0	552.6
11	CCV	5.257	.0065	5.239	5.024	5.210	5.206
12	CCB	.0002	-.0015	-.0006	-.0285	.0004	-.0009
13	S95T002163_L	9.291	-8.289	3300.	1517.	7.156	-8.365
14	S95T002163	6.232	1.078	3199.	1263.	3.731	-1.165
15	S95T002163_D	3.699	.7318	3147.	1020.	1.102	-1.853
16	S95T002164_L	8.025	-5.792	2308.	2089.	6.808	-4.515
17	S95T002164	4.284	.1186	2210.	1274.	.6832	-.8168
18	S95T002164_D	3.975	.1441	2000.	1273.	.9195	-1.277
19	ICSA	-.0080	-.0112	93.11	.1874	-.0026	.0019
20	ICSAB	.4882	-.0125	93.96	.1966	-.0030	1.008
21	CCV_1	5.237	.0065	5.208	5.065	5.180	5.234
22	CCB_1	-.0004	-.0011	-.0002	-.1265	.0006	-.0007

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.981	4.917	5.039	5.008	5.192	4.983
2	ICB	-.0026	-.0002	-.0005	-.0031	-.0028	-.0010
3	ICSA	249.9	-.0080	-.0146	196.0	.0072	-.0181
4	ICSAB	251.7	.4390	-.0144	201.4	.0061	.8968
5	PREPSTDTJA	4.695	4.388	4.597	7.741	4.904	4.420
6	PREPBLKTJA	.0143	-.0010	.0002	.0834	-.0010	-.0006
7	S95T002162_L	614.4	73.29	8.300	226300.	-33.38	283.2
8	S95T002162	665.9	70.61	1.683	217200.	.6817	287.1
9	S95T002162_D	1110.	113.9	-2.035	187400.	5.553	390.0
10	S95T002162_S	1459.	610.8	547.9	194200.	550.6	890.2
11	CCV	5.143	5.072	5.216	5.149	5.383	5.162
12	CCB	.0019	-.0003	.0007	-.0108	-.0031	-.0046
13	S95T002163_L	744.3	65.90	-14.66	195700.	-11.41	278.2
14	S95T002163	690.5	66.50	2.763	191000.	1.113	275.0
15	S95T002163_D	675.7	65.56	6.246	194300.	-2.091	267.8
16	S95T002164_L	482.5	40.56	9.770	189800.	-2.692	473.4
17	S95T002164	461.0	40.70	5.021	182700.	-2.661	432.5
18	S95T002164_D	399.3	34.71	6.109	188300.	-1.718	385.6
19	ICSA	253.5	-.0084	-.0143	199.9	.0084	-.0147
20	ICSAB	253.5	.4461	-.0104	199.6	.0063	.9005
21	CCV_1	5.101	5.036	5.184	5.165	5.355	5.152
22	CCB_1	-.0045	-.0000	.0000	-.0073	-.0048	-.0011

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#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.153	5.006	5.065	4.733	5.001	4.966
2	ICB	-.0053	-.0094	-.0036	.0028	.0302	-.0091
3	ICSA	.0106	.0490	.0336	.0080	.0240	.0011
4	ICSAB	.0211	.9823	.0372	.0100	-.0198	-.0024
5	PREPSTDTJA	4.589	4.212	4.264	4.130	4.557	4.128
6	PREPBLKTJA	.0618	.0148	.0454	.0056	.0363	.1411
7	S95T002162_L	2392.	134.7	3582.	18.64	245.7	277.5
8	S95T002162	2344.	99.42	3522.	7.605	51.59	315.8
9	S95T002162_D	4143.	165.0	3294.	-2.833	27.39	282.2
10	S95T002162_S	4133.	679.0	3575.	328.2	560.7	521.5
11	CCV	5.424	5.176	5.218	4.900	5.209	5.117
12	CCB	.0057	.0038	-.0049	.0045	.0198	-.0112
13	S95T002163_L	6714.	113.1	6110.	-7.431	95.48	185.7
14	S95T002163	6400.	151.6	5848.	3.299	45.91	268.0
15	S95T002163_D	4645.	153.1	5626.	10.12	34.14	279.3
16	S95T002164_L	2092.	139.6	5272.	3.282	187.7	177.7
17	S95T002164	2047.	125.9	5155.	-1.758	36.36	220.9
18	S95T002164_D	3445.	98.84	4819.	-3.005	34.43	245.2
19	ICSA	.0374	.0389	.0280	-.0004	.0086	.0021
20	ICSAB	.0121	1.018	.0471	.0097	.0150	.0032
21	CCV_1	5.338	5.138	5.179	4.864	5.179	5.086
22	CCB_1	.0165	.0067	-.0055	.0071	.0310	-.0094

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.056	4.962	.0140	4.870	4.923	9.934
2	ICB	-.0064	-.0000	.0041	.0004	.0226	-.0207
3	ICSA	-.0144	-.0034	-.0134	.0009	.0478	.1001
4	ICSAB	-.0289	-.0041	-.0230	.0006	.0562	.0875
5	PREPSTDTJA	4.928	4.777	.0002	4.613	4.406	9.838
6	PREPBLKTJA	-.0539	-.0006	.0107	.0007	.0295	-.1899
7	[illegible]	-51.07	104.6	18.99	182.4	250.8	-87.20
8	[illegible]	-21.92	101.9	2.008	178.8	35.30	49.34
9	[illegible]	-20.62	163.5	4.088	282.3	-.3576	84.78
10	[illegible]	532.7	680.9	2.660	764.9	541.2	1155.
11	[illegible]	5.241	5.144	.0232	5.045	5.147	10.28
12	[illegible]	-.0144	-.0001	.0027	-.0002	.0270	-.0489
13	S95T002163_L	-99.81	105.4	37.48	204.9	197.0	-231.4
14	S95T002163	-23.61	104.1	7.918	198.0	24.19	103.2
15	S95T002163_D	-30.50	102.1	.6524	193.8	51.34	72.60
16	S95T002164_L	-73.20	150.9	39.45	125.8	5.878	86.94
17	S95T002164	-20.09	147.9	-1.466	121.0	18.81	274.9
18	S95T002164_D	-17.40	130.1	-.5189	109.2	-1.281	245.3
19	[illegible]	-.0171	-.0035	-.0178	.0014	.0568	.1025
20	[illegible]	-.0182	-.0043	-.0128	.0013	.0628	.0800
21	[illegible]	5.308	5.121	.0289	5.022	5.108	10.23
22	CCB_1	-.0080	-.0001	.0020	-.0002	.0301	-.0302

BEST AVAILABLE COPY

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.983	.0090	4.997	4.955
2	ICB	-.0011	-.0004	.0000	-.0011
3	ICSA	-.0033	.0176	.0018	-.0024
4	ICSAB	.4610	.0180	.9534	-.0048
5	PREPSTDTJA	4.527	.0052	4.149	4.651
6	PREPBLKTJA	-.0110	-.0032	.0117	-.0081
7	S95T002162_L	-9.270	-1.023	42.97	13.34
8	S95T002162	-.9490	.4030	30.57	20.87
9	S95T002162_D	.7877	1.770	40.29	35.17
10	S95T002162_S	532.3	2.029	571.6	520.0
11	CCV	5.154	.0093	5.152	5.123
12	CCB	-.0026	-.0009	-.0008	-.0018
13	S95T002163_L	-15.49	-4.163	77.29	-2.936
14	S95T002163	-.8752	.3823	32.24	15.96
15	S95T002163_D	-2.416	-.0309	33.76	14.59
16	S95T002164_L	-10.83	-3.352	75.45	-3.283
17	S95T002164	-2.085	-.0340	31.29	9.412
18	S95T002164_D	-1.465	.0565	30.30	9.077
19	ICSA	-.0035	.0175	.0024	-.0027
20	ICSAB	.4670	.0189	.9731	-.0028
21	CCV_1	5.125	.0091	5.114	5.090
22	CCB_1	-.0017	-.0006	.0016	-.0009

BEST AVAILABLE COPY

SP 10/31/95

ICP MACRO

OUTPUT.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	2877	1			ICV	AG				4.9645		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
2	2877	1			ICV	AL				4.9845		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
3	2877	1			ICV	AS				5.0783		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
4	2877	1			ICV	B				4.9610		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
5	2877	1			ICV	BA				4.9280		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
6	2877	1			ICV	BE				5.1001		1.0000	10/31/95	12:42	bjg	0.005	@ICP-QC
7	2877	1			ICV	BI				5.0579		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
8	2877	1			ICV	CA				5.0155		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
9	2877	1			ICV	CD				5.0109		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
10	2877	1			ICV	CE				5.0612		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
11	2877	1			ICV	CO				5.0086		1.0000	10/31/95	12:42	bjg	0.02	@ICP-QC
12	2877	1			ICV	CR				5.0670		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
13	2877	1			ICV	CU				5.0622		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
14	2877	1			ICV	EU				0.0085		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
15	2877	1			ICV	FE				5.0640		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
16	2877	1			ICV	K				4.8229		1.0000	10/31/95	12:42	bjg	0.3	@ICP-QC
17	2877	1			ICV	LA				5.0273		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
18	2877	1			ICV	LI				5.0331		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
19	2877	1			ICV	MG				4.9806		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
20	2877	1			ICV	MN				4.9173		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
21	2877	1			ICV	MO				5.0391		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
22	2877	1			ICV	NA				5.0079		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
23	2877	1			ICV	ND				5.1916		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
24	2877	1			ICV	NI				4.9635		1.0000	10/31/95	12:42	bjg	0.02	@ICP-QC
25	2877	1			ICV	P				5.1529		1.0000	10/31/95	12:42	bjg	0.2	@ICP-QC
26	2877	1			ICV	PB				5.0080		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
27	2877	1			ICV	S				5.0850		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
28	2877	1			ICV	SB				4.7330		1.0000	10/31/95	12:42	bjg	0.2	@ICP-QC
29	2877	1			ICV	SE				5.0011		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
30	2877	1			ICV	SI				4.9857		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
31	2877	1			ICV	SM				5.0556		1.0000	10/31/95	12:42	bjg	0.1	@ICP-QC
32	2877	1			ICV	SR				4.9823		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
33	2877	1			ICV	TH				0.0140		1.0000	10/31/95	12:42	bjg	0	@ICP-QC
34	2877	1			ICV	TI				4.8702		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
35	2877	1			ICV	TL				4.9234		1.0000	10/31/95	12:42	bjg	0.2	@ICP-QC
36	2877	1			ICV	U				9.9342		1.0000	10/31/95	12:42	bjg	0.4	@ICP-QC
37	2877	1			ICV	V				4.9834		1.0000	10/31/95	12:42	bjg	0.05	@ICP-QC
38	2877	1			ICV	Y				0.0080		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
39	2877	1			ICV	ZN				4.9872		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
40	2877	1			ICV	ZR				4.9553		1.0000	10/31/95	12:42	bjg	0.01	@ICP-QC
41	2877	2			ICB	AG				0.0013		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
42	2877	2			ICB	AL				0.0042		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
43	2877	2			ICB	AS				0.0061		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
44	2877	2			ICB	B				0.0070		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
45	2877	2			ICB	BA				0.0000		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
46	2877	2			ICB	BE				0.0001		1.0000	10/31/95	12:45	bjg	0.005	@ICP-QC
47	2877	2			ICB	BI				0.0075		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
48	2877	2			ICB	CA				0.0021		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
49	2877	2			ICB	CD				0.0006		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
50	2877	2			ICB	CE				0.0025		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
51	2877	2			ICB	CO				0.0016		1.0000	10/31/95	12:45	bjg	0.02	@ICP-QC
52	2877	2			ICB	CR				0.0006		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
53	2877	2			ICB	CU				-0.0004		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
54	2877	2			ICB	EU				-0.0006		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
55	2877	2			ICB	FE				0.0000		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
56	2877	2			ICB	K				0.0960		1.0000	10/31/95	12:45	bjg	0.3	@ICP-QC
57	2877	2			ICB	LA				0.0004		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
58	2877	2			ICB	LI				-0.0002		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
59	2877	2			ICB	MG				-0.0026		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
60	2877	2			ICB	MN				-0.0002		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
61	2877	2			ICB	MO				-0.0005		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
62	2877	2			ICB	NA				-0.0031		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
63	2877	2			ICB	ND				-0.0028		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
64	2877	2			ICB	NI				-0.0010		1.0000	10/31/95	12:45	bjg	0.02	@ICP-QC
65	2877	2			ICB	P				-0.0053		1.0000	10/31/95	12:45	bjg	0.2	@ICP-QC
66	2877	2			ICB	PB				-0.0094		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
67	2877	2			ICB	S				-0.0036		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
68	2877	2			ICB	SB				0.0026		1.0000	10/31/95	12:45	bjg	0.2	@ICP-QC
69	2877	2			ICB	SE				0.0302		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
70	2877	2			ICB	SI				-0.0091		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
71	2877	2			ICB	SM				-0.0064		1.0000	10/31/95	12:45	bjg	0.1	@ICP-QC
72	2877	2			ICB	SR				-0.0000		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
73	2877	2			ICB	TH				0.0041		1.0000	10/31/95	12:45	bjg	0	@ICP-QC
74	2877	2			ICB	TI				0.0004		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
75	2877	2			ICB	TL				0.0226		1.0000	10/31/95	12:45	bjg	0.2	@ICP-QC
76	2877	2			ICB	U				-0.0207		1.0000	10/31/95	12:45	bjg	0.4	@ICP-QC
77	2877	2			ICB	V				-0.0011		1.0000	10/31/95	12:45	bjg	0.05	@ICP-QC
78	2877	2			ICB	Y				-0.0004		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
79	2877	2			ICB	ZN				0.0000		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
80	2877	2			ICB	ZR				-0.0011		1.0000	10/31/95	12:45	bjg	0.01	@ICP-QC
81	2877	3			ICSA	AG				-0.0117		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
82	2877	3			ICSA	AL				244.8899		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
83	2877	3			ICSA	AS				-0.0924		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
84	2877	3			ICSA	B				-0.0012		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
85	2877	3			ICSA	BA				0.0030		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
86	2877	3			ICSA	BE				0.0002		1.0000	10/31/95	12:48	bjg	0.005	@ICP-QC
87	2877	3			ICSA	BI				-0.0423		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
88	2877	3			ICSA	CA				247.2219		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
89	2877	3			ICSA	CD				0.0016		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
90	2877	3			ICSA	CE				0.0064		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
91	2877	3			ICSA	CO				-0.0016		1.0000	10/31/95	12:48	bjg	0.02	@ICP-QC
92	2877	3			ICSA	CR				-0.0059		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
93	2877	3			ICSA	CU				-0.0066		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
94	2877	3			ICSA	EU				-0.0041		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
95	2877	3			ICSA	FE				92.1342		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
96	2877	3			ICSA	K				0.1256		1.0000	10/31/95	12:48	bjg	0.3	@ICP-QC
97	2877	3			ICSA	LA				-0.0039		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
98	2877	3			ICSA	LI				0.0019		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
99	2877	3			ICSA	MG				249.9020		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
100	2877	3			ICSA	MN				-0.0080		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
101	2877	3			ICSA	MO				-0.0146		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
102	2877	3			ICSA	NA				196.0353		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
103	2877	3			ICSA	ND				0.0072		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
104	2877	3			ICSA	NI				-0.0181		1.0000	10/31/95	12:48	bjg	0.02	@ICP-QC
105	2877	3			ICSA	P				0.0106		1.0000	10/31/95	12:48	bjg	0.2	@ICP-QC
106	2877	3			ICSA	PB				0.0490		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
107	2877	3			ICSA	S				0.0336		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
108	2877	3			ICSA	SB				0.0060		1.0000	10/31/95	12:48	bjg	0.2	@ICP-QC
109	2877	3			ICSA	SE				0.0240		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
110	2877	3			ICSA	SI				0.0011		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
111	2877	3			ICSA	SM				-0.0144		1.0000	10/31/95	12:48	bjg	0.1	@ICP-QC
112	2877	3			ICSA	SR				-0.0034		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
113	2877	3			ICSA	TH				-0.0134		1.0000	10/31/95	12:48	bjg	0	@ICP-QC
114	2877	3			ICSA	TI				0.0009		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
115	2877	3			ICSA	TL				0.0478		1.0000	10/31/95	12:48	bjg	0.2	@ICP-QC
116	2877	3			ICSA	U				0.1001		1.0000	10/31/95	12:48	bjg	0.4	@ICP-QC
117	2877	3			ICSA	V				-0.0033		1.0000	10/31/95	12:48	bjg	0.05	@ICP-QC
118	2877	3			ICSA	Y				0.0176		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
119	2877	3			ICSA	ZN				0.0018		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
120	2877	3			ICSA	ZR				-0.0024		1.0000	10/31/95	12:48	bjg	0.01	@ICP-QC
121	2877	4			ICSAB	AG				0.9377		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
122	2877	4			ICSAB	AL				247.7245		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC

…-WM-DP-/45, REV. 1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	2877	4			ICSAB	AS				-0.1025		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
124	2877	4			ICSAB	B				0.0014		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
125	2877	4			ICSAB	BA				0.4740		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
126	2877	4			ICSAB	BE				0.4848		1.0000	10/31/95	12:51	bjg	0.005	@ICP-QC
127	2877	4			ICSAB	BI				0.0026		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
128	2877	4			ICSAB	CA				246.5786		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
129	2877	4			ICSAB	CD				0.8354		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
130	2877	4			ICSAB	CE				0.0040		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
131	2877	4			ICSAB	CO				0.4604		1.0000	10/31/95	12:51	bjg	0.02	@ICP-QC
132	2877	4			ICSAB	CR				0.4611		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
133	2877	4			ICSAB	CU				0.4906		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
134	2877	4			ICSAB	EU				0.0025		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
135	2877	4			ICSAB	FE				82.4602		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
136	2877	4			ICSAB	K				0.0671		1.0000	10/31/95	12:51	bjg	0.3	@ICP-QC
137	2877	4			ICSAB	LA				-0.0040		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
138	2877	4			ICSAB	LI				1.0178		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
139	2877	4			ICSAB	MG				251.7075		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
140	2877	4			ICSAB	MN				0.4390		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
141	2877	4			ICSAB	MO				-0.0144		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
142	2877	4			ICSAB	NA				201.4464		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
143	2877	4			ICSAB	ND				0.0061		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
144	2877	4			ICSAB	NI				0.8668		1.0000	10/31/95	12:51	bjg	0.02	@ICP-QC
145	2877	4			ICSAB	P				0.0211		1.0000	10/31/95	12:51	bjg	0.2	@ICP-QC
146	2877	4			ICSAB	PB				0.8623		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
147	2877	4			ICSAB	S				0.0372		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
148	2877	4			ICSAB	SB				0.0100		1.0000	10/31/95	12:51	bjg	0.2	@ICP-QC
149	2877	4			ICSAB	SE				-0.0196		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
150	2877	4			ICSAB	SI				-0.0024		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
151	2877	4			ICSAB	SM				-0.0289		1.0000	10/31/95	12:51	bjg	0.1	@ICP-QC
152	2877	4			ICSAB	SR				-0.0041		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
153	2877	4			ICSAB	TH				-0.0230		1.0000	10/31/95	12:51	bjg	0	@ICP-QC
154	2877	4			ICSAB	TI				0.0006		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
155	2877	4			ICSAB	TL				0.0562		1.0000	10/31/95	12:51	bjg	0.2	@ICP-QC
156	2877	4			ICSAB	U				0.0675		1.0000	10/31/95	12:51	bjg	0.4	@ICP-QC
157	2877	4			ICSAB	V				0.4610		1.0000	10/31/95	12:51	bjg	0.05	@ICP-QC
158	2877	4			ICSAB	Y				0.0180		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
159	2877	4			ICSAB	ZN				0.9534		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
160	2877	4			ICSAB	ZR				-0.0048		1.0000	10/31/95	12:51	bjg	0.01	@ICP-QC
161	2877	5			PREPSTDTJA	AG-A-01				0.8640		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
162	2877	5			PREPSTDTJA	AL-A-01				5.1200		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
163	2877	5			PREPSTDTJA	AS-A-01				4.4903		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
164	2877	5			PREPSTDTJA	B-A-01				5.9746		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
165	2877	5			PREPSTDTJA	BA-A-01				4.7019		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
166	2877	5			PREPSTDTJA	BE-A-01				4.9594		1.0000	10/31/95	12:54	bjg	0.005	@ICP-A01
167	2877	5			PREPSTDTJA	BI-A-01				4.3346		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
168	2877	5			PREPSTDTJA	CA-A-01				5.2229		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
169	2877	5			PREPSTDTJA	CD-A-01				4.3006		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
170	2877	5			PREPSTDTJA	CE-A-01				4.8590		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
171	2877	5			PREPSTDTJA	CO-A-01				4.4547		1.0000	10/31/95	12:54	bjg	0.02	@ICP-A01
172	2877	5			PREPSTDTJA	CR-A-01				4.5133		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
173	2877	5			PREPSTDTJA	CU-A-01				4.6468		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
174	2877	5			PREPSTDTJA	EU-A-01				0.0041		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
175	2877	5			PREPSTDTJA	FE-A-01				4.5377		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
176	2877	5			PREPSTDTJA	K-A-01				4.8492		1.0000	10/31/95	12:54	bjg	0.3	@ICP-A01
177	2877	5			PREPSTDTJA	LA-A-01				4.8437		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
178	2877	5			PREPSTDTJA	LI-A-01				4.9367		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
179	2877	5			PREPSTDTJA	MG-A-01				4.6948		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
180	2877	5			PREPSTDTJA	MN-A-01				4.3683		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
181	2877	5			PREPSTDTJA	MO-A-01				4.5986		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
182	2877	5			PREPSTDTJA	NA-A-01				7.7411		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
183	2877	5			PREPSTDTJA	ND-A-01				4.9040		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
184	2877	5			PREPSTDTJA	NI-A-01				4.4196		1.0000	10/31/95	12:54	bjg	0.02	@ICP-A01
185	2877	5			PREPSTDTJA	P-A-01				4.5893		1.0000	10/31/95	12:54	bjg	0.2	@ICP-A01
186	2877	5			PREPSTDTJA	PB-A-01				4.2125		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
187	2877	5			PREPSTDTJA	S-A-01				4.2638		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
188	2877	5			PREPSTDTJA	SB-A-01				4.1297		1.0000	10/31/95	12:54	bjg	0.2	@ICP-A01
189	2877	5			PREPSTDTJA	SE-A-01				4.5567		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
190	2877	5			PREPSTDTJA	SI-A-01				4.1275		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
191	2877	5			PREPSTDTJA	SM-A-01				4.9282		1.0000	10/31/95	12:54	bjg	0.1	@ICP-A01
192	2877	5			PREPSTDTJA	SR-A-01				4.7771		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
193	2877	5			PREPSTDTJA	TH-A-01				0.0002		1.0000	10/31/95	12:54	bjg	0	@ICP-A01
194	2877	5			PREPSTDTJA	TI-A-01				4.6128		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
195	2877	5			PREPSTDTJA	TL-A-01				4.4062		1.0000	10/31/95	12:54	bjg	0.2	@ICP-A01
196	2877	5			PREPSTDTJA	U-A-01				9.8376		1.0000	10/31/95	12:54	bjg	0.4	@ICP-A01
197	2877	5			PREPSTDTJA	V-A-01				4.5269		1.0000	10/31/95	12:54	bjg	0.05	@ICP-A01
198	2877	5			PREPSTDTJA	Y-A-01				0.0052		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
199	2877	5			PREPSTDTJA	ZN-A-01				4.1485		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
200	2877	5			PREPSTDTJA	ZR-A-01				4.6506		1.0000	10/31/95	12:54	bjg	0.01	@ICP-A01
201	2877	6			PREPBLKTJA	AG-A-01				0.0004		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
202	2877	6			PREPBLKTJA	AL-A-01				0.0379		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
203	2877	6			PREPBLKTJA	AS-A-01				-0.0045		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
204	2877	6			PREPBLKTJA	B-A-01				0.0248		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
205	2877	6			PREPBLKTJA	BA-A-01				0.0005		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
206	2877	6			PREPBLKTJA	BE-A-01				0.0001		1.0000	10/31/95	12:58	bjg	0.005	@ICP-A01
207	2877	6			PREPBLKTJA	BI-A-01				0.0179		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
208	2877	6			PREPBLKTJA	CA-A-01				0.1348		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
209	2877	6			PREPBLKTJA	CD-A-01				0.0006		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
210	2877	6			PREPBLKTJA	CE-A-01				0.0028		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
211	2877	6			PREPBLKTJA	CO-A-01				0.0004		1.0000	10/31/95	12:58	bjg	0.02	@ICP-A01
212	2877	6			PREPBLKTJA	CR-A-01				0.0033		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
213	2877	6			PREPBLKTJA	CU-A-01				0.0017		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
214	2877	6			PREPBLKTJA	EU-A-01				-0.0050		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
215	2877	6			PREPBLKTJA	FE-A-01				0.0141		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
216	2877	6			PREPBLKTJA	K-A-01				0.1401		1.0000	10/31/95	12:58	bjg	0.3	@ICP-A01
217	2877	6			PREPBLKTJA	LA-A-01				0.0003		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
218	2877	6			PREPBLKTJA	LI-A-01				-0.0018		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
219	2877	6			PREPBLKTJA	MG-A-01				0.0143		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
220	2877	6			PREPBLKTJA	MN-A-01				-0.0010		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
221	2877	6			PREPBLKTJA	MO-A-01				0.0002		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
222	2877	6			PREPBLKTJA	NA-A-01				0.0834		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
223	2877	6			PREPBLKTJA	ND-A-01				-0.0010		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
224	2877	6			PREPBLKTJA	NI-A-01				-0.0006		1.0000	10/31/95	12:58	bjg	0.02	@ICP-A01
225	2877	6			PREPBLKTJA	P-A-01				0.0818		1.0000	10/31/95	12:58	bjg	0.2	@ICP-A01
226	2877	6			PREPBLKTJA	PB-A-01				0.0148		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
227	2877	6			PREPBLKTJA	S-A-01				0.0454		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
228	2877	6			PREPBLKTJA	SB-A-01				0.0056		1.0000	10/31/95	12:58	bjg	0.2	@ICP-A01
229	2877	6			PREPBLKTJA	SE-A-01				0.0363		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
230	2877	6			PREPBLKTJA	SI-A-01				0.1411		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
231	2877	6			PREPBLKTJA	SM-A-01				-0.0539		1.0000	10/31/95	12:58	bjg	0.1	@ICP-A01
232	2877	6			PREPBLKTJA	SR-A-01				-0.0006		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
233	2877	6			PREPBLKTJA	TH-A-01				0.0107		1.0000	10/31/95	12:58	bjg	0	@ICP-A01
234	2877	6			PREPBLKTJA	TI-A-01				0.0007		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
235	2877	6			PREPBLKTJA	TL-A-01				0.0295		1.0000	10/31/95	12:58	bjg	0.2	@ICP-A01
236	2877	6			PREPBLKTJA	U-A-01				-0.1899		1.0000	10/31/95	12:58	bjg	0.4	@ICP-A01
237	2877	6			PREPBLKTJA	V-A-01				-0.0110		1.0000	10/31/95	12:58	bjg	0.05	@ICP-A01
238	2877	6			PREPBLKTJA	Y-A-01				-0.0032		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
239	2877	6			PREPBLKTJA	ZN-A-01				0.0117		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
240	2877	6			PREPBLKTJA	ZR-A-01				-0.0081		1.0000	10/31/95	12:58	bjg	0.01	@ICP-A01
241	2877	7	S95T002162			AG-A-01			<	13.5200		1352.0000	10/31/95	13:04	bjg	0.01	@ICP-A01
242	2877	7	S95T002162			AL-A-01				34551.8164		1352.0000	10/31/95	13:04	bjg	0.05	@ICP-A01
243	2877	7	S95T002162			AS-A-01			<	67.6000		1352.0000	10/31/95	13:04	bjg	0.05	@ICP-A01
244	2877	7	S95T002162			B-A-01			<	67.6000		1352.0000	10/31/95	13:04	bjg	0.05	@ICP-A01

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
346	2877	7	S95T002162			BA-A-01				257.1438		1352.0000	10/31/95	13:04		0.05	@ICP-A01
346	2877	7	S95T002162			BE-A-01			<	8.7800		1352.0000	10/31/95	13:04		0.005	@ICP-A01
347	2877	7	S95T002162			BI-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
348	2877	7	S95T002162			CA-A-01				2838.4473		1352.0000	10/31/95	13:04		0.1	@ICP-A01
349	2877	7	S95T002162			CD-A-01			<	13.5200		1352.0000	10/31/95	13:04		0.01	@ICP-A01
350	2877	7	S95T002162			CE-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
351	2877	7	S95T002162			CO-A-01			<	27.0400		1352.0000	10/31/95	13:04		0.02	@ICP-A01
352	2877	7	S95T002162			CR-A-01				114.5430		1352.0000	10/31/95	13:04		0.01	@ICP-A01
353	2877	7	S95T002162			CU-A-01			<	13.5200		1352.0000	10/31/95	13:04		0.01	@ICP-A01
354	2877	7	S95T002162			FE-A-01				3135.8750		1352.0000	10/31/95	13:04		0.05	@ICP-A01
355	2877	7	S95T002162			K-A-01				570.4827		1352.0000	10/31/95	13:04		0.3	@ICP-A01
356	2877	7	S95T002162			LA-A-01			<	67.8000		1352.0000	10/31/95	13:04		0.05	@ICP-A01
357	2877	7	S95T002162			LI-A-01			<	13.5200		1352.0000	10/31/95	13:04		0.01	@ICP-A01
358	2877	7	S95T002162			MG-A-01				685.8810		1352.0000	10/31/95	13:04		0.1	@ICP-A01
359	2877	7	S95T002162			MN-A-01				70.8112		1352.0000	10/31/95	13:04		0.01	@ICP-A01
360	2877	7	S95T002162			MO-A-01			<	67.8000		1352.0000	10/31/95	13:04		0.05	@ICP-A01
361	2877	7	S95T002162			NA-A-01				217186.1406		1352.0000	10/31/95	13:04		0.1	@ICP-A01
362	2877	7	S95T002162			ND-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
363	2877	7	S95T002162			NI-A-01				287.1411		1352.0000	10/31/95	13:04		0.02	@ICP-A01
364	2877	7	S95T002162			P-A-01				2343.7795		1352.0000	10/31/95	13:04		0.2	@ICP-A01
365	2877	7	S95T002162			PB-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
366	2877	7	S95T002162			S-A-01				3521.6343		1352.0000	10/31/95	13:04		0.05	@ICP-A01
367	2877	7	S95T002162			SB-A-01			<	270.4000		1352.0000	10/31/95	13:04		0.2	@ICP-A01
368	2877	7	S95T002162			SE-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
369	2877	7	S95T002162			SI-A-01				315.7552		1352.0000	10/31/95	13:04		0.05	@ICP-A01
370	2877	7	S95T002162			SM-A-01			<	135.2000		1352.0000	10/31/95	13:04		0.1	@ICP-A01
371	2877	7	S95T002162			SR-A-01				101.8869		1352.0000	10/31/95	13:04		0.01	@ICP-A01
372	2877	7	S95T002162			TI-A-01				178.7624		1352.0000	10/31/95	13:04		0.01	@ICP-A01
373	2877	7	S95T002162			TL-A-01			<	270.4000		1352.0000	10/31/95	13:04		0.2	@ICP-A01
374	2877	7	S95T002162			U-A-01			<	540.8000		1352.0000	10/31/95	13:04		0.4	@ICP-A01
375	2877	7	S95T002162			V-A-01			<	67.8000		1352.0000	10/31/95	13:04		0.05	@ICP-A01
376	2877	7	S95T002162			ZN-A-01				30.5720		1352.0000	10/31/95	13:04		0.01	@ICP-A01
377	2877	7	S95T002162			ZR-A-01				20.8736		1352.0000	10/31/95	13:04		0.01	@ICP-A01
378	2877	8	S95T002162	DUP		AG-A-01		<13.5200		<13.5500		1355.0000	10/31/95	13:07		0.01	@ICP-A01
379	2877	8	S95T002162	DUP		AL-A-01		34551.8164		55804.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
380	2877	8	S95T002162	DUP		AS-A-01		<67.8000		<67.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
381	2877	8	S95T002162	DUP		B-A-01		<67.8000		<67.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
382	2877	8	S95T002162	DUP		BA-A-01		257.1438		409.7418		1355.0000	10/31/95	13:07		0.05	@ICP-A01
383	2877	8	S95T002162	DUP		BE-A-01		<8.7800		<8.7750		1355.0000	10/31/95	13:07		0.005	@ICP-A01
384	2877	8	S95T002162	DUP		BI-A-01		<135.2000		<135.5000		1355.0000	10/31/95	13:07		0.1	@ICP-A01
385	2877	8	S95T002162	DUP		CA-A-01		2838.4473		4424.7705		1355.0000	10/31/95	13:07		0.1	@ICP-A01
386	2877	8	S95T002162	DUP		CD-A-01		<13.5200		<13.5500		1355.0000	10/31/95	13:07		0.01	@ICP-A01
387	2877	8	S95T002162	DUP		CE-A-01		<135.2000		<135.5000		1355.0000	10/31/95	13:07		0.1	@ICP-A01
388	2877	8	S95T002162	DUP		CO-A-01		<27.0400		<27.1000		1355.0000	10/31/95	13:07		0.02	@ICP-A01
389	2877	8	S95T002162	DUP		CR-A-01		114.5430		166.8133		1355.0000	10/31/95	13:07		0.01	@ICP-A01
390	2877	8	S95T002162	DUP		CU-A-01		<13.5200		<13.5500		1355.0000	10/31/95	13:07		0.01	@ICP-A01
391	2877	8	S95T002162	DUP		FE-A-01		3135.8750		5114.3315		1355.0000	10/31/95	13:07		0.05	@ICP-A01
392	2877	8	S95T002162	DUP		K-A-01		570.4827		847.5849		1355.0000	10/31/95	13:07		0.3	@ICP-A01
393	2877	8	S95T002162	DUP		LA-A-01		<67.8000		<67.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
394	2877	8	S95T002162	DUP		LI-A-01		<13.5200		<13.5500		1355.0000	10/31/95	13:07		0.01	@ICP-A01
395	2877	8	S95T002162	DUP		MG-A-01		685.8810		1109.9597		1355.0000	10/31/95	13:07		0.1	@ICP-A01
396	2877	8	S95T002162	DUP		MN-A-01		70.8112		113.9473		1355.0000	10/31/95	13:07		0.01	@ICP-A01
397	2877	8	S95T002162	DUP		MO-A-01		<67.8000		<67.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
398	2877	8	S95T002162	DUP		NA-A-01		217186.1406		187433.4844		1355.0000	10/31/95	13:07		0.1	@ICP-A01
399	2877	8	S95T002162	DUP		ND-A-01		<135.2000		<135.5000		1355.0000	10/31/95	13:07		0.1	@ICP-A01
400	2877	8	S95T002162	DUP		NI-A-01		287.1411		389.9585		1355.0000	10/31/95	13:07		0.02	@ICP-A01
401	2877	8	S95T002162	DUP		P-A-01		2343.7795		4142.8657		1355.0000	10/31/95	13:07		0.2	@ICP-A01
402	2877	8	S95T002162	DUP		PB-A-01		<135.2000		165.0136		1355.0000	10/31/95	13:07		0.1	@ICP-A01
403	2877	8	S95T002162	DUP		S-A-01		3521.6343		3294.4805		1355.0000	10/31/95	13:07		0.05	@ICP-A01
404	2877	8	S95T002162	DUP		SB-A-01		<270.4000		<271.0000		1355.0000	10/31/95	13:07		0.2	@ICP-A01
405	2877	8	S95T002162	DUP		SE-A-01		<135.2000		<135.5000		1355.0000	10/31/95	13:07		0.1	@ICP-A01
406	2877	8	S95T002162	DUP		SI-A-01		315.7552		282.2214		1355.0000	10/31/95	13:07		0.05	@ICP-A01
407	2877	8	S95T002162	DUP		SM-A-01		<135.2000		<135.5000		1355.0000	10/31/95	13:07		0.1	@ICP-A01
408	2877	8	S95T002162	DUP		SR-A-01		101.8869		163.4995		1355.0000	10/31/95	13:07		0.01	@ICP-A01
409	2877	8	S95T002162	DUP		TI-A-01		178.7624		282.3297		1355.0000	10/31/95	13:07		0.01	@ICP-A01
410	2877	8	S95T002162	DUP		TL-A-01		<270.4000		<271.0000		1355.0000	10/31/95	13:07		0.2	@ICP-A01
411	2877	8	S95T002162	DUP		U-A-01		<540.8000		<542.0000		1355.0000	10/31/95	13:07		0.4	@ICP-A01
412	2877	8	S95T002162	DUP		V-A-01		<67.8000		<67.7500		1355.0000	10/31/95	13:07		0.05	@ICP-A01
413	2877	8	S95T002162	DUP		ZN-A-01		30.5720		40.2874		1355.0000	10/31/95	13:07		0.01	@ICP-A01
414	2877	8	S95T002162	DUP		ZR-A-01		20.8736		35.1896		1355.0000	10/31/95	13:07		0.01	@ICP-A01
415	2877	9	S95T002162_S		SPK-PREDIG	AG-A-01			114.8	109.5455		1148.0000	10/31/95	13:10		0.01	@ICP-A01
416	2877	9	S95T002162_S		SPK-PREDIG	AL-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.05	@ICP-A01
417	2877	9	S95T002162_S		SPK-PREDIG	AS-A-01			574	538.0237		1148.0000	10/31/95	13:10		0.05	@ICP-A01
418	2877	9	S95T002162_S		SPK-PREDIG	B-A-01			574	574.0810		1148.0000	10/31/95	13:10		0.05	@ICP-A01
419	2877	9	S95T002162_S		SPK-PREDIG	BA-A-01			574	621.3893		1148.0000	10/31/95	13:10		0.05	@ICP-A01
420	2877	9	S95T002162_S		SPK-PREDIG	BE-A-01			574	553.9922		1148.0000	10/31/95	13:10		0.005	@ICP-A01
421	2877	9	S95T002162_S		SPK-PREDIG	BI-A-01			574	585.9894		1148.0000	10/31/95	13:10		0.1	@ICP-A01
422	2877	9	S95T002162_S		SPK-PREDIG	CA-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.1	@ICP-A01
423	2877	9	S95T002162_S		SPK-PREDIG	CD-A-01			574	542.9978		1148.0000	10/31/95	13:10		0.01	@ICP-A01
424	2877	9	S95T002162_S		SPK-PREDIG	CE-A-01			574	557.3438		1148.0000	10/31/95	13:10		0.1	@ICP-A01
425	2877	9	S95T002162_S		SPK-PREDIG	CO-A-01			574	545.1093		1148.0000	10/31/95	13:10		0.02	@ICP-A01
426	2877	9	S95T002162_S		SPK-PREDIG	CR-A-01			574	566.8383		1148.0000	10/31/95	13:10		0.01	@ICP-A01
427	2877	9	S95T002162_S		SPK-PREDIG	CU-A-01			574	541.8432		1148.0000	10/31/95	13:10		0.01	@ICP-A01
428	2877	9	S95T002162_S		SPK-PREDIG	FE-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.05	@ICP-A01
429	2877	9	S95T002162_S		SPK-PREDIG	K-A-01			574	518.7938		1148.0000	10/31/95	13:10		0.3	@ICP-A01
430	2877	9	S95T002162_S		SPK-PREDIG	LA-A-01			574	564.0483		1148.0000	10/31/95	13:10		0.05	@ICP-A01
431	2877	9	S95T002162_S		SPK-PREDIG	LI-A-01			574	552.5579		1148.0000	10/31/95	13:10		0.01	@ICP-A01
432	2877	9	S95T002162_S		SPK-PREDIG	MG-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.1	@ICP-A01
433	2877	9	S95T002162_S		SPK-PREDIG	MN-A-01			574	540.1909		1148.0000	10/31/95	13:10		0.01	@ICP-A01
434	2877	9	S95T002162_S		SPK-PREDIG	MO-A-01			574	547.8990		1148.0000	10/31/95	13:10		0.05	@ICP-A01
435	2877	9	S95T002162_S		SPK-PREDIG	NA-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.1	@ICP-A01
436	2877	9	S95T002162_S		SPK-PREDIG	ND-A-01			574	560.5841		1148.0000	10/31/95	13:10		0.1	@ICP-A01
437	2877	9	S95T002162_S		SPK-PREDIG	NI-A-01			574	603.0122		1148.0000	10/31/95	13:10		0.02	@ICP-A01
438	2877	9	S95T002162_S		SPK-PREDIG	P-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.2	@ICP-A01
439	2877	9	S95T002162_S		SPK-PREDIG	PB-A-01			574	579.0002		1148.0000	10/31/95	13:10		0.1	@ICP-A01
440	2877	9	S95T002162_S		SPK-PREDIG	S-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.05	@ICP-A01
441	2877	9	S95T002162_S		SPK-PREDIG	SB-A-01			574	328.2124		1148.0000	10/31/95	13:10		0.2	@ICP-A01
442	2877	9	S95T002162_S		SPK-PREDIG	SE-A-01			574	560.7341		1148.0000	10/31/95	13:10		0.1	@ICP-A01
443	2877	9	S95T002162_S		SPK-PREDIG	SI-A-01		n/a		n/a		1148.0000	10/31/95	13:10		0.05	@ICP-A01
444	2877	9	S95T002162_S		SPK-PREDIG	SM-A-01			574	532.7098		1148.0000	10/31/95	13:10		0.1	@ICP-A01
445	2877	9	S95T002162_S		SPK-PREDIG	SR-A-01			574	578.0320		1148.0000	10/31/95	13:10		0.01	@ICP-A01
446	2877	9	S95T002162_S		SPK-PREDIG	TI-A-01			574	586.1001		1148.0000	10/31/95	13:10		0.01	@ICP-A01
447	2877	9	S95T002162_S		SPK-PREDIG	TL-A-01			574	541.2181		1148.0000	10/31/95	13:10		0.2	@ICP-A01
448	2877	9	S95T002162_S		SPK-PREDIG	U-A-01			1148	1155.3032		1148.0000	10/31/95	13:10		0.4	@ICP-A01
449	2877	9	S95T002162_S		SPK-PREDIG	V-A-01			574	532.3481		1148.0000	10/31/95	13:10		0.05	@ICP-A01
450	2877	9	S95T002162_S		SPK-PREDIG	ZN-A-01			574	541.0340		1148.0000	10/31/95	13:10		0.01	@ICP-A01
451	2877	9	S95T002162_S		SPK-PREDIG	ZR-A-01			574	498.1648		1148.0000	10/31/95	13:10		0.01	@ICP-A01
452	2877	10			CCV	AG				5.1051		1.0000	10/31/95	13:14		0.01	@ICP-QC
453	2877	10			CCV	AL				5.1277		1.0000	10/31/95	13:14		0.05	@ICP-QC
454	2877	10			CCV	AS				5.3042		1.0000	10/31/95	13:14		0.05	@ICP-QC
455	2877	10			CCV	B				5.0935		1.0000	10/31/95	13:14		0.05	@ICP-QC
456	2877	10			CCV	BA				5.1177		1.0000	10/31/95	13:14		0.05	@ICP-QC
457	2877	10			CCV	BE				5.3456		1.0000	10/31/95	13:14		0.005	@ICP-QC
458	2877	10			CCV	BI				5.1747		1.0000	10/31/95	13:14		0.1	@ICP-QC
459	2877	10			CCV	CA				5.2575		1.0000	10/31/95	13:14		0.1	@ICP-QC
460	2877	10			CCV	CD				5.1861		1.0000	10/31/95	13:14		0.01	@ICP-QC
461	2877	10			CCV	CE				5.2555		1.0000	10/31/95	13:14		0.1	@ICP-QC
462	2877	10			CCV	CO				5.1700		1.0000	10/31/95	13:14		0.02	@ICP-QC
463	2877	10			CCV	CR				5.2423		1.0000	10/31/95	13:14		0.01	@ICP-QC
464	2877	10			CCV	CU				5.2573		1.0000	10/31/95	13:14		0.01	@ICP-QC
465	2877	10			CCV	EU				0.0065		1.0000	10/31/95	13:14		0.05	@ICP-QC
466	2877	10			CCV	FE				5.2386		1.0000	10/31/95	13:14		0.05	@ICP-QC

WMC-CD-WM-DP/WS, REV. /

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	2877	10			CCV	K				5.0240		1.0000	10/31/95	13:14	bjg	0.3	@ICP-QC
368	2877	10			CCV	LA				5.2097		1.0000	10/31/95	13:14	bjg	0.05	@ICP-QC
369	2877	10			CCV	LI				5.2081		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
370	2877	10			CCV	MG				5.1429		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
371	2877	10			CCV	MN				5.0719		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
372	2877	10			CCV	MO				5.2158		1.0000	10/31/95	13:14	bjg	0.05	@ICP-QC
373	2877	10			CCV	NA				5.1488		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
374	2877	10			CCV	ND				5.3827		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
375	2877	10			CCV	NI				5.1817		1.0000	10/31/95	13:14	bjg	0.02	@ICP-QC
376	2877	10			CCV	P				5.4238		1.0000	10/31/95	13:14	bjg	0.2	@ICP-QC
377	2877	10			CCV	PB				5.1758		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
378	2877	10			CCV	S				5.2177		1.0000	10/31/95	13:14	bjg	0.05	@ICP-QC
379	2877	10			CCV	SB				4.9004		1.0000	10/31/95	13:14	bjg	0.2	@ICP-QC
380	2877	10			CCV	SE				5.2080		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
381	2877	10			CCV	SI				5.1170		1.0000	10/31/95	13:14	bjg	0.05	@ICP-QC
382	2877	10			CCV	SM				5.2410		1.0000	10/31/95	13:14	bjg	0.1	@ICP-QC
383	2877	10			CCV	SR				5.1440		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
384	2877	10			CCV	TH				0.0232		1.0000	10/31/95	13:14	bjg	0	@ICP-QC
385	2877	10			CCV	TI				5.0454		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
386	2877	10			CCV	TL				5.1475		1.0000	10/31/95	13:14	bjg	0.2	@ICP-QC
387	2877	10			CCV	U				10.2819		1.0000	10/31/95	13:14	bjg	0.4	@ICP-QC
388	2877	10			CCV	V				5.1535		1.0000	10/31/95	13:14	bjg	0.05	@ICP-QC
389	2877	10			CCV	Y				0.0093		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
390	2877	10			CCV	ZN				5.1523		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
391	2877	10			CCV	ZR				5.1226		1.0000	10/31/95	13:14	bjg	0.01	@ICP-QC
392	2877	11			CCB	AG				0.0007		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
393	2877	11			CCB	AL				0.0060		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
394	2877	11			CCB	AS				-0.0198		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
395	2877	11			CCB	B				0.0029		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
396	2877	11			CCB	BA				-0.0001		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
397	2877	11			CCB	BE				0.0002		1.0000	10/31/95	13:17	bjg	0.005	@ICP-QC
398	2877	11			CCB	BI				0.0060		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
399	2877	11			CCB	CA				0.0013		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
400	2877	11			CCB	CD				-0.0004		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
401	2877	11			CCB	CE				-0.0023		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
402	2877	11			CCB	CO				-0.0009		1.0000	10/31/95	13:17	bjg	0.02	@ICP-QC
403	2877	11			CCB	CR				-0.0001		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
404	2877	11			CCB	CU				0.0002		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
405	2877	11			CCB	EU				-0.0015		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
406	2877	11			CCB	FE				-0.0008		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
407	2877	11			CCB	K				-0.0285		1.0000	10/31/95	13:17	bjg	0.3	@ICP-QC
408	2877	11			CCB	LA				0.0004		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
409	2877	11			CCB	LI				-0.0009		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
410	2877	11			CCB	MG				0.0019		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
411	2877	11			CCB	MN				-0.0003		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
412	2877	11			CCB	MO				0.0007		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
413	2877	11			CCB	NA				-0.0106		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
414	2877	11			CCB	ND				-0.0031		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
415	2877	11			CCB	NI				-0.0046		1.0000	10/31/95	13:17	bjg	0.02	@ICP-QC
416	2877	11			CCB	P				0.0057		1.0000	10/31/95	13:17	bjg	0.2	@ICP-QC
417	2877	11			CCB	PB				0.0038		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
418	2877	11			CCB	S				-0.0049		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
419	2877	11			CCB	SB				0.0045		1.0000	10/31/95	13:17	bjg	0.2	@ICP-QC
420	2877	11			CCB	SE				0.0198		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
421	2877	11			CCB	SI				-0.0112		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
422	2877	11			CCB	SM				-0.0144		1.0000	10/31/95	13:17	bjg	0.1	@ICP-QC
423	2877	11			CCB	SR				-0.0002		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
424	2877	11			CCB	TH				0.0027		1.0000	10/31/95	13:17	bjg	0	@ICP-QC
425	2877	11			CCB	TI				-0.0002		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
426	2877	11			CCB	TL				0.0270		1.0000	10/31/95	13:17	bjg	0.2	@ICP-QC
427	2877	11			CCB	U				-0.0489		1.0000	10/31/95	13:17	bjg	0.4	@ICP-QC
428	2877	11			CCB	V				-0.0026		1.0000	10/31/95	13:17	bjg	0.05	@ICP-QC
429	2877	11			CCB	Y				-0.0009		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
430	2877	11			CCB	ZN				-0.0006		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
431	2877	11			CCB	ZR				-0.0018		1.0000	10/31/95	13:17	bjg	0.01	@ICP-QC
432	2877	12	S95T002163			AG-A-01			<	13.5900		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
433	2877	12	S95T002163			AL-A-01				42746.7852		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
434	2877	12	S95T002163			AS-A-01			<	67.9500		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
435	2877	12	S95T002163			B-A-01			<	67.9500		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
436	2877	12	S95T002163			BA-A-01				340.2686		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
437	2877	12	S95T002163			BE-A-01			<	6.7950		1350.0000	10/31/95	13:23	bjg	0.005	@ICP-A01
438	2877	12	S95T002163			BI-A-01			<	135.9000		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
439	2877	12	S95T002163			CA-A-01				2827.2373		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
440	2877	12	S95T002163			CD-A-01			<	13.5900		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
441	2877	12	S95T002163			CE-A-01			<	135.9000		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
442	2877	12	S95T002163			CO-A-01			<	27.1800		1350.0000	10/31/95	13:23	bjg	0.02	@ICP-A01
443	2877	12	S95T002163			CR-A-01				129.5899		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
444	2877	12	S95T002163			CU-A-01			<	13.5900		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
445	2877	12	S95T002163			FE-A-01				3198.5898		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
446	2877	12	S95T002163			K-A-01				1263.1614		1350.0000	10/31/95	13:23	bjg	0.3	@ICP-A01
447	2877	12	S95T002163			LA-A-01			<	67.9500		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
448	2877	12	S95T002163			LI-A-01			<	13.5900		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
449	2877	12	S95T002163			MG-A-01				680.4843		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
450	2877	12	S95T002163			MN-A-01				88.4962		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
451	2877	12	S95T002163			MO-A-01			<	67.9500		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
452	2877	12	S95T002163			NA-A-01				191038.0313		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
453	2877	12	S95T002163			ND-A-01			<	135.9000		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
454	2877	12	S95T002163			NI-A-01				275.0295		1350.0000	10/31/95	13:23	bjg	0.02	@ICP-A01
455	2877	12	S95T002163			P-A-01				6399.9834		1350.0000	10/31/95	13:23	bjg	0.2	@ICP-A01
456	2877	12	S95T002163			PB-A-01				151.6443		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
457	2877	12	S95T002163			S-A-01				5847.8882		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
458	2877	12	S95T002163			SB-A-01			<	271.8000		1350.0000	10/31/95	13:23	bjg	0.2	@ICP-A01
459	2877	12	S95T002163			SE-A-01			<	135.9000		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
460	2877	12	S95T002163			SI-A-01				287.9550		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
461	2877	12	S95T002163			SM-A-01			<	135.9000		1350.0000	10/31/95	13:23	bjg	0.1	@ICP-A01
462	2877	12	S95T002163			SR-A-01				104.1288		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
463	2877	12	S95T002163			TI-A-01				196.0140		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
464	2877	12	S95T002163			TL-A-01			<	271.8000		1350.0000	10/31/95	13:23	bjg	0.2	@ICP-A01
465	2877	12	S95T002163			U-A-01			<	543.6000		1350.0000	10/31/95	13:23	bjg	0.4	@ICP-A01
466	2877	12	S95T002163			V-A-01				67.9500		1350.0000	10/31/95	13:23	bjg	0.05	@ICP-A01
467	2877	12	S95T002163			ZN-A-01				32.2433		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
468	2877	12	S95T002163			ZR-A-01				15.9595		1350.0000	10/31/95	13:23	bjg	0.01	@ICP-A01
469	2877	13	S95T002163		DUP	AG-A-01		<13.5800		<15.0000		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
470	2877	13	S95T002163		DUP	AL-A-01		42746.7852		41700.6289		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
471	2877	13	S95T002163		DUP	AS-A-01		<67.9500		<75.0000		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
472	2877	13	S95T002163		DUP	B-A-01		<67.9500		<75.0000		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
473	2877	13	S95T002163		DUP	BA-A-01		340.2686		329.5367		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
474	2877	13	S95T002163		DUP	BE-A-01		<6.7950		<7.5000		1800.0000	10/31/95	13:27	bjg	0.005	@ICP-A01
475	2877	13	S95T002163		DUP	BI-A-01		<135.9000		<150.0000		1800.0000	10/31/95	13:27	bjg	0.1	@ICP-A01
476	2877	13	S95T002163		DUP	CA-A-01		2827.2373		2744.3892		1800.0000	10/31/95	13:27	bjg	0.1	@ICP-A01
477	2877	13	S95T002163		DUP	CD-A-01		<13.5800		<15.0000		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
478	2877	13	S95T002163		DUP	CE-A-01		<135.9000		<150.0000		1800.0000	10/31/95	13:27	bjg	0.1	@ICP-A01
479	2877	13	S95T002163		DUP	CO-A-01		<27.1800		<30.0000		1800.0000	10/31/95	13:27	bjg	0.02	@ICP-A01
480	2877	13	S95T002163		DUP	CR-A-01		129.5899		123.2480		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
481	2877	13	S95T002163		DUP	CU-A-01		<13.5800		<15.0000		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
482	2877	13	S95T002163		DUP	FE-A-01		3198.5898		3146.7720		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
483	2877	13	S95T002163		DUP	K-A-01		1263.1614		1019.8644		1800.0000	10/31/95	13:27	bjg	0.3	@ICP-A01
484	2877	13	S95T002163		DUP	LA-A-01		<67.9500		<75.0000		1800.0000	10/31/95	13:27	bjg	0.05	@ICP-A01
485	2877	13	S95T002163		DUP	LI-A-01		<13.5800		<15.0000		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
486	2877	13	S95T002163		DUP	MG-A-01		680.4843		675.8843		1800.0000	10/31/95	13:27	bjg	0.1	@ICP-A01
487	2877	13	S95T002163		DUP	MN-A-01		88.4962		86.5803		1800.0000	10/31/95	13:27	bjg	0.01	@ICP-A01
488	2877	13	S95T002163		DUP	MO-A-01		<67.9500		<75.0000		1500.0000	10/31/95	13:27	bjg	0.05	@ICP-A01

ICP-CD-WM-DP-145, REV. 1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
489	2877	13	895T002163		DUP	NA-A-01		191038.0313		194267.0638		1500.0000	10/31/95	13:27		0.1	@ICP-A01
490	2877	13	895T002163		DUP	ND-A-01		<135.9000		<150.0000		1500.0000	10/31/95	13:27		0.1	@ICP-A01
491	2877	13	895T002163		DUP	NI-A-01		275.0295		287.8193		1500.0000	10/31/95	13:27		0.02	@ICP-A01
492	2877	13	895T002163		DUP	P-A-01		6309.9834		4845.1680		1500.0000	10/31/95	13:27		0.2	@ICP-A01
493	2877	13	895T002163		DUP	PB-A-01		151.8443		193.0738		1500.0000	10/31/95	13:27		0.1	@ICP-A01
494	2877	13	895T002163		DUP	S-A-01		5847.9662		5628.3389		1500.0000	10/31/95	13:27		0.05	@ICP-A01
495	2877	13	895T002163		DUP	SB-A-01		<271.8000		<300.0000		1500.0000	10/31/95	13:27		0.2	@ICP-A01
496	2877	13	895T002163		DUP	SE-A-01		<135.9000		<150.0000		1500.0000	10/31/95	13:27		0.1	@ICP-A01
497	2877	13	895T002163		DUP	SI-A-01		287.9550		279.3307		1500.0000	10/31/95	13:27		0.05	@ICP-A01
498	2877	13	895T002163		DUP	SM-A-01		<135.9000		<150.0000		1500.0000	10/31/95	13:27		0.1	@ICP-A01
499	2877	13	895T002163		DUP	SR-A-01		104.1288		102.1284		1500.0000	10/31/95	13:27		0.01	@ICP-A01
500	2877	13	895T002163		DUP	TI-A-01		199.0140		193.8451		1500.0000	10/31/95	13:27		0.01	@ICP-A01
501	2877	13	895T002163		DUP	TL-A-01		<271.8000		<300.0000		1500.0000	10/31/95	13:27		0.2	@ICP-A01
502	2877	13	895T002163		DUP	U-A-01		<543.6000		<600.0000		1500.0000	10/31/95	13:27		0.4	@ICP-A01
503	2877	13	895T002163		DUP	V-A-01		<67.9500		<75.0000		1500.0000	10/31/95	13:27		0.05	@ICP-A01
504	2877	13	895T002163		DUP	ZN-A-01		32.2433		33.7604		1500.0000	10/31/95	13:27		0.01	@ICP-A01
505	2877	13	895T002163		DUP	ZR-A-01		15.9595		<15.0000		1500.0000	10/31/95	13:27		0.01	@ICP-A01
506	2877	14	895T002164			AG-A-01			<	10.5700		1057.0000	10/31/95	13:34		0.01	@ICP-A01
507	2877	14	895T002164			AL-A-01				36780.6094		1057.0000	10/31/95	13:34		0.05	@ICP-A01
508	2877	14	895T002164			AS-A-01			<	52.8500		1057.0000	10/31/95	13:34		0.05	@ICP-A01
509	2877	14	895T002164			B-A-01			<	52.8500		1057.0000	10/31/95	13:34		0.05	@ICP-A01
510	2877	14	895T002164			BA-A-01				143.8734		1057.0000	10/31/95	13:34		0.05	@ICP-A01
511	2877	14	895T002164			BE-A-01			<	5.2850		1057.0000	10/31/95	13:34		0.005	@ICP-A01
512	2877	14	895T002164			BI-A-01			<	105.7000		1057.0000	10/31/95	13:34		0.1	@ICP-A01
513	2877	14	895T002164			CA-A-01				1700.1991		1057.0000	10/31/95	13:34		0.1	@ICP-A01
514	2877	14	895T002164			CD-A-01			<	10.5700		1057.0000	10/31/95	13:34		0.01	@ICP-A01
515	2877	14	895T002164			CE-A-01			<	105.7000		1057.0000	10/31/95	13:34		0.1	@ICP-A01
516	2877	14	895T002164			CO-A-01			<	21.1400		1057.0000	10/31/95	13:34		0.02	@ICP-A01
517	2877	14	895T002164			CR-A-01				136.3678		1057.0000	10/31/95	13:34		0.01	@ICP-A01
518	2877	14	895T002164			CU-A-01			<	10.5700		1057.0000	10/31/95	13:34		0.01	@ICP-A01
519	2877	14	895T002164			FE-A-01				2210.2856		1057.0000	10/31/95	13:34		0.05	@ICP-A01
520	2877	14	895T002164			K-A-01				1274.0453		1057.0000	10/31/95	13:34		0.3	@ICP-A01
521	2877	14	895T002164			LA-A-01			<	52.8500		1057.0000	10/31/95	13:34		0.05	@ICP-A01
522	2877	14	895T002164			LI-A-01			<	10.5700		1057.0000	10/31/95	13:34		0.01	@ICP-A01
523	2877	14	895T002164			MG-A-01				460.9602		1057.0000	10/31/95	13:34		0.1	@ICP-A01
524	2877	14	895T002164			MN-A-01				40.8955		1057.0000	10/31/95	13:34		0.01	@ICP-A01
525	2877	14	895T002164			MO-A-01			<	52.8500		1057.0000	10/31/95	13:34		0.05	@ICP-A01
526	2877	14	895T002164			NA-A-01				182998.5625		1057.0000	10/31/95	13:34		0.1	@ICP-A01
527	2877	14	895T002164			ND-A-01			<	105.7000		1057.0000	10/31/95	13:34		0.1	@ICP-A01
528	2877	14	895T002164			NI-A-01				432.4795		1057.0000	10/31/95	13:34		0.02	@ICP-A01
529	2877	14	895T002164			P-A-01				2047.0345		1057.0000	10/31/95	13:34		0.2	@ICP-A01
530	2877	14	895T002164			PB-A-01				125.9321		1057.0000	10/31/95	13:34		0.1	@ICP-A01
531	2877	14	895T002164			S-A-01				5155.4009		1057.0000	10/31/95	13:34		0.05	@ICP-A01
532	2877	14	895T002164			SB-A-01			<	211.4000		1057.0000	10/31/95	13:34		0.2	@ICP-A01
533	2877	14	895T002164			SE-A-01			<	105.7000		1057.0000	10/31/95	13:34		0.1	@ICP-A01
534	2877	14	895T002164			SI-A-01				220.9281		1057.0000	10/31/95	13:34		0.05	@ICP-A01
535	2877	14	895T002164			SM-A-01			<	105.7000		1057.0000	10/31/95	13:34		0.1	@ICP-A01
536	2877	14	895T002164			SR-A-01				147.9049		1057.0000	10/31/95	13:34		0.01	@ICP-A01
537	2877	14	895T002164			TI-A-01				120.9728		1057.0000	10/31/95	13:34		0.01	@ICP-A01
538	2877	14	895T002164			TL-A-01			<	211.4000		1057.0000	10/31/95	13:34		0.2	@ICP-A01
539	2877	14	895T002164			U-A-01			<	422.8000		1057.0000	10/31/95	13:34		0.4	@ICP-A01
540	2877	14	895T002164			V-A-01			<	52.8500		1057.0000	10/31/95	13:34		0.05	@ICP-A01
541	2877	14	895T002164			ZN-A-01				31.2886		1057.0000	10/31/95	13:34		0.01	@ICP-A01
542	2877	14	895T002164			ZR-A-01			<	10.5700		1057.0000	10/31/95	13:34		0.01	@ICP-A01
543	2877	15	895T002164		DUP	AG-A-01		<10.5700		<10.2500		1025.0000	10/31/95	13:37		0.01	@ICP-A01
544	2877	15	895T002164		DUP	AL-A-01		36780.6094		32387.3887		1025.0000	10/31/95	13:37		0.05	@ICP-A01
545	2877	15	895T002164		DUP	AS-A-01		<52.8500		<51.2500		1025.0000	10/31/95	13:37		0.05	@ICP-A01
546	2877	15	895T002164		DUP	B-A-01		<52.8500		<51.2500		1025.0000	10/31/95	13:37		0.05	@ICP-A01
547	2877	15	895T002164		DUP	BA-A-01		143.8734		130.7655		1025.0000	10/31/95	13:37		0.05	@ICP-A01
548	2877	15	895T002164		DUP	BE-A-01		<5.2850		<5.1250		1025.0000	10/31/95	13:37		0.005	@ICP-A01
549	2877	15	895T002164		DUP	BI-A-01		<105.7000		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
550	2877	15	895T002164		DUP	CA-A-01		1700.1991		1514.2659		1025.0000	10/31/95	13:37		0.1	@ICP-A01
551	2877	15	895T002164		DUP	CD-A-01		<10.5700		<10.2500		1025.0000	10/31/95	13:37		0.01	@ICP-A01
552	2877	15	895T002164		DUP	CE-A-01		<105.7000		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
553	2877	15	895T002164		DUP	CO-A-01		<21.1400		<20.5000		1025.0000	10/31/95	13:37		0.02	@ICP-A01
554	2877	15	895T002164		DUP	CR-A-01		136.3678		116.9845		1025.0000	10/31/95	13:37		0.01	@ICP-A01
555	2877	15	895T002164		DUP	CU-A-01		<10.5700		<10.2500		1025.0000	10/31/95	13:37		0.01	@ICP-A01
556	2877	15	895T002164		DUP	FE-A-01		2210.2856		2000.1290		1025.0000	10/31/95	13:37		0.05	@ICP-A01
557	2877	15	895T002164		DUP	K-A-01		1274.0453		1273.4899		1025.0000	10/31/95	13:37		0.3	@ICP-A01
558	2877	15	895T002164		DUP	LA-A-01		<52.8500		<51.2500		1025.0000	10/31/95	13:37		0.05	@ICP-A01
559	2877	15	895T002164		DUP	LI-A-01		<10.5700		<10.2500		1025.0000	10/31/95	13:37		0.01	@ICP-A01
560	2877	15	895T002164		DUP	MG-A-01		460.9602		399.3403		1025.0000	10/31/95	13:37		0.1	@ICP-A01
561	2877	15	895T002164		DUP	MN-A-01		40.8955		34.7144		1025.0000	10/31/95	13:37		0.01	@ICP-A01
562	2877	15	895T002164		DUP	MO-A-01		<52.8500		<51.2500		1025.0000	10/31/95	13:37		0.05	@ICP-A01
563	2877	15	895T002164		DUP	NA-A-01		182998.5625		188298.8125		1025.0000	10/31/95	13:37		0.1	@ICP-A01
564	2877	15	895T002164		DUP	ND-A-01		<105.7000		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
565	2877	15	895T002164		DUP	NI-A-01		432.4795		385.8053		1025.0000	10/31/95	13:37		0.02	@ICP-A01
566	2877	15	895T002164		DUP	P-A-01		2047.0345		3445.2212		1025.0000	10/31/95	13:37		0.2	@ICP-A01
567	2877	15	895T002164		DUP	PB-A-01		125.9321		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
568	2877	15	895T002164		DUP	S-A-01		5155.4009		4819.2974		1025.0000	10/31/95	13:37		0.05	@ICP-A01
569	2877	15	895T002164		DUP	SB-A-01		<211.4000		<205.0000		1025.0000	10/31/95	13:37		0.2	@ICP-A01
570	2877	15	895T002164		DUP	SE-A-01		<105.7000		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
571	2877	15	895T002164		DUP	SI-A-01		220.9281		245.1788		1025.0000	10/31/95	13:37		0.05	@ICP-A01
572	2877	15	895T002164		DUP	SM-A-01		<105.7000		<102.5000		1025.0000	10/31/95	13:37		0.1	@ICP-A01
573	2877	15	895T002164		DUP	SR-A-01		147.9049		130.1489		1025.0000	10/31/95	13:37		0.01	@ICP-A01
574	2877	15	895T002164		DUP	TI-A-01		120.9728		109.1980		1025.0000	10/31/95	13:37		0.01	@ICP-A01
575	2877	15	895T002164		DUP	TL-A-01		<211.4000		<205.0000		1025.0000	10/31/95	13:37		0.2	@ICP-A01
576	2877	15	895T002164		DUP	U-A-01		<422.8000		<410.0000		1025.0000	10/31/95	13:37		0.4	@ICP-A01
577	2877	15	895T002164		DUP	V-A-01		<52.8500		<51.2500		1025.0000	10/31/95	13:37		0.05	@ICP-A01
578	2877	15	895T002164		DUP	ZN-A-01		31.2886		30.2983		1025.0000	10/31/95	13:37		0.01	@ICP-A01
579	2877	15	895T002164		DUP	ZR-A-01		<10.5700		<10.2500		1025.0000	10/31/95	13:37		0.01	@ICP-A01
580	2877	16			ICSA	AG				-0.0123		1.0000	10/31/95	13:41		0.01	@ICP-QC
581	2877	16			ICSA	AL				248.1340		1.0000	10/31/95	13:41		0.05	@ICP-QC
582	2877	16			ICSA	AS				-0.0800		1.0000	10/31/95	13:41		0.05	@ICP-QC
583	2877	16			ICSA	B				-0.0004		1.0000	10/31/95	13:41		0.05	@ICP-QC
584	2877	16			ICSA	BA				0.0031		1.0000	10/31/95	13:41		0.05	@ICP-QC
585	2877	16			ICSA	BE				0.0002		1.0000	10/31/95	13:41		0.005	@ICP-QC
586	2877	16			ICSA	BI				-0.0120		1.0000	10/31/95	13:41		0.1	@ICP-QC
587	2877	16			ICSA	CA				251.3747		1.0000	10/31/95	13:41		0.1	@ICP-QC
588	2877	16			ICSA	CD				0.0016		1.0000	10/31/95	13:41		0.01	@ICP-QC
589	2877	16			ICSA	CE				0.0136		1.0000	10/31/95	13:41		0.1	@ICP-QC
590	2877	16			ICSA	CO				0.0007		1.0000	10/31/95	13:41		0.02	@ICP-QC
591	2877	16			ICSA	CR				-0.0037		1.0000	10/31/95	13:41		0.01	@ICP-QC
592	2877	16			ICSA	CU				-0.0080		1.0000	10/31/95	13:41		0.01	@ICP-QC
593	2877	16			ICSA	EU				-0.0112		1.0000	10/31/95	13:41		0.05	@ICP-QC
594	2877	16			ICSA	FE				93.1051		1.0000	10/31/95	13:41		0.05	@ICP-QC
595	2877	16			ICSA	K				0.1874		1.0000	10/31/95	13:41		0.3	@ICP-QC
596	2877	16			ICSA	LA				-0.0026		1.0000	10/31/95	13:41		0.05	@ICP-QC
597	2877	16			ICSA	LI				0.0019		1.0000	10/31/95	13:41		0.01	@ICP-QC
598	2877	16			ICSA	MG				253.4917		1.0000	10/31/95	13:41		0.1	@ICP-QC
599	2877	16			ICSA	MN				-0.0084		1.0000	10/31/95	13:41		0.01	@ICP-QC
600	2877	16			ICSA	MO				-0.0143		1.0000	10/31/95	13:41		0.05	@ICP-QC
601	2877	16			ICSA	NA				199.9285		1.0000	10/31/95	13:41		0.1	@ICP-QC
602	2877	16			ICSA	ND				0.0085		1.0000	10/31/95	13:41		0.1	@ICP-QC
603	2877	16			ICSA	NI				-0.0147		1.0000	10/31/95	13:41		0.02	@ICP-QC
604	2877	16			ICSA	P				0.0374		1.0000	10/31/95	13:41		0.2	@ICP-QC
605	2877	16			ICSA	PB				0.0389		1.0000	10/31/95	13:41		0.1	@ICP-QC
606	2877	16			ICSA	S				0.0280		1.0000	10/31/95	13:41		0.05	@ICP-QC
607	2877	16			ICSA	SB				-0.0004		1.0000	10/31/95	13:41		0.2	@ICP-QC
608	2877	16			ICSA	SE				0.0086		1.0000	10/31/95	13:41		0.1	@ICP-QC
609	2877	16			ICSA	SI				0.0021		1.0000	10/31/95	13:41		0.05	@ICP-QC
610	2877	16			ICSA	SM				-0.0171		1.0000	10/31/95	13:41		0.1	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
611	2877	16			ICSA	SR				-0.0035		1.0000	10/31/95	13:41	bjg	0.01	@ICP-QC
612	2877	16			ICSA	TH				-0.0178		1.0000	10/31/95	13:41	bjg	0	@ICP-QC
613	2877	16			ICSA	TI				0.0014		1.0000	10/31/95	13:41	bjg	0.01	@ICP-QC
614	2877	16			ICSA	TL				0.0688		1.0000	10/31/95	13:41	bjg	0.2	@ICP-QC
615	2877	16			ICSA	U				0.1025		1.0000	10/31/95	13:41	bjg	0.4	@ICP-QC
616	2877	16			ICSA	V				-0.0035		1.0000	10/31/95	13:41	bjg	0.05	@ICP-QC
617	2877	16			ICSA	Y				0.0175		1.0000	10/31/95	13:41	bjg	0.01	@ICP-QC
618	2877	16			ICSA	ZN				0.0024		1.0000	10/31/95	13:41	bjg	0.01	@ICP-QC
619	2877	16			ICSA	ZR				-0.0027		1.0000	10/31/95	13:41	bjg	0.01	@ICP-QC
620	2877	17			ICSAB	AG				0.9501		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
621	2877	17			ICSAB	AL				248.2460		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
622	2877	17			ICSAB	AS				-0.0802		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
623	2877	17			ICSAB	B				-0.0039		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
624	2877	17			ICSAB	BA				0.4728		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
625	2877	17			ICSAB	BE				0.4889		1.0000	10/31/95	13:43	bjg	0.005	@ICP-QC
626	2877	17			ICSAB	BI				-0.0150		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
627	2877	17			ICSAB	CA				254.5918		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
628	2877	17			ICSAB	CD				0.0508		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
629	2877	17			ICSAB	CE				0.0037		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
630	2877	17			ICSAB	CO				0.4570		1.0000	10/31/95	13:43	bjg	0.02	@ICP-QC
631	2877	17			ICSAB	CR				0.4727		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
632	2877	17			ICSAB	CU				0.4882		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
633	2877	17			ICSAB	EU				-0.0125		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
634	2877	17			ICSAB	FE				93.9822		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
635	2877	17			ICSAB	K				0.1986		1.0000	10/31/95	13:43	bjg	0.3	@ICP-QC
636	2877	17			ICSAB	LA				-0.0030		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
637	2877	17			ICSAB	LI				1.0082		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
638	2877	17			ICSAB	MG				253.5022		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
639	2877	17			ICSAB	MN				0.4481		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
640	2877	17			ICSAB	MO				-0.0104		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
641	2877	17			ICSAB	NA				199.8388		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
642	2877	17			ICSAB	ND				0.0083		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
643	2877	17			ICSAB	NI				0.9005		1.0000	10/31/95	13:43	bjg	0.02	@ICP-QC
644	2877	17			ICSAB	P				0.0121		1.0000	10/31/95	13:43	bjg	0.2	@ICP-QC
645	2877	17			ICSAB	PB				1.0182		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
646	2877	17			ICSAB	S				0.0471		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
647	2877	17			ICSAB	SB				0.0097		1.0000	10/31/95	13:43	bjg	0.2	@ICP-QC
648	2877	17			ICSAB	SE				0.0150		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
649	2877	17			ICSAB	SI				0.0032		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
650	2877	17			ICSAB	SM				-0.0167		1.0000	10/31/95	13:43	bjg	0.1	@ICP-QC
651	2877	17			ICSAB	SR				-0.0043		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
652	2877	17			ICSAB	TH				-0.0128		1.0000	10/31/95	13:43	bjg	0	@ICP-QC
653	2877	17			ICSAB	TI				0.0013		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
654	2877	17			ICSAB	TL				0.0628		1.0000	10/31/95	13:43	bjg	0.2	@ICP-QC
655	2877	17			ICSAB	U				0.0800		1.0000	10/31/95	13:43	bjg	0.4	@ICP-QC
656	2877	17			ICSAB	V				0.4670		1.0000	10/31/95	13:43	bjg	0.05	@ICP-QC
657	2877	17			ICSAB	Y				0.0189		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
658	2877	17			ICSAB	ZN				0.9731		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
659	2877	17			ICSAB	ZR				-0.0028		1.0000	10/31/95	13:43	bjg	0.01	@ICP-QC
660	2877	18			CCV	AG				5.0866		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
661	2877	18			CCV	AL				5.1008		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
662	2877	18			CCV	AS				5.2582		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
663	2877	18			CCV	B				5.0673		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
664	2877	18			CCV	BA				5.0851		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
665	2877	18			CCV	BE				5.3222		1.0000	10/31/95	13:49	bjg	0.005	@ICP-QC
666	2877	18			CCV	BI				5.1950		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
667	2877	18			CCV	CA				5.2512		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
668	2877	18			CCV	CD				5.1508		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
669	2877	18			CCV	CE				5.2242		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
670	2877	18			CCV	CO				5.1297		1.0000	10/31/95	13:49	bjg	0.02	@ICP-QC
671	2877	18			CCV	CR				5.2106		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
672	2877	18			CCV	CU				5.2366		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
673	2877	18			CCV	EU				0.0065		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
674	2877	18			CCV	FE				5.2084		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
675	2877	18			CCV	K				5.0651		1.0000	10/31/95	13:49	bjg	0.3	@ICP-QC
676	2877	18			CCV	LA				5.1800		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
677	2877	18			CCV	LI				5.2344		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
678	2877	18			CCV	MG				5.1010		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
679	2877	18			CCV	MN				5.0361		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
680	2877	18			CCV	MO				5.1841		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
681	2877	18			CCV	NA				5.1648		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
682	2877	18			CCV	ND				5.3551		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
683	2877	18			CCV	NI				5.1518		1.0000	10/31/95	13:49	bjg	0.02	@ICP-QC
684	2877	18			CCV	P				5.3378		1.0000	10/31/95	13:49	bjg	0.2	@ICP-QC
685	2877	18			CCV	PB				5.1381		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
686	2877	18			CCV	S				5.1795		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
687	2877	18			CCV	SB				4.9643		1.0000	10/31/95	13:49	bjg	0.2	@ICP-QC
688	2877	18			CCV	SE				5.1792		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
689	2877	18			CCV	SI				5.0857		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
690	2877	18			CCV	SM				5.2063		1.0000	10/31/95	13:49	bjg	0.1	@ICP-QC
691	2877	18			CCV	SR				5.1213		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
692	2877	18			CCV	TH				0.0289		1.0000	10/31/95	13:49	bjg	0	@ICP-QC
693	2877	18			CCV	TI				5.0222		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
694	2877	18			CCV	TL				5.1076		1.0000	10/31/95	13:49	bjg	0.2	@ICP-QC
695	2877	18			CCV	U				10.2294		1.0000	10/31/95	13:49	bjg	0.4	@ICP-QC
696	2877	18			CCV	V				5.1248		1.0000	10/31/95	13:49	bjg	0.05	@ICP-QC
697	2877	18			CCV	Y				0.0091		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
698	2877	18			CCV	ZN				5.1141		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
699	2877	18			CCV	ZR				5.0805		1.0000	10/31/95	13:49	bjg	0.01	@ICP-QC
700	2877	19			CCB	AG				0.0010		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
701	2877	19			CCB	AL				0.0095		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
702	2877	19			CCB	AS				0.0102		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
703	2877	19			CCB	B				0.0029		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
704	2877	19			CCB	BA				0.0001		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
705	2877	19			CCB	BE				0.0003		1.0000	10/31/95	13:52	bjg	0.005	@ICP-QC
706	2877	19			CCB	BI				0.0394		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
707	2877	19			CCB	CA				0.0000		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
708	2877	19			CCB	CD				-0.0006		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
709	2877	19			CCB	CE				0.0008		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
710	2877	19			CCB	CO				-0.0001		1.0000	10/31/95	13:52	bjg	0.02	@ICP-QC
711	2877	19			CCB	CR				0.0008		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
712	2877	19			CCB	CU				-0.0004		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
713	2877	19			CCB	EU				-0.0011		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
714	2877	19			CCB	FE				-0.0002		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
715	2877	19			CCB	K				-0.1285		1.0000	10/31/95	13:52	bjg	0.3	@ICP-QC
716	2877	19			CCB	LA				0.0006		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
717	2877	19			CCB	LI				-0.0007		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
718	2877	19			CCB	MG				-0.0045		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
719	2877	19			CCB	MN				-0.0000		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
720	2877	19			CCB	MO				0.0000		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
721	2877	19			CCB	NA				-0.0073		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
722	2877	19			CCB	ND				-0.0048		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
723	2877	19			CCB	NI				-0.0011		1.0000	10/31/95	13:52	bjg	0.02	@ICP-QC
724	2877	19			CCB	P				0.0165		1.0000	10/31/95	13:52	bjg	0.2	@ICP-QC
725	2877	19			CCB	PB				0.0057		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
726	2877	19			CCB	S				-0.0055		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
727	2877	19			CCB	SB				0.0071		1.0000	10/31/95	13:52	bjg	0.2	@ICP-QC
728	2877	19			CCB	SE				0.0310		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
729	2877	19			CCB	SI				-0.0094		1.0000	10/31/95	13:52	bjg	0.05	@ICP-QC
730	2877	19			CCB	SM				-0.0080		1.0000	10/31/95	13:52	bjg	0.1	@ICP-QC
731	2877	19			CCB	SR				-0.0001		1.0000	10/31/95	13:52	bjg	0.01	@ICP-QC
732	2877	19			CCB	TH				0.0020		1.0000	10/31/95	13:52	bjg	0	@ICP-QC

MHC-SD-WM-DP-145, REV. 1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
733	2877	19			CCB	TI				-0.0002		1.0000	10/31/95	13:52	blg	0.01	@ICP-QC
734	2877	19			CCB	TL				0.0301		1.0000	10/31/95	13:52	blg	0.2	@ICP-QC
736	2877	19			CCB	U				-0.0302		1.0000	10/31/95	13:52	blg	0.4	@ICP-QC
736	2877	19			CCB	V				-0.0017		1.0000	10/31/95	13:52	blg	0.05	@ICP-QC
737	2877	19			CCB	Y				-0.0006		1.0000	10/31/95	13:52	blg	0.01	@ICP-QC
738	2877	19			CCB	ZN				0.0016		1.0000	10/31/95	13:52	blg	0.01	@ICP-QC
739	2877	19			CCB	ZR				-0.0009		1.0000	10/31/95	13:52	blg	0.01	@ICP-QC

10/31/95

WHC-SD-WM-DP-145, REV. 1

*** RMIS View/Print Document Cover Sheet ***

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Accession #: D196021918

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [INORGANIC ANALYSES] [SEC 3 OF 12]

Pages: 399

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 3 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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LABCORE Data Entry Template for Worklist# 2880

Analyst: D K SATO **Instrument:** ICP01 **Book#** 48B 48B

Method: LA-505-151/161 Rev/Mod D-3

Worklist Comment: ICP BY-108 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDARL				@ICP-A01	SOLID		
6	PREPBLKARL				@ICP-A01	SOLID		
7	SAMPLE	S95T002171	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01			
8	DUP	S95T002171	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T002171	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T002172	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01			

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2880

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T002172	0	A	@ICP-A01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 2880

JK Lab 10-25-95
Analyst Signature Date

Reviewed by:
Samuel M. Parry 10/26/95
Analyst Signature Date

Prep Std QRL 5 mL each, 6 HCl + 2, in 100 mL
Prep Blk QRL Direct

S95T002171_L, .8055 g → 100 mL, 1-4-2-8, (100 x 50)/.8055 = 4207.3
S95T002171 .8055 → 100 1-4 (100 x 10)/.8055 = 1241.5
S95T002171_D .8127 → 100 1-4 (100 x 10)/.8127 = 1230.5
S95T002171_S .8348 → 100 1-4 (100 x 10)/.8348 = 1197.9 JK 10-25-95 ~~1 mL sample + 2 mL STD + 7 mL H2O~~

S95T002172_L, .1448 g → 100 mL, 4-4-2-8, (100 x 10)/.1448 = 5133.5
S95T002172 .1448 → 100 4-4 (100 x 2)/.1448 = 1024.7
S95T002172_D .2074 → 100 4-4 (100 x 2)/.2074 = 963.4

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

I/C. 951023 a

Identity 1: ICV Identity 2: Quality Control 12:15 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.951	4.967	5.018	4.922	4.996	5.042	5.045	5.013
S.D.	0.004	0.008	0.005	0.006	0.007	0.012	0.013	0.037
% R.S.D.	0.076	0.158	0.102	0.124	0.140	0.230	0.266	0.733

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.077	5.036	5.035	5.145	5.022	5.070	5.284	9.526
S.D.	0.010	0.007	0.012	0.026	0.009	0.004	0.014	0.012
% R.S.D.	0.193	0.134	0.231	0.499	0.186	0.086	0.265	0.125

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.056	4.858	4.967	5.051	4.975	4.923	5.080	4.980
S.D.	0.006	0.004	0.011	0.124	0.026	0.004	0.015	0.035
% R.S.D.	0.111	0.075	0.214	2.455	0.527	0.076	0.295	0.699

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.004	5.208	4.987	5.099	4.821	5.074	5.093	5.109
S.D.	0.011	0.015	0.007	0.004	0.003	0.013	0.015	0.053
% R.S.D.	0.224	0.286	0.142	0.081	0.067	0.256	0.297	1.033

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.054	4.739	4.981	5.181	4.912
S.D.	0.011	0.020	0.005	0.004	0.021
% R.S.D.	0.217	0.418	0.101	0.071	0.423

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DK [illegible] LMCS ✓ DKL

10-25-95

BY-108 S95T002171
S95T002172

Worklist # 2880

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 610 TO 628.

Identity 1: ICB Identity 2: Quality Control 12:19 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.001	0.000	-0.026	0.005	-0.009	-0.001	-0.000	0.000
S.D.	0.001	0.000	0.010	0.002	0.002	0.002	0.000	0.000
% R.S.D.	136.156	156.125	36.259	45.118	25.787	173.721	309.543	64.282

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.001	0.002	-0.003	0.001	-0.001	0.006	-0.035
S.D.	0.000	0.001	0.001	0.002	0.000	0.001	0.002	0.026
% R.S.D.	45.431	134.370	50.840	81.153	12.011	177.952	39.074	75.192

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.014	-0.012	-0.000	-0.001	0.001	0.000	-0.002	0.002
S.D.	0.009	0.006	0.000	0.006	0.003	0.000	0.002	0.005
% R.S.D.	63.977	50.604	350.000	395.515	248.847	34.641	156.258	251.622

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.003	-0.000	-0.003	-0.000	0.000	0.003	-0.045
S.D.	0.001	0.019	0.001	0.010	0.000	0.000	0.001	0.009
% R.S.D.	75.255	624.525	298.320	363.377	211.971	86.916	30.171	19.877

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.011	-0.003	0.000	-0.027
S.D.	0.000	0.012	0.001	0.000	0.012
% R.S.D.	97.633	109.002	24.964	0.890	42.918

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Identity 1: ICSA Identity 2: Quality Control 12:21 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.002	-0.037	0.031	198.160	0.000	0.003	0.000
S.D.	0.001	0.000	0.003	0.005	0.224	0.002	0.000	0.000
% R.S.D.	8.826	3.571	7.446	14.653	0.113	12738.602	10.667	72.092

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.007	0.008	97.157	99.275	0.000	0.001	-0.019
S.D.	0.000	0.001	0.001	0.186	0.116	0.002	0.012	0.020
% R.S.D.	5.563	12.867	16.477	0.191	0.116	768.394	1496.951	107.401

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.009	0.022	0.004	0.038	0.009	101.554	0.026	182.824
S.D.	0.007	0.003	0.000	0.008	0.012	0.257	0.008	0.404
% R.S.D.	71.830	13.565	3.045	22.014	143.891	0.253	30.496	0.221

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.010	0.002	-0.008	0.000	0.001	0.015	-0.043
S.D.	0.001	0.010	0.000	0.018	0.000	0.000	0.000	0.003
% R.S.D.	65.459	98.370	14.980	214.591	64.365	28.809	2.449	7.900

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.008	0.285	-0.000	0.003	-0.012
S.D.	0.001	0.025	0.000	0.000	0.012
% R.S.D.	6.820	8.803	113.300	8.754	94.782

Identity 1: ICSAB Identity 2: Quality Control 12:24 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.003	0.002	-0.048	0.030	198.593	0.477	0.500	0.919
S.D.	0.000	0.000	0.002	0.002	0.594	0.003	0.002	0.003
% R.S.D.	14.228	3.448	4.861	5.612	0.299	0.601	0.345	0.357

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.972	0.963	0.007	97.102	100.293	0.486	-0.002	-0.062
S.D.	0.002	0.004	0.002	0.219	0.378	0.003	0.013	0.030
% R.S.D.	0.224	0.406	34.809	0.226	0.377	0.650	824.740	47.972

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.013	0.014	0.499	0.063	0.004	101.708	0.022	186.603
S.D.	0.007	0.006	0.002	0.016	0.005	0.210	0.002	0.462
% R.S.D.	56.069	41.189	0.384	25.805	109.281	0.206	7.613	0.248

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.048	1.004	0.984	-0.000	0.983	0.014	-0.077
S.D.	0.001	0.007	0.001	0.009	0.000	0.003	0.001	0.008
% R.S.D.	61.622	13.496	0.133	0.924	71.802	0.275	6.529	10.355

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.501	0.295	0.481	0.493	0.026
S.D.	0.000	0.017	0.001	0.001	0.012
% R.S.D.	0.072	5.786	0.290	0.191	46.020

Identity 1: PREPSTDARL Identity 2: 5ml ea whc1a&2 in100 12:30 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.781	4.828	4.659	17.564	5.235	4.883	4.742	4.722
S.D.	0.009	0.011	0.013	0.033	0.012	0.017	0.013	0.018
% R.S.D.	0.187	0.221	0.276	0.186	0.223	0.354	0.266	0.392

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.769	4.906	4.924	4.988	5.090	4.915	5.075	9.498
S.D.	0.010	0.001	0.012	0.020	0.012	0.015	0.017	0.026
% R.S.D.	0.206	0.024	0.238	0.397	0.234	0.310	0.327	0.275

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.900	4.744	4.795	4.801	4.625	4.827	4.852	5.713
S.D.	0.009	0.010	0.011	0.029	0.048	0.006	0.024	0.025
% R.S.D.	0.185	0.214	0.232	0.603	1.041	0.129	0.498	0.445

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.830	4.982	0.934	4.799	4.644	4.806	6.218	4.807
S.D.	0.008	0.039	0.001	0.046	0.007	0.007	0.019	0.014
% R.S.D.	0.160	0.783	0.138	0.950	0.157	0.148	0.301	0.300

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	4.935	4.523	4.809	5.225	4.572
S.D.	0.008	0.008	0.007	0.005	0.006
% R.S.D.	0.167	0.167	0.155	0.093	0.127

Identity 1: PREPBLK Identity 2: Quality Control 12:38 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.000	0.001	0.001	0.066	0.015	0.007	0.006	0.002
S.D.	0.002	0.000	0.002	0.001	0.001	0.002	0.000	0.000
% R.S.D.	421.296	23.593	195.922	2.286	6.094	24.700	7.029	15.927

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.009	0.001	0.000	0.024	0.083	0.006	0.017	-0.097
S.D.	0.000	0.000	0.001	0.001	0.000	0.001	0.009	0.053
% R.S.D.	3.946	61.777	197.070	3.173	0.555	19.913	50.332	54.989

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.052	-0.021	0.002	0.055	0.043	0.014	0.005	0.337
S.D.	0.013	0.010	0.000	0.018	0.004	0.000	0.002	0.001
% R.S.D.	25.179	46.848	17.281	32.318	10.273	0.651	38.701	0.344

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.013	0.004	0.018	0.000	0.004	0.101	-0.034
S.D.	0.001	0.009	0.001	0.012	0.000	0.001	0.000	0.015
% R.S.D.	47.180	68.592	25.292	65.267	614.201	15.063	0.474	44.402

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.053	0.002	-0.000	0.008
S.D.	0.000	0.014	0.001	0.000	0.027
% R.S.D.	44.388	25.781	68.386	54.989	342.257

Identity 1: S95T002171_L Identity 2: .8055gin100,1-9-2-8 12:42 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 0.8055 Solution Volume : 5000.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-8.981	628.857	15.357	2034.765	23333.154	65.073	9.801	5.313
S.D.	5.307	1.242	58.923	6.699	65.824	10.295	1.957	1.175
% R.S.D.	59.093	0.197	383.686	0.329	0.282	15.821	19.971	22.119

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.026	1213.233	13.222	2084.315	649.240	397.725	45.563	1080.614
S.D.	0.292	4.683	11.553	27.483	1.581	5.118	11.801	274.442
% R.S.D.	0.730	0.386	87.379	1.319	0.243	1.287	25.900	25.397

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	57.867	-97.270	15.746	5592.212	29552.978	77.583	86.792	190569.522
S.D.	41.002	33.929	1.160	157.989	387.744	2.536	16.911	1685.350
% R.S.D.	70.856	34.882	7.368	2.825	1.312	3.269	19.485	0.884

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	29.108	-106.439	9.588	278.502	2.507	12.356	45.047	1699.797
S.D.	3.406	16.503	3.560	22.873	1.044	3.864	1.949	20.883
% R.S.D.	11.702	15.505	37.130	8.213	41.640	31.271	4.327	1.229

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	14.309	333.750	11.816	0.140	-64.865
S.D.	2.681	91.082	4.032	0.036	68.232
% R.S.D.	18.734	27.291	34.121	25.397	105.190

Identity 1: S95T002171 Identity 2: .8055gin100,1-9 ml 12:46 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8055 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.968	634.420	54.123	2014.145	23567.992	29.438	5.352	0.794
S.D.	1.313	1.541	5.251	5.478	49.489	2.046	0.526	0.477
% R.S.D.	44.257	0.243	9.701	0.272	0.210	6.950	9.820	59.998

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	26.434	1223.876	3.010	2082.574	450.544	403.017	14.365	1598.608
S.D.	1.223	3.998	2.280	13.307	1.198	0.944	6.074	58.173
% R.S.D.	4.628	0.327	75.753	0.639	0.266	0.234	42.285	3.639

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	14.652	-43.205	15.326	5431.458	29173.399	65.911	9.633	186862.974
S.D.	17.416	11.988	0.251	156.375	416.000	0.308	5.302	501.820
% R.S.D.	118.867	27.748	1.638	2.879	1.426	0.467	55.044	0.269

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	7.274	23.058	2.807	191.820	4.803	2.030	40.481	1528.490
S.D.	0.550	14.497	1.084	21.824	0.741	1.453	1.235	33.593
% R.S.D.	7.557	62.871	38.628	11.377	15.426	71.567	3.051	2.198

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	15.106	42.834	1.499	0.286	-18.863
S.D.	0.194	20.901	1.156	0.145	31.771
% R.S.D.	1.282	48.795	77.120	50.538	168.425

Identity 1: S95T002171_D Identity 2: .8127gin100,1-9 ml 12:50 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8127 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.164	610.951	40.786	1948.964	22581.841	31.533	5.355	0.944
S.D.	0.947	0.812	3.743	7.510	39.996	3.521	0.132	0.280
% R.S.D.	43.751	0.133	9.177	0.385	0.177	11.168	2.456	29.654

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	23.909	1169.813	3.945	1998.743	414.966	383.471	16.047	1543.331
S.D.	0.310	2.713	0.018	11.505	0.416	1.811	5.680	34.519
% R.S.D.	1.297	0.232	0.449	0.576	0.100	0.472	35.396	2.237

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	17.339	-25.373	14.708	5144.500	27710.849	59.199	4.306	181781.440
S.D.	11.539	8.947	0.324	233.460	528.458	0.346	9.190	666.506
% R.S.D.	66.549	35.263	2.204	4.538	1.907	0.585	213.408	0.367

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	7.387	36.589	4.005	210.197	4.412	2.837	36.575	1388.492
S.D.	0.371	5.452	0.973	7.795	0.261	0.805	0.915	22.068
% R.S.D.	5.026	14.899	24.295	3.709	5.925	28.387	2.502	1.589

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	14.203	74.624	1.318	0.513	-8.609
S.D.	0.598	32.163	0.647	0.140	14.065
% R.S.D.	4.209	43.100	49.138	27.325	163.370

Identity 1: S95T002171_S Identity 2: .8348gin100,1-9 ml 1:03 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.8348 Solution Volume : 1000.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	581.325	1281.664	629.280	3156.941	25514.807	611.677	551.982	563.246
S.D.	0.264	6.810	7.670	3.248	95.392	1.982	3.521	1.930
% R.S.D.	0.045	0.531	1.219	0.103	0.374	0.324	0.638	0.343

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	603.551	1915.388	598.498	2465.250	1110.234	994.620	627.221	2890.121
S.D.	0.840	9.962	2.216	16.139	6.177	1.995	9.699	55.625
% R.S.D.	0.139	0.520	0.370	0.655	0.556	0.201	1.546	1.925

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	619.906	576.389	593.708	3541.945	30610.047	621.986	591.132	197127.585
S.D.	14.187	8.630	3.427	70.794	87.006	0.896	5.296	544.600
% R.S.D.	2.289	1.497	0.577	1.999	0.284	0.144	0.896	0.276

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	577.371	622.346	119.378	789.527	566.484	581.153	656.897	2204.268
S.D.	2.695	26.157	1.185	10.205	1.828	1.688	3.210	10.662
% R.S.D.	0.467	4.203	0.993	1.293	0.323	0.290	0.489	0.484

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	602.306	631.954	571.296	596.843	609.503
S.D.	1.770	11.386	2.123	2.725	24.569
% R.S.D.	0.294	1.802	0.372	0.457	4.031

Identity 1: CCV Identity 2: Quality Control 1:10 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.948	4.957	5.010	4.907	4.942	4.981	5.040	4.995
S.D.	0.015	0.023	0.044	0.011	0.012	0.010	0.029	0.030
% R.S.D.	0.308	0.462	0.884	0.234	0.237	0.199	0.583	0.595

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.070	5.011	5.051	5.131	5.013	5.038	5.333	9.563
S.D.	0.004	0.001	0.022	0.016	0.023	0.007	0.026	0.008
% R.S.D.	0.088	0.029	0.443	0.316	0.457	0.144	0.489	0.088

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.020	4.864	4.957	4.985	4.909	4.901	5.070	4.977
S.D.	0.011	0.020	0.028	0.037	0.029	0.002	0.014	0.022
% R.S.D.	0.220	0.409	0.557	0.737	0.593	0.044	0.274	0.435

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.973	5.170	5.011	5.078	4.794	5.051	5.093	5.143
S.D.	0.005	0.041	0.004	0.019	0.013	0.011	0.023	0.016
% R.S.D.	0.110	0.784	0.073	0.366	0.280	0.223	0.459	0.310

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.037	4.772	4.968	5.176	4.879
S.D.	0.010	0.032	0.008	0.013	0.003
% R.S.D.	0.193	0.660	0.165	0.248	0.071

Identity 1: CCB Identity 2: Quality Control 1:16 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.002	0.000	-0.008	-0.002	-0.022	0.000	0.000	0.001
S.D.	0.001	0.000	0.006	0.003	0.006	0.000	0.000	0.000
% R.S.D.	55.996	43.301	69.638	122.536	28.781	38.839	136.641	26.017

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	-0.002	0.002	0.002	0.000	-0.001	0.016	-0.072
S.D.	0.001	0.001	0.001	0.001	0.000	0.001	0.004	0.028
% R.S.D.	204.049	37.336	34.600	52.112	36.398	100.198	26.975	38.891

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.006	-0.030	0.000	0.014	0.006	-0.000	0.014	0.008
S.D.	0.005	0.003	0.000	0.011	0.004	0.000	0.003	0.005
% R.S.D.	71.710	9.719	78.062	76.756	72.140	150.000	23.352	57.728

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	0.008	0.001	0.010	-0.001	-0.000	0.000	-0.071
S.D.	0.001	0.007	0.001	0.012	0.001	0.001	0.001	0.007
% R.S.D.	281.506	82.603	82.621	120.068	58.546	205.806	514.051	9.449

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	-0.006	-0.002	-0.000	-0.017
S.D.	0.000	0.008	0.000	0.000	0.011
% R.S.D.	81.639	121.724	17.076	33.493	63.084

Identity 1: S95T002172_L Identity 2: .1948gin100,4-4-2-8 1:19 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 0.1948 Solution Volume : 1000.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-28.613	26381.175	629.373	3369.098	24694.945	52.072	29.314	7.408
S.D.	3.422	60.513	4.301	9.408	35.606	16.964	0.975	1.598
% R.S.D.	11.961	0.229	0.683	0.279	0.144	32.579	3.325	21.574

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	252.713	12239.801	17.174	17898.540	5755.306	2079.719	125.075	14525.332
S.D.	2.315	34.516	3.555	61.730	10.562	7.460	38.539	158.615
% R.S.D.	0.916	0.282	20.700	0.345	0.184	0.359	30.812	1.092

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	599.362	-249.044	410.577	13620.607	5042.026	1064.469	69.057	135680.212
S.D.	32.452	20.692	0.791	187.747	43.756	0.964	21.479	1332.420
% R.S.D.	5.414	8.309	0.193	1.378	0.868	0.091	31.103	0.982

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	14.220	-122.293	16.099	1384.740	27.860	19.209	164.017	1290.451
S.D.	7.176	28.961	2.931	43.177	1.871	3.654	5.743	39.158
% R.S.D.	50.461	23.682	18.205	3.118	6.716	19.023	3.501	3.034

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	281.280	635.695	8.992	4.170	31.110
S.D.	1.420	101.343	2.632	1.135	84.393
% R.S.D.	0.505	15.942	29.267	27.226	271.270

Identity 1: S951002172 Identity 2: .1948gin100,4-4 ml 1:23 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.1948 Solution Volume : 200.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-3.935	25634.759	765.646	3457.130	24860.405	27.441	21.569	2.548
S.D.	0.395	18.635	6.204	5.514	17.141	0.001	0.149	0.099
% R.S.D.	10.031	0.073	0.810	0.160	0.069	0.003	0.692	3.885

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	250.820	12211.644	27.470	17777.147	5738.743	2080.871	62.105	15427.623
S.D.	1.051	35.343	1.422	49.357	8.505	6.328	7.711	6.676
% R.S.D.	0.419	0.289	5.177	0.278	0.148	0.304	12.416	0.043

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	445.461	-20.608	406.190	14153.774	5169.808	1073.862	19.977	131703.189
S.D.	3.726	4.721	0.338	643.707	106.984	1.850	4.804	379.745
% R.S.D.	0.836	22.906	0.083	4.548	2.069	0.172	24.047	0.288

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	6.829	63.461	3.434	1314.036	35.363	8.846	163.250	1551.949
S.D.	0.172	14.529	0.654	21.152	0.374	1.152	0.908	12.451
% R.S.D.	2.519	22.895	19.051	1.610	1.057	13.025	0.556	0.802

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	281.573	88.099	1.660	1.342	11.105
S.D.	1.092	15.198	0.671	0.226	2.594
% R.S.D.	0.388	17.251	40.425	16.829	23.360

Identity 1: S95T002172_D Identity 2: .2076gin100,4-4 ml 1:26 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 0.2076 Solution Volume : 200.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-3.661	25519.295	764.737	3341.431	24610.196	16.429	22.927	2.916
S.D.	0.462	20.209	13.702	9.999	19.570	1.592	0.223	0.061
% R.S.D.	12.608	0.079	1.792	0.299	0.080	9.693	0.972	2.084

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	247.235	12087.526	33.677	17669.017	5805.454	2058.009	53.241	15413.588
S.D.	0.160	8.764	0.010	20.972	6.114	1.841	4.142	16.282
% R.S.D.	0.065	0.073	0.030	0.119	0.105	0.089	7.780	0.106

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	446.290	-11.680	404.864	13738.109	5062.022	1007.387	18.167	130021.442
S.D.	4.038	0.957	0.301	251.802	69.080	2.615	3.789	207.556
% R.S.D.	0.905	8.191	0.074	1.833	1.365	0.260	20.855	0.160

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	6.738	79.371	4.098	1323.081	32.945	7.785	163.426	1464.838
S.D.	1.085	9.545	0.577	6.535	0.201	0.479	1.342	8.832
% R.S.D.	16.097	12.026	14.071	0.494	0.610	6.149	0.821	0.603

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	280.501	210.716	-1.016	0.767	12.828
S.D.	1.266	36.099	0.266	0.105	10.732
% R.S.D.	0.451	17.132	26.123	13.707	83.657

Identity 1: ICSA Identity 2: Quality Control 1:31 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.005	0.002	-0.050	0.029	200.266	0.003	0.004	0.000
S.D.	0.000	0.000	0.002	0.005	0.071	0.002	0.000	0.000
% R.S.D.	5.462	19.868	5.034	16.839	0.036	57.570	6.021	52.872

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.008	0.003	97.630	99.724	-0.002	0.004	-0.087
S.D.	0.001	0.002	0.002	0.206	0.021	0.000	0.008	0.010
% R.S.D.	12.931	19.212	64.533	0.211	0.021	22.307	190.728	11.908

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.010	-0.000	0.004	0.048	0.014	102.255	0.016	185.886
S.D.	0.003	0.003	0.000	0.008	0.022	0.100	0.005	0.901
% R.S.D.	31.576	1562.133	0.969	16.865	162.620	0.098	32.890	0.485

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.008	0.002	0.007	-0.000	0.004	0.011	-0.038
S.D.	0.000	0.020	0.000	0.006	0.000	0.001	0.001	0.009
% R.S.D.	19.500	263.956	13.754	89.913	92.737	14.241	5.764	24.019

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.008	0.313	0.001	0.002	-0.015
S.D.	0.000	0.035	0.000	0.000	0.012
% R.S.D.	5.292	11.070	56.666	5.082	78.848

Identity 1: ICSAB Identity 2: Quality Control 1:36 PM October 25, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-145, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.004	0.002	-0.036	0.036	197.580	0.488	0.492	0.907
S.D.	0.001	0.000	0.004	0.001	0.311	0.003	0.001	0.002
% R.S.D.	26.774	4.075	11.229	2.932	0.157	0.588	0.189	0.193

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.988	0.966	0.006	97.204	99.541	0.485	0.001	-0.017
S.D.	0.004	0.003	0.002	0.207	0.226	0.002	0.003	0.017
% R.S.D.	0.401	0.333	28.543	0.213	0.227	0.479	362.026	101.114

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.012	0.016	0.491	0.056	0.027	103.556	0.025	184.798
S.D.	0.006	0.005	0.002	0.012	0.015	0.152	0.007	0.271
% R.S.D.	49.147	28.844	0.328	21.185	55.465	0.147	29.785	0.147

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	0.001	1.012	0.982	-0.000	0.984	0.017	0.054
S.D.	0.001	0.005	0.003	0.020	0.000	0.005	0.000	0.010
% R.S.D.	1993.576	473.333	0.291	2.024	102.243	0.553	2.802	18.383

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.502	0.309	0.482	0.490	0.030
S.D.	0.002	0.017	0.001	0.001	0.019
% R.S.D.	0.377	5.548	0.171	0.294	65.173

Identity 1: CCV Identity 2: Quality Control 1:41 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-165, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.938	4.953	4.979	4.871	4.923	4.939	5.042	4.961
S.D.	0.009	0.003	0.016	0.012	0.005	0.015	0.004	0.034
% R.S.D.	0.184	0.069	0.329	0.250	0.110	0.298	0.085	0.677

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.998	4.994	5.051	5.123	5.012	4.989	5.404	9.607
S.D.	0.011	0.016	0.005	0.007	0.003	0.012	0.025	0.032
% R.S.D.	0.229	0.323	0.108	0.144	0.060	0.250	0.470	0.329

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.987	4.880	4.960	4.862	4.821	4.852	5.031	4.943
S.D.	0.014	0.006	0.001	0.099	0.035	0.015	0.010	0.037
% R.S.D.	0.279	0.129	0.028	2.034	0.720	0.316	0.191	0.751

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.918	5.129	4.942	5.057	4.771	5.033	5.078	5.095
S.D.	0.017	0.027	0.015	0.012	0.009	0.015	0.007	0.026
% R.S.D.	0.336	0.525	0.313	0.230	0.181	0.308	0.145	0.505

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.013	4.790	4.947	5.167	4.808
S.D.	0.012	0.038	0.015	0.006	0.022
% R.S.D.	0.240	0.786	0.302	0.120	0.455

Identity 1: CCB Identity 2: Quality Control 2:08 PM October 25, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00 WHO-SD-WM-DP-145, REV. 1
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.000	0.000	-0.014	0.004	-0.006	-0.001	0.001	0.001
S.D.	0.001	0.000	0.009	0.002	0.006	0.002	0.000	0.000
% R.S.D.	787.376	25.000	59.622	45.031	102.870	173.318	22.245	26.064

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	-0.001	0.002	-0.001	0.001	-0.004	0.010	0.019
S.D.	0.000	0.000	0.001	0.002	0.000	0.000	0.006	0.055
% R.S.D.	250.501	16.588	41.600	135.653	9.915	9.396	63.804	282.650

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.021	-0.024	0.000	0.000	0.005	-0.000	0.018	0.011
S.D.	0.006	0.008	0.000	0.008	0.004	0.000	0.003	0.004
% R.S.D.	29.083	35.045	37.084	2354.247	67.907	34922225.317	16.551	36.731

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.004	0.002	0.008	0.000	0.001	0.000	-0.028
S.D.	0.001	0.009	0.001	0.016	0.000	0.001	0.000	0.005
% R.S.D.	39.034	256.848	34.105	202.694	214.210	74.039	171.517	16.433

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.094	0.000	-0.000	-0.015
S.D.	0.000	0.074	0.000	0.000	0.024
% R.S.D.	90.739	79.053	227.346	89.444	159.789

JK Jd
10-25-95

WHC-SD-WM-DP-145, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	2880	1			ICV	AG				4.9869		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
2	2880	1			ICV	AL				4.9880		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
3	2880	1			ICV	AS				5.0805		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
4	2880	1			ICV	B				5.0829		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
5	2880	1			ICV	BA				4.9573		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
6	2880	1			ICV	BE				5.1815		1.0000	10/25/95	12:16	dks	0.005	@ICP-QC
7	2880	1			ICV	BI				5.0177		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
8	2880	1			ICV	CA				5.0220		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
9	2880	1			ICV	CD				5.0744		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
10	2880	1			ICV	CE				5.0562		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
11	2880	1			ICV	CO				5.0422		1.0000	10/25/95	12:16	dks	0.02	@ICP-QC
12	2880	1			ICV	CR				5.0703		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
13	2880	1			ICV	CU				5.0450		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
14	2880	1			ICV	FE				5.1451		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
15	2880	1			ICV	K				5.1094		1.0000	10/25/95	12:16	dks	0.3	@ICP-QC
16	2880	1			ICV	LA				5.0349		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
17	2880	1			ICV	LI				5.0134		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
18	2880	1			ICV	MG				4.9230		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
19	2880	1			ICV	MN				5.0541		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
20	2880	1			ICV	MO				5.0042		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
21	2880	1			ICV	NA				4.9801		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
22	2880	1			ICV	ND				5.2839		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
23	2880	1			ICV	NI				5.0362		1.0000	10/25/95	12:16	dks	0.02	@ICP-QC
24	2880	1			ICV	P				5.0508		1.0000	10/25/95	12:16	dks	0.2	@ICP-QC
25	2880	1			ICV	PB				5.0989		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
26	2880	1			ICV	S				4.9751		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
27	2880	1			ICV	SB				4.7392		1.0000	10/25/95	12:16	dks	0.2	@ICP-QC
28	2880	1			ICV	SE				5.2084		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
29	2880	1			ICV	SI				4.9223		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
30	2880	1			ICV	SM				4.9576		1.0000	10/25/95	12:16	dks	0.1	@ICP-QC
31	2880	1			ICV	SR				4.9671		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
32	2880	1			ICV	TI				4.9210		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
33	2880	1			ICV	TL				4.9125		1.0000	10/25/95	12:16	dks	0.2	@ICP-QC
34	2880	1			ICV	U				9.8256		1.0000	10/25/95	12:16	dks	0.4	@ICP-QC
35	2880	1			ICV	V				4.9809		1.0000	10/25/95	12:16	dks	0.05	@ICP-QC
36	2880	1			ICV	ZN				5.0768		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
37	2880	1			ICV	ZR				4.9514		1.0000	10/25/95	12:16	dks	0.01	@ICP-QC
38	2880	2			ICB	AG				-0.0003		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
39	2880	2			ICB	AL				-0.0068		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
40	2880	2			ICB	AS				-0.0016		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
41	2880	2			ICB	B				0.0026		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
42	2880	2			ICB	BA				-0.0001		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
43	2880	2			ICB	BE				0.0004		1.0000	10/25/95	12:19	dks	0.005	@ICP-QC
44	2880	2			ICB	BI				-0.0264		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
45	2880	2			ICB	CA				0.0006		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
46	2880	2			ICB	CD				0.0004		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
47	2880	2			ICB	CE				-0.0144		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
48	2880	2			ICB	CO				-0.0010		1.0000	10/25/95	12:19	dks	0.02	@ICP-QC
49	2880	2			ICB	CR				-0.0006		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
50	2880	2			ICB	CU				-0.0001		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
51	2880	2			ICB	FE				-0.0028		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
52	2880	2			ICB	K				-0.0447		1.0000	10/25/95	12:19	dks	0.3	@ICP-QC
53	2880	2			ICB	LA				0.0024		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
54	2880	2			ICB	LI				0.0003		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
55	2880	2			ICB	MG				0.0003		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
56	2880	2			ICB	MN				0.0003		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
57	2880	2			ICB	MO				0.0007		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
58	2880	2			ICB	NA				0.0020		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
59	2880	2			ICB	ND				0.0062		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
60	2880	2			ICB	NI				0.0010		1.0000	10/25/95	12:19	dks	0.02	@ICP-QC
61	2880	2			ICB	P				-0.0014		1.0000	10/25/95	12:19	dks	0.2	@ICP-QC
62	2880	2			ICB	PB				-0.0027		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
63	2880	2			ICB	S				0.0013		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
64	2880	2			ICB	SB				0.0108		1.0000	10/25/95	12:19	dks	0.2	@ICP-QC
65	2880	2			ICB	SE				-0.0030		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
66	2880	2			ICB	SI				0.0050		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
67	2880	2			ICB	SM				-0.0121		1.0000	10/25/95	12:19	dks	0.1	@ICP-QC
68	2880	2			ICB	SR				0.0001		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
69	2880	2			ICB	TI				-0.0001		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
70	2880	2			ICB	TL				-0.0273		1.0000	10/25/95	12:19	dks	0.2	@ICP-QC
71	2880	2			ICB	U				-0.0346		1.0000	10/25/95	12:19	dks	0.4	@ICP-QC
72	2880	2			ICB	V				-0.0031		1.0000	10/25/95	12:19	dks	0.05	@ICP-QC
73	2880	2			ICB	ZN				0.0007		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
74	2880	2			ICB	ZR				-0.0010		1.0000	10/25/95	12:19	dks	0.01	@ICP-QC
75	2880	3			ICSA	AG				0.0018		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
76	2880	3			ICSA	AL				196.1596		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
77	2880	3			ICSA	AS				0.0264		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
78	2880	3			ICSA	B				0.0147		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
79	2880	3			ICSA	BA				0.0041		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
80	2880	3			ICSA	BE				0.0026		1.0000	10/25/95	12:22	dks	0.005	@ICP-QC
81	2880	3			ICSA	BI				-0.0375		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
82	2880	3			ICSA	CA				99.2753		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
83	2880	3			ICSA	CD				0.0014		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
84	2880	3			ICSA	CE				0.0093		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
85	2880	3			ICSA	CO				0.0000		1.0000	10/25/95	12:22	dks	0.02	@ICP-QC
86	2880	3			ICSA	CR				0.0002		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
87	2880	3			ICSA	CU				0.0034		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
88	2880	3			ICSA	FE				97.1574		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
89	2880	3			ICSA	K				-0.0425		1.0000	10/25/95	12:22	dks	0.3	@ICP-QC
90	2880	3			ICSA	LA				0.0085		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
91	2880	3			ICSA	LI				0.0003		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
92	2880	3			ICSA	MG				101.5536		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
93	2880	3			ICSA	MN				0.0085		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
94	2880	3			ICSA	MO				0.0010		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
95	2880	3			ICSA	NA				192.8238		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
96	2880	3			ICSA	ND				0.0008		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
97	2880	3			ICSA	NI				0.0066		1.0000	10/25/95	12:22	dks	0.02	@ICP-QC
98	2880	3			ICSA	P				0.0361		1.0000	10/25/95	12:22	dks	0.2	@ICP-QC
99	2880	3			ICSA	PB				-0.0084		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
100	2880	3			ICSA	S				0.0086		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
101	2880	3			ICSA	SB				0.2847		1.0000	10/25/95	12:22	dks	0.2	@ICP-QC
102	2880	3			ICSA	SE				0.0101		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
103	2880	3			ICSA	SI				0.0306		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
104	2880	3			ICSA	SM				0.0220		1.0000	10/25/95	12:22	dks	0.1	@ICP-QC
105	2880	3			ICSA	SR				0.0016		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
106	2880	3			ICSA	TI				0.0005		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
107	2880	3			ICSA	TL				-0.0123		1.0000	10/25/95	12:22	dks	0.2	@ICP-QC
108	2880	3			ICSA	U				-0.0189		1.0000	10/25/95	12:22	dks	0.4	@ICP-QC
109	2880	3			ICSA	V				-0.0003		1.0000	10/25/95	12:22	dks	0.05	@ICP-QC
110	2880	3			ICSA	ZN				-0.0052		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
111	2880	3			ICSA	ZR				0.0075		1.0000	10/25/95	12:22	dks	0.01	@ICP-QC
112	2880	4			ICSAB	AG				1.0035		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
113	2880	4			ICSAB	AL				198.5931		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
114	2880	4			ICSAB	AS				0.0223		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
115	2880	4			ICSAB	B				0.0136		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
116	2880	4			ICSAB	BA				0.4988		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
117	2880	4			ICSAB	BE				0.4925		1.0000	10/25/95	12:25	dks	0.005	@ICP-QC
118	2880	4			ICSAB	BI				-0.0479		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
119	2880	4			ICSAB	CA				100.2827		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
120	2880	4			ICSAB	CD				0.9826		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
121	2880	4			ICSAB	CE				0.0126		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
122	2880	4			ICSAB	CO				0.4766		1.0000	10/25/95	12:25	dks	0.02	@ICP-QC
123	2880	4			ICSAB	CR				0.4861		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
124	2880	4			ICSAB	CU				0.5005		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
125	2880	4			ICSAB	FE				97.1024		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
126	2880	4			ICSAB	K				-0.0786		1.0000	10/25/95	12:25	dks	0.3	@ICP-QC
127	2880	4			ICSAB	LA				0.0072		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
128	2880	4			ICSAB	LI				0.9191		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
129	2880	4			ICSAB	MG				101.7061		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
130	2880	4			ICSAB	MN				0.5010		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
131	2880	4			ICSAB	MO				0.0015		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
132	2880	4			ICSAB	NA				186.6030		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
133	2880	4			ICSAB	ND				-0.0015		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
134	2880	4			ICSAB	NI				0.9833		1.0000	10/25/95	12:25	dks	0.02	@ICP-QC
135	2880	4			ICSAB	P				0.0632		1.0000	10/25/95	12:25	dks	0.2	@ICP-QC
136	2880	4			ICSAB	PB				0.9840		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
137	2880	4			ICSAB	S				0.0043		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
138	2880	4			ICSAB	SB				0.2946		1.0000	10/25/95	12:25	dks	0.2	@ICP-QC
139	2880	4			ICSAB	SE				0.0463		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
140	2880	4			ICSAB	SI				0.0295		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
141	2880	4			ICSAB	SM				0.0139		1.0000	10/25/95	12:25	dks	0.1	@ICP-QC
142	2880	4			ICSAB	SR				0.0017		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
143	2880	4			ICSAB	TI				-0.0003		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
144	2880	4			ICSAB	TL				0.0284		1.0000	10/25/95	12:25	dks	0.2	@ICP-QC
145	2880	4			ICSAB	U				-0.0619		1.0000	10/25/95	12:25	dks	0.4	@ICP-QC
146	2880	4			ICSAB	V				0.4806		1.0000	10/25/95	12:25	dks	0.05	@ICP-QC
147	2880	4			ICSAB	ZN				0.9722		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
148	2880	4			ICSAB	ZR				0.0028		1.0000	10/25/95	12:25	dks	0.01	@ICP-QC
149	2880	5			PREPSTDARL	AG-A-01				0.8336		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
150	2880	5			PREPSTDARL	AL-A-01				5.2366		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
151	2880	5			PREPSTDARL	AS-A-01				4.8520		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
152	2880	5			PREPSTDARL	B-A-01				5.2180		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
153	2880	5			PREPSTDARL	BA-A-01				4.7946		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
154	2880	5			PREPSTDARL	BE-A-01				5.2246		1.0000	10/25/95	12:33	dks	0.005	@ICP-A01
155	2880	5			PREPSTDARL	BI-A-01				4.8588		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
156	2880	5			PREPSTDARL	CA-A-01				5.0865		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
157	2880	5			PREPSTDARL	CD-A-01				4.8059		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
158	2880	5			PREPSTDARL	CE-A-01				4.9001		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
159	2880	5			PREPSTDARL	CO-A-01				4.8827		1.0000	10/25/95	12:33	dks	0.02	@ICP-A01
160	2880	5			PREPSTDARL	CR-A-01				4.9150		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
161	2880	5			PREPSTDARL	CU-A-01				4.7418		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
162	2880	5			PREPSTDARL	FE-A-01				4.8880		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
163	2880	5			PREPSTDARL	K-A-01				4.8088		1.0000	10/25/95	12:33	dks	0.3	@ICP-A01
164	2880	5			PREPSTDARL	LA-A-01				4.8244		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
165	2880	5			PREPSTDARL	LI-A-01				4.7221		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
166	2880	5			PREPSTDARL	MG-A-01				4.8270		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
167	2880	5			PREPSTDARL	MN-A-01				4.8347		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
168	2880	5			PREPSTDARL	MO-A-01				4.8287		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
169	2880	5			PREPSTDARL	NA-A-01				5.7130		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
170	2880	5			PREPSTDARL	ND-A-01				5.0747		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
171	2880	5			PREPSTDARL	NI-A-01				4.9082		1.0000	10/25/95	12:33	dks	0.02	@ICP-A01
172	2880	5			PREPSTDARL	P-A-01				4.8014		1.0000	10/25/95	12:33	dks	0.2	@ICP-A01
173	2880	5			PREPSTDARL	PB-A-01				4.7968		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
174	2880	5			PREPSTDARL	S-A-01				4.8247		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
175	2880	5			PREPSTDARL	SB-A-01				4.5230		1.0000	10/25/95	12:33	dks	0.2	@ICP-A01
176	2880	5			PREPSTDARL	SE-A-01				4.9820		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
177	2880	5			PREPSTDARL	SI-A-01				17.5636		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
178	2880	5			PREPSTDARL	SM-A-01				4.7444		1.0000	10/25/95	12:33	dks	0.1	@ICP-A01
179	2880	5			PREPSTDARL	SR-A-01				4.8275		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
180	2880	5			PREPSTDARL	TI-A-01				4.8437		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
181	2880	5			PREPSTDARL	TL-A-01				4.5717		1.0000	10/25/95	12:33	dks	0.2	@ICP-A01
182	2880	5			PREPSTDARL	U-A-01				9.4661		1.0000	10/25/95	12:33	dks	0.4	@ICP-A01
183	2880	5			PREPSTDARL	V-A-01				4.8095		1.0000	10/25/95	12:33	dks	0.05	@ICP-A01
184	2880	5			PREPSTDARL	ZN-A-01				4.7667		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
185	2880	5			PREPSTDARL	ZR-A-01				4.7806		1.0000	10/25/95	12:33	dks	0.01	@ICP-A01
186	2880	6			PREPBLKARL	AG-A-01				0.0040		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
187	2880	6			PREPBLKARL	AL-A-01				0.0149		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
188	2880	6			PREPBLKARL	AS-A-01				0.0049		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
189	2880	6			PREPBLKARL	B-A-01				0.1013		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
190	2880	6			PREPBLKARL	BA-A-01				0.0016		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
191	2880	6			PREPBLKARL	BE-A-01				0.0000		1.0000	10/25/95	12:38	dks	0.005	@ICP-A01
192	2880	6			PREPBLKARL	BI-A-01				0.0009		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
193	2880	6			PREPBLKARL	CA-A-01				0.0833		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
194	2880	6			PREPBLKARL	CD-A-01				0.0038		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
195	2880	6			PREPBLKARL	CE-A-01				0.0524		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
196	2880	6			PREPBLKARL	CO-A-01				0.0067		1.0000	10/25/95	12:38	dks	0.02	@ICP-A01
197	2880	6			PREPBLKARL	CR-A-01				0.0061		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
198	2880	6			PREPBLKARL	CU-A-01				0.0056		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
199	2880	6			PREPBLKARL	FE-A-01				0.0238		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
200	2880	6			PREPBLKARL	K-A-01				-0.0337		1.0000	10/25/95	12:38	dks	0.3	@ICP-A01
201	2880	6			PREPBLKARL	LA-A-01				0.0004		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
202	2880	6			PREPBLKARL	LI-A-01				0.0018		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
203	2880	6			PREPBLKARL	MG-A-01				0.0144		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
204	2880	6			PREPBLKARL	MN-A-01				0.0010		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
205	2880	6			PREPBLKARL	MO-A-01				0.0023		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
206	2880	6			PREPBLKARL	NA-A-01				0.3370		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
207	2880	6			PREPBLKARL	ND-A-01				0.0172		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
208	2880	6			PREPBLKARL	NI-A-01				0.0005		1.0000	10/25/95	12:38	dks	0.02	@ICP-A01
209	2880	6			PREPBLKARL	P-A-01				0.0546		1.0000	10/25/95	12:38	dks	0.2	@ICP-A01
210	2880	6			PREPBLKARL	PB-A-01				0.0181		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
211	2880	6			PREPBLKARL	S-A-01				0.0427		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
212	2880	6			PREPBLKARL	SB-A-01				0.0526		1.0000	10/25/95	12:38	dks	0.2	@ICP-A01
213	2880	6			PREPBLKARL	SE-A-01				0.0132		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
214	2880	6			PREPBLKARL	SI-A-01				0.0655		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
215	2880	6			PREPBLKARL	SM-A-01				-0.0212		1.0000	10/25/95	12:38	dks	0.1	@ICP-A01
216	2880	6			PREPBLKARL	SR-A-01				0.0006		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
217	2880	6			PREPBLKARL	TI-A-01				0.0000		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
218	2880	6			PREPBLKARL	TL-A-01				0.0080		1.0000	10/25/95	12:38	dks	0.2	@ICP-A01
219	2880	6			PREPBLKARL	U-A-01				-0.0072		1.0000	10/25/95	12:38	dks	0.4	@ICP-A01
220	2880	6			PREPBLKARL	V-A-01				0.0018		1.0000	10/25/95	12:38	dks	0.05	@ICP-A01
221	2880	6			PREPBLKARL	ZN-A-01				0.0094		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
222	2880	6			PREPBLKARL	ZR-A-01				-0.0004		1.0000	10/25/95	12:38	dks	0.01	@ICP-A01
223	2880	7	S95T002171			AG-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
224	2880	7	S95T002171			AL-A-01				23667.9823		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
225	2880	7	S95T002171			AS-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
226	2880	7	S95T002171			B-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
227	2880	7	S95T002171			BA-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
228	2880	7	S95T002171			BE-A-01			<	6.2073		1241.4649	10/25/95	12:46	dks	0.005	@ICP-A01
229	2880	7	S95T002171			BI-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
230	2880	7	S95T002171			CA-A-01				460.5435		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
231	2880	7	S95T002171			CD-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
232	2880	7	S95T002171			CE-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
233	2880	7	S95T002171			CO-A-01				29.4363		1241.4649	10/25/95	12:46	dks	0.02	@ICP-A01
234	2880	7	S95T002171			CR-A-01				403.0170		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
235	2880	7	S95T002171			CU-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
236	2880	7	S95T002171			FE-A-01				2062.5736		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
237	2880	7	S95T002171			K-A-01				1528.4896		1241.4649	10/25/95	12:46	dks	0.3	@ICP-A01
238	2880	7	S95T002171			LA-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
239	2880	7	S95T002171			LI-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
240	2880	7	S95T002171			MG-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
241	2880	7	S95T002171			MN-A-01				15.1058		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
242	2880	7	S95T002171			MO-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
243	2880	7	S95T002171			NA-A-01				186862.9737		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
244	2880	7	S95T002171			ND-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
245	2880	7	S95T002171			NI-A-01				1223.8761		1241.4649	10/25/95	12:46	dks	0.02	@ICP-A01
246	2880	7	S95T002171			P-A-01				5431.4583		1241.4649	10/25/95	12:46	dks	0.2	@ICP-A01
247	2880	7	S95T002171			PB-A-01				191.8196		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
248	2880	7	S95T002171			S-A-01				29173.3880		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
249	2880	7	S95T002171			SB-A-01				248.2930		1241.4649	10/25/95	12:46	dks	0.2	@ICP-A01
250	2880	7	S95T002171			SE-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
251	2880	7	S95T002171			SI-A-01				2014.1462		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
252	2880	7	S95T002171			SM-A-01			<	124.1465		1241.4649	10/25/95	12:46	dks	0.1	@ICP-A01
253	2880	7	S95T002171			SR-A-01				834.4196		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
254	2880	7	S95T002171			TI-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
255	2880	7	S95T002171			TL-A-01			<	248.2930		1241.4649	10/25/95	12:46	dks	0.2	@ICP-A01
256	2880	7	S95T002171			U-A-01				1898.6076		1241.4649	10/25/95	12:46	dks	0.4	@ICP-A01
257	2880	7	S95T002171			V-A-01			<	62.0732		1241.4649	10/25/95	12:46	dks	0.05	@ICP-A01
258	2880	7	S95T002171			ZN-A-01				28.4340		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
259	2880	7	S95T002171			ZR-A-01			<	12.4146		1241.4649	10/25/95	12:46	dks	0.01	@ICP-A01
260	2880	8	S95T002171		DUP	AG-A-01		<12.4146		<12.3047		1230.4863	10/25/95	12:50	dks	0.01	@ICP-A01
261	2880	8	S95T002171		DUP	AL-A-01		23667.9823		22581.8413		1230.4863	10/25/95	12:50	dks	0.05	@ICP-A01
262	2880	8	S95T002171		DUP	AS-A-01		<62.0732		<61.5233		1230.4863	10/25/95	12:50	dks	0.05	@ICP-A01
263	2880	8	S95T002171		DUP	B-A-01		<62.0732		<61.5233		1230.4863	10/25/95	12:50	dks	0.05	@ICP-A01
264	2880	8	S95T002171		DUP	BA-A-01		<62.0732		<61.5233		1230.4863	10/25/95	12:50	dks	0.05	@ICP-A01
265	2880	8	S95T002171		DUP	BE-A-01		<6.2073		<6.1523		1230.4863	10/25/95	12:50	dks	0.005	@ICP-A01
266	2880	8	S95T002171		DUP	BI-A-01		<124.1465		<123.0466		1230.4863	10/25/95	12:50	dks	0.1	@ICP-A01
267	2880	8	S95T002171		DUP	CA-A-01		460.5435		414.9857		1230.4863	10/25/95	12:50	dks	0.1	@ICP-A01
268	2880	8	S95T002171		DUP	CD-A-01		<12.4146		<12.3047		1230.4863	10/25/95	12:50	dks	0.01	@ICP-A01
269	2880	8	S95T002171		DUP	CE-A-01		<124.1465		<123.0466		1230.4863	10/25/95	12:50	dks	0.1	@ICP-A01
270	2880	8	S95T002171		DUP	CO-A-01		29.4363		31.5330		1230.4863	10/25/95	12:50	dks	0.02	@ICP-A01
271	2880	8	S95T002171		DUP	CR-A-01		403.0170		383.4706		1230.4863	10/25/95	12:50	dks	0.01	@ICP-A01
272	2880	8	S95T002171		DUP	CU-A-01		<12.4146		<12.3047		1230.4863	10/25/95	12:50	dks	0.01	@ICP-A01

...-WM-DP-145, REV.1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
273	2880	8	S95T002171		DUP	FE-A-01		2082.5738		1989.7432		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
274	2880	8	S95T002171		DUP	K-A-01		1528.4886		1388.4917		1230.4883	10/25/95	12:50	dks	0.3	@ICP-A01
275	2880	8	S95T002171		DUP	LA-A-01		<82.0732		<81.8233		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
276	2880	8	S95T002171		DUP	LI-A-01		<12.4146		<12.3047		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
277	2880	8	S95T002171		DUP	MG-A-01		<124.1465		<123.0466		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
278	2880	8	S95T002171		DUP	MN-A-01		15.1056		14.2027		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
279	2880	8	S95T002171		DUP	MO-A-01		<82.0732		<81.8233		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
280	2880	8	S95T002171		DUP	NA-A-01		188882.9737		181781.4398		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
281	2880	8	S95T002171		DUP	ND-A-01		<124.1465		<123.0466		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
282	2880	8	S95T002171		DUP	NI-A-01		1223.8761		1169.8133		1230.4883	10/25/95	12:50	dks	0.02	@ICP-A01
283	2880	8	S95T002171		DUP	P-A-01		5431.4563		5144.4068		1230.4883	10/25/95	12:50	dks	0.2	@ICP-A01
284	2880	8	S95T002171		DUP	PB-A-01		181.8198		210.1972		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
285	2880	8	S95T002171		DUP	S-A-01		28173.3880		27710.8487		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
286	2880	8	S95T002171		DUP	SB-A-01		<248.2930		<246.0933		1230.4883	10/25/95	12:50	dks	0.2	@ICP-A01
287	2880	8	S95T002171		DUP	SE-A-01		<124.1465		<123.0466		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
288	2880	8	S95T002171		DUP	SI-A-01		2014.1452		1946.8844		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
289	2880	8	S95T002171		DUP	SM-A-01		<124.1465		<123.0466		1230.4883	10/25/95	12:50	dks	0.1	@ICP-A01
290	2880	8	S95T002171		DUP	SR-A-01		634.4198		610.9810		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
291	2880	8	S95T002171		DUP	TI-A-01		<12.4146		<12.3047		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
292	2880	8	S95T002171		DUP	TL-A-01		<248.2930		<246.0933		1230.4883	10/25/95	12:50	dks	0.2	@ICP-A01
293	2880	8	S95T002171		DUP	U-A-01		1698.6076		1643.3309		1230.4883	10/25/95	12:50	dks	0.4	@ICP-A01
294	2880	8	S95T002171		DUP	V-A-01		<82.0732		<81.8233		1230.4883	10/25/95	12:50	dks	0.05	@ICP-A01
295	2880	8	S95T002171		DUP	ZN-A-01		26.4340		23.8088		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
296	2880	8	S95T002171		DUP	ZR-A-01		<12.4146		<12.3047		1230.4883	10/25/95	12:50	dks	0.01	@ICP-A01
297	2880	9	S95T002171_S		SPK-PREDIG	AG-A-01		119.79		119.3784		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
298	2880	9	S95T002171_S		SPK-PREDIG	AL-A-01		n/a		n/a		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
299	2880	9	S95T002171_S		SPK-PREDIG	AS-A-01		598.95		591.1316		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
300	2880	9	S95T002171_S		SPK-PREDIG	B-A-01		598.95		656.8666		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
301	2880	9	S95T002171_S		SPK-PREDIG	BA-A-01		598.95		593.7077		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
302	2880	9	S95T002171_S		SPK-PREDIG	BE-A-01		598.95		598.8429		1197.8917	10/25/95	13:05	dks	0.005	@ICP-A01
303	2880	9	S95T002171_S		SPK-PREDIG	BI-A-01		598.95		628.2799		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
304	2880	9	S95T002171_S		SPK-PREDIG	CA-A-01		598.95		669.6609		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
305	2880	9	S95T002171_S		SPK-PREDIG	CD-A-01		598.95		581.1528		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
306	2880	9	S95T002171_S		SPK-PREDIG	CE-A-01		598.95		619.9081		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
307	2880	9	S95T002171_S		SPK-PREDIG	CO-A-01		598.95		582.2363		1197.8917	10/25/95	13:05	dks	0.02	@ICP-A01
308	2880	9	S95T002171_S		SPK-PREDIG	CR-A-01		598.95		591.6027		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
309	2880	9	S95T002171_S		SPK-PREDIG	CU-A-01		598.95		551.9817		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
310	2880	9	S95T002171_S		SPK-PREDIG	FE-A-01		598.95		362.5786		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
311	2880	9	S95T002171_S		SPK-PREDIG	K-A-01		598.95		675.7737		1197.8917	10/25/95	13:05	dks	0.3	@ICP-A01
312	2880	9	S95T002171_S		SPK-PREDIG	LA-A-01		598.95		598.4985		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
313	2880	9	S95T002171_S		SPK-PREDIG	LI-A-01		598.95		583.2466		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
314	2880	9	S95T002171_S		SPK-PREDIG	MG-A-01		598.95		621.8857		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
315	2880	9	S95T002171_S		SPK-PREDIG	MN-A-01		598.95		587.1888		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
316	2880	9	S95T002171_S		SPK-PREDIG	MO-A-01		598.95		577.3709		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
317	2880	9	S95T002171_S		SPK-PREDIG	NA-A-01		n/a		n/a		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
318	2880	9	S95T002171_S		SPK-PREDIG	ND-A-01		598.95		627.2209		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
319	2880	9	S95T002171_S		SPK-PREDIG	NI-A-01		598.95		601.5123		1197.8917	10/25/95	13:05	dks	0.02	@ICP-A01
320	2880	9	S95T002171_S		SPK-PREDIG	P-A-01		n/a		n/a		1197.8917	10/25/95	13:05	dks	0.2	@ICP-A01
321	2880	9	S95T002171_S		SPK-PREDIG	PB-A-01		598.95		597.7070		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
322	2880	9	S95T002171_S		SPK-PREDIG	S-A-01		n/a		n/a		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
323	2880	9	S95T002171_S		SPK-PREDIG	SB-A-01		598.95		631.9536		1197.8917	10/25/95	13:05	dks	0.2	@ICP-A01
324	2880	9	S95T002171_S		SPK-PREDIG	SE-A-01		598.95		622.3462		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
325	2880	9	S95T002171_S		SPK-PREDIG	SI-A-01		n/a		n/a		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
326	2880	9	S95T002171_S		SPK-PREDIG	SM-A-01		598.95		576.3885		1197.8917	10/25/95	13:05	dks	0.1	@ICP-A01
327	2880	9	S95T002171_S		SPK-PREDIG	SR-A-01		598.95		647.2438		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
328	2880	9	S95T002171_S		SPK-PREDIG	TI-A-01		598.95		568.4838		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
329	2880	9	S95T002171_S		SPK-PREDIG	TL-A-01		598.95		609.5031		1197.8917	10/25/95	13:05	dks	0.2	@ICP-A01
330	2880	9	S95T002171_S		SPK-PREDIG	U-A-01		1197.9		1291.5136		1197.8917	10/25/95	13:05	dks	0.4	@ICP-A01
331	2880	9	S95T002171_S		SPK-PREDIG	V-A-01		598.95		571.2958		1197.8917	10/25/95	13:05	dks	0.05	@ICP-A01
332	2880	9	S95T002171_S		SPK-PREDIG	ZN-A-01		598.95		577.1169		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
333	2880	9	S95T002171_S		SPK-PREDIG	ZR-A-01		598.95		581.3254		1197.8917	10/25/95	13:05	dks	0.01	@ICP-A01
334	2880	10			CCV	AG				5.0106		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
335	2880	10			CCV	AL				4.9416		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
336	2880	10			CCV	AS				5.0695		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
337	2880	10			CCV	B				5.0929		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
338	2880	10			CCV	BA				4.9573		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
339	2880	10			CCV	BE				5.1763		1.0000	10/25/95	13:11	dks	0.005	@ICP-QC
340	2880	10			CCV	BI				5.0100		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
341	2880	10			CCV	CA				5.0130		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
342	2880	10			CCV	CD				5.0607		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
343	2880	10			CCV	CE				5.0204		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
344	2880	10			CCV	CO				4.9611		1.0000	10/25/95	13:11	dks	0.02	@ICP-QC
345	2880	10			CCV	CR				5.0380		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
346	2880	10			CCV	CU				5.0399		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
347	2880	10			CCV	FE				5.1307		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
348	2880	10			CCV	K				5.1431		1.0000	10/25/95	13:11	dks	0.3	@ICP-QC
349	2880	10			CCV	LA				5.0614		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
350	2880	10			CCV	LI				4.9951		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
351	2880	10			CCV	MG				4.9014		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
352	2880	10			CCV	MN				5.0371		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
353	2880	10			CCV	MO				4.9733		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
354	2880	10			CCV	NA				4.9768		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
355	2880	10			CCV	ND				5.3327		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
356	2880	10			CCV	NI				5.0110		1.0000	10/25/95	13:11	dks	0.02	@ICP-QC
357	2880	10			CCV	P				4.9847		1.0000	10/25/95	13:11	dks	0.2	@ICP-QC
358	2880	10			CCV	PB				5.0778		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
359	2880	10			CCV	S				4.9094		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
360	2880	10			CCV	SB				4.7724		1.0000	10/25/95	13:11	dks	0.2	@ICP-QC
361	2880	10			CCV	SE				5.1702		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
362	2880	10			CCV	SI				4.9075		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
363	2880	10			CCV	SM				4.8637		1.0000	10/25/95	13:11	dks	0.1	@ICP-QC
364	2880	10			CCV	SR				4.9665		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
365	2880	10			CCV	TI				4.7943		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
366	2880	10			CCV	TL				4.8793		1.0000	10/25/95	13:11	dks	0.2	@ICP-QC
367	2880	10			CCV	U				9.5635		1.0000	10/25/95	13:11	dks	0.4	@ICP-QC
368	2880	10			CCV	V				4.8876		1.0000	10/25/95	13:11	dks	0.05	@ICP-QC
369	2880	10			CCV	ZN				5.0898		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
370	2880	10			CCV	ZR				4.9475		1.0000	10/25/95	13:11	dks	0.01	@ICP-QC
371	2880	11			CCB	AG				0.0007		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
372	2880	11			CCB	AL				-0.0225		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
373	2880	11			CCB	AS				0.0144		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
374	2880	11			CCB	B				0.0002		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
375	2880	11			CCB	BA				0.0002		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
376	2880	11			CCB	BE				-0.0003		1.0000	10/25/95	13:16	dks	0.005	@ICP-QC
377	2880	11			CCB	BI				-0.0083		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
378	2880	11			CCB	CA				0.0005		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
379	2880	11			CCB	CD				-0.0002		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
380	2880	11			CCB	CE				-0.0085		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
381	2880	11			CCB	CO				0.0000		1.0000	10/25/95	13:16	dks	0.02	@ICP-QC
382	2880	11			CCB	CR				-0.0013		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
383	2880	11			CCB	CU				0.0003		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
384	2880	11			CCB	FE				0.0023		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
385	2880	11			CCB	K				-0.0712		1.0000	10/25/95	13:16	dks	0.3	@ICP-QC
386	2880	11			CCB	LA				0.0020		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
387	2880	11			CCB	LI				0.0005		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
388	2880	11			CCB	MG				-0.0001		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
389	2880	11			CCB	MN				0.0002		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
390	2880	11			CCB	MO				0.0004		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
391	2880	11			CCB	NA				0.0080		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
392	2880	11			CCB	ND				0.0160		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
393	2880	11			CCB	NI				-0.0023		1.0000	10/25/95	13:16	dks	0.02	@ICP-QC
394	2880	11			CCB	P				0.0144		1.0000	10/25/95	13:16	dks	0.2	@ICP-QC
395	2880	11			CCB	PB				0.0098		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
396	2880	11			CCB	S				0.0082		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
397	2880	11			CCB	SB				-0.0083		1.0000	10/25/95	13:16	dks	0.2	@ICP-QC
398	2880	11			CCB	SE				0.0080		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
399	2880	11			CCB	SI				-0.0025		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
400	2880	11			CCB	SM				-0.0298		1.0000	10/25/95	13:16	dks	0.1	@ICP-QC
401	2880	11			CCB	SR				0.0002		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
402	2880	11			CCB	TI				-0.0010		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
403	2880	11			CCB	TL				-0.0174		1.0000	10/25/95	13:16	dks	0.2	@ICP-QC
404	2880	11			CCB	U				-0.0718		1.0000	10/25/95	13:16	dks	0.4	@ICP-QC
405	2880	11			CCB	V				-0.0017		1.0000	10/25/95	13:16	dks	0.05	@ICP-QC
406	2880	11			CCB	ZN				0.0003		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
407	2880	11			CCB	ZR				-0.0019		1.0000	10/25/95	13:16	dks	0.01	@ICP-QC
408	2880	12	S95T002172			AG-A-01		<		10.2869		1028.6840	10/25/95	13:23	dks	0.01	@ICP-A01

WHC-SD-WM-DP-145, REV.1

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
409	2880	12	S95T002172			AL-A-01				24880.4053		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
410	2880	12	S95T002172			AS-A-01			<	51.3347		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
411	2880	12	S95T002172			B-A-01				163.2503		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
412	2880	12	S95T002172			BA-A-01				408.1904		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
413	2880	12	S95T002172			BE-A-01			<	5.1336		1026.6040	10/25/95	13:23	dks	0.005	@ICP-A01
414	2880	12	S95T002172			BI-A-01				786.6485		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
415	2880	12	S95T002172			CA-A-01				5738.7431		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
416	2880	12	S95T002172			CD-A-01			<	10.2669		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
417	2880	12	S95T002172			CE-A-01				446.4614		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
418	2880	12	S95T002172			CO-A-01				27.4411		1026.6040	10/25/95	13:23	dks	0.02	@ICP-A01
419	2880	12	S95T002172			CR-A-01				2080.8706		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
420	2880	12	S95T002172			CU-A-01				21.5687		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
421	2880	12	S95T002172			FE-A-01				17777.1471		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
422	2880	12	S95T002172			K-A-01				1561.9489		1026.6040	10/25/95	13:23	dks	0.3	@ICP-A01
423	2880	12	S95T002172			LA-A-01			<	51.3347		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
424	2880	12	S95T002172			LI-A-01			<	10.2669		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
425	2880	12	S95T002172			MG-A-01				1073.8618		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
426	2880	12	S95T002172			MN-A-01				281.5726		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
427	2880	12	S95T002172			MO-A-01			<	51.3347		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
428	2880	12	S95T002172			NA-A-01				131703.1886		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
429	2880	12	S95T002172			ND-A-01			<	102.6694		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
430	2880	12	S95T002172			NI-A-01				12211.8444		1026.6040	10/25/95	13:23	dks	0.02	@ICP-A01
431	2880	12	S95T002172			P-A-01				14153.7736		1026.6040	10/25/95	13:23	dks	0.2	@ICP-A01
432	2880	12	S95T002172			PB-A-01				1314.0364		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
433	2880	12	S95T002172			S-A-01				5169.8084		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
434	2880	12	S95T002172			SB-A-01			<	205.3388		1026.6040	10/25/95	13:23	dks	0.2	@ICP-A01
435	2880	12	S95T002172			SE-A-01			<	102.6694		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
436	2880	12	S95T002172			SI-A-01				3457.1300		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
437	2880	12	S95T002172			SM-A-01			<	102.6694		1026.6040	10/25/95	13:23	dks	0.1	@ICP-A01
438	2880	12	S95T002172			SR-A-01				25634.7593		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
439	2880	12	S95T002172			TI-A-01				36.3828		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
440	2880	12	S95T002172			TL-A-01			<	205.3388		1026.6040	10/25/95	13:23	dks	0.2	@ICP-A01
441	2880	12	S95T002172			U-A-01				15427.6228		1026.6040	10/25/95	13:23	dks	0.4	@ICP-A01
442	2880	12	S95T002172			V-A-01			<	51.3347		1026.6040	10/25/95	13:23	dks	0.05	@ICP-A01
443	2880	12	S95T002172			ZN-A-01				250.8205		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
444	2880	12	S95T002172			ZR-A-01			<	10.2669		1026.6040	10/25/95	13:23	dks	0.01	@ICP-A01
445	2880	13	S95T002172		DUP	AG-A-01		<10.2669		<9.6339		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
446	2880	13	S95T002172		DUP	AL-A-01		24880.4053		24810.1980		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
447	2880	13	S95T002172		DUP	AS-A-01		<51.3347		<48.1696		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
448	2880	13	S95T002172		DUP	B-A-01		163.2503		163.4262		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
449	2880	13	S95T002172		DUP	BA-A-01		408.1904		404.8636		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
450	2880	13	S95T002172		DUP	BE-A-01		<5.1336		<4.8170		963.3911	10/25/95	13:26	dks	0.005	@ICP-A01
451	2880	13	S95T002172		DUP	BI-A-01		786.6485		784.7386		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
452	2880	13	S95T002172		DUP	CA-A-01		5738.7431		5805.4537		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
453	2880	13	S95T002172		DUP	CD-A-01		<10.2669		<9.6339		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
454	2880	13	S95T002172		DUP	CE-A-01		446.4614		446.2896		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
455	2880	13	S95T002172		DUP	CO-A-01		27.4411		<19.2678		963.3911	10/25/95	13:26	dks	0.02	@ICP-A01
456	2880	13	S95T002172		DUP	CR-A-01		2080.8706		2058.0068		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
457	2880	13	S95T002172		DUP	CU-A-01		21.5687		22.9267		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
458	2880	13	S95T002172		DUP	FE-A-01		17777.1471		17689.0175		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
459	2880	13	S95T002172		DUP	K-A-01		1561.9489		1464.8376		963.3911	10/25/95	13:26	dks	0.3	@ICP-A01
460	2880	13	S95T002172		DUP	LA-A-01		<51.3347		<48.1696		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
461	2880	13	S95T002172		DUP	LI-A-01		<10.2669		<9.6339		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
462	2880	13	S95T002172		DUP	MG-A-01		1073.8618		1007.3869		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
463	2880	13	S95T002172		DUP	MN-A-01		281.5726		280.5014		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
464	2880	13	S95T002172		DUP	MO-A-01		<51.3347		<48.1696		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
465	2880	13	S95T002172		DUP	NA-A-01		131703.1886		130021.4420		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
466	2880	13	S95T002172		DUP	ND-A-01		<102.6694		<96.3391		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
467	2880	13	S95T002172		DUP	NI-A-01		12211.8444		12087.5258		963.3911	10/25/95	13:26	dks	0.02	@ICP-A01
468	2880	13	S95T002172		DUP	P-A-01		14153.7736		13738.1069		963.3911	10/25/95	13:26	dks	0.2	@ICP-A01
469	2880	13	S95T002172		DUP	PB-A-01		1314.0364		1323.0612		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
470	2880	13	S95T002172		DUP	S-A-01		5169.8084		5082.0218		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
471	2880	13	S95T002172		DUP	SB-A-01		<205.3388		210.7163		963.3911	10/25/95	13:26	dks	0.2	@ICP-A01
472	2880	13	S95T002172		DUP	SE-A-01		<102.6694		<96.3391		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
473	2880	13	S95T002172		DUP	SI-A-01		3457.1300		3341.4313		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
474	2880	13	S95T002172		DUP	SM-A-01		<102.6694		<96.3391		963.3911	10/25/95	13:26	dks	0.1	@ICP-A01
475	2880	13	S95T002172		DUP	SR-A-01		25634.7593		25619.2948		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
476	2880	13	S95T002172		DUP	TI-A-01		36.3828		32.9447		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
477	2880	13	S95T002172		DUP	TL-A-01		<205.3388		<192.6782		963.3911	10/25/95	13:26	dks	0.2	@ICP-A01
478	2880	13	S95T002172		DUP	U-A-01		15427.6228		15413.5879		963.3911	10/25/95	13:26	dks	0.4	@ICP-A01
479	2880	13	S95T002172		DUP	V-A-01		<51.3347		<48.1696		963.3911	10/25/95	13:26	dks	0.05	@ICP-A01
480	2880	13	S95T002172		DUP	ZN-A-01		250.8205		247.2353		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
481	2880	13	S95T002172		DUP	ZR-A-01		<10.2669		<9.6339		963.3911	10/25/95	13:26	dks	0.01	@ICP-A01
482	2880	14			ICSA	AG				0.0023		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
483	2880	14			ICSA	AL				200.2659		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
484	2880	14			ICSA	AS				0.0158		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
485	2880	14			ICSA	B				0.0115		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
486	2880	14			ICSA	BA				0.0042		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
487	2880	14			ICSA	BE				0.0022		1.0000	10/25/95	13:33	dks	0.005	@ICP-QC
488	2880	14			ICSA	BI				-0.0496		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
489	2880	14			ICSA	CA				99.7236		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
490	2880	14			ICSA	CD				0.0036		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
491	2880	14			ICSA	CE				0.0102		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
492	2880	14			ICSA	CO				0.0029		1.0000	10/25/95	13:33	dks	0.02	@ICP-QC
493	2880	14			ICSA	CR				-0.0021		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
494	2880	14			ICSA	CU				0.0037		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
495	2880	14			ICSA	FE				97.6297		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
496	2880	14			ICSA	K				-0.0381		1.0000	10/25/95	13:33	dks	0.3	@ICP-QC
497	2880	14			ICSA	LA				0.0029		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
498	2880	14			ICSA	LI				0.0003		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
499	2880	14			ICSA	MG				102.2546		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
500	2880	14			ICSA	MN				0.0083		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
501	2880	14			ICSA	MO				0.0023		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
502	2880	14			ICSA	NA				186.8857		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
503	2880	14			ICSA	ND				0.0043		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
504	2880	14			ICSA	NI				0.0081		1.0000	10/25/95	13:33	dks	0.02	@ICP-QC
505	2880	14			ICSA	P				0.0482		1.0000	10/25/95	13:33	dks	0.2	@ICP-QC
506	2880	14			ICSA	PB				0.0071		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
507	2880	14			ICSA	S				0.0136		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
508	2880	14			ICSA	SB				0.3128		1.0000	10/25/95	13:33	dks	0.2	@ICP-QC
509	2880	14			ICSA	SE				0.0077		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
510	2880	14			ICSA	SI				0.0282		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
511	2880	14			ICSA	SM				-0.0002		1.0000	10/25/95	13:33	dks	0.1	@ICP-QC
512	2880	14			ICSA	SR				0.0022		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
513	2880	14			ICSA	TI				-0.0004		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
514	2880	14			ICSA	TL				-0.0153		1.0000	10/25/95	13:33	dks	0.2	@ICP-QC
515	2880	14			ICSA	U				-0.0875		1.0000	10/25/95	13:33	dks	0.4	@ICP-QC
516	2880	14			ICSA	V				0.0006		1.0000	10/25/95	13:33	dks	0.05	@ICP-QC
517	2880	14			ICSA	ZN				-0.0063		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
518	2880	14			ICSA	ZR				0.0053		1.0000	10/25/95	13:33	dks	0.01	@ICP-QC
519	2880	15			ICSAB	AG				1.0119		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
520	2880	15			ICSAB	AL				197.5799		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
521	2880	15			ICSAB	AS				0.0247		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
522	2880	15			ICSAB	B				0.0167		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
523	2880	15			ICSAB	BA				0.4807		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
524	2880	15			ICSAB	BE				0.4896		1.0000	10/25/95	13:36	dks	0.005	@ICP-QC
525	2880	15			ICSAB	BI				-0.0382		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
526	2880	15			ICSAB	CA				99.5405		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
527	2880	15			ICSAB	CD				0.9842		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
528	2880	15			ICSAB	CE				0.0121		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
529	2880	15			ICSAB	CO				0.4880		1.0000	10/25/95	13:36	dks	0.02	@ICP-QC
530	2880	15			ICSAB	CR				0.4847		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
531	2880	15			ICSAB	CU				0.4920		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
532	2880	15			ICSAB	FE				97.2036		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
533	2880	15			ICSAB	K				0.0640		1.0000	10/25/95	13:36	dks	0.3	@ICP-QC
534	2880	15			ICSAB	LA				0.0064		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
535	2880	15			ICSAB	LI				0.9071		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
536	2880	15			ICSAB	MG				103.5655		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
537	2880	15			ICSAB	MN				0.5017		1.0000	10/25/95	13:36	dks	0.01	@ICP-QC
538	2880	15			ICSAB	MO				0.0001		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC
539	2880	15			ICSAB	NA				184.7976		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
540	2880	15			ICSAB	ND				0.0009		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
541	2880	15			ICSAB	NI				0.9867		1.0000	10/25/95	13:36	dks	0.02	@ICP-QC
542	2880	15			ICSAB	P				0.0560		1.0000	10/25/95	13:36	dks	0.2	@ICP-QC
543	2880	15			ICSAB	PB				0.9825		1.0000	10/25/95	13:36	dks	0.1	@ICP-QC
544	2880	15			ICSAB	S				0.0269		1.0000	10/25/95	13:36	dks	0.05	@ICP-QC

WHC-SD-WM-DP-145, REV. 1

G32

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
645	2880	15			ICSAB	BB				0.3089		1.0000	10/25/95	13:30	dks	0.2	@ICP-QC
646	2880	15			ICSAB	BE				0.0011		1.0000	10/25/95	13:30	dks	0.1	@ICP-QC
647	2880	15			ICSAB	BI				0.0362		1.0000	10/25/95	13:30	dks	0.05	@ICP-QC
648	2880	15			ICSAB	BM				0.0166		1.0000	10/25/95	13:30	dks	0.1	@ICP-QC
649	2880	15			ICSAB	BR				0.0016		1.0000	10/25/95	13:30	dks	0.01	@ICP-QC
650	2880	15			ICSAB	TI				-0.0002		1.0000	10/25/95	13:30	dks	0.01	@ICP-QC
651	2880	15			ICSAB	TL				0.0299		1.0000	10/25/95	13:30	dks	0.2	@ICP-QC
652	2880	15			ICSAB	U				-0.0171		1.0000	10/25/95	13:30	dks	0.4	@ICP-QC
653	2880	15			ICSAB	V				0.4822		1.0000	10/25/95	13:30	dks	0.05	@ICP-QC
654	2880	15			ICSAB	ZN				0.9879		1.0000	10/25/95	13:30	dks	0.01	@ICP-QC
655	2880	15			ICSAB	ZR				0.0036		1.0000	10/25/95	13:30	dks	0.01	@ICP-QC
656	2880	16			CCV	AG				4.9421		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
657	2880	16			CCV	AL				4.8234		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
658	2880	16			CCV	AS				5.0314		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
659	2880	16			CCV	B				5.0779		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
660	2880	16			CCV	BA				4.8805		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
661	2880	16			CCV	BE				5.1671		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
662	2880	16			CCV	BI				4.9789		1.0000	10/25/95	13:41	dks	0.005	@ICP-QC
663	2880	16			CCV	CA				5.0118		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
664	2880	16			CCV	CD				5.0331		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
665	2880	16			CCV	CE				4.9867		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
666	2880	16			CCV	CO				4.9391		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
667	2880	16			CCV	CR				4.9890		1.0000	10/25/95	13:41	dks	0.02	@ICP-QC
668	2880	16			CCV	CU				5.0423		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
669	2880	16			CCV	FE				5.1233		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
670	2880	16			CCV	K				5.0846		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
671	2880	16			CCV	LA				5.0510		1.0000	10/25/95	13:41	dks	0.3	@ICP-QC
672	2880	16			CCV	LI				4.9814		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
673	2880	16			CCV	MG				4.8624		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
674	2880	16			CCV	MN				5.0130		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
675	2880	16			CCV	MO				4.9180		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
676	2880	16			CCV	NA				4.9434		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
677	2880	16			CCV	ND				5.4041		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
678	2880	16			CCV	NI				4.9838		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
679	2880	16			CCV	P				4.8823		1.0000	10/25/95	13:41	dks	0.02	@ICP-QC
680	2880	16			CCV	PB				5.0574		1.0000	10/25/95	13:41	dks	0.2	@ICP-QC
681	2880	16			CCV	S				4.8213		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
682	2880	16			CCV	SB				4.7905		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
683	2880	16			CCV	SE				5.1293		1.0000	10/25/95	13:41	dks	0.2	@ICP-QC
684	2880	16			CCV	SI				4.8712		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
685	2880	16			CCV	SM				4.8786		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
686	2880	16			CCV	SR				4.9631		1.0000	10/25/95	13:41	dks	0.1	@ICP-QC
687	2880	16			CCV	TI				4.7712		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
688	2880	16			CCV	TL				4.8065		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
689	2880	16			CCV	U				5.0074		1.0000	10/25/95	13:41	dks	0.2	@ICP-QC
690	2880	16			CCV	V				4.9466		1.0000	10/25/95	13:41	dks	0.4	@ICP-QC
691	2880	16			CCV	ZN				4.9863		1.0000	10/25/95	13:41	dks	0.05	@ICP-QC
692	2880	16			CCV	ZR				4.9377		1.0000	10/25/95	13:41	dks	0.01	@ICP-QC
693	2880	17			CCB	AG				0.0021		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
694	2880	17			CCB	AL				-0.0061		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
695	2880	17			CCB	AS				0.0183		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
696	2880	17			CCB	B				-0.0003		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
697	2880	17			CCB	BA				0.0004		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
698	2880	17			CCB	BE				-0.0001		1.0000	10/25/95	14:00	dks	0.005	@ICP-QC
699	2880	17			CCB	BI				-0.0144		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
700	2880	17			CCB	CA				0.0009		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
701	2880	17			CCB	CD				0.0012		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
702	2880	17			CCB	CE				0.0211		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
703	2880	17			CCB	CO				-0.0010		1.0000	10/25/95	14:00	dks	0.02	@ICP-QC
704	2880	17			CCB	CR				-0.0038		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
705	2880	17			CCB	CU				0.0006		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
706	2880	17			CCB	FE				-0.0013		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
707	2880	17			CCB	K				-0.0279		1.0000	10/25/95	14:00	dks	0.3	@ICP-QC
708	2880	17			CCB	LA				0.0018		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
709	2880	17			CCB	LI				0.0008		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
710	2880	17			CCB	MG				0.0000		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
711	2880	17			CCB	MN				0.0002		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
712	2880	17			CCB	MO				0.0023		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
713	2880	17			CCB	NA				0.0114		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
714	2880	17			CCB	ND				0.0096		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
715	2880	17			CCB	NI				-0.0010		1.0000	10/25/95	14:00	dks	0.02	@ICP-QC
716	2880	17			CCB	P				0.0004		1.0000	10/25/95	14:00	dks	0.2	@ICP-QC
717	2880	17			CCB	PB				0.0080		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
718	2880	17			CCB	S				0.0053		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
719	2880	17			CCB	SB				0.0841		1.0000	10/25/95	14:00	dks	0.2	@ICP-QC
720	2880	17			CCB	SE				0.0036		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
721	2880	17			CCB	SI				0.0040		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
722	2880	17			CCB	SM				-0.0238		1.0000	10/25/95	14:00	dks	0.1	@ICP-QC
723	2880	17			CCB	SR				0.0002		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
724	2880	17			CCB	TI				0.0001		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
725	2880	17			CCB	TL				-0.0149		1.0000	10/25/95	14:00	dks	0.2	@ICP-QC
726	2880	17			CCB	U				0.0195		1.0000	10/25/95	14:00	dks	0.4	@ICP-QC
727	2880	17			CCB	V				0.0002		1.0000	10/25/95	14:00	dks	0.05	@ICP-QC
728	2880	17			CCB	ZN				0.0002		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
729	2880	17			CCB	ZR				0.0001		1.0000	10/25/95	14:00	dks	0.01	@ICP-QC
730	2880	18			CCB	AG				0.0014		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
731	2880	18			CCB	AL				-0.0074		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
732	2880	18			CCB	AS				0.0083		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
733	2880	18			CCB	B				0.0008		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
734	2880	18			CCB	BA				0.0005		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
735	2880	18			CCB	BE				0.0000		1.0000	10/25/95	14:12	dks	0.005	@ICP-QC
736	2880	18			CCB	BI				-0.0180		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
737	2880	18			CCB	CA				0.0005		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
738	2880	18			CCB	CD				0.0008		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
739	2880	18			CCB	CE				0.0280		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
740	2880	18			CCB	CO				0.0057		1.0000	10/25/95	14:12	dks	0.02	@ICP-QC
741	2880	18			CCB	CR				-0.0013		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
742	2880	18			CCB	CU				0.0007		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
743	2880	18			CCB	FE				0.0017		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
744	2880	18			CCB	K				0.0484		1.0000	10/25/95	14:12	dks	0.3	@ICP-QC
745	2880	18			CCB	LA				0.0026		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
746	2880	18			CCB	LI				0.0010		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
747	2880	18			CCB	MG				-0.0000		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
748	2880	18			CCB	MN				0.0003		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
749	2880	18			CCB	MO				0.0008		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
750	2880	18			CCB	NA				0.0160		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
751	2880	18			CCB	ND				0.0218		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
752	2880	18			CCB	NI				-0.0008		1.0000	10/25/95	14:12	dks	0.02	@ICP-QC
753	2880	18			CCB	P				0.0145		1.0000	10/25/95	14:12	dks	0.2	@ICP-QC
754	2880	18			CCB	PB				-0.0191		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
755	2880	18			CCB	S				0.0020		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
756	2880	18			CCB	SB				0.1570		1.0000	10/25/95	14:12	dks	0.2	@ICP-QC
757	2880	18			CCB	SE				-0.0322		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
758	2880	18			CCB	SI				-0.0081		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
759	2880	18			CCB	SM				-0.0286		1.0000	10/25/95	14:12	dks	0.1	@ICP-QC
760	2880	18			CCB	SR				0.0003		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
761	2880	18			CCB	TI				-0.0005		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
762	2880	18			CCB	TL				0.0168		1.0000	10/25/95	14:12	dks	0.2	@ICP-QC
763	2880	18			CCB	U				-0.0829		1.0000	10/25/95	14:12	dks	0.4	@ICP-QC
764	2880	18			CCB	V				0.0001		1.0000	10/25/95	14:12	dks	0.05	@ICP-QC
765	2880	18			CCB	ZN				0.0002		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC
766	2880	18			CCB	ZR				-0.0016		1.0000	10/25/95	14:12	dks	0.01	@ICP-QC

SOP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2881

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 **Book#** 48B48B

Method: LA-505-~~151~~(161) Rev/Mod B-1

Worklist Comment: ICP BY-108 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T002174	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

8	DUP	S95T002174	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T002174	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T002175	0	A	@ICP-A01	SOLID	95000118	BY-108 (R)

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2881

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T002175	0	A	@ICP-A01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Final page for worklist # 2881

Reviewed by:

[signature] 10-26-95
Analyst Signature Date

[signature] 10/30/95
Analyst Signature Date

PREPSTD TJA	5mL EA. (WHC1A+2) in 100mL, DIRECT	2.5
PREPBLK TJA	100mL, DIRECT	1
		1
S95T002174_L	.2106g in 100mL - 2mL - 8mL - 2mL - 8mL	11,871
S95T002174	.2106g in 100mL - 2mL - 8mL	2374
S95T002174_D	.1928g in 100mL - 2mL - 8mL	2593
S95T002174_S	.2151g in 100mL - 2mL - 8mL	2324
S95T002175_L	.3355g in 100mL - 2mL - 8mL - 2mL - 8mL	7452
S95T002175	.3355g in 100mL - 2mL - 8mL	1490
S95T002175_D	.3370g in 100mL - 2mL - 8mL	1484

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951026A	ICP2	10/26/95	13:15	BJG	Q	CONC
2	ICB	951026A	ICP2	10/26/95	13:18	BJG	Q	CONC
3	ICSA	951026A	ICP2	10/26/95	13:21	BJG	Q	CONC
4	ICSAB	951026A	ICP2	10/26/95	13:24	BJG	Q	CONC
5	PREPSTDTJA	951026A	ICP2	10/26/95	13:28	BJG	S	CONC
6	PREPBLKTJA	951026A	ICP2	10/26/95	13:31	BJG	S	CONC
7	S95T002174_L	951026A	ICP2	10/26/95	13:34	BJG	S	CONC
8	S95T002174_	951026A	ICP2	10/26/95	13:37	BJG	S	CONC
9	S95T002174_D	951026A	ICP2	10/26/95	13:42	BJG	S	CONC
10	S95T002174_S	951026A	ICP2	10/26/95	13:45	BJG	S	CONC
11	CCV	951026A	ICP2	10/26/95	13:50	BJG	Q	CONC
12	CCB	951026A	ICP2	10/26/95	13:53	BJG	Q	CONC
13	S95T002175_L	951026A	ICP2	10/26/95	13:56	BJG	S	CONC
14	S95T002175_	951026A	ICP2	10/26/95	13:59	BJG	S	CONC
15	S95T002175_D	951026A	ICP2	10/26/95	14:03	BJG	S	CONC
16	ICSA	951026A	ICP2	10/26/95	14:06	BJG	Q	CONC
~~17~~	~~ICSAB~~ BJG 10-26-95	951026A	ICP2	10/26/95	14:09	BJG	Q	CONC
18	ICSAB	951026A	ICP2	10/26/95	14:14	BJG	Q	CONC
19	CCV_1	951026A	ICP2	10/26/95	14:17	BJG	Q	CONC
20	CCB_1	951026A	ICP2	10/26/95	14:20	BJG	Q	CONC

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BJG 10-26-95
64-108
S95T002174,75
ACID DIGEST
2ml-8ml

WHC-SD-WM-DP-145, REV 1

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 636 TO 640.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.039	4.875	5.108	5.004	5.035	5.144
2	ICB	.0019	.0071	.0071	.0064	.0002	.0001
3	ICSA	-.0101	240.8	-.0102	-.0023	.0019	.0001
4	ICSAB	.9545	238.7	-.0124	-.0057	.4742	.4762
5	PREPSTDTJA	.9556	5.005	4.877	5.733	4.899	5.272
6	PREPBLKTJA	.0021	.0151	.0063	.0272	.0008	.0001
7	S95T002174_L	12.91	24870.	166.7	81.39	614.9	.9559
8	S95T002174	-1.200	24210.	41.85	43.30	599.5	.5425
9	S95T002174_D	-.2362	24250.	25.38	122.6	598.1	.5237
10	S95T002174_S	454.7	27560.	2367.	2311.	2856.	2317.
11	CCV	5.115	5.002	5.257	5.164	5.213	5.295
12	CCB	.0022	.0110	.0159	.0055	.0001	.0001
13	S95T002175_L	8.347	21560.	-9.110	30.31	255.6	1.194
14	S95T002175	-4.099	20950.	-6.499	30.78	249.0	.4544
15	S95T002175_D	-3.052	22270.	-11.30	35.96	263.3	.3786
16	ICSA	-.0112	245.3	-.0590	-.0041	.0019	.0002
17	ICSAB	Q-.0110	245.9	-.0154	-.0033	Q.0018	Q.0002
18	ICSAB	.9692	244.0	-.0084	-.0008	.4885	.4905
19	CCV_1	5.096	4.983	5.260	5.154	5.247	5.323
20	CCB_1	.0016	.0098	.0108	.0106	.0001	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.096	5.200	5.076	5.155	5.092	5.140
2	ICB	-.0076	.0043	.0009	.0135	.0018	.0006
3	ICSA	.0058	245.0	.0032	.0183	.0023	.0074
4	ICSAB	-.0025	250.3	.9440	.0112	.4706	.4693
5	PREPSTDTJA	4.778	5.056	4.777	5.039	4.906	4.893
6	PREPBLKTJA	.0072	.1132	.0013	.0115	.0034	.0018
7	S95T002174_L	1860.	6684.	12.90	-16.58	11.38	1247.
8	S95T002174	2169.	6357.	1.136	-72.96	8.098	1197.
9	S95T002174_D	1799.	6053.	4.296	-80.46	10.09	1097.
10	S95T002174_S	3962.	8958.	2230.	2278.	2258.	3336.
11	CCV	5.246	5.303	5.150	5.325	5.169	5.209
12	CCB	-.0040	.0009	.0018	.0063	.0002	.0008
13	S95T002175_L	1641.	17080.	10.02	77.00	16.00	226.9
14	S95T002175	1715.	16390.	2.470	21.51	5.719	217.3
15	S95T002175_D	1771.	17390.	2.298	33.08	6.379	233.3
16	ICSA	-.0288	246.9	.0028	.0135	.0034	.0070
17	ICSAB	.0024	252.0	Q.0017	.0132	Q.0034	Q.0059
18	ICSAB	-.0272	254.6	.9590	.0134	.4775	.4765
19	CCV_1	5.202	5.319	5.149	5.346	5.155	5.211
20	CCB_1	-.0156	.0004	.0008	.0057	.0016	.0008

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.116	.0085	5.103	5.014	5.066	5.035
2	ICB	-.0000	.0003	.0017	.2182	.0023	.0001
3	ICSA	-.0096	-.0083	91.49	.5096	-.0028	.0027
4	ICSAB	.4827	-.0122	92.75	.3433	-.0029	.9759
5	PREPSTDTJA	4.859	.0067	4.846	4.933	4.960	4.879

WHC-SD-WM-DP-145, REV. 1

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#	Sample Name	Cu	Eu	Fe	K	La	Li
6	PREPBLKTJA	.0026	-.0010	.0169	.4016	.0021	-.0009
7	S95T002174_L	17.01	9.449	31990.	4552.	43.47	3.018
8	S95T002174	18.45	4.353	30690.	1941.	35.79	1.956
9	S95T002174_D	19.11	2.567	26480.	2135.	34.10	1.749
10	S95T002174_S	2102.	6.134	25160.	4390.	2340.	2322.
11	CCV	5.306	.0072	5.213	5.165	5.220	5.269
12	CCB	.0008	-.0007	.0017	.1474	.0010	-.0009
13	S95T002175_L	20.16	8.725	39230.	2969.	48.35	-4.903
14	S95T002175	18.35	12.03	37580.	1888.	41.20	1.393
15	S95T002175_D	20.30	13.55	39950.	2109.	43.08	2.487
16	ICSA	-.0096	-.0063	92.49	.2294	-.0036	.0015
17	ICSAB	Q-.0100	-.0118	93.62	.2696	-.0031	Q.0019
18	ICSAB	.4983	-.0134	94.64	.2355	-.0026	1.009
19	CCV_1	5.330	.0074	5.211	5.232	5.257	5.289
20	CCB_1	-.0002	-.0004	.0015	.2249	.0013	-.0007

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.949	4.984	5.116	5.027	5.110	5.057
2	ICB	.0044	.0003	.0054	-.0007	.0016	.0050
3	ICSA	245.0	-.0059	-.0057	196.4	.0044	-.0112
4	ICSAB	244.7	.4472	-.0124	194.5	.0128	.9031
5	PREPSTDTJA	4.721	4.776	4.932	5.937	4.848	4.855
6	PREPBLKTJA	.0220	.0003	.0053	.2922	.0057	-.0040
7	S95T002174_L	1440.	428.3	18.83	127200.	224.3	13320.
8	S95T002174	1297.	409.2	1.608	124600.	202.4	12750.
9	S95T002174_D	1242.	353.2	3.095	131200.	204.8	12940.
10	S95T002174_S	3507.	2484.	2275.	129900.	2469.	15000.
11	CCV	5.064	5.055	5.207	5.212	5.286	5.102
12	CCB	.0130	-.0001	.0061	-.0088	.0038	.0019
13	S95T002175_L	1165.	389.8	6.450	141200.	129.2	8133.
14	S95T002175	1139.	374.9	4.429	138800.	115.3	7811.
15	S95T002175_D	1186.	400.5	-1.256	147400.	122.8	8341.
16	ICSA	249.3	-.0066	-.0084	202.2	.0051	-.0056
17	ICSAB	250.3	Q-.0063	-.0047	201.1	.0044	Q-.0166
18	ICSAB	249.7	.4525	-.0118	200.0	.0128	.9196
19	CCV_1	5.044	5.045	5.197	5.189	5.321	5.113
20	CCB_1	.0070	.0001	.0039	-.0092	.0019	.0009

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.058	5.116	4.941	4.822	4.920	4.868
2	ICB	-.0091	.0163	-.0078	-.0058	.0184	.0081
3	ICSA	-.0054	.0588	-.0148	-.0122	-.0105	.0086
4	ICSAB	-.0124	1.020	.0476	-.0009	-.0045	.0229
5	PREPSTDTJA	4.946	4.787	4.644	4.565	4.774	13.08
6	PREPBLKTJA	-.0137	.0244	.0482	.0002	.0026	.1040
7	S95T002174_L	13090.	2000.	1564.	.4413	237.0	2713.
8	S95T002174	12950.	1856.	1702.	25.58	16.53	2525.
9	S95T002174_D	15830.	1732.	2089.	25.41	-.1215	2547.
10	S95T002174_S	15700.	4000.	3799.	2148.	2221.	5137.
11	CCV	5.212	5.182	5.023	4.932	5.018	4.954

WHC-SD-WM-DP-145, REV.1

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#	Sample Name	P	Pb	S	Sb	Se	Si
12	CCB	-.0139	.0076	.0069	-.0072	-.0154	.0040
13	S95T002175_L	20280.	2949.	949.5	-15.66	29.08	1895.
14	S95T002175	19520.	2754.	907.2	6.644	-10.56	1859.
15	S95T002175_D	20740.	2904.	946.9	-22.11	15.94	1967.
16	ICSA	-.0007	.0546	-.0416	.0060	-.0218	.0044
17	ICSAB	.0254	Q.0477	-.0110	.0083	-.0138	.0075
18	ICSAB	.0049	1.046	.0577	.0120	-.0080	.0195
19	CCV_1	5.205	5.160	5.034	4.923	5.076	4.942
20	CCB_1	-.0029	.0143	.0032	-.0019	.0000	.0037

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.936	4.969	.0387	4.914	4.854	9.573
2	ICB	.0014	.0001	.0058	.0006	.0240	.0117
3	ICSA	-.0056	.0017	-.0154	.0021	.0808	.0700
4	ICSAB	-.0067	-.0041	-.0074	.0030	.0442	.0320
5	PREPSTDTJA	4.818	4.866	.0357	4.796	4.683	9.484
6	PREPBLKTJA	-.0112	-.0000	.0075	.0039	.0028	-.0394
7	S95T002174_L	29.07	39910.	101.1	57.31	255.7	48700.
8	S95T002174	3.574	39440.	92.69	48.26	25.45	47430.
9	S95T002174_D	-9.183	39990.	98.60	44.23	49.31	49840.
10	S95T002174_S	2227.	43450.	91.45	2265.	2194.	54020.
11	CCV	5.086	5.139	.0357	5.049	4.984	9.886
12	CCB	-.0070	.0000	.0020	.0012	.0072	-.0285
13	S95T002175_L	-76.83	9759.	109.7	52.54	-78.51	51410.
14	S95T002175	-6.754	9543.	88.71	46.14	18.37	50340.
15	S95T002175_D	3.254	10100.	99.82	48.60	57.56	53300.
16	ICSA	-.0159	.0017	-.0186	.0017	.0548	.0389
17	ICSAB	-.0139	.0017	-.0135	.0017	.0538	.0151
18	ICSAB	-.0168	-.0044	-.0120	.0022	.0383	-.0153
19	CCV_1	5.136	5.190	.0346	5.069	4.956	9.944
20	CCB_1	-.0083	.0000	.0069	.0006	.0244	-.0245

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.022	.0098	5.091	4.989
2	ICB	.0001	-.0001	.0013	-.0005
3	ICSA	-.0001	.0077	.0041	-.0026
4	ICSAB	.4668	.0190	.9739	-.0018
5	PREPSTDTJA	4.799	.0073	4.692	4.837
6	PREPBLKTJA	-.0020	-.0008	.0072	-.0006
7	S95T002174_L	19.60	11.87	258.1	26.11
8	S95T002174	13.84	11.11	245.9	31.16
9	S95T002174_D	13.51	10.32	225.6	25.74
10	S95T002174_S	2235.	13.84	2445.	2253.
11	CCV	5.122	.0093	5.148	5.108
12	CCB	-.0020	-.0005	.0006	-.0027
13	S95T002175_L	-4.408	13.20	248.0	-15.62
14	S95T002175	6.747	16.33	225.3	.7111
15	S95T002175_D	9.514	17.95	234.6	3.700
16	ICSA	-.0023	.0074	.0045	-.0033
17	ICSAB	Q-.0019	.0074	Q.0035	-.0038

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WHC-SD-WM-DP-145, REV. 1

#	Sample Name	V	Y	Zn	Zr		
18	ICSAB	.4744	.0188	.9860	-.0033		
19	CCV_1	5.131	.0092	5.117	5.129		
20	CCB_1	-.0014	-.0005	.0013	-.0005		

WHC-SD-WM-DP-145, REV. 1

SP 10/30/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	2881	1			ICV	AG				5.0366		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
2	2881	1			ICV	AL				4.8749		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
3	2881	1			ICV	AS				5.1075		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
4	2881	1			ICV	B				5.0042		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
5	2881	1			ICV	BA				5.0350		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
6	2881	1			ICV	BE				5.1437		1.0000	10/26/95	13:15	bjg	0.005	@ICP-QC
7	2881	1			ICV	BI				5.0861		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
8	2881	1			ICV	CA				5.2005		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
9	2881	1			ICV	CD				5.0757		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
10	2881	1			ICV	CE				5.1549		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
11	2881	1			ICV	CO				5.0921		1.0000	10/26/95	13:15	bjg	0.02	@ICP-QC
12	2881	1			ICV	CR				5.1402		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
13	2881	1			ICV	CU				5.1158		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
14	2881	1			ICV	EU				0.0085		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
15	2881	1			ICV	FE				5.1031		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
16	2881	1			ICV	K				5.0144		1.0000	10/26/95	13:15	bjg	0.3	@ICP-QC
17	2881	1			ICV	LA				5.0857		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
18	2881	1			ICV	LI				5.0347		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
19	2881	1			ICV	MG				4.9489		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
20	2881	1			ICV	MN				4.9839		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
21	2881	1			ICV	MO				5.1163		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
22	2881	1			ICV	NA				5.0270		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
23	2881	1			ICV	ND				5.1100		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
24	2881	1			ICV	NI				5.0574		1.0000	10/26/95	13:15	bjg	0.02	@ICP-QC
25	2881	1			ICV	P				5.0575		1.0000	10/26/95	13:15	bjg	0.2	@ICP-QC
26	2881	1			ICV	PB				5.1161		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
27	2881	1			ICV	S				4.9412		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
28	2881	1			ICV	SB				4.8215		1.0000	10/26/95	13:15	bjg	0.2	@ICP-QC
29	2881	1			ICV	SE				4.8200		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
30	2881	1			ICV	SI				4.8882		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
31	2881	1			ICV	SM				4.9360		1.0000	10/26/95	13:15	bjg	0.1	@ICP-QC
32	2881	1			ICV	SR				4.9888		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
33	2881	1			ICV	TH				0.0367		1.0000	10/26/95	13:15	bjg	0	@ICP-QC
34	2881	1			ICV	TI				4.9139		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
35	2881	1			ICV	TL				4.8536		1.0000	10/26/95	13:15	bjg	0.2	@ICP-QC
36	2881	1			ICV	U				9.5727		1.0000	10/26/95	13:15	bjg	0.4	@ICP-QC
37	2881	1			ICV	V				5.0216		1.0000	10/26/95	13:15	bjg	0.05	@ICP-QC
38	2881	1			ICV	Y				0.0098		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
39	2881	1			ICV	ZN				5.0910		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
40	2881	1			ICV	ZR				4.9893		1.0000	10/26/95	13:15	bjg	0.01	@ICP-QC
41	2881	2			ICB	AG				0.0019		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
42	2881	2			ICB	AL				0.0071		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
43	2881	2			ICB	AS				0.0071		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
44	2881	2			ICB	B				0.0064		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
45	2881	2			ICB	BA				0.0002		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
46	2881	2			ICB	BE				0.0001		1.0000	10/26/95	13:18	bjg	0.005	@ICP-QC
47	2881	2			ICB	BI				-0.0078		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
48	2881	2			ICB	CA				0.0043		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
49	2881	2			ICB	CD				0.0009		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
50	2881	2			ICB	CE				0.0135		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
51	2881	2			ICB	CO				0.0018		1.0000	10/26/95	13:18	bjg	0.02	@ICP-QC
52	2881	2			ICB	CR				0.0006		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
53	2881	2			ICB	CU				-0.0000		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
54	2881	2			ICB	EU				0.0003		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
55	2881	2			ICB	FE				0.0017		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
56	2881	2			ICB	K				0.2182		1.0000	10/26/95	13:18	bjg	0.3	@ICP-QC
57	2881	2			ICB	LA				0.0023		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
58	2881	2			ICB	LI				0.0001		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
59	2881	2			ICB	MG				0.0044		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
60	2881	2			ICB	MN				0.0003		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
61	2881	2			ICB	MO				0.0054		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
62	2881	2			ICB	NA				-0.0007		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
63	2881	2			ICB	ND				0.0016		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
64	2881	2			ICB	NI				0.0050		1.0000	10/26/95	13:18	bjg	0.02	@ICP-QC
65	2881	2			ICB	P				-0.0091		1.0000	10/26/95	13:18	bjg	0.2	@ICP-QC
66	2881	2			ICB	PB				0.0163		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
67	2881	2			ICB	S				-0.0078		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
68	2881	2			ICB	SB				-0.0058		1.0000	10/26/95	13:18	bjg	0.2	@ICP-QC
69	2881	2			ICB	SE				0.0184		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
70	2881	2			ICB	SI				0.0081		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
71	2881	2			ICB	SM				0.0014		1.0000	10/26/95	13:18	bjg	0.1	@ICP-QC
72	2881	2			ICB	SR				0.0001		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
73	2881	2			ICB	TH				0.0058		1.0000	10/26/95	13:18	bjg	0	@ICP-QC
74	2881	2			ICB	TI				0.0006		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
75	2881	2			ICB	TL				0.0240		1.0000	10/26/95	13:18	bjg	0.2	@ICP-QC
76	2881	2			ICB	U				0.0117		1.0000	10/26/95	13:18	bjg	0.4	@ICP-QC
77	2881	2			ICB	V				0.0001		1.0000	10/26/95	13:18	bjg	0.05	@ICP-QC
78	2881	2			ICB	Y				-0.0001		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
79	2881	2			ICB	ZN				0.0013		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
80	2881	2			ICB	ZR				-0.0005		1.0000	10/26/95	13:18	bjg	0.01	@ICP-QC
81	2881	3			ICSA	AG				-0.0101		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
82	2881	3			ICSA	AL				240.7063		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
83	2881	3			ICSA	AS				-0.0102		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
84	2881	3			ICSA	B				-0.0023		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
85	2881	3			ICSA	BA				0.0019		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
86	2881	3			ICSA	BE				0.0001		1.0000	10/26/95	13:21	bjg	0.005	@ICP-QC
87	2881	3			ICSA	BI				0.0058		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
88	2881	3			ICSA	CA				245.0490		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
89	2881	3			ICSA	CD				0.0032		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
90	2881	3			ICSA	CE				0.0183		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
91	2881	3			ICSA	CO				0.0023		1.0000	10/26/95	13:21	bjg	0.02	@ICP-QC
92	2881	3			ICSA	CR				0.0074		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
93	2881	3			ICSA	CU				-0.0086		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
94	2881	3			ICSA	EU				-0.0063		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
95	2881	3			ICSA	FE				91.4895		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
96	2881	3			ICSA	K				0.5096		1.0000	10/26/95	13:21	bjg	0.3	@ICP-QC
97	2881	3			ICSA	LA				-0.0026		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
98	2881	3			ICSA	LI				0.0027		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
99	2881	3			ICSA	MG				245.0117		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
100	2881	3			ICSA	MN				-0.0059		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
101	2881	3			ICSA	MO				-0.0057		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
102	2881	3			ICSA	NA				196.4196		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
103	2881	3			ICSA	ND				0.0044		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
104	2881	3			ICSA	NI				-0.0112		1.0000	10/26/95	13:21	bjg	0.02	@ICP-QC
105	2881	3			ICSA	P				-0.0054		1.0000	10/26/95	13:21	bjg	0.2	@ICP-QC
106	2881	3			ICSA	PB				0.0588		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
107	2881	3			ICSA	S				-0.0148		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
108	2881	3			ICSA	SB				-0.0122		1.0000	10/26/95	13:21	bjg	0.2	@ICP-QC
109	2881	3			ICSA	SE				-0.0105		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
110	2881	3			ICSA	SI				0.0086		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
111	2881	3			ICSA	SM				-0.0056		1.0000	10/26/95	13:21	bjg	0.1	@ICP-QC
112	2881	3			ICSA	SR				0.0017		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
113	2881	3			ICSA	TH				-0.0154		1.0000	10/26/95	13:21	bjg	0	@ICP-QC
114	2881	3			ICSA	TI				0.0021		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
115	2881	3			ICSA	TL				0.0808		1.0000	10/26/95	13:21	bjg	0.2	@ICP-QC
116	2881	3			ICSA	U				0.0700		1.0000	10/26/95	13:21	bjg	0.4	@ICP-QC
117	2881	3			ICSA	V				-0.0001		1.0000	10/26/95	13:21	bjg	0.05	@ICP-QC
118	2881	3			ICSA	Y				0.0077		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
119	2881	3			ICSA	ZN				0.0041		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
120	2881	3			ICSA	ZR				-0.0026		1.0000	10/26/95	13:21	bjg	0.01	@ICP-QC
121	2881	4			ICSAB	AG				0.9545		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
122	2881	4			ICSAB	AL				236.7460		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	2881	4			ICSAB	AS				-0.0124		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
124	2881	4			ICSAB	B				-0.0057		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
125	2881	4			ICSAB	BA				0.4742		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
126	2881	4			ICSAB	BE				0.4782		1.0000	10/26/95	13:24	bjg	0.005	@ICP-QC
127	2881	4			ICSAB	BI				-0.0025		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
128	2881	4			ICSAB	CA				280.3220		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
129	2881	4			ICSAB	CD				0.9440		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
130	2881	4			ICSAB	CE				0.0112		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
131	2881	4			ICSAB	CO				0.4706		1.0000	10/26/95	13:24	bjg	0.02	@ICP-QC
132	2881	4			ICSAB	CR				0.4893		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
133	2881	4			ICSAB	CU				0.4827		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
134	2881	4			ICSAB	EU				-0.0122		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
135	2881	4			ICSAB	FE				92.7513		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
136	2881	4			ICSAB	K				0.3433		1.0000	10/26/95	13:24	bjg	0.3	@ICP-QC
137	2881	4			ICSAB	LA				-0.0029		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
138	2881	4			ICSAB	LI				0.8759		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
139	2881	4			ICSAB	MG				244.7394		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
140	2881	4			ICSAB	MN				0.4472		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
141	2881	4			ICSAB	MO				-0.0124		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
142	2881	4			ICSAB	NA				194.5143		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
143	2881	4			ICSAB	ND				0.0128		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
144	2881	4			ICSAB	NI				0.9031		1.0000	10/26/95	13:24	bjg	0.02	@ICP-QC
145	2881	4			ICSAB	P				-0.0124		1.0000	10/26/95	13:24	bjg	0.2	@ICP-QC
146	2881	4			ICSAB	PB				1.0201		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
147	2881	4			ICSAB	S				0.0478		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
148	2881	4			ICSAB	SB				-0.0009		1.0000	10/26/95	13:24	bjg	0.2	@ICP-QC
149	2881	4			ICSAB	SE				-0.0045		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
150	2881	4			ICSAB	SI				0.0229		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
151	2881	4			ICSAB	SM				-0.0067		1.0000	10/26/95	13:24	bjg	0.1	@ICP-QC
152	2881	4			ICSAB	SR				-0.0041		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
153	2881	4			ICSAB	TH				-0.0074		1.0000	10/26/95	13:24	bjg	0	@ICP-QC
154	2881	4			ICSAB	TI				0.0030		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
155	2881	4			ICSAB	TL				0.0442		1.0000	10/26/95	13:24	bjg	0.2	@ICP-QC
156	2881	4			ICSAB	U				0.0320		1.0000	10/26/95	13:24	bjg	0.4	@ICP-QC
157	2881	4			ICSAB	V				0.4068		1.0000	10/26/95	13:24	bjg	0.05	@ICP-QC
158	2881	4			ICSAB	Y				0.0190		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
159	2881	4			ICSAB	ZN				0.9739		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
160	2881	4			ICSAB	ZR				-0.0016		1.0000	10/26/95	13:24	bjg	0.01	@ICP-QC
161	2881	5			PREPSTDTJA	AG-A-01				9.9556		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
162	2881	5			PREPSTDTJA	AL-A-01				5.0053		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
163	2881	5			PREPSTDTJA	AS-A-01				4.8770		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
164	2881	5			PREPSTDTJA	B-A-01				5.7532		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
165	2881	5			PREPSTDTJA	BA-A-01				4.8995		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
166	2881	5			PREPSTDTJA	BE-A-01				5.2718		1.0000	10/26/95	13:28	bjg	0.005	@ICP-A01
167	2881	5			PREPSTDTJA	BI-A-01				4.7785		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
168	2881	5			PREPSTDTJA	CA-A-01				5.0562		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
169	2881	5			PREPSTDTJA	CD-A-01				4.7774		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
170	2881	5			PREPSTDTJA	CE-A-01				5.0387		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
171	2881	5			PREPSTDTJA	CO-A-01				4.9061		1.0000	10/26/95	13:28	bjg	0.02	@ICP-A01
172	2881	5			PREPSTDTJA	CR-A-01				4.8926		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
173	2881	5			PREPSTDTJA	CU-A-01				4.8584		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
174	2881	5			PREPSTDTJA	EU-A-01				0.0067		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
175	2881	5			PREPSTDTJA	FE-A-01				4.8457		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
176	2881	5			PREPSTDTJA	K-A-01				4.8334		1.0000	10/26/95	13:28	bjg	0.3	@ICP-A01
177	2881	5			PREPSTDTJA	LA-A-01				4.9600		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
178	2881	5			PREPSTDTJA	LI-A-01				4.8787		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
179	2881	5			PREPSTDTJA	MG-A-01				4.7212		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
180	2881	5			PREPSTDTJA	MN-A-01				4.7756		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
181	2881	5			PREPSTDTJA	MO-A-01				4.9319		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
182	2881	5			PREPSTDTJA	NA-A-01				5.9369		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
183	2881	5			PREPSTDTJA	ND-A-01				4.8482		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
184	2881	5			PREPSTDTJA	NI-A-01				4.8551		1.0000	10/26/95	13:28	bjg	0.02	@ICP-A01
185	2881	5			PREPSTDTJA	P-A-01				4.9456		1.0000	10/26/95	13:28	bjg	0.2	@ICP-A01
186	2881	5			PREPSTDTJA	PB-A-01				4.7869		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
187	2881	5			PREPSTDTJA	S-A-01				4.8435		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
188	2881	5			PREPSTDTJA	SB-A-01				4.5852		1.0000	10/26/95	13:28	bjg	0.2	@ICP-A01
189	2881	5			PREPSTDTJA	SE-A-01				4.7740		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
190	2881	5			PREPSTDTJA	SI-A-01				13.0755		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
191	2881	5			PREPSTDTJA	SM-A-01				4.8182		1.0000	10/26/95	13:28	bjg	0.1	@ICP-A01
192	2881	5			PREPSTDTJA	SR-A-01				4.8657		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
193	2881	5			PREPSTDTJA	TH-A-01				0.0357		1.0000	10/26/95	13:28	bjg	0	@ICP-A01
194	2881	5			PREPSTDTJA	TI-A-01				4.7964		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
195	2881	5			PREPSTDTJA	TL-A-01				4.6830		1.0000	10/26/95	13:28	bjg	0.2	@ICP-A01
196	2881	5			PREPSTDTJA	U-A-01				9.4836		1.0000	10/26/95	13:28	bjg	0.4	@ICP-A01
197	2881	5			PREPSTDTJA	V-A-01				4.7994		1.0000	10/26/95	13:28	bjg	0.05	@ICP-A01
198	2881	5			PREPSTDTJA	Y-A-01				0.0073		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
199	2881	5			PREPSTDTJA	ZN-A-01				4.8921		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
200	2881	5			PREPSTDTJA	ZR-A-01				4.8389		1.0000	10/26/95	13:28	bjg	0.01	@ICP-A01
201	2881	6			PREPBLKTJA	AG-A-01				0.0021		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
202	2881	6			PREPBLKTJA	AL-A-01				0.0151		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
203	2881	6			PREPBLKTJA	AS-A-01				0.0063		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
204	2881	6			PREPBLKTJA	B-A-01				0.0272		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
205	2881	6			PREPBLKTJA	BA-A-01				0.0008		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
206	2881	6			PREPBLKTJA	BE-A-01				0.0001		1.0000	10/26/95	13:31	bjg	0.005	@ICP-A01
207	2881	6			PREPBLKTJA	BI-A-01				0.0072		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
208	2881	6			PREPBLKTJA	CA-A-01				0.1132		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
209	2881	6			PREPBLKTJA	CD-A-01				0.0013		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
210	2881	6			PREPBLKTJA	CE-A-01				0.0115		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
211	2881	6			PREPBLKTJA	CO-A-01				0.0034		1.0000	10/26/95	13:31	bjg	0.02	@ICP-A01
212	2881	6			PREPBLKTJA	CR-A-01				0.0018		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
213	2881	6			PREPBLKTJA	CU-A-01				0.0026		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
214	2881	6			PREPBLKTJA	EU-A-01				-0.0010		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
215	2881	6			PREPBLKTJA	FE-A-01				0.0169		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
216	2881	6			PREPBLKTJA	K-A-01				0.4016		1.0000	10/26/95	13:31	bjg	0.3	@ICP-A01
217	2881	6			PREPBLKTJA	LA-A-01				0.0021		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
218	2881	6			PREPBLKTJA	LI-A-01				-0.0009		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
219	2881	6			PREPBLKTJA	MG-A-01				0.0220		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
220	2881	6			PREPBLKTJA	MN-A-01				0.0003		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
221	2881	6			PREPBLKTJA	MO-A-01				0.0053		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
222	2881	6			PREPBLKTJA	NA-A-01				0.2822		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
223	2881	6			PREPBLKTJA	ND-A-01				0.0057		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
224	2881	6			PREPBLKTJA	NI-A-01				-0.0040		1.0000	10/26/95	13:31	bjg	0.02	@ICP-A01
225	2881	6			PREPBLKTJA	P-A-01				-0.0137		1.0000	10/26/95	13:31	bjg	0.2	@ICP-A01
226	2881	6			PREPBLKTJA	PB-A-01				0.0344		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
227	2881	6			PREPBLKTJA	S-A-01				0.0482		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
228	2881	6			PREPBLKTJA	SB-A-01				0.0002		1.0000	10/26/95	13:31	bjg	0.2	@ICP-A01
229	2881	6			PREPBLKTJA	SE-A-01				0.0026		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
230	2881	6			PREPBLKTJA	SI-A-01				0.1040		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
231	2881	6			PREPBLKTJA	SM-A-01				-0.0112		1.0000	10/26/95	13:31	bjg	0.1	@ICP-A01
232	2881	6			PREPBLKTJA	SR-A-01				-0.0000		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
233	2881	6			PREPBLKTJA	TH-A-01				0.0075		1.0000	10/26/95	13:31	bjg	0	@ICP-A01
234	2881	6			PREPBLKTJA	TI-A-01				0.0039		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
235	2881	6			PREPBLKTJA	TL-A-01				0.0028		1.0000	10/26/95	13:31	bjg	0.2	@ICP-A01
236	2881	6			PREPBLKTJA	U-A-01				-0.0394		1.0000	10/26/95	13:31	bjg	0.4	@ICP-A01
237	2881	6			PREPBLKTJA	V-A-01				-0.0020		1.0000	10/26/95	13:31	bjg	0.05	@ICP-A01
238	2881	6			PREPBLKTJA	Y-A-01				-0.0008		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
239	2881	6			PREPBLKTJA	ZN-A-01				0.0072		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
240	2881	6			PREPBLKTJA	ZR-A-01				-0.0008		1.0000	10/26/95	13:31	bjg	0.01	@ICP-A01
241	2881	7	S95T002174			AG-A-01			<	23.7400		2374.0000	10/26/95	13:37	bjg	0.01	@ICP-A01
242	2881	7	S95T002174			AL-A-01			<	24211.2051		2374.0000	10/26/95	13:37	bjg	0.05	@ICP-A01
243	2881	7	S95T002174			AS-A-01			<	118.7000		2374.0000	10/26/95	13:37	bjg	0.05	@ICP-A01
244	2881	7	S95T002174			B-A-01			<	118.7000		2374.0000	10/26/95	13:37	bjg	0.05	@ICP-A01

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
345	2881	7	S95T002174			BA-A-01				506.4565		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
346	2881	7	S95T002174			BE-A-01			<	11.8700		2374.0000	10/28/95	13:37	lab	0.005	@ICP-A01
347	2881	7	S95T002174			BI-A-01				2168.8280		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
348	2881	7	S95T002174			CA-A-01				6356.8306		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
349	2881	7	S95T002174			CD-A-01			<	23.7400		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
350	2881	7	S95T002174			CE-A-01			<	237.4000		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
351	2881	7	S95T002174			CO-A-01			<	47.4800		2374.0000	10/28/95	13:37	lab	0.02	@ICP-A01
352	2881	7	S95T002174			CR-A-01				1197.1251		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
353	2881	7	S95T002174			CU-A-01			<	23.7400		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
354	2881	7	S95T002174			FE-A-01				30885.5703		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
355	2881	7	S95T002174			K-A-01				1941.2593		2374.0000	10/28/95	13:37	lab	0.3	@ICP-A01
356	2881	7	S95T002174			LA-A-01			<	118.7000		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
357	2881	7	S95T002174			LI-A-01			<	23.7400		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
358	2881	7	S95T002174			MG-A-01				1298.8436		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
359	2881	7	S95T002174			MN-A-01				409.2478		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
360	2881	7	S95T002174			MO-A-01			<	118.7000		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
361	2881	7	S95T002174			NA-A-01				124589.5078		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
362	2881	7	S95T002174			ND-A-01			<	237.4000		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
363	2881	7	S95T002174			NI-A-01				12748.6826		2374.0000	10/28/95	13:37	lab	0.02	@ICP-A01
364	2881	7	S95T002174			P-A-01				12947.0039		2374.0000	10/28/95	13:37	lab	0.2	@ICP-A01
365	2881	7	S95T002174			PB-A-01				1858.0732		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
366	2881	7	S95T002174			S-A-01				1701.9337		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
367	2881	7	S95T002174			SB-A-01			<	474.8000		2374.0000	10/28/95	13:37	lab	0.2	@ICP-A01
368	2881	7	S95T002174			SE-A-01			<	237.4000		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
369	2881	7	S95T002174			SI-A-01				2524.5557		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
370	2881	7	S95T002174			SM-A-01			<	237.4000		2374.0000	10/28/95	13:37	lab	0.1	@ICP-A01
371	2881	7	S95T002174			SR-A-01				39437.2852		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
372	2881	7	S95T002174			TI-A-01				48.2580		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
373	2881	7	S95T002174			TL-A-01			<	474.8000		2374.0000	10/28/95	13:37	lab	0.2	@ICP-A01
374	2881	7	S95T002174			U-A-01				47431.2109		2374.0000	10/28/95	13:37	lab	0.4	@ICP-A01
375	2881	7	S95T002174			V-A-01			<	118.7000		2374.0000	10/28/95	13:37	lab	0.05	@ICP-A01
376	2881	7	S95T002174			ZN-A-01				245.8945		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
377	2881	7	S95T002174			ZR-A-01				31.1614		2374.0000	10/28/95	13:37	lab	0.01	@ICP-A01
378	2881	8	S95T002174		DUP	AG-A-01		<23.7400		<25.9300		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
379	2881	8	S95T002174		DUP	AL-A-01		24211.2051		24253.9551		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
380	2881	8	S95T002174		DUP	AS-A-01		<118.7000		<129.6500		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
381	2881	8	S95T002174		DUP	B-A-01		<118.7000		<129.6500		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
382	2881	8	S95T002174		DUP	BA-A-01		506.4565		506.0526		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
383	2881	8	S95T002174		DUP	BE-A-01		<11.8700		<12.9650		2583.0000	10/28/95	13:42	lab	0.005	@ICP-A01
384	2881	8	S95T002174		DUP	BI-A-01		2168.8280		1799.4791		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
385	2881	8	S95T002174		DUP	CA-A-01		6356.8306		8052.5483		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
386	2881	8	S95T002174		DUP	CD-A-01		<23.7400		<25.9300		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
387	2881	8	S95T002174		DUP	CE-A-01		<237.4000		<259.3000		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
388	2881	8	S95T002174		DUP	CO-A-01		<47.4800		<51.8600		2583.0000	10/28/95	13:42	lab	0.02	@ICP-A01
389	2881	8	S95T002174		DUP	CR-A-01		1197.1251		1097.2801		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
390	2881	8	S95T002174		DUP	CU-A-01		<23.7400		<25.9300		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
391	2881	8	S95T002174		DUP	FE-A-01		30885.5703		26476.5038		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
392	2881	8	S95T002174		DUP	K-A-01		1941.2593		2134.5083		2583.0000	10/28/95	13:42	lab	0.3	@ICP-A01
393	2881	8	S95T002174		DUP	LA-A-01		<118.7000		<129.6500		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
394	2881	8	S95T002174		DUP	LI-A-01		<23.7400		<25.9300		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
395	2881	8	S95T002174		DUP	MG-A-01		1298.8436		1242.2360		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
396	2881	8	S95T002174		DUP	MN-A-01		409.2478		353.1776		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
397	2881	8	S95T002174		DUP	MO-A-01		<118.7000		<129.6500		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
398	2881	8	S95T002174		DUP	NA-A-01		124589.5078		131183.5000		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
399	2881	8	S95T002174		DUP	ND-A-01		<237.4000		<259.3000		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
400	2881	8	S95T002174		DUP	NI-A-01		12748.6826		12942.2197		2583.0000	10/28/95	13:42	lab	0.02	@ICP-A01
401	2881	8	S95T002174		DUP	P-A-01		12947.0039		15827.0664		2583.0000	10/28/95	13:42	lab	0.2	@ICP-A01
402	2881	8	S95T002174		DUP	PB-A-01		1858.0732		1731.8727		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
403	2881	8	S95T002174		DUP	S-A-01		1701.9337		2088.7102		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
404	2881	8	S95T002174		DUP	SB-A-01		<474.8000		<518.6000		2583.0000	10/28/95	13:42	lab	0.2	@ICP-A01
405	2881	8	S95T002174		DUP	SE-A-01		<237.4000		<259.3000		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
406	2881	8	S95T002174		DUP	SI-A-01		2524.5557		2548.6865		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
407	2881	8	S95T002174		DUP	SM-A-01		<237.4000		<259.3000		2583.0000	10/28/95	13:42	lab	0.1	@ICP-A01
408	2881	8	S95T002174		DUP	SR-A-01		39437.2852		39869.8125		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
409	2881	8	S95T002174		DUP	TI-A-01		48.2580		44.2280		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
410	2881	8	S95T002174		DUP	TL-A-01		<474.8000		<518.6000		2583.0000	10/28/95	13:42	lab	0.2	@ICP-A01
411	2881	8	S95T002174		DUP	U-A-01		47431.2109		48842.8711		2583.0000	10/28/95	13:42	lab	0.4	@ICP-A01
412	2881	8	S95T002174		DUP	V-A-01		<118.7000		<129.6500		2583.0000	10/28/95	13:42	lab	0.05	@ICP-A01
413	2881	8	S95T002174		DUP	ZN-A-01		245.8945		225.5879		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
414	2881	8	S95T002174		DUP	ZR-A-01		31.1614		<25.9300		2583.0000	10/28/95	13:42	lab	0.01	@ICP-A01
415	2881	9	S95T002174_S		SPK-PREDIG	AG-A-01		464.8		454.6870		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
416	2881	9	S95T002174_S		SPK-PREDIG	AL-A-01		n/a		n/a		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
417	2881	9	S95T002174_S		SPK-PREDIG	AS-A-01		2324		2367.1028		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
418	2881	9	S95T002174_S		SPK-PREDIG	B-A-01		2324		2310.6562		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
419	2881	9	S95T002174_S		SPK-PREDIG	BA-A-01		2324		2256.3829		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
420	2881	9	S95T002174_S		SPK-PREDIG	BE-A-01		2324		2316.5913		2324.0000	10/28/95	13:45	lab	0.005	@ICP-A01
421	2881	9	S95T002174_S		SPK-PREDIG	BI-A-01		2324		1783.4399		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
422	2881	9	S95T002174_S		SPK-PREDIG	CA-A-01		2324		2601.6479		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
423	2881	9	S95T002174_S		SPK-PREDIG	CD-A-01		2324		2230.3809		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
424	2881	9	S95T002174_S		SPK-PREDIG	CE-A-01		2324		2277.8713		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
425	2881	9	S95T002174_S		SPK-PREDIG	CO-A-01		2324		2257.6345		2324.0000	10/28/95	13:45	lab	0.02	@ICP-A01
426	2881	9	S95T002174_S		SPK-PREDIG	CR-A-01		2324		2139.0529		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
427	2881	9	S95T002174_S		SPK-PREDIG	CU-A-01		2324		2102.3772		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
428	2881	9	S95T002174_S		SPK-PREDIG	FE-A-01		n/a		n/a		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
429	2881	9	S95T002174_S		SPK-PREDIG	K-A-01		2324		2448.5586		2324.0000	10/28/95	13:45	lab	0.3	@ICP-A01
430	2881	9	S95T002174_S		SPK-PREDIG	LA-A-01		2324		2340.0515		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
431	2881	9	S95T002174_S		SPK-PREDIG	LI-A-01		2324		2322.1704		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
432	2881	9	S95T002174_S		SPK-PREDIG	MG-A-01		2324		2209.6862		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
433	2881	9	S95T002174_S		SPK-PREDIG	MN-A-01		2324		2074.4356		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
434	2881	9	S95T002174_S		SPK-PREDIG	MO-A-01		2324		2274.7444		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
435	2881	9	S95T002174_S		SPK-PREDIG	NA-A-01		n/a		n/a		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
436	2881	9	S95T002174_S		SPK-PREDIG	ND-A-01		2324		2468.9133		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
437	2881	9	S95T002174_S		SPK-PREDIG	NI-A-01		2324		2254.1328		2324.0000	10/28/95	13:45	lab	0.02	@ICP-A01
438	2881	9	S95T002174_S		SPK-PREDIG	P-A-01		2324		2751.8701		2324.0000	10/28/95	13:45	lab	0.2	@ICP-A01
439	2881	9	S95T002174_S		SPK-PREDIG	PB-A-01		2324		2143.9468		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
440	2881	9	S95T002174_S		SPK-PREDIG	S-A-01		2324		2097.0575		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
441	2881	9	S95T002174_S		SPK-PREDIG	SB-A-01		2324		2147.7978		2324.0000	10/28/95	13:45	lab	0.2	@ICP-A01
442	2881	9	S95T002174_S		SPK-PREDIG	SE-A-01		2324		2221.3181		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
443	2881	9	S95T002174_S		SPK-PREDIG	SI-A-01		2324		2612.2431		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
444	2881	9	S95T002174_S		SPK-PREDIG	SM-A-01		2324		2226.8204		2324.0000	10/28/95	13:45	lab	0.1	@ICP-A01
445	2881	9	S95T002174_S		SPK-PREDIG	SR-A-01		n/a		n/a		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
446	2881	9	S95T002174_S		SPK-PREDIG	TI-A-01		2324		2216.3101		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
447	2881	9	S95T002174_S		SPK-PREDIG	TL-A-01		2324		2193.7961		2324.0000	10/28/95	13:45	lab	0.2	@ICP-A01
448	2881	9	S95T002174_S		SPK-PREDIG	U-A-01		n/a		n/a		2324.0000	10/28/95	13:45	lab	0.4	@ICP-A01
449	2881	9	S95T002174_S		SPK-PREDIG	V-A-01		2324		2234.7556		2324.0000	10/28/95	13:45	lab	0.05	@ICP-A01
450	2881	9	S95T002174_S		SPK-PREDIG	ZN-A-01		2324		2198.6067		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
451	2881	9	S95T002174_S		SPK-PREDIG	ZR-A-01		2324		2222.3208		2324.0000	10/28/95	13:45	lab	0.01	@ICP-A01
452	2881	10			CCV	AG				5.1155		1.0000	10/28/95	13:50	lab	0.01	@ICP-QC
453	2881	10			CCV	AL				5.0019		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC
454	2881	10			CCV	AS				5.2573		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC
455	2881	10			CCV	B				5.1841		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC
456	2881	10			CCV	BA				5.2129		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC
457	2881	10			CCV	BE				5.2945		1.0000	10/28/95	13:50	lab	0.005	@ICP-QC
458	2881	10			CCV	BI				5.2462		1.0000	10/28/95	13:50	lab	0.1	@ICP-QC
459	2881	10			CCV	CA				5.3026		1.0000	10/28/95	13:50	lab	0.1	@ICP-QC
460	2881	10			CCV	CD				5.1501		1.0000	10/28/95	13:50	lab	0.01	@ICP-QC
461	2881	10			CCV	CE				5.3247		1.0000	10/28/95	13:50	lab	0.1	@ICP-QC
462	2881	10			CCV	CO				5.1683		1.0000	10/28/95	13:50	lab	0.02	@ICP-QC
463	2881	10			CCV	CR				5.2091		1.0000	10/28/95	13:50	lab	0.01	@ICP-QC
464	2881	10			CCV	CU				5.3084		1.0000	10/28/95	13:50	lab	0.01	@ICP-QC
465	2881	10			CCV	EU				0.0072		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC
466	2881	10			CCV	FE				5.2134		1.0000	10/28/95	13:50	lab	0.05	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	2881	10			CCV	K				5.1650		1.0000	10/26/95	13:50	bjg	0.3	@ICP-QC
368	2881	10			CCV	LA				5.2200		1.0000	10/26/95	13:50	bjg	0.05	@ICP-QC
369	2881	10			CCV	LI				5.2880		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
370	2881	10			CCV	MG				5.0841		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
371	2881	10			CCV	MN				5.0647		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
372	2881	10			CCV	MO				5.2075		1.0000	10/26/95	13:50	bjg	0.05	@ICP-QC
373	2881	10			CCV	NA				5.2121		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
374	2881	10			CCV	ND				5.2804		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
375	2881	10			CCV	NI				5.1015		1.0000	10/26/95	13:50	bjg	0.02	@ICP-QC
376	2881	10			CCV	P				5.2115		1.0000	10/26/95	13:50	bjg	0.2	@ICP-QC
377	2881	10			CCV	PB				5.1824		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
378	2881	10			CCV	S				5.0229		1.0000	10/26/95	13:50	bjg	0.05	@ICP-QC
379	2881	10			CCV	SB				4.9324		1.0000	10/26/95	13:50	bjg	0.2	@ICP-QC
380	2881	10			CCV	SE				5.0176		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
381	2881	10			CCV	SI				4.9536		1.0000	10/26/95	13:50	bjg	0.05	@ICP-QC
382	2881	10			CCV	SM				5.0863		1.0000	10/26/95	13:50	bjg	0.1	@ICP-QC
383	2881	10			CCV	SR				5.1391		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
384	2881	10			CCV	TH				0.0357		1.0000	10/26/95	13:50	bjg	0	@ICP-QC
385	2881	10			CCV	TI				5.0491		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
386	2881	10			CCV	TL				4.9844		1.0000	10/26/95	13:50	bjg	0.2	@ICP-QC
387	2881	10			CCV	U				9.8857		1.0000	10/26/95	13:50	bjg	0.4	@ICP-QC
388	2881	10			CCV	V				5.1224		1.0000	10/26/95	13:50	bjg	0.05	@ICP-QC
389	2881	10			CCV	Y				0.0083		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
390	2881	10			CCV	ZN				5.1476		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
391	2881	10			CCV	ZR				5.1065		1.0000	10/26/95	13:50	bjg	0.01	@ICP-QC
392	2881	11			CCB	AG				0.0022		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
393	2881	11			CCB	AL				0.0110		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
394	2881	11			CCB	AS				0.0159		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
395	2881	11			CCB	B				0.0055		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
396	2881	11			CCB	BA				0.0001		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
397	2881	11			CCB	BE				0.0001		1.0000	10/26/95	13:53	bjg	0.005	@ICP-QC
398	2881	11			CCB	BI				-0.0040		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
399	2881	11			CCB	CA				0.0009		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
400	2881	11			CCB	CD				0.0018		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
401	2881	11			CCB	CE				0.0063		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
402	2881	11			CCB	CO				0.0002		1.0000	10/26/95	13:53	bjg	0.02	@ICP-QC
403	2881	11			CCB	CR				0.0008		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
404	2881	11			CCB	CU				0.0006		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
405	2881	11			CCB	EU				-0.0007		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
406	2881	11			CCB	FE				0.0017		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
407	2881	11			CCB	K				0.1474		1.0000	10/26/95	13:53	bjg	0.3	@ICP-QC
408	2881	11			CCB	LA				0.0010		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
409	2881	11			CCB	LI				-0.0009		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
410	2881	11			CCB	MG				0.0130		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
411	2881	11			CCB	MN				-0.0001		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
412	2881	11			CCB	MO				0.0061		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
413	2881	11			CCB	NA				-0.0068		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
414	2881	11			CCB	ND				0.0036		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
415	2881	11			CCB	NI				0.0019		1.0000	10/26/95	13:53	bjg	0.02	@ICP-QC
416	2881	11			CCB	P				-0.0139		1.0000	10/26/95	13:53	bjg	0.2	@ICP-QC
417	2881	11			CCB	PB				0.0076		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
418	2881	11			CCB	S				0.0069		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
419	2881	11			CCB	SB				-0.0072		1.0000	10/26/95	13:53	bjg	0.2	@ICP-QC
420	2881	11			CCB	SE				-0.0154		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
421	2881	11			CCB	SI				0.0040		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
422	2881	11			CCB	SM				-0.0070		1.0000	10/26/95	13:53	bjg	0.1	@ICP-QC
423	2881	11			CCB	SR				0.0000		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
424	2881	11			CCB	TH				0.0020		1.0000	10/26/95	13:53	bjg	0	@ICP-QC
425	2881	11			CCB	TI				0.0012		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
426	2881	11			CCB	TL				0.0072		1.0000	10/26/95	13:53	bjg	0.2	@ICP-QC
427	2881	11			CCB	U				-0.0285		1.0000	10/26/95	13:53	bjg	0.4	@ICP-QC
428	2881	11			CCB	V				-0.0020		1.0000	10/26/95	13:53	bjg	0.05	@ICP-QC
429	2881	11			CCB	Y				-0.0005		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
430	2881	11			CCB	ZN				0.0006		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
431	2881	11			CCB	ZR				-0.0027		1.0000	10/26/95	13:53	bjg	0.01	@ICP-QC
432	2881	12	S95T002175			AG-A-01			<	14.9000		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
433	2881	12	S95T002175			AL-A-01				20950.7559		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
434	2881	12	S95T002175			AS-A-01			<	74.5000		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
435	2881	12	S95T002175			B-A-01			<	74.5000		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
436	2881	12	S95T002175			BA-A-01				248.9955		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
437	2881	12	S95T002175			BE-A-01			<	7.4500		1490.0000	10/26/95	13:59	bjg	0.005	@ICP-A01
438	2881	12	S95T002175			BI-A-01				1715.1596		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
439	2881	12	S95T002175			CA-A-01				16391.8320		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
440	2881	12	S95T002175			CD-A-01			<	14.9000		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
441	2881	12	S95T002175			CE-A-01			<	149.0000		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
442	2881	12	S95T002175			CO-A-01			<	29.8000		1490.0000	10/26/95	13:59	bjg	0.02	@ICP-A01
443	2881	12	S95T002175			CR-A-01				217.2974		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
444	2881	12	S95T002175			CU-A-01				18.3480		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
445	2881	12	S95T002175			FE-A-01				37581.5896		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
446	2881	12	S95T002175			K-A-01				1887.8729		1490.0000	10/26/95	13:59	bjg	0.3	@ICP-A01
447	2881	12	S95T002175			LA-A-01			<	74.5000		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
448	2881	12	S95T002175			LI-A-01			<	14.9000		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
449	2881	12	S95T002175			MG-A-01				1130.1480		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
450	2881	12	S95T002175			MN-A-01				374.8858		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
451	2881	12	S95T002175			MO-A-01			<	74.5000		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
452	2881	12	S95T002175			NA-A-01				138798.7989		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
453	2881	12	S95T002175			ND-A-01			<	149.0000		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
454	2881	12	S95T002175			NI-A-01				7811.2876		1490.0000	10/26/95	13:59	bjg	0.02	@ICP-A01
455	2881	12	S95T002175			P-A-01				19617.0547		1490.0000	10/26/95	13:59	bjg	0.2	@ICP-A01
456	2881	12	S95T002175			PB-A-01				2763.8071		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
457	2881	12	S95T002175			S-A-01				907.1806		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
458	2881	12	S95T002175			SB-A-01			<	298.0000		1490.0000	10/26/95	13:59	bjg	0.2	@ICP-A01
459	2881	12	S95T002175			SE-A-01			<	149.0000		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
460	2881	12	S95T002175			SI-A-01				1858.9167		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
461	2881	12	S95T002175			SM-A-01			<	149.0000		1490.0000	10/26/95	13:59	bjg	0.1	@ICP-A01
462	2881	12	S95T002175			SR-A-01				9543.4639		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
463	2881	12	S95T002175			TI-A-01				46.1363		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
464	2881	12	S95T002175			TL-A-01			<	298.0000		1490.0000	10/26/95	13:59	bjg	0.2	@ICP-A01
465	2881	12	S95T002175			U-A-01				50338.0977		1490.0000	10/26/95	13:59	bjg	0.4	@ICP-A01
466	2881	12	S95T002175			V-A-01			<	74.5000		1490.0000	10/26/95	13:59	bjg	0.05	@ICP-A01
467	2881	12	S95T002175			ZN-A-01				225.3233		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
468	2881	12	S95T002175			ZR-A-01			<	14.9000		1490.0000	10/26/95	13:59	bjg	0.01	@ICP-A01
469	2881	13	S95T002175		DUP	AG-A-01		<14.9000		<14.8400		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
470	2881	13	S95T002175		DUP	AL-A-01		20950.7559		22272.9531		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
471	2881	13	S95T002175		DUP	AS-A-01		<74.5000		<74.2000		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
472	2881	13	S95T002175		DUP	B-A-01		<74.5000		<74.2000		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
473	2881	13	S95T002175		DUP	BA-A-01		248.9955		283.2868		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
474	2881	13	S95T002175		DUP	BE-A-01		<7.4500		<7.4200		1484.0000	10/26/95	14:03	bjg	0.005	@ICP-A01
475	2881	13	S95T002175		DUP	BI-A-01		1715.1596		1770.5795		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
476	2881	13	S95T002175		DUP	CA-A-01		16391.8320		17386.3086		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
477	2881	13	S95T002175		DUP	CD-A-01		<14.9000		<14.8400		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
478	2881	13	S95T002175		DUP	CE-A-01		<149.0000		<148.4000		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
479	2881	13	S95T002175		DUP	CO-A-01		<29.8000		<29.6800		1484.0000	10/26/95	14:03	bjg	0.02	@ICP-A01
480	2881	13	S95T002175		DUP	CR-A-01		217.2974		233.3490		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
481	2881	13	S95T002175		DUP	CU-A-01		18.3480		20.3021		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
482	2881	13	S95T002175		DUP	FE-A-01		37581.5896		39852.7500		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
483	2881	13	S95T002175		DUP	K-A-01		1887.8729		2108.6482		1484.0000	10/26/95	14:03	bjg	0.3	@ICP-A01
484	2881	13	S95T002175		DUP	LA-A-01		<74.5000		<74.2000		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
485	2881	13	S95T002175		DUP	LI-A-01		<14.9000		<14.8400		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
486	2881	13	S95T002175		DUP	MG-A-01		1130.1480		1195.9813		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
487	2881	13	S95T002175		DUP	MN-A-01		374.8858		400.4984		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
488	2881	13	S95T002175		DUP	MO-A-01		<74.5000		<74.2000		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
489	2881	13	895T002175		DUP	NA-A-01		138788.7989		147353.1406		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
490	2881	13	895T002175		DUP	ND-A-01		<149.0000		<148.4000		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
491	2881	13	895T002175		DUP	NI-A-01		7811.2876		8341.1074		1484.0000	10/26/95	14:03	bjg	0.02	@ICP-A01
492	2881	13	895T002175		DUP	P-A-01		19517.0547		20744.8934		1484.0000	10/26/95	14:03	bjg	0.2	@ICP-A01
493	2881	13	895T002175		DUP	PB-A-01		2753.8071		2804.1563		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
494	2881	13	895T002175		DUP	S-A-01		807.1806		846.8111		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
495	2881	13	895T002175		DUP	SB-A-01		<298.0000		<296.8000		1484.0000	10/26/95	14:03	bjg	0.2	@ICP-A01
496	2881	13	895T002175		DUP	SE-A-01		<149.0000		<148.4000		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
497	2881	13	895T002175		DUP	SI-A-01		1868.9187		1986.8610		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
498	2881	13	895T002175		DUP	SM-A-01		<149.0000		<148.4000		1484.0000	10/26/95	14:03	bjg	0.1	@ICP-A01
499	2881	13	895T002175		DUP	SR-A-01		9643.4639		10101.1084		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
500	2881	13	895T002175		DUP	TI-A-01		46.1363		48.8036		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
501	2881	13	895T002175		DUP	TL-A-01		<298.0000		<296.8000		1484.0000	10/26/95	14:03	bjg	0.2	@ICP-A01
502	2881	13	895T002175		DUP	U-A-01		50338.0977		53298.9102		1484.0000	10/26/95	14:03	bjg	0.4	@ICP-A01
503	2881	13	895T002175		DUP	V-A-01		<74.5000		<74.2000		1484.0000	10/26/95	14:03	bjg	0.05	@ICP-A01
504	2881	13	895T002175		DUP	ZN-A-01		225.3233		234.5519		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
505	2881	13	895T002175		DUP	ZR-A-01		<14.9000		<14.8400		1484.0000	10/26/95	14:03	bjg	0.01	@ICP-A01
506	2881	14			ICSA	AG				-0.0112		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
507	2881	14			ICSA	AL				245.3438		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
508	2881	14			ICSA	AS				-0.0590		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
509	2881	14			ICSA	B				-0.0041		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
510	2881	14			ICSA	BA				0.0019		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
511	2881	14			ICSA	BE				0.0002		1.0000	10/26/95	14:08	bjg	0.005	@ICP-QC
512	2881	14			ICSA	BI				-0.0288		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
513	2881	14			ICSA	CA				248.8700		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
514	2881	14			ICSA	CD				0.0026		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
515	2881	14			ICSA	CE				0.0135		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
516	2881	14			ICSA	CO				0.0034		1.0000	10/26/95	14:08	bjg	0.02	@ICP-QC
517	2881	14			ICSA	CR				0.0070		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
518	2881	14			ICSA	CU				-0.0086		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
519	2881	14			ICSA	EU				-0.0063		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
520	2881	14			ICSA	FE				92.4902		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
521	2881	14			ICSA	K				0.2294		1.0000	10/26/95	14:08	bjg	0.3	@ICP-QC
522	2881	14			ICSA	LA				-0.0036		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
523	2881	14			ICSA	LI				0.0015		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
524	2881	14			ICSA	MG				249.2719		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
525	2881	14			ICSA	MN				-0.0068		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
526	2881	14			ICSA	MO				-0.0084		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
527	2881	14			ICSA	NA				202.1926		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
528	2881	14			ICSA	ND				0.0051		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
529	2881	14			ICSA	NI				-0.0056		1.0000	10/26/95	14:08	bjg	0.02	@ICP-QC
530	2881	14			ICSA	P				-0.0007		1.0000	10/26/95	14:08	bjg	0.2	@ICP-QC
531	2881	14			ICSA	PB				0.0546		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
532	2881	14			ICSA	S				-0.0418		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
533	2881	14			ICSA	SB				0.0060		1.0000	10/26/95	14:08	bjg	0.2	@ICP-QC
534	2881	14			ICSA	SE				-0.0218		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
535	2881	14			ICSA	SI				0.0044		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
536	2881	14			ICSA	SM				-0.0159		1.0000	10/26/95	14:08	bjg	0.1	@ICP-QC
537	2881	14			ICSA	SR				0.0017		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
538	2881	14			ICSA	TH				-0.0186		1.0000	10/26/95	14:08	bjg	0	@ICP-QC
539	2881	14			ICSA	TI				0.0017		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
540	2881	14			ICSA	TL				0.0548		1.0000	10/26/95	14:08	bjg	0.2	@ICP-QC
541	2881	14			ICSA	U				0.0389		1.0000	10/26/95	14:08	bjg	0.4	@ICP-QC
542	2881	14			ICSA	V				-0.0023		1.0000	10/26/95	14:08	bjg	0.05	@ICP-QC
543	2881	14			ICSA	Y				0.0074		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
544	2881	14			ICSA	ZN				0.0045		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
545	2881	14			ICSA	ZR				-0.0033		1.0000	10/26/95	14:08	bjg	0.01	@ICP-QC
546	2881	15			ICSAB	AG				0.9692		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
547	2881	15			ICSAB	AL				244.0170		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
548	2881	15			ICSAB	AS				-0.0084		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
549	2881	15			ICSAB	B				-0.0008		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
550	2881	15			ICSAB	BA				0.4885		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
551	2881	15			ICSAB	BE				0.4905		1.0000	10/26/95	14:14	bjg	0.005	@ICP-QC
552	2881	15			ICSAB	BI				-0.0272		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
553	2881	15			ICSAB	CA				254.6415		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
554	2881	15			ICSAB	CD				0.9590		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
555	2881	15			ICSAB	CE				0.0134		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
556	2881	15			ICSAB	CO				0.4775		1.0000	10/26/95	14:14	bjg	0.02	@ICP-QC
557	2881	15			ICSAB	CR				0.4765		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
558	2881	15			ICSAB	CU				0.4983		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
559	2881	15			ICSAB	EU				-0.0134		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
560	2881	15			ICSAB	FE				94.6394		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
561	2881	15			ICSAB	K				0.2355		1.0000	10/26/95	14:14	bjg	0.3	@ICP-QC
562	2881	15			ICSAB	LA				-0.0026		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
563	2881	15			ICSAB	LI				1.0066		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
564	2881	15			ICSAB	MG				249.6941		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
565	2881	15			ICSAB	MN				0.4525		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
566	2881	15			ICSAB	MO				-0.0116		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
567	2881	15			ICSAB	NA				199.9682		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
568	2881	15			ICSAB	ND				0.0128		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
569	2881	15			ICSAB	NI				0.9196		1.0000	10/26/95	14:14	bjg	0.02	@ICP-QC
570	2881	15			ICSAB	P				0.0049		1.0000	10/26/95	14:14	bjg	0.2	@ICP-QC
571	2881	15			ICSAB	PB				1.0458		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
572	2881	15			ICSAB	S				0.0577		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
573	2881	15			ICSAB	SB				0.0120		1.0000	10/26/95	14:14	bjg	0.2	@ICP-QC
574	2881	15			ICSAB	SE				-0.0080		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
575	2881	15			ICSAB	SI				0.0195		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
576	2881	15			ICSAB	SM				-0.0168		1.0000	10/26/95	14:14	bjg	0.1	@ICP-QC
577	2881	15			ICSAB	SR				-0.0044		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
578	2881	15			ICSAB	TH				-0.0120		1.0000	10/26/95	14:14	bjg	0	@ICP-QC
579	2881	15			ICSAB	TI				0.0022		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
580	2881	15			ICSAB	TL				0.0383		1.0000	10/26/95	14:14	bjg	0.2	@ICP-QC
581	2881	15			ICSAB	U				-0.0153		1.0000	10/26/95	14:14	bjg	0.4	@ICP-QC
582	2881	15			ICSAB	V				0.4744		1.0000	10/26/95	14:14	bjg	0.05	@ICP-QC
583	2881	15			ICSAB	Y				0.0188		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
584	2881	15			ICSAB	ZN				0.9660		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
585	2881	15			ICSAB	ZR				-0.0033		1.0000	10/26/95	14:14	bjg	0.01	@ICP-QC
586	2881	16			CCV	AG				5.0984		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
587	2881	16			CCV	AL				4.9828		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
588	2881	16			CCV	AS				5.2699		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
589	2881	16			CCV	B				5.1539		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
590	2881	16			CCV	BA				5.2487		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
591	2881	16			CCV	BE				5.3229		1.0000	10/26/95	14:17	bjg	0.005	@ICP-QC
592	2881	16			CCV	BI				5.2023		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
593	2881	16			CCV	CA				5.3190		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
594	2881	16			CCV	CD				5.1488		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
595	2881	16			CCV	CE				5.3458		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
596	2881	16			CCV	CO				5.1553		1.0000	10/26/95	14:17	bjg	0.02	@ICP-QC
597	2881	16			CCV	CR				5.2106		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
598	2881	16			CCV	CU				5.3298		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
599	2881	16			CCV	EU				0.0074		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
600	2881	16			CCV	FE				5.2112		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
601	2881	16			CCV	K				5.2322		1.0000	10/26/95	14:17	bjg	0.3	@ICP-QC
602	2881	16			CCV	LA				5.2571		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
603	2881	16			CCV	LI				5.2888		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
604	2881	16			CCV	MG				5.0442		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
605	2881	16			CCV	MN				5.0454		1.0000	10/26/95	14:17	bjg	0.01	@ICP-QC
606	2881	16			CCV	MO				5.1973		1.0000	10/26/95	14:17	bjg	0.05	@ICP-QC
607	2881	16			CCV	NA				5.1888		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
608	2881	16			CCV	ND				5.3211		1.0000	10/26/95	14:17	bjg	0.1	@ICP-QC
609	2881	16			CCV	NI				5.1125		1.0000	10/26/95	14:17	bjg	0.02	@ICP-QC
610	2881	16			CCV	P				5.2054		1.0000	10/26/95	14:17	bjg	0.2	@ICP-QC

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
611	2881	16			CCV	PB				5.1800		1.0000	10/28/95	14:17	kg	0.1	@ICP-QC
612	2881	16			CCV	S				5.0344		1.0000	10/28/95	14:17	kg	0.05	@ICP-QC
613	2881	16			CCV	SB				4.8232		1.0000	10/28/95	14:17	kg	0.2	@ICP-QC
614	2881	16			CCV	SE				5.0763		1.0000	10/28/95	14:17	kg	0.1	@ICP-QC
615	2881	16			CCV	SI				4.9420		1.0000	10/28/95	14:17	kg	0.05	@ICP-QC
616	2881	16			CCV	SM				5.1363		1.0000	10/28/95	14:17	kg	0.1	@ICP-QC
617	2881	16			CCV	SR				5.1897		1.0000	10/28/95	14:17	kg	0.01	@ICP-QC
618	2881	16			CCV	TH				0.0346		1.0000	10/28/95	14:17	kg	0	@ICP-QC
619	2881	16			CCV	TI				5.0685		1.0000	10/28/95	14:17	kg	0.01	@ICP-QC
620	2881	16			CCV	TL				4.9657		1.0000	10/28/95	14:17	kg	0.2	@ICP-QC
621	2881	16			CCV	U				9.9440		1.0000	10/28/95	14:17	kg	0.4	@ICP-QC
622	2881	16			CCV	V				5.1309		1.0000	10/28/95	14:17	kg	0.05	@ICP-QC
623	2881	16			CCV	Y				0.0092		1.0000	10/28/95	14:17	kg	0.01	@ICP-QC
624	2881	16			CCV	ZN				5.1175		1.0000	10/28/95	14:17	kg	0.01	@ICP-QC
625	2881	16			CCV	ZR				5.1291		1.0000	10/28/95	14:17	kg	0.01	@ICP-QC
626	2881	17			CCB	AG				0.0016		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
627	2881	17			CCB	AL				0.0096		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
628	2881	17			CCB	AS				0.0108		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
629	2881	17			CCB	B				0.0108		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
630	2881	17			CCB	BA				0.0001		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
631	2881	17			CCB	BE				0.0002		1.0000	10/28/95	14:20	kg	0.005	@ICP-QC
632	2881	17			CCB	BI				-0.0186		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
633	2881	17			CCB	CA				0.0004		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
634	2881	17			CCB	CD				0.0008		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
635	2881	17			CCB	CE				0.0057		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
636	2881	17			CCB	CO				0.0018		1.0000	10/28/95	14:20	kg	0.02	@ICP-QC
637	2881	17			CCB	CR				0.0008		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
638	2881	17			CCB	CU				-0.0002		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
639	2881	17			CCB	EU				-0.0004		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
640	2881	17			CCB	FE				0.0015		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
641	2881	17			CCB	K				0.2249		1.0000	10/28/95	14:20	kg	0.3	@ICP-QC
642	2881	17			CCB	LA				0.0013		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
643	2881	17			CCB	LI				-0.0007		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
644	2881	17			CCB	MG				0.0070		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
645	2881	17			CCB	MN				0.0001		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
646	2881	17			CCB	MO				0.0039		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
647	2881	17			CCB	NA				-0.0062		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
648	2881	17			CCB	ND				0.0019		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
649	2881	17			CCB	NI				0.0009		1.0000	10/28/95	14:20	kg	0.02	@ICP-QC
650	2881	17			CCB	P				-0.0029		1.0000	10/28/95	14:20	kg	0.2	@ICP-QC
651	2881	17			CCB	PB				0.0143		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
652	2881	17			CCB	S				0.0032		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
653	2881	17			CCB	SB				-0.0019		1.0000	10/28/95	14:20	kg	0.2	@ICP-QC
654	2881	17			CCB	SE				0.0000		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
655	2881	17			CCB	SI				0.0037		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
656	2881	17			CCB	SM				-0.0083		1.0000	10/28/95	14:20	kg	0.1	@ICP-QC
657	2881	17			CCB	SR				0.0000		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
658	2881	17			CCB	TH				0.0089		1.0000	10/28/95	14:20	kg	0	@ICP-QC
659	2881	17			CCB	TI				0.0008		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
660	2881	17			CCB	TL				0.0244		1.0000	10/28/95	14:20	kg	0.2	@ICP-QC
661	2881	17			CCB	U				-0.0245		1.0000	10/28/95	14:20	kg	0.4	@ICP-QC
662	2881	17			CCB	V				-0.0014		1.0000	10/28/95	14:20	kg	0.05	@ICP-QC
663	2881	17			CCB	Y				-0.0005		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
664	2881	17			CCB	ZN				0.0013		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC
665	2881	17			CCB	ZR				-0.0005		1.0000	10/28/95	14:20	kg	0.01	@ICP-QC

DP-145, REV. 1

8 10/30/95

646

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2047

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12B

Method: LA-342-100 Rev/Mod A-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	LIQUID	1	24.1	N/A	ug/mL
		2	STD				TOC-02	LIQUID	2.79E3	3.00E3	N/A	ug/mL
95000104	BY-108 (R)	3	SAMPLE	S95T001430	0		TOC-02	LIQUID	N/A	2.55E3	40.0	~~ug/mL~~ ug/g
95000104	BY-108 (R)	4	DUP	S95T001430	0		TOC-02	LIQUID	2.55E3	2.51E3	N/A	ug/mL
95000104	BY-108 (R)	5	SPK	S95T001430	0		TOC-02	LIQUID	100	93	N/A	ug/mL
95000104	BY-108 (R)	6	SAMPLE	S95T001432	0		TOC-02	SOLID	N/A	3.87E3	40.0	ug/g
95000104	BY-108 (R)	7	DUP	S95T001432	0		TOC-02	SOLID	3.87E3	3.72E3	N/A	ug/g

Final page for worklist # 2047

8-18-95
Analyst Signature **Date**

9-11-95
Analyst Signature **Date**

Reviewed RW Schroeder 9/11/95

* Result units should be ug/g. DH 8/20/95

Sample S95T001430 liquid reported in ug/g units for accuracy and precision, due to sample adhesion to volumetric delivery. RWS 9/11/95

Data Entry Comments:

Tic results included with data. RWS 9/7/95

S95T001430 upper limit exceed.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WEE P^^^^P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/18/95 Time: 08:19:09

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.40	50.00
3	1.51	0.90	55.56
4	2.01	1.10	18.18
5	2.51	1.40	21.43
6	3.01	1.70	17.65
7	3.51	2.00	15.00
8	4.00	2.30	13.04
9	4.50	2.50	8.00
10	5.00	2.80	10.71
11	5.50	3.00	6.67
12	6.00	3.20	6.25
13	6.50	3.60	11.11
14	7.00	3.80	5.26
15	7.50	4.00	5.00
16	8.00	4.30	6.98
17	8.50	4.50	4.44
18	9.00	4.80	6.25
19	9.50	5.00	4.00
20	10.00	5.20	3.85
21	10.50	5.50	5.45
22	11.00	5.70	3.51

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 648 **TO** 661.

BLANK VALUE = 5.7 micrograms carbon
BLANK FACTOR = 5.7 / 11.00067 = +5.2E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000 8-18-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/18/95 Time: 08:32:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.90	100.00
3	1.51	1.70	47.06
4	2.00	3.20	46.88
5	2.50	4.40	27.27
6	3.01	6.70	34.33
7	3.51	8.40	20.24
8	4.01	10.10	16.83
9	4.50	12.20	17.21
10	5.00	13.50	9.63
11	5.50	14.90	9.40
12	6.00	16.30	8.59
13	6.50	17.40	6.32
14	7.00	18.50	5.95
15	7.50	19.40	4.64
16	8.00	20.10	3.48
17	8.50	20.80	3.37
18	9.00	21.60	3.70
19	9.50	22.30	3.14
20	10.00	23.00	3.04
21	10.50	23.50	2.13
22	11.00	24.10	2.49

BLANK VALUE = 24.1 micrograms carbon
BLANK FACTOR = 24.1 / 11.00253 = +2.19E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/18/95 Time: 09:51:05

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.80	0.00
2	1.01	205.40	97.66
3	1.50	396.30	48.17
4	2.00	497.00	20.26
5	2.50	539.50	7.88
6	3.00	555.60	2.90
7	3.50	562.40	1.21
8	4.00	564.50	0.37
9	4.50	565.80	0.23
10	5.00	566.90	0.19
11	5.50	567.40	0.09
12	6.00	568.00	0.11
13	6.50	568.50	0.09
14	7.00	569.00	0.09
15	7.50	569.40	0.07
16	8.00	569.80	0.07
17	8.50	570.10	0.05
18	9.00	570.50	0.07
19	9.50	570.80	0.05
20	10.00	571.10	0.05
21	10.50	571.30	0.04
22	11.00	571.70	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(571.7 - 5.71981)(1)/(1000) = +5.660E-01 g/L Carbon
(571.7 - 5.71981)(1)/(1000)(12) = +4.717E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/18/95 Time: 09:37:58

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.01	2.70	92.59
3	1.50	16.40	83.54
4	2.00	57.80	71.63
5	2.50	126.80	54.42
6	3.00	223.80	43.34
7	3.50	346.80	35.47
8	4.00	480.00	27.75
9	4.50	608.20	21.08
10	5.00	709.80	14.31
11	5.50	775.80	8.51
12	6.00	808.90	4.09
13	6.50	832.90	2.88
14	7.00	843.00	1.20
15	7.50	848.30	0.62
16	8.00	851.40	0.36
17	8.50	853.60	0.26
18	9.00	854.90	0.15
19	9.50	856.50	0.19
20	10.00	857.70	0.14
21	10.50	858.80	0.13
22	11.00	860.00	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(860 - 24.09334)(1)/(300) = +2.786E+00 g/L Carbon
(860 - 24.09334)(1)/(300)(12) = +2.322E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:10:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	8.10	100.00
3	1.51	57.40	85.89
4	2.00	166.50	65.53
5	2.50	250.80	33.61
6	3.00	289.70	13.43
7	3.50	307.50	5.79
8	4.00	314.90	2.35
9	4.50	318.90	1.25
10	5.00	321.00	0.65
11	5.50	323.00	0.62
12	6.00	324.70	0.52
13	6.50	325.80	0.34
14	7.00	327.00	0.37
15	7.50	328.20	0.37
16	8.00	329.30	0.33
17	8.50	330.10	0.24
18	9.00	330.80	0.21
19	9.50	331.60	0.24
20	10.00	332.30	0.21
21	10.50	333.00	0.21
22	11.00	333.50	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(333.5 - 5.719936)(1)/(1) = +3.278E+02 g/L Carbon
(333.5 - 5.719936)(1)/(1)(12) = +2.732E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

652

1034g = 256e3

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:25:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	53.20	97.74
3	1.51	152.60	65.14
4	2.00	221.00	30.95
5	2.50	249.40	11.39
6	3.00	261.10	4.48
7	3.50	267.20	2.28
8	4.00	270.60	1.26
9	4.50	273.30	0.99
10	5.00	276.00	0.98
11	5.50	277.80	0.65
12	6.00	279.20	0.50
13	6.50	280.30	0.39
14	7.00	281.20	0.32
15	7.50	282.30	0.39
16	8.00	283.30	0.35
17	8.50	283.90	0.21
18	9.00	284.60	0.25
19	9.50	285.40	0.28
20	10.00	286.10	0.24
21	10.50	286.70	0.21
22	11.00	287.30	0.21

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(287.3 - 24.08746)(1)/(1) = +2.632E+02 g/L Carbon
(287.3 - 24.08746)(1)/(1)(12) = +2.193E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

653

.1034g = 2.55e3

(~~2.63~~ 2.55 X10^2 ~~8~~ / 8) (1.00X10^4 ug / ~~8~~)
DA 8/20/95

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:44:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	10.30	100.00
3	1.51	124.00	91.69
4	2.00	356.30	65.20
5	2.50	630.30	43.47
6	3.00	857.70	26.51
7	3.50	980.70	12.54
8	4.00	1037.50	5.47
9	4.50	1068.00	2.86
10	5.00	1085.80	1.64
11	5.50	1096.60	0.98
12	6.00	1105.20	0.78
13	6.50	1111.60	0.58
14	7.00	1117.40	0.52
15	7.50	1121.30	0.35
16	8.00	1125.10	0.34
17	8.50	1128.50	0.30
18	9.00	1131.60	0.27
19	9.50	1134.20	0.23
20	10.00	1136.70	0.22
21	10.50	1138.70	0.18
22	11.00	1140.80	0.18

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(1140.8 - 5.719873)(1)/(1) = +1.1351E+03 g/L Carbon
(1140.8 - 5.719873)(1)/(1)(12) = +9.4590E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 Date: 08/18/95 Time: 10:59:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.70	0.00
2	1.01	90.00	98.11
3	1.50	301.80	70.18
4	2.00	568.40	46.90
5	2.50	727.80	21.90
6	3.00	798.60	8.87
7	3.50	831.00	3.90
8	4.00	848.10	2.02
9	4.50	857.90	1.14
10	5.00	864.60	0.77
11	5.50	870.60	0.69
12	6.00	874.20	0.41
13	6.50	877.50	0.38
14	7.00	880.30	0.32
15	7.50	883.60	0.37
16	8.00	886.10	0.28
17	8.50	887.70	0.18
18	9.00	889.20	0.17
19	9.50	890.30	0.12
20	10.00	891.30	0.11
21	10.50	892.40	0.12
22	11.00	893.30	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(893.3 - 24.09134)(1)/(1) = +8.692E+02 g/L Carbon
(893.3 - 24.09134)(1)/(1)(12) = +7.243E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

655

$3.4166g = 2.51\varepsilon^{3}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 + SPK Date: 08/18/95 Time: 11:34:18

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .52 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	16.80	100.00
3	1.51	218.30	92.30
4	2.00	495.90	55.98
5	2.50	697.00	28.85
6	3.00	810.60	14.01
7	3.50	867.70	6.58
8	4.00	897.80	3.35
9	4.50	914.90	1.87
10	5.00	924.60	1.05
11	5.50	932.30	0.83
12	6.00	938.20	0.63
13	6.50	943.00	0.51
14	7.00	947.70	0.50
15	7.50	951.60	0.41
16	8.00	955.00	0.36
17	8.50	957.70	0.28
18	9.00	960.70	0.31
19	9.50	962.90	0.23
20	10.00	965.40	0.26
21	10.50	967.00	0.17
22	11.00	969.00	0.21

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(969 - 5.720889)(1)/(1) = +9.633E+02 g/L Carbon
(969 - 5.720889)(1)/(1)(12) = +8.027E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1430 + SPK Date: 08/18/95 Time: 11:50:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	34.70	98.27
3	1.50	165.90	79.08
4	2.00	375.50	55.82
5	2.50	568.70	33.97
6	3.00	675.20	15.77
7	3.50	728.50	7.32
8	4.00	756.20	3.66
9	4.50	771.20	1.95
10	5.00	779.70	1.09
11	5.50	785.00	0.68
12	6.00	789.00	0.51
13	6.50	792.00	0.38
14	7.00	794.40	0.30
15	7.50	796.40	0.25
16	8.00	797.90	0.19
17	8.50	799.40	0.19
18	9.00	800.70	0.16
19	9.50	801.70	0.12
20	10.00	802.70	0.12
21	10.50	803.50	0.10
22	11.00	804.30	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(804.3 - 24.0896)(1)/(1) = +7.802E+02 g/L Carbon
(804.3 - 24.0896)(1)/(1)(12) = +6.502E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

657

.2028g + .1mL 16N12B = 93% Rec

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:08:32

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	4.50	73.33
3	1.50	55.80	91.94
4	2.00	217.80	74.38
5	2.50	480.10	54.63
6	3.00	728.10	34.06
7	3.50	916.00	20.51
8	4.00	1029.00	10.98
9	4.50	1095.20	6.04
10	5.00	1135.00	3.51
11	5.50	1159.40	2.10
12	6.00	1175.20	1.34
13	6.50	1185.00	0.83
14	7.00	1192.00	0.59
15	7.50	1198.40	0.53
16	8.00	1206.80	0.70
17	8.50	1216.60	0.81
18	9.00	1224.60	0.65
19	9.50	1230.50	0.48
20	10.00	1235.50	0.40
21	10.50	1240.50	0.40
22	11.00	1245.30	0.39

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(1245.3 - 5.720793)(1)/(1) = +1.2396E+03 g/L Carbon
(1245.3 - 5.720793)(1)/(1)(12) = +1.0330E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:20:57

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.00	0.00
2	1.01	27.60	92.75
3	1.50	212.20	86.99
4	2.00	407.70	47.95
5	2.50	571.70	28.69
6	3.00	693.10	17.52
7	3.50	772.10	10.23
8	4.00	822.80	6.16
9	4.50	855.90	3.87
10	5.00	876.90	2.39
11	5.50	889.60	1.43
12	6.00	897.20	0.85
13	6.50	902.70	0.61
14	7.00	906.80	0.45
15	7.50	909.70	0.32
16	8.00	912.40	0.30
17	8.50	914.60	0.24
18	9.00	916.40	0.20
19	9.50	917.90	0.16
20	10.00	919.40	0.16
21	10.50	920.90	0.16
22	11.00	922.20	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(922.2 - 24.08933)(1)/(1) = +8.981E+02 g/L Carbon
(922.2 - 24.08933)(1)/(1)(12) = +7.484E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

659

.2320g = 3.87E-3

^P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:38:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .52 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.00	0.00
2	1.01	5.70	64.91
3	1.50	13.70	58.39
4	2.00	156.70	91.26
5	2.50	543.10	71.15
6	3.00	903.70	39.90
7	3.50	1152.30	21.57
8	4.00	1312.00	12.17
9	4.50	1398.60	6.19
10	5.00	1440.20	2.89
11	5.50	1463.50	1.59
12	6.00	1476.80	0.90
13	6.50	1486.10	0.63
14	7.00	1492.60	0.44
15	7.50	1497.50	0.33
16	8.00	1501.80	0.29
17	8.50	1505.90	0.27
18	9.00	1509.40	0.23
19	9.50	1512.60	0.21
20	10.00	1515.30	0.18
21	10.50	1517.60	0.15
22	11.00	1519.70	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 5.721317 micrograms carbon
BLANK FACTOR = 5.721317 / 11.00253 = +5.2E-01 ug/min Carbon

SAMPLE RESULTS:
(1519.7 - 5.719936)(1)/(1) = +1.5140E+03 g/L Carbon
(1519.7 - 5.719936)(1)/(1)(12) = +1.2617E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1432 Date: 08/18/95 Time: 12:53:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.19 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.30	0.00
2	1.01	165.60	99.21
3	1.50	374.40	55.77
4	2.00	530.80	29.46
5	2.50	658.40	19.38
6	3.00	748.10	11.99
7	3.50	818.10	8.56
8	4.00	870.10	5.98
9	4.50	910.00	4.38
10	5.00	940.30	3.22
11	5.50	962.30	2.29
12	6.00	977.40	1.54
13	6.50	987.00	0.97
14	7.00	994.20	0.72
15	7.50	1000.00	0.58
16	8.00	1004.10	0.41
17	8.50	1007.00	0.29
18	9.00	1009.30	0.23
19	9.50	1011.20	0.19
20	10.00	1012.60	0.14
21	10.50	1013.90	0.13
22	11.00	1015.10	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 24.09555 micrograms carbon
BLANK FACTOR = 24.09555 / 11.00253 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(1015.1 - 24.08907)(1)/(1) = +9.9101E+02 g/L Carbon
(1015.1 - 24.08907)(1)/(1)(12) = +8.2584E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.2663 = 3.726^3

661

LABCORE Data Entry Template for Worklist# 2100

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12B

Method: LA-342-100 Rev/Mod A-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	28.4	N/A	ug/g
		2	STD				TOC-02	SOLID	$3.00E^{3}$	$2.74E^{3}$	N/A	ug/g
95000104	BY-108 (R)	3	SAMPLE	S95T001431	0		TOC-02	SOLID	N/A	$3.98E^{3}$		ug/g
95000104	BY-108 (R)	4	DUP	S95T001431	0		TOC-02	SOLID	$3.98E^{3}$	$4.10E^{3}$	N/A	ug/g

Final page for worklist # 2100

8-24-95
Analyst Signature **Date**

8-25-95
Analyst Signature **Date**

RW Schroeder 9/4/95

Data Entry Comments: TIC data included as supporting (extra) data. RWS 8/29

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/21/95 Time: 08:03:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.10	0.00
2	1.01	0.30	66.67
3	1.51	0.50	40.00
4	2.01	0.80	37.50
5	2.51	0.90	11.11
6	3.01	1.10	18.18
7	3.51	1.30	15.38
8	4.00	1.40	7.14
9	4.50	1.50	6.67
10	5.00	1.60	6.25
11	5.50	1.80	11.11
12	6.00	1.90	5.26
13	6.50	2.00	5.00
14	7.00	2.10	4.76
15	7.50	2.20	4.55
16	8.00	2.30	4.35
17	8.50	2.50	8.00
18	9.00	2.60	3.85
19	9.50	2.70	3.70
20	10.00	2.80	3.57
21	10.50	2.90	3.45
22	11.00	3.00	3.33

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 663 **TO** 670.

BLANK VALUE = 3 micrograms carbon
BLANK FACTOR = 3 / 10.99884 = +2.7E-01 ug/min Carbon

Sample Run By: [signature] 8-21-95
KR MONTEITH 00000

^^p^

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/21/95 Time: 08:15:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	6.70	82.09
3	1.51	12.40	45.97
4	2.00	16.30	23.93
5	2.50	18.50	11.89
6	3.00	19.70	6.09
7	3.50	20.70	4.83
8	4.00	21.20	2.36
9	4.50	21.80	2.75
10	5.00	22.30	2.24
11	5.50	22.80	2.19
12	6.00	23.10	1.30
13	6.50	23.50	1.70
14	7.00	24.10	2.49
15	7.50	24.60	2.03
16	8.00	25.20	2.38
17	8.50	25.60	1.56
18	9.00	26.00	1.54
19	9.50	26.50	1.89
20	10.00	27.30	2.93
21	10.50	27.80	1.80
22	11.00	28.40	2.11

BLANK VALUE = 28.4 micrograms carbon
BLANK FACTOR = 28.4 / 11.00067 = +2.58E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/21/95 Time: 08:32:03

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	14.70	0.00
2	1.01	220.50	93.33
3	1.51	405.30	45.60
4	2.01	506.30	19.95
5	2.51	552.90	8.43
6	3.01	569.90	2.98
7	3.51	575.70	1.01
8	4.01	578.30	0.45
9	4.50	579.70	0.24
10	5.00	580.80	0.19
11	5.50	581.60	0.14
12	6.00	582.40	0.14
13	6.50	583.00	0.10
14	7.00	583.70	0.12
15	7.50	584.20	0.09
16	8.00	584.80	0.10
17	8.50	585.30	0.09
18	9.00	585.80	0.09
19	9.50	586.30	0.09
20	10.00	586.70	0.07
21	10.50	587.10	0.07
22	11.00	587.50	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
(587.5 - 2.970445)(1)/(1000) = +5.845E-01 g/L Carbon
(587.5 - 2.970445)(1)/(1000)(12) = +4.871E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/21/95 Time: 08:45:16

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.50	0.00
2	1.01	102.90	98.54
3	1.51	412.70	75.07
4	2.00	701.50	41.17
5	2.50	795.70	11.84
6	3.00	821.20	3.11
7	3.50	829.80	1.04
8	4.00	833.40	0.43
9	4.50	835.80	0.29
10	5.00	837.70	0.23
11	5.50	839.10	0.17
12	6.00	840.40	0.15
13	6.50	841.40	0.12
14	7.00	842.40	0.12
15	7.50	843.50	0.13
16	8.00	844.20	0.08
17	8.50	845.00	0.09
18	9.00	845.80	0.09
19	9.50	846.60	0.09
20	10.00	847.40	0.09
21	10.50	848.40	0.12
22	11.00	849.30	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
(849.3 - 28.37701)(1)/(300) = +2.736E+00 g/L Carbon
(849.3 - 28.37701)(1)/(300)(12) = +2.280E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

PPPP

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 10:29:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.80	0.00
2	1.01	22.40	91.96
3	1.51	115.30	80.57
4	2.00	265.90	56.64
5	2.50	479.60	44.56
6	3.00	629.90	23.86
7	3.50	708.70	11.12
8	4.00	745.30	4.91
9	4.50	761.50	2.13
10	5.00	769.40	1.03
11	5.50	773.90	0.58
12	6.00	777.40	0.45
13	6.50	780.50	0.40
14	7.00	783.10	0.33
15	7.50	785.50	0.31
16	8.00	787.50	0.25
17	8.50	789.40	0.24
18	9.00	791.00	0.20
19	9.50	792.40	0.18
20	10.00	793.80	0.18
21	10.50	795.00	0.15
22	11.00	796.20	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
(796.2 - 2.969934)(1)/(1) = +7.932E+02 g/L Carbon
(796.2 - 2.969934)(1)/(1)(12) = +6.610E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 4

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 10:43:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	11.70	0.00
2	1.01	217.20	94.61
3	1.51	403.60	46.18
4	2.00	511.70	21.13
5	2.50	559.20	8.49
6	3.00	580.50	3.67
7	3.50	589.60	1.54
8	4.00	594.50	0.82
9	4.50	597.50	0.50
10	5.00	600.00	0.42
11	5.50	602.00	0.33
12	6.00	603.50	0.25
13	6.50	605.00	0.25
14	7.00	606.20	0.20
15	7.50	607.50	0.21
16	8.00	609.10	0.26
17	8.50	610.20	0.18
18	9.00	611.20	0.16
19	9.50	612.00	0.13
20	10.00	612.70	0.11
21	10.50	613.60	0.15
22	11.00	614.30	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
(614.3 - 28.37921)(1)/(1) = +5.859E+02 g/L Carbon
(614.3 - 28.37921)(1)/(1)(12) = +4.883E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.1472 = 3.98 e³

668

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 11:00:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .27 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	5.70	94.74
3	1.51	55.90	89.80
4	2.00	196.60	71.57
5	2.50	419.70	53.16
6	3.00	644.00	34.83
7	3.50	816.70	21.15
8	4.00	921.10	11.33
9	4.50	983.70	6.36
10	5.00	1019.80	3.54
11	5.50	1039.30	1.88
12	6.00	1051.50	1.16
13	6.50	1060.90	0.89
14	7.00	1067.90	0.66
15	7.50	1074.50	0.61
16	8.00	1080.30	0.54
17	8.50	1085.20	0.45
18	9.00	1089.60	0.40
19	9.50	1093.80	0.38
20	10.00	1097.20	0.31
21	10.50	1100.80	0.33
22	11.00	1103.90	0.28

USER INPUT BLANK VALUE
BLANK VALUE = 2.970181 micrograms carbon
BLANK FACTOR = 2.970181 / 11.00067 = +2.7E-01 ug/min Carbon

SAMPLE RESULTS:
(1103.9 - 2.969918)(1)/(1) = +1.1009E+03 g/L Carbon
(1103.9 - 2.969918)(1)/(1)(12) = +9.1744E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1431 Date: 08/21/95 Time: 11:12:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.58 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.30	0.00
2	1.01	103.70	95.85
3	1.50	360.80	71.26
4	2.00	582.50	38.06
5	2.50	723.50	19.49
6	3.00	798.10	9.35
7	3.50	835.00	4.42
8	4.00	850.70	1.85
9	4.50	860.10	1.09
10	5.00	866.00	0.68
11	5.50	870.60	0.53
12	6.00	873.70	0.35
13	6.50	876.70	0.34
14	7.00	878.90	0.25
15	7.50	881.10	0.25
16	8.00	882.90	0.20
17	8.50	884.80	0.21
18	9.00	886.40	0.18
19	9.50	887.90	0.17
20	10.00	889.00	0.12
21	10.50	890.30	0.15
22	11.00	891.30	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 28.38173 micrograms carbon
BLANK FACTOR = 28.38173 / 11.00067 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS:
(891.3 - 28.37906)(1)/(1) = +8.629E+02 g/L Carbon
(891.3 - 28.37906)(1)/(1)(12) = +7.191E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

670

$.8103_2 = 4.10_2{}^3$

LABCORE Data Entry Template for Worklist# 2111

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12-B

Method: LA-342-100 Rev/Mod A.0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK				TOC-02	LIQUID	1	29.8	N/A	ug/mL
		2 STD				TOC-02	LIQUID	$3.00_E{}^3$	$2.89_E{}^3$	N/A	ug/mL
95000104	BY-108 (R)	3 SAMPLE	S95T001373	0		TOC-02	LIQUID	N/A	$2.64_E{}^3$	40.0	ug/mL
95000104	BY-108 (R)	4 DUP	S95T001373	0		TOC-02	LIQUID	$2.64_E{}^3$	$2.74_E{}^3$	N/A	ug/mL
95000104	BY-108 (R)	5 SAMPLE	S95T001433	0		TOC-02	SOLID	N/A	$3.04_E{}^3$	40.0	ug/g
95000104	BY-108 (R)	6 DUP	S95T001433	0		TOC-02	SOLID	$3.04_E{}^3$	$3.24_E{}^3$	N/A	ug/g
95000104	BY-108 (R)	7 SAMPLE	S95T001390	0		TOC-02	SOLID	N/A	$2.33_E{}^3$	400	ug/g
95000104	BY-108 (R)	8 DUP	S95T001390	0		TOC-02	SOLID	$2.33_E{}^3$	$2.23_E{}^3$	N/A	ug/g

Final page for worklist # 2111

[signature] 8-28-95
Analyst Signature **Date**

[signature] 9/5/95
Analyst Signature **Date**

Data Entry Comments: Tic data included as supporting (extra) data. RWS 9/5/

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

^P^^^P^PPP

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/28/95 Time: 17:21:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.20	100.00
3	1.51	0.40	50.00
4	2.00	0.70	42.86
5	2.50	0.80	12.50
6	3.00	1.20	33.33
7	3.50	1.20	0.00
8	4.00	1.20	0.00
9	4.50	1.20	0.00
10	5.00	1.30	7.69
11	5.50	1.40	7.14
12	6.00	1.50	6.67
13	6.50	1.60	6.25
14	7.00	1.70	5.88
15	7.50	1.70	0.00
16	8.00	1.80	5.56
17	8.50	1.90	5.26
18	9.00	2.00	5.00
19	9.50	2.10	4.76
20	10.00	2.10	0.00
21	10.50	2.20	4.55
22	11.00	2.30	4.35

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 672 **TO** 687.

BLANK VALUE = 2.3 micrograms carbon
BLANK FACTOR = 2.3 / 11.00061 = +2.1E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000 8-28-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/28/95 Time: 17:38:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	4.60	100.00
3	1.51	13.30	65.41
4	2.00	18.90	29.63
5	2.50	21.60	12.50
6	3.01	22.90	5.68
7	3.50	24.10	4.98
8	4.00	24.60	2.03
9	4.50	25.20	2.38
10	5.00	25.80	2.33
11	5.50	26.40	2.27
12	6.00	26.70	1.12
13	6.50	27.10	1.48
14	7.00	27.60	1.81
15	7.50	27.90	1.08
16	8.00	28.20	1.06
17	8.50	28.40	0.70
18	9.00	28.70	1.05
19	9.50	28.90	0.69
20	10.00	29.20	1.03
21	10.50	29.60	1.35
22	11.00	29.80	0.67

BLANK VALUE = 29.8 micrograms carbon
BLANK FACTOR = 29.8 / 10.99963 = +2.71E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/28/95 Time: 18:15:32

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	1.10	0.00
2	1.00	159.00	99.31
3	1.50	366.20	56.58
4	2.00	483.00	24.18
5	2.50	541.30	10.77
6	3.00	564.60	4.13
7	3.50	573.00	1.47
8	4.00	576.10	0.54
9	4.50	577.60	0.26
10	5.00	578.60	0.17
11	5.50	579.40	0.14
12	6.00	580.20	0.14
13	6.50	580.80	0.10
14	7.00	581.20	0.07
15	7.50	581.70	0.09
16	8.00	582.10	0.07
17	8.50	582.40	0.05
18	9.00	582.70	0.05
19	9.50	583.20	0.09
20	10.00	583.40	0.03
21	10.50	583.70	0.05
22	11.00	584.00	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(584 - 2.309949)(1)/(1000) = +5.817E-01 g/L Carbon
(584 - 2.309949)(1)/(1000)(12) = +4.847E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/28/95 Time: 18:03:05

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	47.80	100.00
3	1.50	283.90	83.16
4	2.00	637.20	55.45
5	2.50	809.00	21.24
6	3.00	861.30	6.07
7	3.50	876.60	1.75
8	4.00	882.30	0.65
9	4.50	885.10	0.32
10	5.00	886.60	0.17
11	5.50	888.10	0.17
12	6.00	889.30	0.13
13	6.50	890.30	0.11
14	7.00	891.20	0.10
15	7.50	891.90	0.08
16	8.00	892.60	0.08
17	8.50	893.20	0.07
18	9.00	893.70	0.06
19	9.50	894.20	0.06
20	10.00	894.60	0.04
21	10.50	895.10	0.06
22	11.00	895.40	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(895.4 - 29.80636)(1)/(300) = +2.885E+00 g/L Carbon
(895.4 - 29.80636)(1)/(300)(12) = +2.404E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:27:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	10.30	100.00
3	1.51	144.20	92.86
4	2.00	407.90	64.65
5	2.50	653.50	37.58
6	3.00	878.30	25.59
7	3.50	1043.70	15.85
8	4.00	1121.60	6.95
9	4.50	1156.90	3.05
10	5.00	1174.10	1.46
11	5.50	1184.00	0.84
12	6.00	1190.70	0.56
13	6.50	1196.00	0.44
14	7.00	1200.80	0.40
15	7.50	1204.10	0.27
16	8.00	1207.60	0.29
17	8.50	1210.30	0.22
18	9.00	1212.70	0.20
19	9.50	1214.90	0.18
20	10.00	1216.60	0.14
21	10.50	1218.20	0.13
22	11.00	1219.60	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(1219.6 - 2.30959)(1)/(1) = +1.2173E+03 g/L Carbon
(1219.6 - 2.30959)(1)/(1)(12) = +1.0144E+02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:39:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.20	0.00
2	1.01	23.20	90.52
3	1.51	160.80	85.57
4	2.00	419.00	61.62
5	2.50	558.80	25.02
6	3.00	617.60	9.52
7	3.50	644.30	4.14
8	4.00	656.80	1.90
9	4.50	664.80	1.20
10	5.00	669.40	0.69
11	5.50	673.60	0.62
12	6.00	676.20	0.38
13	6.50	678.70	0.37
14	7.00	680.50	0.26
15	7.50	682.40	0.28
16	8.00	683.70	0.19
17	8.50	684.80	0.16
18	9.00	686.20	0.20
19	9.50	687.60	0.20
20	10.00	688.70	0.16
21	10.50	689.70	0.14
22	11.00	690.40	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(690.4 - 29.80901)(1)/(1) = +6.606E+02 g/L Carbon
(690.4 - 29.80901)(1)/(1)(12) = +5.505E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

677

.250mL = 2.64E-3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 18:51:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	10.50	94.29
3	1.51	129.50	91.89
4	2.00	371.00	65.09
5	2.50	563.80	34.20
6	3.00	697.00	19.11
7	3.50	916.70	23.97
8	4.00	1080.80	15.18
9	4.50	1154.30	6.37
10	5.00	1192.50	3.20
11	5.50	1211.80	1.59
12	6.00	1224.30	1.02
13	6.50	1234.10	0.79
14	7.00	1242.00	0.64
15	7.50	1248.50	0.52
16	8.00	1254.20	0.45
17	8.50	1259.40	0.41
18	9.00	1263.70	0.34
19	9.50	1267.00	0.26
20	10.00	1270.60	0.28
21	10.50	1273.40	0.22
22	11.00	1276.40	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(1276.4 - 2.309974)(1)/(1) = +1.2741E+03 g/L Carbon
(1276.4 - 2.309974)(1)/(1)(12) = +1.0617E+02 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1373 Date: 08/28/95 Time: 20:08:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	3.70	0.00
2	1.01	22.90	83.84
3	1.51	164.60	86.09
4	2.00	434.80	62.14
5	2.50	576.50	24.58
6	3.00	635.00	9.21
7	3.50	662.30	4.12
8	4.00	675.70	1.98
9	4.50	684.20	1.24
10	5.00	689.50	0.77
11	5.50	693.50	0.58
12	6.00	697.40	0.56
13	6.50	700.10	0.39
14	7.00	703.00	0.41
15	7.50	705.70	0.38
16	8.00	707.90	0.31
17	8.50	709.60	0.24
18	9.00	710.70	0.15
19	9.50	712.20	0.21
20	10.00	713.40	0.17
21	10.50	714.50	0.15
22	11.00	715.90	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(715.9 - 29.80934)(1)/(1) = +6.861E+02 g/L Carbon
(715.9 - 29.80934)(1)/(1)(12) = +5.717E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

679

.250mL = 2.745

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:24:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	16.20	100.00
3	1.50	161.60	89.98
4	2.00	406.60	60.26
5	2.50	707.20	42.51
6	3.00	972.20	27.26
7	3.50	1144.10	15.02
8	4.00	1233.90	7.28
9	4.50	1281.40	3.71
10	5.00	1306.90	1.95
11	5.50	1321.00	1.07
12	6.00	1331.50	0.79
13	6.50	1339.70	0.61
14	7.00	1346.60	0.51
15	7.50	1352.20	0.41
16	8.00	1357.40	0.38
17	8.50	1361.80	0.32
18	9.00	1365.40	0.26
19	9.50	1368.70	0.24
20	10.00	1371.50	0.20
21	10.50	1374.20	0.20
22	11.00	1376.40	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(1376.4 - 2.309974)(1)/(1) = +1.3741E+03 g/L Carbon
(1376.4 - 2.309974)(1)/(1)(12) = +1.1451E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:36:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	3.00	0.00
2	1.01	143.50	97.91
3	1.51	505.80	71.63
4	2.00	809.20	37.49
5	2.50	944.20	14.30
6	3.00	996.90	5.29
7	3.50	1020.10	2.27
8	4.00	1031.40	1.10
9	4.50	1039.20	0.75
10	5.00	1044.10	0.47
11	5.50	1048.30	0.40
12	6.00	1051.40	0.29
13	6.50	1054.00	0.25
14	7.00	1056.40	0.23
15	7.50	1058.60	0.21
16	8.00	1060.70	0.20
17	8.50	1062.70	0.19
18	9.00	1064.40	0.16
19	9.50	1065.80	0.13
20	10.00	1067.20	0.13
21	10.50	1068.40	0.11
22	11.00	1069.50	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(1069.5 - 29.81199)(1)/(1) = +1.0397E+03 g/L Carbon
(1069.5 - 29.81199)(1)/(1)(12) = +8.6641E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

681

.4470 = 2.336^3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 20:49:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.30	0.00
2	1.01	22.70	94.27
3	1.51	227.80	90.04
4	2.01	480.40	52.58
5	2.50	702.20	31.59
6	3.00	870.80	19.36
7	3.50	995.00	12.48
8	4.00	1071.10	7.10
9	4.50	1117.50	4.15
10	5.00	1146.10	2.50
11	5.50	1164.10	1.55
12	6.00	1177.40	1.13
13	6.50	1188.70	0.95
14	7.00	1196.80	0.68
15	7.50	1203.60	0.56
16	8.00	1209.20	0.46
17	8.50	1214.10	0.40
18	9.00	1217.90	0.31
19	9.50	1221.80	0.32
20	10.00	1225.20	0.28
21	10.50	1228.00	0.23
22	11.00	1231.00	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(1231 - 2.310333)(1)/(1) = +1.2287E+03 g/L Carbon
(1231 - 2.310333)(1)/(1)(12) = +1.0239E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1390 Date: 08/28/95 Time: 21:01:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.60	0.00
2	1.01	94.00	97.23
3	1.51	347.00	72.91
4	2.00	573.60	39.50
5	2.50	694.70	17.43
6	3.00	749.00	7.25
7	3.50	773.70	3.19
8	4.01	784.00	1.31
9	4.50	790.60	0.83
10	5.00	795.30	0.59
11	5.50	798.70	0.43
12	6.00	801.40	0.34
13	6.50	803.60	0.27
14	7.00	806.40	0.35
15	7.50	808.70	0.28
16	8.00	810.40	0.21
17	8.50	812.00	0.20
18	9.00	813.40	0.17
19	9.50	814.90	0.18
20	10.00	816.20	0.16
21	10.50	817.50	0.16
22	11.00	818.50	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(818.5 - 29.81199)(1)/(1) = +7.887E+02 g/L Carbon
(818.5 - 29.81199)(1)/(1)(12) = +6.572E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.354/g = 2.23e-3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:13:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	13.90	94.96
3	1.50	94.80	85.34
4	2.00	264.60	64.17
5	2.50	504.10	47.51
6	3.00	735.00	31.41
7	3.50	884.60	16.91
8	4.00	967.40	8.56
9	4.50	1016.30	4.81
10	5.00	1044.10	2.66
11	5.50	1060.80	1.57
12	6.00	1073.70	1.20
13	6.50	1083.60	0.91
14	7.00	1092.10	0.78
15	7.50	1099.60	0.68
16	8.00	1106.20	0.60
17	8.50	1111.50	0.48
18	9.00	1116.80	0.47
19	9.50	1121.40	0.41
20	10.00	1125.50	0.36
21	10.50	1128.80	0.29
22	11.00	1132.10	0.29

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(1132.1 - 2.309564)(1)/(1) = +1.1298E+03 g/L Carbon
(1132.1 - 2.309564)(1)/(1)(12) = +9.4149E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:25:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.60	0.00
2	1.01	75.50	93.91
3	1.51	301.70	74.98
4	2.00	581.30	48.10
5	2.50	732.20	20.61
6	3.00	799.90	8.46
7	3.50	838.70	4.63
8	4.00	862.20	2.73
9	4.50	877.30	1.72
10	5.00	888.70	1.28
11	5.50	897.80	1.01
12	6.00	905.50	0.85
13	6.50	912.00	0.71
14	7.00	916.90	0.53
15	7.50	921.40	0.49
16	8.00	925.50	0.44
17	8.50	928.90	0.37
18	9.00	932.70	0.41
19	9.50	936.30	0.38
20	10.00	939.70	0.36
21	10.50	942.80	0.33
22	11.00	946.00	0.34

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(946 - 29.80206)(1)/(1) = +9.162E+02 g/L Carbon
(946 - 29.80206)(1)/(1)(12) = +7.635E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

685

.3012g = 3.0 c/E 3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:37:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.50	0.00
2	1.01	17.80	85.96
3	1.50	92.70	80.80
4	2.00	238.70	61.16
5	2.51	393.20	39.29
6	3.00	544.40	27.77
7	3.50	673.70	19.19
8	4.00	763.90	11.81
9	4.50	820.30	6.88
10	5.00	856.10	4.18
11	5.50	877.00	2.38
12	6.00	891.40	1.62
13	6.50	903.10	1.30
14	7.00	912.60	1.04
15	7.50	921.40	0.96
16	8.00	929.50	0.87
17	8.50	937.20	0.82
18	9.00	943.70	0.69
19	9.50	950.00	0.66
20	10.00	955.50	0.58
21	10.50	960.50	0.52
22	11.00	965.70	0.54

USER INPUT BLANK VALUE
BLANK VALUE = 2.309923 micrograms carbon
BLANK FACTOR = 2.309923 / 10.99963 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(965.7 - 2.310128)(1)/(1) = +9.634E+02 g/L Carbon
(965.7 - 2.310128)(1)/(1)(12) = +8.028E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-NS, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1433 Date: 08/28/95 Time: 21:50:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.71 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	6.70	0.00
2	1.01	101.00	93.37
3	1.50	332.80	69.65
4	2.00	583.10	42.93
5	2.50	718.80	18.88
6	3.00	783.70	8.28
7	3.50	822.50	4.72
8	4.00	845.80	2.75
9	4.50	861.40	1.81
10	5.00	873.20	1.35
11	5.50	882.70	1.08
12	6.00	890.40	0.86
13	6.50	897.20	0.76
14	7.00	903.50	0.70
15	7.50	908.50	0.55
16	8.00	913.60	0.56
17	8.50	918.00	0.48
18	9.00	921.90	0.42
19	9.50	925.50	0.39
20	10.00	929.50	0.43
21	10.50	932.50	0.32
22	11.00	935.60	0.33

USER INPUT BLANK VALUE
BLANK VALUE = 29.80901 micrograms carbon
BLANK FACTOR = 29.80901 / 10.99963 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(935.6 - 29.80901)(1)/(1) = +9.058E+02 g/L Carbon
(935.6 - 29.80901)(1)/(1)(12) = +7.548E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

687

$.2797_8 = 3.246^3$

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2205

Analyst: KRM **Instrument:** TIC01 **Book #** 16W12B

Method: LA-342-100 Rev/Mod A-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	21.5	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.99E3	N/A	ug/g
95000104	BY-108 (R)	3	SAMPLE	S95T001419	0		TOC-02	SOLID	N/A	1.04E4		ug/g
95000104	BY-108 (R)	4	DUP	S95T001419	0		TOC-02	SOLID	1.04E4	1.26E4	N/A	ug/g
95000104	BY-108 (R)	5	SAMPLE	S95T001420	0		TOC-02	SOLID	N/A	2.09E4		ug/g
95000104	BY-108 (R)	6	DUP	S95T001420	0		TOC-02	SOLID	2.09E4	2.07E4	N/A	ug/g
95000104	BY-108 (R)	7	SAMPLE	S95T001427	0		TOC-02	LIQUID	N/A	2.71E3		ug/mL
95000104	BY-108 (R)	8	DUP	S95T001427	0		TOC-02	LIQUID	2.71E3	2.72E3	N/A	ug/mL

Final page for worklist # 2205

8-30-95
Analyst Signature **Date**

08/31/95
Analyst Signature **Date**

Reviewed RW Schroeder 9/15/95

Data Entry Comments: TIC data included in batch

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/30/95 Time: 17:19:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	2.00	100.00
3	1.51	2.60	23.08
4	2.00	3.20	18.75
5	2.50	3.50	8.57
6	3.00	3.80	7.89
7	3.50	4.00	5.00
8	4.00	4.20	4.76
9	4.50	4.40	4.55
10	5.00	4.60	4.35
11	5.50	4.80	4.17
12	6.00	5.00	4.00
13	6.50	5.20	3.85
14	7.00	5.40	3.70
15	7.50	5.50	1.82
16	8.00	5.80	5.17
17	8.50	5.90	1.69
18	9.00	6.10	3.28
19	9.50	6.30	3.17
20	10.00	6.50	3.08
21	10.50	6.60	1.52
22	11.00	6.80	2.94

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 689 **TO** 704.

BLANK VALUE = 6.8 micrograms carbon
BLANK FACTOR = 6.8 / 11.00171 = +6.2E-01 ug/min Carbon

Sample Run By: KR MONTEITH 8-30-95
00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 08/30/95 Time: 17:33:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.90	100.00
3	1.50	6.80	72.06
4	2.01	11.20	39.29
5	2.51	13.50	17.04
6	3.01	14.50	6.90
7	3.51	15.30	5.23
8	4.00	16.20	5.56
9	4.50	16.40	1.22
10	5.00	16.80	2.38
11	5.50	17.20	2.33
12	6.00	17.70	2.82
13	6.50	18.20	2.75
14	7.00	19.00	4.21
15	7.50	19.10	0.52
16	8.00	19.50	2.05
17	8.50	19.90	2.01
18	9.00	20.30	1.97
19	9.50	20.60	1.46
20	10.00	20.90	1.44
21	10.50	21.20	1.42
22	11.00	21.50	1.40

BLANK VALUE = 21.5 micrograms carbon
BLANK FACTOR = 21.5 / 10.99963 = +1.95E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/30/95 Time: 17:44:47

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	110.70	100.00
3	1.51	330.50	66.51
4	2.00	472.90	30.11
5	2.50	544.50	13.15
6	3.00	572.70	4.92
7	3.50	583.30	1.82
8	4.00	586.30	0.51
9	4.50	588.40	0.36
10	5.00	589.40	0.17
11	5.50	590.20	0.14
12	6.00	590.90	0.12
13	6.50	591.60	0.12
14	7.00	592.00	0.07
15	7.50	592.50	0.08
16	8.00	593.00	0.08
17	8.50	593.40	0.07
18	9.00	593.80	0.07
19	9.50	594.10	0.05
20	10.00	594.50	0.07
21	10.50	594.80	0.05
22	11.00	595.10	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(595.1 - 6.818789)(1)/(1000) = +5.883E-01 g/L Carbon
(595.1 - 6.818789)(1)/(1000)(12) = +4.902E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 08/30/95 Time: 17:57:03

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	63.20	100.00
3	1.50	357.50	82.32
4	2.00	718.60	50.25
5	2.50	852.20	15.68
6	3.00	889.30	4.17
7	3.50	900.90	1.29
8	4.00	904.90	0.44
9	4.50	907.40	0.28
10	5.00	909.90	0.27
11	5.50	911.20	0.14
12	6.00	912.20	0.11
13	6.50	913.40	0.13
14	7.00	914.20	0.09
15	7.50	915.00	0.09
16	8.00	915.60	0.07
17	8.50	916.30	0.08
18	9.00	916.90	0.07
19	9.50	917.50	0.07
20	10.00	917.90	0.04
21	10.50	918.50	0.07
22	11.00	919.10	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(919.1 - 21.45119)(1)/(300) = +2.992E+00 g/L Carbon
(919.1 - 21.45119)(1)/(300)(12) = +2.493E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:12:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	5.60	100.00
3	1.51	47.10	88.11
4	2.01	106.00	55.57
5	2.51	156.90	32.44
6	3.01	191.90	18.24
7	3.51	212.70	9.78
8	4.00	223.60	4.87
9	4.50	229.60	2.61
10	5.00	233.40	1.63
11	5.50	236.10	1.14
12	6.00	238.00	0.80
13	6.50	240.30	0.96
14	7.00	241.80	0.62
15	7.50	243.50	0.70
16	8.00	245.00	0.61
17	8.50	246.40	0.57
18	9.00	247.90	0.61
19	9.50	249.10	0.48
20	10.00	250.30	0.48
21	10.50	251.20	0.36
22	11.00	252.20	0.40

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(252.2 - 6.822043)(1)/(1) = +2.454E+02 g/L Carbon
(252.2 - 6.822043)(1)/(1)(12) = +2.045E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:24:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	6.40	0.00
2	1.01	96.50	93.37
3	1.51	192.50	49.87
4	2.00	240.50	19.96
5	2.50	268.20	10.33
6	3.00	285.30	5.99
7	3.50	298.50	4.42
8	4.01	308.40	3.21
9	4.50	317.00	2.71
10	5.00	323.90	2.13
11	5.50	329.90	1.82
12	6.00	334.70	1.43
13	6.50	339.70	1.47
14	7.00	344.30	1.34
15	7.50	349.00	1.35
16	8.00	353.00	1.13
17	8.50	356.00	0.84
18	9.00	358.90	0.81
19	9.50	361.20	0.64
20	10.00	363.30	0.58
21	10.50	365.20	0.52
22	11.00	367.10	0.52

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(367.1 - 21.44976)(1)/(1) = +3.457E+02 g/L Carbon
(367.1 - 21.44976)(1)/(1)(12) = +2.880E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

694

.0331 g = 1.04%

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:37:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.50	0.00
2	1.01	18.70	86.63
3	1.50	94.70	80.25
4	2.00	215.30	56.01
5	2.50	316.70	32.02
6	3.00	385.50	17.85
7	3.50	425.40	9.38
8	4.00	445.60	4.53
9	4.50	456.00	2.28
10	5.00	462.20	1.34
11	5.50	466.00	0.82
12	6.00	469.30	0.70
13	6.50	472.60	0.70
14	7.00	476.10	0.74
15	7.50	478.40	0.48
16	8.00	480.60	0.46
17	8.50	483.00	0.50
18	9.00	484.60	0.33
19	9.50	486.50	0.39
20	10.00	488.20	0.35
21	10.50	489.80	0.33
22	11.00	491.30	0.31

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(491.3 - 6.819243)(1)/(1) = +4.845E+02 g/L Carbon
(491.3 - 6.819243)(1)/(1)(12) = +4.037E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1419 Date: 08/30/95 Time: 20:50:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.90	0.00
2	1.01	43.00	95.58
3	1.50	160.30	73.18
4	2.00	284.30	43.62
5	2.50	374.20	24.02
6	3.00	437.10	14.39
7	3.50	481.80	9.28
8	4.00	517.70	6.93
9	4.50	545.30	5.06
10	5.00	567.40	3.89
11	5.50	585.80	3.14
12	6.00	601.10	2.55
13	6.50	614.20	2.13
14	7.00	625.70	1.84
15	7.50	636.10	1.63
16	8.00	644.80	1.35
17	8.50	653.00	1.26
18	9.00	660.00	1.06
19	9.50	666.00	0.90
20	10.00	672.00	0.89
21	10.50	677.30	0.78
22	11.00	682.20	0.72

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(682.2 - 21.44762)(1)/(1) = +6.608E+02 g/L Carbon
(682.2 - 21.44762)(1)/(1)(12) = +5.506E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

696

.0526g = 1.26%

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:08:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	3.80	100.00
3	1.51	46.30	91.79
4	2.00	128.70	64.02
5	2.50	225.10	42.83
6	3.00	299.50	24.84
7	3.50	338.70	11.57
8	4.00	358.30	5.47
9	4.50	368.60	2.79
10	5.00	374.60	1.60
11	5.50	379.00	1.16
12	6.00	382.70	0.97
13	6.50	386.20	0.91
14	7.00	388.40	0.57
15	7.50	391.20	0.72
16	8.00	392.90	0.43
17	8.50	395.00	0.53
18	9.00	396.80	0.45
19	9.50	398.70	0.48
20	10.00	400.20	0.37
21	10.50	401.30	0.27
22	11.00	402.80	0.37

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(402.8 - 6.819773)(1)/(1) = +3.960E+02 g/L Carbon
(402.8 - 6.819773)(1)/(1)(12) = +3.300E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:21:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.40	0.00
2	1.01	15.70	91.08
3	1.50	165.70	90.53
4	2.00	403.80	58.96
5	2.50	646.20	37.51
6	3.01	819.50	21.15
7	3.51	938.40	12.67
8	4.01	1026.60	8.59
9	4.50	1096.20	6.35
10	5.00	1151.40	4.79
11	5.50	1197.90	3.88
12	6.00	1236.70	3.14
13	6.50	1267.80	2.45
14	7.00	1293.50	1.99
15	7.50	1316.10	1.72
16	8.00	1335.10	1.42
17	8.50	1353.00	1.32
18	9.00	1367.30	1.05
19	9.50	1380.90	0.98
20	10.00	1391.70	0.78
21	10.50	1401.90	0.73
22	11.00	1410.60	0.62

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(1410.6 - 21.45119)(1)/(1) = +1.3891E+03 g/L Carbon
(1410.6 - 21.45119)(1)/(1)(12) = +1.1576E+02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

698

.0664 = 2.09E-4

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:35:26

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	3.70	0.00
2	1.01	10.40	64.42
3	1.51	52.40	80.15
4	2.00	120.40	56.48
5	2.50	171.90	29.96
6	3.00	201.20	14.56
7	3.50	216.10	6.89
8	4.00	224.70	3.83
9	4.50	228.90	1.83
10	5.00	232.90	1.72
11	5.50	235.60	1.15
12	6.00	238.30	1.13
13	6.50	240.50	0.91
14	7.00	242.80	0.95
15	7.50	244.80	0.82
16	8.00	246.30	0.61
17	8.50	247.90	0.65
18	9.00	249.60	0.68
19	9.50	251.00	0.56
20	10.00	252.30	0.52
21	10.50	253.60	0.51
22	11.00	254.70	0.43

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(254.7 - 6.819319)(1)/(1) = +2.479E+02 g/L Carbon
(254.7 - 6.819319)(1)/(1)(12) = +2.066E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1420 Date: 08/30/95 Time: 18:50:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.30	0.00
2	1.01	45.80	97.16
3	1.50	177.00	74.12
4	2.00	333.10	46.86
5	2.50	441.10	24.48
6	3.00	513.20	14.05
7	3.50	561.70	8.63
8	4.00	597.40	5.98
9	4.50	625.10	4.43
10	5.00	647.00	3.38
11	5.50	665.00	2.71
12	6.00	679.20	2.09
13	6.50	691.50	1.78
14	7.00	703.10	1.65
15	7.50	712.40	1.31
16	8.00	720.70	1.15
17	8.50	727.60	0.95
18	9.00	734.00	0.87
19	9.50	738.30	0.58
20	10.00	743.10	0.65
21	10.50	747.20	0.55
22	11.00	751.40	0.56

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(751.4 - 21.44548)(1)/(1) = +7.300E+02 g/L Carbon
(751.4 - 21.44548)(1)/(1)(12) = +6.083E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.0352g = 2.07%

700

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:07:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.70	0.00
2	1.01	27.40	90.15
3	1.50	178.60	84.66
4	2.00	439.40	59.35
5	2.51	658.60	33.28
6	3.01	804.50	18.14
7	3.51	963.50	16.50
8	4.00	1074.20	10.31
9	4.50	1131.70	5.08
10	5.00	1165.00	2.86
11	5.50	1185.70	1.75
12	6.00	1200.00	1.19
13	6.50	1212.40	1.02
14	7.00	1222.00	0.79
15	7.50	1229.80	0.63
16	8.00	1236.90	0.57
17	8.50	1242.80	0.47
18	9.00	1247.50	0.38
19	9.50	1252.10	0.37
20	10.00	1256.40	0.34
21	10.50	1259.90	0.28
22	11.00	1263.10	0.25

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(1263.1 - 6.820378)(1)/(1) = +1.2563E+03 g/L Carbon
(1263.1 - 6.820378)(1)/(1)(12) = +1.0469E+02 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:19:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.30	0.00
2	1.01	5.10	74.51
3	1.50	26.20	80.53
4	2.00	191.60	86.33
5	2.50	440.10	56.46
6	3.00	567.60	22.46
7	3.50	621.70	8.70
8	4.00	648.10	4.07
9	4.50	660.70	1.91
10	5.00	668.30	1.14
11	5.50	674.30	0.89
12	6.00	678.40	0.60
13	6.50	682.10	0.54
14	7.00	684.80	0.39
15	7.50	687.40	0.38
16	8.00	689.60	0.32
17	8.50	691.20	0.23
18	9.00	693.00	0.26
19	9.50	694.90	0.27
20	10.00	696.50	0.23
21	10.50	698.20	0.24
22	11.00	699.80	0.23

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(699.8 - 21.45119)(1)/(1) = +6.783E+02 g/L Carbon
(699.8 - 21.45119)(1)/(1)(12) = +5.653E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

702

.250mL = 2.7 l/e^3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:31:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .62 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	10.70	89.72
3	1.50	81.50	86.87
4	2.00	265.80	69.34
5	2.50	545.70	51.29
6	3.00	801.10	31.88
7	3.50	979.80	18.24
8	4.00	1076.30	8.97
9	4.50	1128.40	4.62
10	5.00	1160.80	2.79
11	5.50	1182.50	1.84
12	6.00	1199.00	1.38
13	6.50	1212.50	1.11
14	7.00	1224.20	0.96
15	7.50	1233.40	0.75
16	8.00	1241.70	0.67
17	8.50	1249.00	0.58
18	9.00	1254.90	0.47
19	9.50	1260.50	0.44
20	10.00	1265.10	0.36
21	10.50	1269.30	0.33
22	11.00	1272.90	0.28

USER INPUT BLANK VALUE
BLANK VALUE = 6.819773 micrograms carbon
BLANK FACTOR = 6.819773 / 10.99963 = +6.2E-01 ug/min Carbon

SAMPLE RESULTS:
(1272.9 - 6.819849)(1)/(1) = +1.2661E+03 g/L Carbon
(1272.9 - 6.819849)(1)/(1)(12) = +1.0551E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1427 Date: 08/30/95 Time: 21:43:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.95 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.40	0.00
2	1.01	36.80	88.04
3	1.51	204.50	82.00
4	2.00	441.60	53.69
5	2.50	564.60	21.79
6	3.00	617.60	8.58
7	3.50	642.90	3.94
8	4.00	655.30	1.89
9	4.50	663.30	1.21
10	5.00	669.50	0.93
11	5.50	674.40	0.73
12	6.00	677.40	0.44
13	6.50	680.80	0.50
14	7.00	683.20	0.35
15	7.50	686.00	0.41
16	8.00	688.60	0.38
17	8.50	691.30	0.39
18	9.00	693.10	0.26
19	9.50	695.50	0.35
20	10.00	697.50	0.29
21	10.50	699.00	0.21
22	11.00	701.00	0.29

USER INPUT BLANK VALUE
BLANK VALUE = 21.44929 micrograms carbon
BLANK FACTOR = 21.44929 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(701 - 21.44929)(1)/(1) = +6.796E+02 g/L Carbon
(701 - 21.44929)(1)/(1)(12) = +5.663E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

250 mL = 2.72E-3

704

LABCORE Data Entry Template for Worklist# 2217

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12B

Method: LA-342-100 Rev/Mod B-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	21.2	N/A	ug/g
		2	STD				TOC-02	SOLID	$3.00E^3$	$2.89E^3$	N/A	ug/g
95000104	BY-108 (R)	3	SAMPLE	S95T001421	0		TOC-02	SOLID	N/A	$5.67E^3$	40.0	ug/g
95000104	BY-108 (R)	4	DUP	S95T001421	0		TOC-02	SOLID	$5.67E^3$	$5.87E^3$	N/A	ug/g
95000104	BY-108 (R)	5	SPK	S95T001421	0		TOC-02	SOLID	100	122.4	N/A	ug/g
95000104	BY-108 (R)	6	SAMPLE	S95T001422	0		TOC-02	SOLID	N/A	$3.50E^3$	40.0	ug/g
95000104	BY-108 (R)	7	DUP	S95T001422	0		TOC-02	SOLID	$3.50E^3$	$3.37E^3$	N/A	ug/g

Final page for worklist # 2217

9.3.95
Analyst Signature **Date**

9-5-95
Analyst Signature **Date**

Reviewed RW Schroeder
9/7/95

Sample Sizes -
STD 1.0mL TIC std
0.300mL TOC std 16N12B

S95T001421 - 0.0401 g
S95T001421 dup - 0.0646g
S95T001421 spk - 0.0686g + .1mL 16N12B
S95T001422 - 0.0649 g
S95T001422 dup - 0.0705g

Data Entry Comments:

TIC results included with data. RWS 9/7/95

RWS 9/7/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 01:37:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.10	100.00
3	1.51	0.30	66.67
4	2.01	0.60	50.00
5	2.51	0.70	14.29
6	3.01	0.80	12.50
7	3.51	1.00	20.00
8	4.01	1.00	0.00
9	4.50	1.20	16.67
10	5.00	1.30	7.69
11	5.50	1.30	0.00
12	6.00	1.40	7.14
13	6.50	1.50	6.67
14	7.00	1.60	6.25
15	7.50	1.70	5.88
16	8.00	1.80	5.56
17	8.50	1.90	5.26
18	9.00	1.90	0.00
19	9.50	2.10	9.52
20	10.00	2.10	0.00
21	10.50	2.20	4.55
22	11.00	2.30	4.35

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 706 **TO** 719.

BLANK VALUE = 2.3 micrograms carbon
BLANK FACTOR = 2.3 / 11.00167 = +2.1E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000 9-2-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 02:26:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.90	100.00
3	1.50	6.30	85.71
4	2.00	11.10	43.24
5	2.50	13.70	18.98
6	3.00	14.80	7.43
7	3.50	15.80	6.33
8	4.00	16.20	2.47
9	4.50	16.90	4.14
10	5.00	17.30	2.31
11	5.50	17.70	2.26
12	6.00	18.10	2.21
13	6.50	18.30	1.09
14	7.00	18.60	1.61
15	7.50	19.10	2.62
16	8.00	19.50	2.05
17	8.50	19.90	2.01
18	9.00	20.20	1.49
19	9.50	20.40	0.98
20	10.00	20.70	1.45
21	10.50	20.90	0.96
22	11.00	21.20	1.42

BLANK VALUE = 21.2 micrograms carbon
BLANK FACTOR = 21.2 / 11.00067 = +1.93E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/02/95 Time: 04:06:30

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	21.80	100.00
3	1.51	189.30	88.48
4	2.01	380.60	50.26
5	2.50	501.60	24.12
6	3.00	563.10	10.92
7	3.50	589.40	4.46
8	4.00	598.70	1.55
9	4.50	602.50	0.63
10	5.00	604.10	0.26
11	5.50	605.00	0.15
12	6.00	605.80	0.13
13	6.50	606.40	0.10
14	7.00	606.90	0.08
15	7.50	607.40	0.08
16	8.00	607.80	0.07
17	8.50	608.20	0.07
18	9.00	608.60	0.07
19	9.50	608.80	0.03
20	10.00	609.20	0.07
21	10.50	609.40	0.03
22	11.00	609.70	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(609.7 - 2.309753)(1)/(1000) = +6.074E-01 g/L Carbon
(609.7 - 2.309753)(1)/(1000)(12) = +5.062E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/02/95 Time: 02:51:55

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	17.90	100.00
3	1.50	203.70	91.21
4	2.00	573.10	64.46
5	2.50	788.90	27.35
6	3.00	851.30	7.33
7	3.50	869.10	2.05
8	4.00	875.30	0.71
9	4.50	878.20	0.33
10	5.00	880.00	0.20
11	5.50	881.40	0.16
12	6.00	882.40	0.11
13	6.50	883.40	0.11
14	7.00	884.00	0.07
15	7.50	884.50	0.06
16	8.00	885.20	0.08
17	8.50	885.70	0.06
18	9.00	886.20	0.06
19	9.50	886.60	0.05
20	10.00	887.10	0.06
21	10.50	887.60	0.06
22	11.00	888.00	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(888 - 21.23289)(1)/(300) = +2.889E+00 g/L Carbon
(888 - 21.23289)(1)/(300)(12) = +2.408E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:21:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	4.00	100.00
3	1.50	39.00	89.74
4	2.00	102.90	62.10
5	2.50	158.40	35.04
6	3.00	191.90	17.46
7	3.50	208.40	7.92
8	4.00	215.90	3.47
9	4.50	219.50	1.64
10	5.00	221.60	0.95
11	5.50	222.80	0.54
12	6.00	223.80	0.45
13	6.50	224.70	0.40
14	7.00	225.50	0.35
15	7.50	226.20	0.31
16	8.00	226.80	0.26
17	8.50	227.30	0.22
18	9.00	227.90	0.26
19	9.50	228.40	0.22
20	10.00	228.80	0.17
21	10.50	229.20	0.17
22	11.00	229.50	0.13

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(229.5 - 2.309965)(1)/(1) = +2.272E+02 g/L Carbon
(229.5 - 2.309965)(1)/(1)(12) = +1.893E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:33:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	12.20	100.00
3	1.50	72.30	83.13
4	2.00	135.10	46.48
5	2.50	173.60	22.18
6	3.01	194.50	10.75
7	3.51	206.20	5.67
8	4.01	214.70	3.96
9	4.50	221.10	2.89
10	5.00	225.90	2.12
11	5.50	229.50	1.57
12	6.00	232.70	1.38
13	6.50	235.40	1.15
14	7.00	237.90	1.05
15	7.50	240.20	0.96
16	8.00	241.70	0.62
17	8.50	243.30	0.66
18	9.00	244.60	0.53
19	9.50	245.80	0.49
20	10.00	246.90	0.45
21	10.50	247.90	0.40
22	11.00	248.70	0.32

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(248.7 - 21.23135)(1)/(1) = +2.275E+02 g/L Carbon
(248.7 - 21.23135)(1)/(1)(12) = +1.896E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

711

.0401 g = 5.67 E3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:45:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.50	0.00
2	1.00	12.30	95.93
3	1.50	75.90	83.79
4	2.00	185.40	59.06
5	2.50	272.40	31.94
6	3.00	322.20	15.46
7	3.50	344.30	6.42
8	4.00	355.00	3.01
9	4.50	360.20	1.44
10	5.00	363.30	0.85
11	5.50	365.60	0.63
12	6.00	367.30	0.46
13	6.50	368.60	0.35
14	7.00	369.80	0.32
15	7.50	371.00	0.32
16	8.00	372.00	0.27
17	8.50	372.90	0.24
18	9.00	373.70	0.21
19	9.50	374.50	0.21
20	10.00	375.20	0.19
21	10.50	375.80	0.16
22	11.00	376.50	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(376.5 - 2.309929)(1)/(1) = +3.742E+02 g/L Carbon
(376.5 - 2.309929)(1)/(1)(12) = +3.118E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 Date: 09/02/95 Time: 04:58:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.50	0.00
2	1.00	25.50	94.12
3	1.50	116.80	78.17
4	2.00	212.70	45.09
5	2.50	271.10	21.54
6	3.00	303.20	10.59
7	3.50	323.10	6.16
8	4.00	336.60	4.01
9	4.50	347.70	3.19
10	5.00	356.20	2.39
11	5.50	363.10	1.90
12	6.00	368.80	1.55
13	6.50	374.50	1.52
14	7.00	378.90	1.16
15	7.50	382.90	1.04
16	8.00	386.50	0.93
17	8.50	389.50	0.77
18	9.00	392.20	0.69
19	9.50	394.40	0.56
20	10.00	396.90	0.63
21	10.50	399.00	0.53
22	11.00	400.70	0.42

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(400.7 - 21.23442)(1)/(1) = +3.795E+02 g/L Carbon
(400.7 - 21.23442)(1)/(1)(12) = +3.162E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

713

.0646g = $5.87E^{3}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 + SPK Date: 09/02/95 Time: 05:10:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.40	0.00
2	1.01	17.40	91.95
3	1.51	169.30	89.72
4	2.01	384.60	55.98
5	2.51	544.20	29.33
6	3.00	640.20	15.00
7	3.50	693.40	7.67
8	4.00	720.40	3.75
9	4.50	732.70	1.68
10	5.00	739.60	0.93
11	5.50	743.80	0.56
12	6.00	747.10	0.44
13	6.50	749.50	0.32
14	7.00	752.00	0.33
15	7.50	753.90	0.25
16	8.00	755.70	0.24
17	8.50	757.20	0.20
18	9.00	758.60	0.18
19	9.50	759.90	0.17
20	10.00	761.10	0.16
21	10.50	762.10	0.13
22	11.00	763.20	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(763.2 - 2.310141)(1)/(1) = +7.609E+02 g/L Carbon
(763.2 - 2.310141)(1)/(1)(12) = +6.341E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1421 + SPK Date: 09/02/95 Time: 05:25:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.80	0.00
2	1.01	11.20	92.86
3	1.51	105.70	89.40
4	2.00	306.10	65.47
5	2.50	500.60	38.85
6	3.00	623.90	19.76
7	3.50	695.10	10.24
8	4.01	740.20	6.09
9	4.50	770.20	3.90
10	5.00	791.40	2.68
11	5.50	809.00	2.18
12	6.00	822.60	1.65
13	6.50	834.10	1.38
14	7.00	844.00	1.17
15	7.50	852.40	0.99
16	8.00	859.70	0.85
17	8.50	866.10	0.74
18	9.00	871.30	0.60
19	9.50	876.30	0.57
20	10.00	880.80	0.51
21	10.50	884.70	0.44
22	11.00	888.10	0.38

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(888.1 - 21.23289)(1)/(1) = +8.669E+02 g/L Carbon
(888.1 - 21.23289)(1)/(1)(12) = +7.224E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

715

.0686g + .1mL 16N12B = 122.4% Rec

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 05:38:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.10	0.00
2	1.01	12.30	82.93
3	1.50	106.60	88.46
4	2.00	249.90	57.34
5	2.50	347.30	28.04
6	3.00	400.40	13.26
7	3.50	424.60	5.70
8	4.00	435.70	2.55
9	4.50	441.80	1.38
10	5.00	445.60	0.85
11	5.50	448.80	0.71
12	6.00	451.30	0.55
13	6.50	453.80	0.55
14	7.00	455.80	0.44
15	7.50	457.40	0.35
16	8.00	459.10	0.37
17	8.50	460.40	0.28
18	9.00	461.70	0.28
19	9.50	463.00	0.28
20	10.00	464.00	0.22
21	10.50	465.00	0.22
22	11.00	465.90	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(465.9 - 2.309763)(1)/(1) = +4.636E+02 g/L Carbon
(465.9 - 2.309763)(1)/(1)(12) = +3.863E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 05:50:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.00	8.00	91.25
3	1.50	49.20	83.74
4	2.00	112.00	56.07
5	2.50	160.40	30.17
6	3.00	188.40	14.86
7	3.50	203.30	7.33
8	4.00	212.30	4.24
9	4.50	219.30	3.19
10	5.00	224.00	2.10
11	5.50	228.20	1.84
12	6.00	230.80	1.13
13	6.50	233.70	1.24
14	7.00	236.00	0.97
15	7.50	238.10	0.88
16	8.00	240.00	0.79
17	8.50	241.70	0.70
18	9.00	243.10	0.58
19	9.50	244.50	0.57
20	10.00	245.80	0.53
21	10.50	247.20	0.57
22	11.00	248.40	0.48

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(248.4 - 21.23129)(1)/(1) = +2.272E+02 g/L Carbon
(248.4 - 21.23129)(1)/(1)(12) = +1.893E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

.0649 = 3.50 E 3

717

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 06:02:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .21 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.10	0.00
2	1.01	8.90	87.64
3	1.50	93.80	90.51
4	2.00	242.30	61.29
5	2.51	347.50	30.27
6	3.01	404.00	13.99
7	3.51	431.70	6.42
8	4.00	443.10	2.57
9	4.50	449.20	1.36
10	5.00	453.40	0.93
11	5.50	456.90	0.77
12	6.00	459.70	0.61
13	6.50	462.00	0.50
14	7.00	464.20	0.47
15	7.50	466.10	0.41
16	8.00	467.80	0.36
17	8.50	469.40	0.34
18	9.00	470.90	0.32
19	9.50	472.00	0.23
20	10.00	473.20	0.25
21	10.50	474.30	0.23
22	11.00	475.30	0.21

USER INPUT BLANK VALUE
BLANK VALUE = 2.310141 micrograms carbon
BLANK FACTOR = 2.310141 / 11.00067 = +2.1E-01 ug/min Carbon

SAMPLE RESULTS:
(475.3 - 2.310314)(1)/(1) = +4.730E+02 g/L Carbon
(475.3 - 2.310314)(1)/(1)(12) = +3.942E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1422 Date: 09/02/95 Time: 06:15:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.93 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	13.70	94.16
3	1.51	69.70	80.34
4	2.00	141.40	50.71
5	2.50	186.40	24.14
6	3.00	208.20	10.47
7	3.50	219.70	5.23
8	4.00	227.60	3.47
9	4.50	232.80	2.23
10	5.00	237.00	1.77
11	5.50	240.90	1.62
12	6.00	243.40	1.03
13	6.50	245.80	0.98
14	7.00	247.70	0.77
15	7.50	249.70	0.80
16	8.00	251.40	0.68
17	8.50	252.90	0.59
18	9.00	254.40	0.59
19	9.50	255.70	0.51
20	10.00	256.90	0.47
21	10.50	257.90	0.39
22	11.00	259.10	0.46

USER INPUT BLANK VALUE
BLANK VALUE = 21.23129 micrograms carbon
BLANK FACTOR = 21.23129 / 11.00067 = +1.9E+00 ug/min Carbon

SAMPLE RESULTS:
(259.1 - 21.22617)(1)/(1) = +2.379E+02 g/L Carbon
(259.1 - 21.22617)(1)/(1)(12) = +1.982E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

719

.0705 g = 3.37 F3

LABCORE Data Entry Template for Worklist# 2221

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12B

Method: LA-342-100 Rev/Mod B-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	22.5	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.93E3	N/A	ug/g
95000104	BY-108 (R)	3	SAMPLE	S95T001396	0		TOC-02	SOLID	N/A	9.06E3	40.0	ug/g
95000104	BY-108 (R)	4	DUP	S95T001396	0		TOC-02	SOLID	9.06E3	9.76E3	N/A	ug/g
95000104	BY-108 (R)	5	SPK	S95T001396	0		TOC-02	SOLID	100	100	N/A	ug/g
95000104	BY-108 (R)	6	SAMPLE	S95T001399	0		TOC-02	SOLID	N/A	5.50E3	40.0	ug/g
95000104	BY-108 (R)	7	DUP	S95T001399	0		TOC-02	SOLID	5.50E3	6.03E3	N/A	ug/g
95000104	BY-108 (R)	8	SAMPLE	S95T001404	0		TOC-02	SOLID	N/A	3.60E3	40.0	ug/g
95000104	BY-108 (R)	9	DUP	S95T001404	0		TOC-02	SOLID	3.60E3	3.62E3	N/A	ug/g

Final page for worklist # 2221

9-3-95
Analyst Signature **Date**

9-7-95
Analyst Signature **Date**

Reviewed RW Schroeder
9/7/95

Sample Sizes
STD 1.0 mL TIC std
0.300 mL TOC std 16N12B

S95T001396 - 0.0625g
S95T001396 dup - 0.0582g
S95T001396 spk - 0.0551 + 0.100mL 16N12B
S95T001399 - 0.0831g
S95T001399 dup - 0.0770g
S95T001404 - 0.0771 g

Data Entry Comments: S95T001404 - 0.0759g

TIC data included. RWS 9/7/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 23:33:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.40	75.00
3	1.51	0.70	42.86
4	2.01	1.20	41.67
5	2.51	1.30	7.69
6	3.00	1.60	18.75
7	3.50	1.90	15.79
8	4.00	2.10	9.52
9	4.50	2.40	12.50
10	5.00	2.40	0.00
11	5.50	2.60	7.69
12	6.00	3.10	16.13
13	6.50	3.10	0.00
14	7.00	3.30	6.06
15	7.50	3.60	8.33
16	8.00	3.70	2.70
17	8.50	3.90	5.13
18	9.00	4.20	7.14
19	9.50	4.40	4.55
20	10.00	4.60	4.35
21	10.50	4.90	6.12
22	11.00	5.10	3.92

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 721 TO 738.

BLANK VALUE = 5.1 micrograms carbon
BLANK FACTOR = 5.1 / 11.00073 = +4.6E-01 ug/min Carbon

Sample Run By: 9-3-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 09/02/95 Time: 23:49:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.01	2.80	92.86
3	1.50	7.80	64.10
4	2.00	10.40	25.00
5	2.50	13.30	21.80
6	3.01	14.80	10.14
7	3.51	15.60	5.13
8	4.00	16.00	2.50
9	4.50	16.80	4.76
10	5.00	17.40	3.45
11	5.50	18.10	3.87
12	6.00	19.10	5.24
13	6.50	19.10	0.00
14	7.00	19.40	1.55
15	7.50	20.00	3.00
16	8.00	20.30	1.48
17	8.50	20.70	1.93
18	9.00	21.10	1.90
19	9.50	21.40	1.40
20	10.00	21.90	2.28
21	10.50	22.10	0.90
22	11.00	22.50	1.78

BLANK VALUE = 22.5 micrograms carbon
BLANK FACTOR = 22.5 / 10.99963 = +2.05E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/03/95 Time: 01:12:20

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	106.60	100.00
3	1.51	237.00	55.02
4	2.00	404.20	41.37
5	2.50	534.80	24.42
6	3.00	567.30	5.73
7	3.50	588.60	3.62
8	4.00	593.10	0.76
9	4.50	595.90	0.47
10	5.00	597.50	0.27
11	5.50	598.80	0.22
12	6.00	599.70	0.15
13	6.50	600.40	0.12
14	7.00	600.90	0.08
15	7.50	601.50	0.10
16	8.00	601.80	0.05
17	8.50	602.00	0.03
18	9.00	602.90	0.15
19	9.50	602.90	0.00
20	10.00	603.30	0.07
21	10.50	603.40	0.02
22	11.00	603.70	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(603.7 - 5.059463)(1)/(1000) = +5.986E-01 g/L Carbon
(603.7 - 5.059463)(1)/(1000)(12) = +4.989E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 09/03/95 Time: 01:24:21

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	22.60	98.67
3	1.50	188.50	88.01
4	2.00	509.00	62.97
5	2.50	777.10	34.50
6	3.00	855.60	9.17
7	3.50	880.60	2.84
8	4.00	887.60	0.79
9	4.50	891.70	0.46
10	5.00	893.30	0.18
11	5.50	894.70	0.16
12	6.00	895.70	0.11
13	6.50	897.10	0.16
14	7.00	897.10	0.00
15	7.50	898.20	0.12
16	8.00	899.00	0.09
17	8.50	899.30	0.03
18	9.00	900.10	0.09
19	9.50	900.60	0.06
20	10.00	901.10	0.06
21	10.50	901.80	0.08
22	11.00	901.90	0.01

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(901.9 - 22.54966)(1)/(300) = +2.931E+00 g/L Carbon
(901.9 - 22.54966)(1)/(300)(12) = +2.443E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 01:36:28

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	5.00	86.00
3	1.51	27.90	82.08
4	2.01	73.30	61.94
5	2.51	117.00	37.35
6	3.01	149.60	21.79
7	3.51	174.40	14.22
8	4.01	193.80	10.01
9	4.50	198.70	2.47
10	5.00	203.00	2.12
11	5.50	206.40	1.65
12	6.00	208.20	0.86
13	6.50	211.10	1.37
14	7.00	212.90	0.85
15	7.50	214.50	0.75
16	8.00	216.30	0.83
17	8.50	217.30	0.46
18	9.00	218.80	0.69
19	9.50	219.80	0.45
20	10.00	220.90	0.50
21	10.50	222.10	0.54
22	11.00	222.80	0.31

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(222.8 - 5.060688)(1)/(1) = +2.177E+02 g/L Carbon
(222.8 - 5.060688)(1)/(1)(12) = +1.814E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 01:48:27

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.70	0.00
2	1.01	88.30	98.07
3	1.50	310.30	71.54
4	2.00	430.90	27.99
5	2.50	486.70	11.46
6	3.00	520.30	6.46
7	3.50	533.50	2.47
8	4.00	543.60	1.86
9	4.50	550.50	1.25
10	5.00	557.50	1.26
11	5.50	561.00	0.62
12	6.00	565.30	0.76
13	6.50	569.80	0.79
14	7.00	572.70	0.51
15	7.50	574.90	0.38
16	8.00	577.50	0.45
17	8.50	581.00	0.60
18	9.00	582.40	0.24
19	9.50	584.10	0.29
20	10.00	587.10	0.51
21	10.50	587.60	0.09
22	11.00	588.80	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(588.8 - 22.54762)(1)/(1) = +5.663E+02 g/L Carbon
(588.8 - 22.54762)(1)/(1)(12) = +4.719E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

726

.0625 g = 9.06 E^{3}

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 02:00:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.30	0.00
2	1.00	7.60	69.74
3	1.50	39.10	80.56
4	2.00	94.30	58.54
5	2.50	148.50	36.50
6	3.00	186.20	20.25
7	3.50	207.70	10.35
8	4.00	218.80	5.07
9	4.50	225.20	2.84
10	5.00	229.30	1.79
11	5.50	231.90	1.12
12	6.00	234.70	1.19
13	6.50	236.60	0.80
14	7.00	238.40	0.76
15	7.50	240.10	0.71
16	8.00	241.90	0.74
17	8.50	243.20	0.53
18	9.00	244.60	0.57
19	9.50	245.50	0.37
20	10.00	246.70	0.49
21	10.50	247.80	0.44
22	11.00	248.50	0.28

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(248.5 - 5.059003)(1)/(1) = +2.434E+02 g/L Carbon
(248.5 - 5.059003)(1)/(1)(12) = +2.029E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 Date: 09/03/95 Time: 02:12:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	96.50	99.07
3	1.51	279.00	65.41
4	2.00	401.70	30.55
5	2.50	475.50	15.52
6	3.00	514.40	7.56
7	3.50	533.00	3.49
8	4.00	545.70	2.33
9	4.50	554.40	1.57
10	5.00	560.70	1.12
11	5.50	565.70	0.88
12	6.00	569.50	0.67
13	6.50	573.10	0.63
14	7.00	576.10	0.52
15	7.50	578.70	0.45
16	8.00	581.00	0.40
17	8.50	582.90	0.33
18	9.00	584.80	0.32
19	9.50	586.50	0.29
20	10.00	587.90	0.24
21	10.50	589.30	0.24
22	11.00	590.40	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(590.4 - 22.54762)(1)/(1) = +5.679E+02 g/L Carbon
(590.4 - 22.54762)(1)/(1)(12) = +4.732E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

728

.0582 g = 9.76e3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 + SPK Date: 09/03/95 Time: 02:24:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.90	0.00
2	1.01	32.20	94.10
3	1.51	332.90	90.33
4	2.00	650.80	48.85
5	2.50	863.60	24.64
6	3.01	976.80	11.59
7	3.51	1034.50	5.58
8	4.00	1061.40	2.53
9	4.50	1072.70	1.05
10	5.00	1078.50	0.54
11	5.50	1082.10	0.33
12	6.00	1085.00	0.27
13	6.50	1087.30	0.21
14	7.00	1089.40	0.19
15	7.50	1091.50	0.19
16	8.00	1092.90	0.13
17	8.50	1094.40	0.14
18	9.00	1095.70	0.12
19	9.50	1097.00	0.12
20	10.00	1098.20	0.11
21	10.50	1099.20	0.09
22	11.00	1100.30	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(1100.3 - 5.060309)(1)/(1) = +1.0952E+03 g/L Carbon
(1100.3 - 5.060309)(1)/(1)(12) = +9.1270E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-165, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1396 + SPK Date: 09/03/95 Time: 02:38:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.40	0.00
2	1.01	114.30	98.78
3	1.50	354.30	67.74
4	2.00	574.30	38.31
5	2.50	695.60	17.44
6	3.00	751.00	7.38
7	3.50	773.20	2.87
8	4.00	785.00	1.50
9	4.50	791.40	0.81
10	5.00	796.50	0.64
11	5.50	799.90	0.43
12	6.00	803.10	0.40
13	6.50	805.60	0.31
14	7.00	807.80	0.27
15	7.50	809.90	0.26
16	8.00	811.40	0.18
17	8.50	813.00	0.20
18	9.00	814.40	0.17
19	9.50	815.70	0.16
20	10.00	816.70	0.12
21	10.50	817.80	0.13
22	11.00	818.80	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(818.8 - 22.54934)(1)/(1) = +7.963E+02 g/L Carbon
(818.8 - 22.54934)(1)/(1)(12) = +6.635E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

730

.0551 + .100mL 16N12B = 100.0

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 02:50:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.70	0.00
2	1.01	14.90	95.30
3	1.50	257.10	94.20
4	2.00	713.20	63.95
5	2.50	1039.80	31.41
6	3.00	1195.10	12.99
7	3.50	1262.50	5.34
8	4.00	1292.40	2.31
9	4.50	1303.90	0.88
10	5.00	1310.50	0.50
11	5.50	1314.90	0.33
12	6.00	1318.50	0.27
13	6.50	1321.60	0.23
14	7.00	1324.00	0.18
15	7.50	1326.50	0.19
16	8.00	1328.20	0.13
17	8.50	1329.90	0.13
18	9.00	1331.60	0.13
19	9.50	1333.10	0.11
20	10.00	1334.40	0.10
21	10.50	1335.70	0.10
22	11.00	1336.70	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(1336.7 - 5.059839)(1)/(1) = +1.3316E+03 g/L Carbon
(1336.7 - 5.059839)(1)/(1)(12) = +1.1097E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:01:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.10	0.00
2	1.01	120.00	97.42
3	1.51	292.90	59.03
4	2.01	387.80	24.47
5	2.51	433.40	10.52
6	3.00	449.80	3.65
7	3.50	457.10	1.60
8	4.00	461.10	0.87
9	4.50	464.30	0.69
10	5.00	466.70	0.51
11	5.50	468.50	0.38
12	6.00	470.20	0.36
13	6.50	471.70	0.32
14	7.00	472.80	0.23
15	7.50	474.00	0.25
16	8.00	474.80	0.17
17	8.50	475.90	0.23
18	9.00	476.70	0.17
19	9.50	477.50	0.17
20	10.00	478.30	0.17
21	10.50	479.10	0.17
22	11.00	479.90	0.17

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(479.9 - 22.54966)(1)/(1) = +4.574E+02 g/L Carbon
(479.9 - 22.54966)(1)/(1)(12) = +3.811E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

732

.0831g = ~~9.11E3~~ 5.50E3
9-3-95

WHC-SD-WM-DP-165, REV 1.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:15:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	14.50	100.00
3	1.50	231.70	93.74
4	2.00	537.40	56.89
5	2.50	714.10	24.74
6	3.00	812.20	12.08
7	3.50	864.80	6.08
8	4.00	888.50	2.67
9	4.50	898.90	1.16
10	5.00	904.30	0.60
11	5.50	908.40	0.45
12	6.00	911.50	0.34
13	6.50	914.00	0.27
14	7.00	916.40	0.26
15	7.50	918.40	0.22
16	8.00	920.20	0.20
17	8.50	921.70	0.16
18	9.00	923.10	0.15
19	9.50	924.30	0.13
20	10.00	925.60	0.14
21	10.50	926.70	0.12
22	11.00	927.50	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(927.5 - 5.05946)(1)/(1) = +9.224E+02 g/L Carbon
(927.5 - 5.05946)(1)/(1)(12) = +7.687E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1399 Date: 09/03/95 Time: 04:31:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	87.20	99.20
3	1.50	262.30	66.76
4	2.00	374.20	29.90
5	2.50	430.70	13.12
6	3.00	453.20	4.96
7	3.50	461.70	1.84
8	4.00	466.40	1.01
9	4.50	469.80	0.72
10	5.00	472.30	0.53
11	5.50	474.40	0.44
12	6.00	476.20	0.38
13	6.50	477.70	0.31
14	7.00	479.00	0.27
15	7.50	480.20	0.25
16	8.00	481.30	0.23
17	8.50	482.30	0.21
18	9.00	483.20	0.19
19	9.50	484.20	0.21
20	10.00	485.30	0.23
21	10.50	486.00	0.14
22	11.00	486.80	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(486.8 - 22.55138)(1)/(1) = +4.642E+02 g/L Carbon
(486.8 - 22.55138)(1)/(1)(12) = +3.869E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

734

.0770g = 6.03E^{3}

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 04:43:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	29.90	100.00
3	1.50	288.40	89.63
4	2.00	572.20	49.60
5	2.50	749.40	23.65
6	3.00	843.10	11.11
7	3.50	894.90	5.79
8	4.00	917.70	2.48
9	4.50	927.40	1.05
10	5.00	932.80	0.58
11	5.50	936.70	0.42
12	6.00	939.50	0.30
13	6.50	942.10	0.28
14	7.00	944.20	0.22
15	7.50	946.30	0.22
16	8.00	947.90	0.17
17	8.50	949.50	0.17
18	9.00	950.90	0.15
19	9.50	952.30	0.15
20	10.00	953.30	0.10
21	10.50	954.40	0.12
22	11.00	955.50	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(955.5 - 5.05993)(1)/(1) = +9.504E+02 g/L Carbon
(955.5 - 5.05993)(1)/(1)(12) = +7.920E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 04:54:57

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	57.50	98.26
3	1.51	165.60	65.28
4	2.00	234.90	29.50
5	2.51	261.60	10.21
6	3.00	277.20	5.63
7	3.50	282.80	1.98
8	4.00	285.70	1.02
9	4.50	288.00	0.80
10	5.00	289.60	0.55
11	5.50	291.10	0.52
12	6.00	292.40	0.44
13	6.50	293.40	0.34
14	7.00	294.40	0.34
15	7.50	295.40	0.34
16	8.00	296.00	0.20
17	8.50	296.80	0.27
18	9.00	297.60	0.27
19	9.50	298.10	0.17
20	10.00	298.60	0.17
21	10.50	299.40	0.27
22	11.00	300.20	0.27

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(300.2 - 22.55138)(1)/(1) = +2.776E+02 g/L Carbon
(300.2 - 22.55138)(1)/(1)(12) = +2.314E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

.0771/g = 3.60E3

736

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 05:06:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .46 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	19.20	97.40
3	1.51	253.70	92.43
4	2.00	526.80	51.84
5	2.50	712.20	26.03
6	3.00	826.60	13.84
7	3.50	898.80	8.03
8	4.00	939.30	4.31
9	4.50	959.40	2.10
10	5.00	969.20	1.01
11	5.50	974.80	0.57
12	6.00	978.40	0.37
13	6.50	981.30	0.30
14	7.00	983.90	0.26
15	7.50	985.90	0.20
16	8.00	987.80	0.19
17	8.50	989.60	0.18
18	9.00	991.40	0.18
19	9.50	992.90	0.15
20	10.00	994.30	0.14
21	10.50	995.60	0.13
22	11.00	996.80	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 5.059832 micrograms carbon
BLANK FACTOR = 5.059832 / 10.99963 = +4.6E-01 ug/min Carbon

SAMPLE RESULTS:
(996.8 - 5.059467)(1)/(1) = +9.917E+02 g/L Carbon
(996.8 - 5.059467)(1)/(1)(12) = +8.265E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1404 Date: 09/03/95 Time: 05:19:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.05 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.10	0.00
2	1.01	66.80	96.86
3	1.51	163.90	59.24
4	2.00	227.10	27.83
5	2.50	258.20	12.04
6	3.00	270.60	4.58
7	3.50	276.50	2.13
8	4.00	280.20	1.32
9	4.50	282.80	0.92
10	5.00	284.90	0.74
11	5.50	286.50	0.56
12	6.00	287.90	0.49
13	6.50	289.30	0.48
14	7.00	290.50	0.41
15	7.50	291.40	0.31
16	8.00	292.30	0.31
17	8.50	293.30	0.34
18	9.00	294.20	0.31
19	9.50	295.10	0.30
20	10.00	295.80	0.24
21	10.50	296.40	0.20
22	11.00	297.10	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 22.54925 micrograms carbon
BLANK FACTOR = 22.54925 / 10.99963 = +2.0E+00 ug/min Carbon

SAMPLE RESULTS:
(297.1 - 22.55138)(1)/(1) = +2.745E+02 g/L Carbon
(297.1 - 22.55138)(1)/(1)(12) = +2.288E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

0.0759 g = $3.62E^{3}$ 738

worklistrpt Version 2.1 05/15/95
10/14/95 14:33
WHC-SD-WM-DP-145, REV 1
Page: 1

LABCORE Data Entry Template for Worklist# 2908

Analyst: DPB **Instrument:** TOC02 **Book #** 16N12-B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 *PRIORITY*

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			TOC-02	SOLID	1	25.8	N/A	ug/g
		2 STD			TOC-02	SOLID	3.00E+3	2.72E3	N/A	ug/g
95000118	BY-108 (R)	3 SAMPLE	S95T001976	0	TOC-02	SOLID	N/A	1.72E4	40.0	ug/g
95000118	BY-108 (R)	4 DUP	S95T001976	0	TOC-02	SOLID	1.72E4	1.34E4	N/A	ug/g
95000118	BY-108 (R)	5 SPK	S95T001976	0	TOC-02	SOLID	100	~~67~~ 68 JWB 10/17/95	N/A	ug/g
95000118	BY-108 (R)	6 SAMPLE	S95T001977	0	TOC-02	SOLID	N/A	1.36E4	40.0	ug/g
95000118	BY-108 (R)	7 DUP	S95T001977	0	TOC-02	SOLID	1.36E4	1.32E4	N/A	ug/g

86.8% RWS 10/19/95

Final page for worklist # 2908

Daniel P. Bromley 10/15/95
Analyst Signature Date

Gary Hammett 10-16-95
Analyst Signature Date

JWB 10/17/95

STD 0.200mL 16N12-B
S95T001976 ~~0.0589g~~ DPB 10/15/95 0.0493g
S95T001976 DUP 0.0497g
S95T001976 + SPK 0.0132g
S95T001977 SAM 0.0540g
S95T001977 DUP 0.0519g

Data Entry Comments: Spike: .1mL 16N12-B + .5mL 17N12-A + sample
A triplicate of Sample S95T001976 was run to show supporting data.
RWS 10/19/95 The triplicate value is 1.396 E+4 ug/g, which closely resembles the duplicate value. RWS 10/19/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 16N12B Date: 10/19/95 Time: 11:11:17

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.88 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.70	0.00
2	1.01	6.60	74.24
3	1.50	31.50	79.05
4	2.00	100.50	68.66
5	2.51	224.90	55.31
6	3.01	403.70	44.29
7	3.51	514.70	21.57
8	4.00	558.20	7.79
9	4.50	571.70	2.36
10	5.00	576.90	0.90
11	5.50	579.80	0.50
12	6.00	582.00	0.38
13	6.50	583.70	0.29
14	7.00	585.20	0.26
15	7.50	586.50	0.22
16	8.00	587.40	0.15
17	8.50	588.10	0.12
18	9.00	588.90	0.14
19	9.50	589.60	0.12
20	10.00	590.10	0.08
21	10.50	590.70	0.10
22	11.00	591.20	0.08

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 740 TO 750.

USER INPUT BLANK VALUE
BLANK VALUE = 53.66541 micrograms carbon
BLANK FACTOR = 53.66541 / 10.99701 = +4.9E+00 ug/min Carbon

SAMPLE RESULTS:
(591.2 - 53.68328)(1)/(200) = +2.688E+00 g/L Carbon
(591.2 - 53.68328)(1)/(200)(12) = +2.240E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 10-19-95 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE Date: 10/19/95 Time: 08:43:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.80	0.00
2	1.01	8.70	90.80
3	1.50	21.10	58.77
4	2.00	31.60	33.23
5	2.50	38.60	18.13
6	3.00	42.50	9.18
7	3.50	44.20	3.85
8	4.00	45.50	2.86
9	4.50	46.70	2.57
10	5.00	47.70	2.10
11	5.50	48.60	1.85
12	6.00	49.50	1.82
13	6.50	50.10	1.20
14	7.00	50.60	0.99
15	7.50	51.30	1.36
16	8.00	51.70	0.77
17	8.50	52.10	0.77
18	9.00	52.60	0.95
19	9.50	52.80	0.38
20	10.00	53.10	0.56
21	10.50	53.40	0.56
22	11.00	53.70	0.56

BLANK VALUE = 53.7 micrograms carbon
BLANK FACTOR = 53.7 / 10.99783 = +4.88E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: TOCBLK Date: 10/15/95 Time: 14:32:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = TOCBLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.00	0.00
3	1.51	0.60	100.00
4	2.00	3.10	80.65
5	2.50	7.30	57.53
6	3.00	12.00	39.17
7	3.50	13.50	11.11
8	4.00	14.60	7.53
9	4.50	16.60	12.05
10	5.00	16.60	0.00
11	5.50	16.60	0.00
12	6.00	16.60	0.00
13	6.50	16.90	1.78
14	7.00	17.30	2.31
15	7.50	17.40	0.57
16	8.00	17.60	1.14
17	8.50	17.80	1.12
18	9.00	18.00	1.11
19	9.50	18.20	1.10
20	10.00	18.30	0.55
21	10.50	18.50	1.08
22	11.00	18.60	0.54

BLANK VALUE = 18.6 micrograms carbon
BLANK FACTOR = 18.6 / 10.99786 = +1.69E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

.2 mL
16N12-B

WHC-SD-WM-DP-145, REV.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: TOCSTD Date: 10/15/95 Time: 13:56:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.10	0.00
2	1.01	0.90	88.89
3	1.51	2.10	57.14
4	2.00	57.00	96.32
5	2.50	291.80	80.47
6	3.01	489.80	40.42
7	3.51	535.00	8.45
8	4.00	544.40	1.73
9	4.50	551.00	1.20
10	5.00	555.10	0.74
11	5.50	556.00	0.16
12	6.00	557.70	0.30
13	6.50	558.40	0.13
14	7.00	559.20	0.14
15	7.50	560.30	0.20
16	8.00	560.30	0.00
17	8.50	560.70	0.07
18	9.00	561.00	0.05
19	9.50	561.80	0.14
20	10.00	561.80	0.00
21	10.50	562.10	0.05
22	11.00	562.50	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS: 18.6 RWS 10/16/95 5.44 E2
(562.5 - ~~25.84957~~)(1)/(1) = RWS 10/16/95 +5.367E+02 g/L Carbon
(562.5 - 25.84957)(1)/(1)(12) = +4.472E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

743

544 / 0.200 = 2.72 E3

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: TOCBLK Date: 10/15/95 Time: 11:14:25

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = TOCBLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.70	71.43
3	1.50	1.20	41.67
4	2.00	2.10	42.86
5	2.50	4.20	50.00
6	3.01	8.40	50.00
7	3.51	14.50	42.07
8	4.00	16.20	10.49
9	4.50	18.70	13.37
10	5.00	19.70	5.08
11	5.50	20.70	4.83
12	6.00	20.70	0.00
13	6.50	21.40	3.27
14	7.00	22.40	4.46
15	7.50	22.40	0.00
16	8.00	23.00	2.61
17	8.50	24.20	4.96
18	9.00	24.20	0.00
19	9.50	24.50	1.22
20	10.00	24.90	1.61
21	10.50	25.30	1.58
22	11.00	25.80	1.94

BLANK VALUE = 25.8 micrograms carbon
BLANK FACTOR = 25.8 / 11.00067 = +2.35E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

0.0493g

WHC-SD-WM-DP-165, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001976SAM Date: 10/15/95 Time: 15:11:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.50	0.00
2	1.01	0.50	0.00
3	1.50	3.50	85.71
4	2.00	44.30	92.10
5	2.50	212.10	79.11
6	3.00	443.00	52.12
7	3.50	592.60	25.24
8	4.00	683.00	13.24
9	4.50	740.20	7.73
10	5.00	777.50	4.80
11	5.50	803.70	3.26
12	6.00	821.80	2.20
13	6.50	832.60	1.30
14	7.00	845.00	1.47
15	7.50	853.40	0.98
16	8.00	859.10	0.66
17	8.50	865.70	0.76
18	9.00	869.90	0.48
19	9.50	871.40	0.17
20	10.00	874.30	0.33
21	10.50	874.30	0.00
22	11.00	875.10	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(875.1 - 25.84928)(1)/(1) = +8.493E+02 g/L Carbon
(875.1 - 25.84928)(1)/(1)(12) = +7.077E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

745 849.3/0.0493 = 1.72E4 mg/g

0.0497 g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

DPB 10/5/95
1976 DUP

Sample: S95T00~~1977DUP~~ Date: 10/15/95 Time: 16:07:00

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	0.00	0.00
3	1.50	0.00	0.00
4	2.00	94.60	100.00
5	2.50	317.60	70.21
6	3.00	453.10	29.91
7	3.50	548.50	17.39
8	4.00	586.50	6.48
9	4.50	613.30	4.37
10	5.00	635.70	3.52
11	5.50	648.30	1.94
12	6.00	662.00	2.07
13	6.50	671.60	1.43
14	7.00	678.40	1.00
15	7.50	682.30	0.57
16	8.00	685.50	0.47
17	8.50	687.40	0.28
18	9.00	689.70	0.33
19	9.50	690.50	0.12
20	10.00	692.10	0.23
21	10.50	692.10	0.00
22	11.00	693.10	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(693.1 - 25.84928)(1)/(1) = +6.673E+02 g/L Carbon
(693.1 - 25.84928)(1)/(1)(12) = +5.560E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

667.3
~~693.1~~ / 0.0497 = 1.34 E4 ug/g
RWS 10/16/95 746

.0322 g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001976SPK Date: 10/15/95 Time: 16:51:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.80	0.00
2	1.01	0.80	0.00
3	1.50	5.50	85.45
4	2.00	57.00	90.35
5	2.50	244.80	76.72
6	3.00	468.30	47.73
7	3.50	604.90	22.58
8	4.00	635.00	4.74
9	4.50	675.70	6.02
10	5.00	693.90	2.62
11	5.50	713.40	2.73
12	6.00	728.90	2.13
13	6.50	732.90	0.55
14	7.00	743.70	1.45
15	7.50	749.40	0.76
16	8.00	754.00	0.61
17	8.50	757.20	0.42
18	9.00	761.30	0.54
19	9.50	764.90	0.47
20	10.00	765.90	0.13
21	10.50	766.60	0.09
22	11.00	767.70	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(767.7 - 25.84727)(1)/(1) = +7.419E+02 g/L Carbon
(767.7 - 25.84727)(1)/(1)(12) = +6.182E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

747

383. (767.7 - 25.8) / (849/0.0493)(0.0322) + (3000)(.100) = 86.8% rec

0.0540g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001977SAM Date: 10/15/95 Time: 20:01:10

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.30	0.00
2	1.01	1.30	0.00
3	1.51	3.50	62.86
4	2.00	18.90	81.48
5	2.51	135.50	86.05
6	3.01	315.00	56.98
7	3.50	478.40	34.16
8	4.00	555.80	13.93
9	4.50	628.10	11.51
10	5.00	669.40	6.17
11	5.50	685.10	2.29
12	6.00	704.00	2.68
13	6.50	712.60	1.21
14	7.00	723.80	1.55
15	7.50	734.90	1.51
16	8.00	739.30	0.60
17	8.50	745.90	0.88
18	9.00	749.20	0.44
19	9.50	752.00	0.37
20	10.00	754.40	0.32
21	10.50	756.50	0.28
22	11.00	757.40	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(757.4 - 25.85143)(1)/(1) = +7.315E+02 g/L Carbon
(757.4 - 25.85143)(1)/(1)(12) = +6.096E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

732
~~757.4~~ 748 / 0.054 = 1.36 E4 mg/g

RWS
10/16/95

0.0519g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001977DUP Date: 10/15/95 Time: 20:30:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.35 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.20	0.00
2	1.01	1.90	36.84
3	1.51	20.40	90.69
4	2.01	223.60	90.88
5	2.51	446.10	49.88
6	3.00	533.50	16.38
7	3.50	589.60	9.51
8	4.00	625.70	5.77
9	4.50	648.30	3.49
10	5.00	665.30	2.56
11	5.50	681.00	2.31
12	6.00	691.00	1.45
13	6.50	694.90	0.56
14	7.00	699.20	0.61
15	7.50	703.60	0.63
16	8.00	704.80	0.17
17	8.50	706.30	0.21
18	9.00	708.90	0.37
19	9.50	709.00	0.01
20	10.00	710.20	0.17
21	10.50	711.40	0.17
22	11.00	712.50	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 25.84498 micrograms carbon
BLANK FACTOR = 25.84498 / 10.99786 = +2.3E+00 ug/min Carbon

SAMPLE RESULTS:
(712.5 - 25.85143)(1)/(1) = +6.866E+02 g/L Carbon
(712.5 - 25.85143)(1)/(1)(12) = +5.722E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

712.5 - 25.9 = 686.6/0.059 = 1.32E4 ug/g

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Triplicate
Sample: S95T001976 Date: 10/19/95 Time: 12:02:03

Sample Size = 402 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.88 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.01	2.90	93.10
3	1.51	23.90	87.87
4	2.00	85.10	71.92
5	2.50	179.70	52.64
6	3.00	272.10	33.96
7	3.50	353.00	22.92
8	4.00	414.20	14.78
9	4.50	460.30	10.02
10	5.00	495.80	7.16
11	5.50	523.20	5.24
12	6.00	543.20	3.68
13	6.50	558.70	2.77
14	7.00	570.90	2.14
15	7.50	580.90	1.72
16	8.00	589.00	1.38
17	8.50	595.50	1.09
18	9.00	600.60	0.85
19	9.50	605.40	0.79
20	10.00	609.40	0.66
21	10.50	612.30	0.47
22	11.00	615.10	0.46

USER INPUT BLANK VALUE
BLANK VALUE = 53.66541 micrograms carbon
BLANK FACTOR = 53.66541 / 10.99701 = +4.9E+00 ug/min Carbon

SAMPLE RESULTS:
(615.1 - 53.68834)(1)/(402) = +1.397E+00 g/L Carbon
(615.1 - 53.68834)(1)/(402)(12) = +1.164E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

LABCORE Data Entry Template for Worklist# 2977

Analyst: KRM **Instrument:** TOC02 **Book #** 16 N 12 B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC (include TIC data, spike only the TOC)

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	3.3	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.85E3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T001925	0		TOC-02	SOLID	N/A	3.00E3	40.0	ug/g
95000118	BY-108 (R)	4	DUP	S95T001925	0		TOC-02	SOLID	3.00E3	2.50E3	N/A	ug/g
95000118	BY-108 (R)	5	SPK	S95T001925	0		TOC-02	SOLID	100	75.7	N/A	ug/g
95000118	BY-108 (R)	6	SAMPLE	S95T001966	0		TOC-02	SOLID	N/A	2.45E3	40.0	ug/g
95000118	BY-108 (R)	7	DUP	S95T001966	0		TOC-02	SOLID	2.45E3	2.38E3	N/A	ug/g

Final page for worklist # 2977

Analyst Signature Date 10-25-95

Analyst Signature Date 10-25-95

Reviewed RW Schroeder 10/26/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/25/95 Time: 00:22:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	0.30	0.00
2	1.01	0.60	50.00
3	1.51	1.10	45.45
4	2.00	1.50	26.67
5	2.50	1.90	21.05
6	3.00	2.10	9.52
7	3.50	2.30	8.70
8	4.00	2.60	11.54
9	4.50	2.80	7.14
10	5.00	3.10	9.68
11	5.50	3.30	6.06
12	6.00	3.50	5.71
13	6.50	3.80	7.89
14	7.00	4.00	5.00
15	7.50	4.20	4.76
16	8.00	4.50	6.67
17	8.50	4.70	4.26
18	9.00	4.90	4.08
19	9.50	5.20	5.77
20	10.00	5.40	3.70
21	10.50	5.50	1.82
22	11.00	5.80	5.17

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 752 **TO** 767.

BLANK VALUE = 5.8 micrograms carbon
BLANK FACTOR = 5.8 / 11.00167 = +5.3E-01 ug/min Carbon

Sample Run By KR MONTEITH 10-25-95 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/25/95 Time: 00:34:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	1.20	100.00
3	1.51	6.00	80.00
4	2.01	11.40	47.37
5	2.51	14.70	22.45
6	3.01	16.40	10.37
7	3.50	17.50	6.29
8	4.00	18.30	4.37
9	4.50	18.90	3.17
10	5.00	19.60	3.57
11	5.50	20.00	2.00
12	6.00	20.50	2.44
13	6.50	20.90	1.91
14	7.00	21.30	1.88
15	7.50	21.80	2.29
16	8.00	22.10	1.36
17	8.50	22.50	1.78
18	9.00	22.80	1.32
19	9.50	23.20	1.72
20	10.00	23.50	1.28
21	10.50	23.80	1.26
22	11.00	24.00	0.83

BLANK VALUE = 24 micrograms carbon
BLANK FACTOR = 24 / 11.00167 = +2.18E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/25/95 Time: 00:46:22

Sample Size = 1000 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .53 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	19.30	100.00
3	1.51	200.50	90.37
4	2.00	402.70	50.21
5	2.50	517.10	22.12
6	3.00	571.00	9.44
7	3.50	590.50	3.30
8	4.00	597.00	1.09
9	4.50	599.40	0.40
10	5.00	600.80	0.23
11	5.50	601.80	0.17
12	6.00	602.60	0.13
13	6.50	603.40	0.13
14	7.00	604.00	0.10
15	7.50	604.60	0.10
16	8.00	605.10	0.08
17	8.50	605.70	0.10
18	9.00	606.10	0.07
19	9.50	606.60	0.08
20	10.00	607.00	0.07
21	10.50	607.50	0.08
22	11.00	607.80	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(607.8 - 5.829381)(1)/(1000) = +6.020E-01 g/L Carbon
(607.8 - 5.829381)(1)/(1000)(12) = +5.016E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/25/95 Time: 00:58:05

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	3.30	96.97
3	1.51	47.70	93.08
4	2.00	213.30	77.64
5	2.50	475.70	55.16
6	3.00	693.80	31.44
7	3.50	798.50	13.11
8	4.00	843.30	5.31
9	4.50	858.40	1.76
10	5.00	863.90	0.64
11	5.50	866.60	0.31
12	6.00	868.30	0.20
13	6.50	869.90	0.18
14	7.00	871.10	0.14
15	7.50	872.10	0.11
16	8.00	873.10	0.11
17	8.50	874.00	0.10
18	9.00	874.70	0.08
19	9.50	875.50	0.09
20	10.00	876.20	0.08
21	10.50	876.80	0.07
22	11.00	877.40	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(877.4 - 23.97746)(1)/(300) = +2.845E+00 g/L Carbon
(877.4 - 23.97746)(1)/(300)(12) = +2.371E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHO-CD-VIM-DP-165, REV.1
755

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/25/95 Time: 01:10:21

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.00	0.00
2	1.01	4.00	50.00
3	1.51	5.10	21.57
4	2.00	5.70	10.53
5	2.50	6.30	9.52
6	3.00	6.70	5.97
7	3.50	7.20	6.94
8	4.00	7.50	4.00
9	4.50	7.90	5.06
10	5.00	8.30	4.82
11	5.50	8.60	3.49
12	6.00	9.00	4.44
13	6.50	9.30	3.23
14	7.00	9.70	4.12
15	7.50	10.00	3.00
16	8.00	10.40	3.85
17	8.50	10.70	2.80
18	9.00	11.00	2.73
19	9.50	11.30	2.65
20	10.00	11.70	3.42
21	10.50	12.00	2.50
22	11.00	12.30	2.44

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(12.3 - 5.830883)(1)/(1) = +6.47E+00 g/L Carbon
(12.3 - 5.830883)(1)/(1)(12) = +5.39E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-146, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/25/95 Time: 01:59:06

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.18 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.00	1.90	89.47
3	1.50	5.90	67.80
4	2.00	9.50	37.89
5	2.50	11.90	20.17
6	3.00	13.10	9.16
7	3.50	14.10	7.09
8	4.00	14.80	4.73
9	4.50	15.40	3.90
10	5.00	16.00	3.75
11	5.50	16.40	2.44
12	6.00	17.00	3.53
13	6.50	17.50	2.86
14	7.00	18.00	2.78
15	7.50	18.40	2.17
16	8.00	18.70	1.60
17	8.50	19.10	2.09
18	9.00	19.40	1.55
19	9.50	19.80	2.02
20	10.00	20.10	1.49
21	10.50	20.40	1.47
22	11.00	20.70	1.45

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(20.7 - 23.98145)(1)/(1) = < 5.00 E-3 g/L Carbon
(20.7 - 23.98145)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:12:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	0.60	0.00
3	1.50	38.40	98.44
4	2.00	144.00	73.33
5	2.50	242.30	40.57
6	3.00	305.50	20.69
7	3.50	336.70	9.27
8	4.00	349.80	3.74
9	4.50	355.30	1.55
10	5.00	357.90	0.73
11	5.50	359.60	0.47
12	6.00	360.80	0.33
13	6.50	361.70	0.25
14	7.00	362.40	0.19
15	7.50	363.10	0.19
16	8.00	363.70	0.16
17	8.50	364.20	0.14
18	9.00	364.80	0.16
19	9.50	365.30	0.14
20	10.00	365.70	0.11
21	10.50	366.10	0.11
22	11.00	366.50	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(366.5 - 5.829381)(1)/(1) = +3.607E+02 g/L Carbon
(366.5 - 5.829381)(1)/(1)(12) = +3.006E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:24:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	64.20	99.38
3	1.50	213.30	69.90
4	2.00	307.60	30.66
5	2.50	354.20	13.16
6	3.00	373.50	5.17
7	3.50	381.30	2.05
8	4.00	385.20	1.01
9	4.50	387.70	0.64
10	5.00	389.60	0.49
11	5.50	391.10	0.38
12	6.00	392.40	0.33
13	6.50	393.40	0.25
14	7.00	394.40	0.25
15	7.50	395.30	0.23
16	8.00	396.00	0.18
17	8.50	396.80	0.20
18	9.00	397.40	0.15
19	9.50	398.00	0.15
20	10.00	398.60	0.15
21	10.50	399.10	0.13
22	11.00	399.60	0.13

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(399.6 - 23.97711)(1)/(1) = +3.756E+02 g/L Carbon
(399.6 - 23.97711)(1)/(1)(12) = +3.130E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{375.6}{.1251} = 3.00E^{3}$

WHC-SD-WM-DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:36:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	9.60	97.92
3	1.51	92.40	89.61
4	2.01	203.30	54.55
5	2.50	288.10	29.43
6	3.00	341.70	15.69
7	3.50	368.80	7.35
8	4.00	380.50	3.07
9	4.50	385.60	1.32
10	5.00	388.20	0.67
11	5.50	389.90	0.44
12	6.00	391.10	0.31
13	6.50	392.10	0.26
14	7.00	393.00	0.23
15	7.50	393.80	0.20
16	8.00	394.50	0.18
17	8.50	395.20	0.18
18	9.00	395.80	0.15
19	9.50	396.40	0.15
20	10.00	396.90	0.13
21	10.50	397.40	0.13
22	11.00	397.90	0.13

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(397.9 - 5.830356)(1)/(1) = +3.921E+02 g/L Carbon
(397.9 - 5.830356)(1)/(1)(12) = +3.267E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 Date: 10/25/95 Time: 02:48:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.30	0.00
2	1.01	115.80	98.88
3	1.51	348.00	66.72
4	2.00	480.10	27.52
5	2.50	547.90	12.37
6	3.00	577.10	5.06
7	3.50	589.30	2.07
8	4.00	595.40	1.02
9	4.50	599.10	0.62
10	5.00	601.80	0.45
11	5.50	604.10	0.38
12	6.00	605.80	0.28
13	6.50	607.40	0.26
14	7.00	608.80	0.23
15	7.50	610.10	0.21
16	8.00	611.20	0.18
17	8.50	612.30	0.18
18	9.00	613.50	0.20
19	9.50	614.50	0.16
20	10.00	615.40	0.15
21	10.50	616.20	0.13
22	11.00	616.90	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(616.9 - 23.97747)(1)/(1) = +5.929E+02 g/L Carbon
(616.9 - 23.97747)(1)/(1)(12) = +4.941E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By:
KR MONTEITH 00000

$\frac{592.9}{.2376} = 2.50\varepsilon^3$

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 + SPK Date: 10/25/95 Time: 03:00:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.40	0.00
2	1.01	17.20	97.67
3	1.50	92.30	81.37
4	2.00	174.70	47.17
5	2.50	234.10	25.37
6	3.00	267.90	12.62
7	3.50	283.70	5.57
8	4.00	290.30	2.27
9	4.50	293.70	1.16
10	5.00	295.40	0.58
11	5.50	296.70	0.44
12	6.00	297.70	0.34
13	6.50	298.60	0.30
14	7.00	299.40	0.27
15	7.50	300.10	0.23
16	8.00	300.70	0.20
17	8.50	301.30	0.20
18	9.00	301.90	0.20
19	9.50	302.40	0.17
20	10.00	303.00	0.20
21	10.50	303.40	0.13
22	11.00	303.90	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(303.9 - 5.829377)(1)/(1) = +2.981E+02 g/L Carbon
(303.9 - 5.829377)(1)/(1)(12) = +2.484E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1925 + SPK Date: 10/25/95 Time: 03:14:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	86.10	99.54
3	1.50	274.50	68.63
4	2.00	462.70	40.67
5	2.50	579.90	20.21
6	3.00	639.70	9.35
7	3.50	664.80	3.78
8	4.00	674.30	1.41
9	4.50	679.10	0.71
10	5.00	682.30	0.47
11	5.50	684.70	0.35
12	6.00	686.50	0.26
13	6.50	688.10	0.23
14	7.00	689.60	0.22
15	7.50	690.80	0.17
16	8.00	691.90	0.16
17	8.50	693.00	0.16
18	9.00	693.90	0.13
19	9.50	694.80	0.13
20	10.00	695.60	0.12
21	10.50	696.40	0.11
22	11.00	697.60	0.17

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(697.6 - 23.9793)(1)/(1) = +6.736E+02 g/L Carbon
(697.6 - 23.9793)(1)/(1)(12) = +5.614E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$$\frac{697.6}{\left[\left(\frac{399.6}{.1951}\right).1946 + 300\right]} = 75.7\%\ REC$$

WHO-SD-WM-DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:26:32

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	4.40	79.55
3	1.51	46.40	90.52
4	2.00	148.90	68.84
5	2.51	266.30	44.09
6	3.01	371.20	28.26
7	3.51	444.10	16.42
8	4.01	481.90	7.84
9	4.50	496.60	2.96
10	5.00	502.70	1.21
11	5.50	505.60	0.57
12	6.00	507.50	0.37
13	6.50	508.90	0.28
14	7.00	510.20	0.25
15	7.50	511.20	0.20
16	8.00	512.10	0.18
17	8.50	513.00	0.18
18	9.00	513.80	0.16
19	9.50	514.50	0.14
20	10.00	515.30	0.16
21	10.50	515.90	0.12
22	11.00	516.60	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(516.6 - 5.830356)(1)/(1) = +5.108E+02 g/L Carbon
(516.6 - 5.830356)(1)/(1)(12) = +4.256E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:38:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.00	42.40	99.53
3	1.50	152.30	72.16
4	2.00	230.70	33.98
5	2.50	275.70	16.32
6	3.00	295.20	6.61
7	3.50	303.80	2.83
8	4.00	308.50	1.52
9	4.50	311.30	0.90
10	5.00	313.40	0.67
11	5.50	315.20	0.57
12	6.00	316.60	0.44
13	6.50	317.80	0.38
14	7.00	319.00	0.38
15	7.50	320.00	0.31
16	8.00	320.90	0.28
17	8.50	321.70	0.25
18	9.00	322.50	0.25
19	9.50	323.20	0.22
20	10.00	323.90	0.22
21	10.50	324.60	0.22
22	11.00	325.40	0.25

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(325.4 - 23.97528)(1)/(1) = +3.014E+02 g/L Carbon
(325.4 - 23.97528)(1)/(1)(12) = +2.512E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{301.4}{.1230} = 2.45E^{3}$

WHC-SD-WM DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 03:50:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .53 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.40	0.00
2	1.01	3.90	89.74
3	1.50	47.60	91.81
4	2.00	139.30	65.83
5	2.50	251.90	44.70
6	3.00	359.90	30.01
7	3.50	446.00	19.30
8	4.00	500.60	10.91
9	4.50	525.50	4.74
10	5.00	535.00	1.78
11	5.50	539.40	0.82
12	6.00	541.80	0.44
13	6.50	543.70	0.35
14	7.00	545.10	0.26
15	7.50	546.50	0.26
16	8.00	547.70	0.22
17	8.50	548.80	0.20
18	9.00	549.90	0.20
19	9.50	550.90	0.18
20	10.00	551.80	0.16
21	10.50	552.60	0.14
22	11.00	553.40	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 5.830884 micrograms carbon
BLANK FACTOR = 5.830884 / 11.00167 = +5.3E-01 ug/min Carbon

SAMPLE RESULTS:
(553.4 - 5.829377)(1)/(1) = +5.476E+02 g/L Carbon
(553.4 - 5.829377)(1)/(1)(12) = +4.563E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1966 Date: 10/25/95 Time: 04:02:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.18 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	59.90	98.16
3	1.51	186.90	67.95
4	2.00	275.40	32.14
5	2.50	324.70	15.18
6	3.00	346.30	6.24
7	3.50	355.40	2.56
8	4.00	360.70	1.47
9	4.50	364.10	0.93
10	5.00	366.90	0.76
11	5.50	368.90	0.54
12	6.00	370.80	0.51
13	6.50	372.40	0.43
14	7.00	373.80	0.37
15	7.50	375.20	0.37
16	8.00	376.50	0.35
17	8.50	377.70	0.32
18	9.00	378.50	0.21
19	9.50	379.40	0.24
20	10.00	380.20	0.21
21	10.50	380.80	0.16
22	11.00	381.40	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 23.98364 micrograms carbon
BLANK FACTOR = 23.98364 / 11.00167 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(381.4 - 23.98363)(1)/(1) = +3.574E+02 g/L Carbon
(381.4 - 23.98363)(1)/(1)(12) = +2.978E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{357.4}{.1499} = 2.38E^{3}$

~~WHC-SD-WM-DP-_____, REV.____~~ 1/26/96

LABCORE Data Entry Template for Worklist# 2978

Analyst: DFB **Instrument:** TOC02 **Book #** 16N12-B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 (include TIC data, spike only the TOC)

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	9.80	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.70E3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T001967	0		TOC-02	SOLID	N/A	4.24E3	40.0	ug/g
95000118	BY-108 (R)	4	DUP	S95T001967	0		TOC-02	SOLID	4.24E3	4.84E3	N/A	ug/g
95000118	BY-108 (R)	5	SPK	S95T001967	0		TOC-02	SOLID	100	106	N/A	ug/g
95000118	BY-108 (R)	6	SAMPLE	S95T001968	0		TOC-02	SOLID	N/A	2.81e3	40.0	ug/g
95000118	BY-108 (R)	7	DUP	S95T001968	0		TOC-02	SOLID	2.81e3	2.87e3	N/A	ug/g

Final page for worklist # 2978

Analyst Signature / Date 10/28/95

Analyst Signature Date 11-1-95

Reviewed RW Schroeder 11/6/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK Date: 10/28/95 Time: 02:46:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.20	50.00
3	1.50	0.40	50.00
4	2.00	0.80	50.00
5	2.50	1.00	20.00
6	3.00	1.20	16.67
7	3.50	1.40	14.29
8	4.00	1.70	17.65
9	4.50	2.00	15.00
10	5.00	2.30	13.04
11	5.50	2.60	11.54
12	6.00	2.90	10.34
13	6.50	3.10	6.45
14	7.00	3.30	6.06
15	7.50	3.50	5.71
16	8.00	3.70	5.41
17	8.50	3.80	2.63
18	9.00	3.90	2.56
19	9.50	4.10	4.88
20	10.00	4.20	2.38
21	10.50	4.30	2.33
22	11.00	4.40	2.27

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 769 TO 784.

BLANK VALUE = 4.4 micrograms carbon
BLANK FACTOR = 4.4 / 11.00064 = +4.0E-01 ug/min Carbon

Sample Run By: D P Bromley 10-28-95
DP BROMLEY 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK Date: 10/28/95 Time: 03:00:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.60	100.00
3	1.50	4.00	85.00
4	2.00	9.30	56.99
5	2.50	14.00	33.57
6	3.00	16.80	16.67
7	3.50	18.60	9.68
8	4.00	20.10	7.46
9	4.50	21.30	5.63
10	5.00	22.50	5.33
11	5.50	23.30	3.43
12	6.00	24.20	3.72
13	6.50	24.80	2.42
14	7.00	25.50	2.75
15	7.50	26.00	1.92
16	8.00	26.40	1.52
17	8.50	26.80	1.49
18	9.00	27.20	1.47
19	9.50	27.40	0.73
20	10.00	27.70	1.08
21	10.50	28.00	1.07
22	11.00	28.10	0.36

BLANK VALUE = 28.1 micrograms carbon
BLANK FACTOR = 28.1 / 10.99799 = +2.56E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

.2 mL 16N12-B

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/28/95 Time: 03:33:30

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.80	87.50
3	1.51	13.60	94.12
4	2.01	94.90	85.67
5	2.51	273.90	65.35
6	3.01	434.10	36.90
7	3.51	509.80	14.85
8	4.01	535.10	4.73
9	4.51	543.50	1.55
10	5.01	547.30	0.69
11	5.51	549.60	0.42
12	6.01	550.90	0.24
13	6.51	552.40	0.27
14	7.00	553.60	0.22
15	7.50	554.50	0.16
16	8.00	555.40	0.16
17	8.50	556.10	0.13
18	9.00	556.70	0.11
19	9.50	557.30	0.11
20	10.00	557.80	0.09
21	10.50	558.20	0.07
22	11.00	558.70	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 28.15484 micrograms carbon
BLANK FACTOR = 28.15484 / 10.99799 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWS 10/31/95
(558.7 - ~~28.16851~~)(1)/(200) = +2.653E+00 g/L Carbon
(558.7 - 28.16851)(1)/(200)(12) = +2.211E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

540/200 = 2.70 E+3 mg/g

Sample Run By: _____
DP BROMLEY 00000

1mL 17N12-A

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/28/95 Time: 03:17:43

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.30	0.00
2	1.01	115.60	96.28
3	1.50	259.10	55.38
4	2.00	362.20	28.46
5	2.50	425.40	14.86
6	3.00	454.00	6.30
7	3.50	466.70	2.72
8	4.00	471.30	0.98
9	4.50	473.80	0.53
10	5.00	475.00	0.25
11	5.50	475.90	0.19
12	6.00	476.60	0.15
13	6.50	477.20	0.13
14	7.00	477.70	0.10
15	7.50	478.00	0.06
16	8.00	478.50	0.10
17	8.50	478.80	0.06
18	9.00	479.10	0.06
19	9.50	479.30	0.04
20	10.00	479.60	0.06
21	10.50	479.90	0.06
22	11.00	480.10	0.04

USER INPUT BLANK VALUE
BLANK VALUE = 4.399194 micrograms carbon
BLANK FACTOR = 4.399194 / 10.99799 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(480.1 - 4.39986)(1)/(1000) = +4.757E-01 g/L Carbon
(480.1 - 4.39986)(1)/(1000)(12) = +3.964E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/28/95 Time: 03:49:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	1.20	75.00
3	1.51	1.90	36.84
4	2.00	2.40	20.83
5	2.50	2.80	14.29
6	3.00	3.00	6.67
7	3.50	3.30	9.09
8	4.00	3.40	2.94
9	4.50	3.60	5.56
10	5.00	3.80	5.26
11	5.50	3.90	2.56
12	6.00	4.10	4.88
13	6.50	4.30	4.65
14	7.00	4.40	2.27
15	7.50	4.60	4.35
16	8.00	4.70	2.13
17	8.50	4.90	4.08
18	9.00	5.00	2.00
19	9.50	5.10	1.96
20	10.00	5.30	3.77
21	10.50	5.40	1.85
22	11.00	5.50	1.82

BLANK VALUE = 5.5 micrograms carbon
BLANK FACTOR = 5.5 / 10.99883 = +5.0E-01 ug/min Carbon

Sample Run By: _____
DP BROMLEY 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLANK Date: 10/28/95 Time: 04:03:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLANK
Blank Value = N/A

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.00	0.60	100.00
3	1.50	2.40	75.00
4	2.00	5.30	54.72
5	2.50	8.60	38.37
6	3.00	10.60	18.87
7	3.50	11.90	10.92
8	4.00	12.80	7.03
9	4.50	13.50	5.19
10	5.00	14.10	4.26
11	5.50	14.60	3.42
12	6.00	15.20	3.95
13	6.50	15.80	3.80
14	7.00	16.10	1.86
15	7.50	16.60	3.01
16	8.00	16.90	1.78
17	8.50	17.20	1.74
18	9.00	17.50	1.71
19	9.50	17.70	1.13
20	10.00	17.90	1.12
21	10.50	18.10	1.10
22	11.00	18.30	1.09

BLANK VALUE = 18.3 micrograms carbon
BLANK FACTOR = 18.3 / 10.99883 = +1.66E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

.0647 g

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SAM Date: 10/28/95 Time: 05:46:35

Sample Size = 64.7 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	2.70	92.59
3	1.50	53.50	94.95
4	2.00	151.70	64.73
5	2.50	238.50	36.39
6	3.00	291.80	18.27
7	3.50	316.70	7.86
8	4.00	327.40	3.27
9	4.50	331.50	1.24
10	5.00	333.70	0.66
11	5.50	335.00	0.39
12	6.00	336.00	0.30
13	6.50	336.70	0.21
14	7.00	337.30	0.18
15	7.50	337.90	0.18
16	8.00	338.40	0.15
17	8.50	338.90	0.15
18	9.00	339.20	0.09
19	9.50	339.60	0.12
20	10.00	339.90	0.09
21	10.50	340.30	0.12
22	11.00	340.50	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(340.5 - 4.399866)(1)/(64.7) = +5.195E+00 g/L Carbon
(340.5 - 4.399866)(1)/(64.7)(12) = +4.329E-01 Molar Carbon

Sample Run By: DP BROMLEY 00000

340/0.0647g = 775

.0647g

WHC-CD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SAM Date: 10/28/95 Time: 06:01:20

Sample Size = 64.7 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	7.70	100.00
3	1.50	88.90	91.34
4	2.00	187.40	52.56
5	2.50	245.90	23.79
6	3.01	269.00	8.59
7	3.51	277.30	2.99
8	4.00	280.70	1.21
9	4.50	282.90	0.78
10	5.00	284.50	0.56
11	5.50	286.00	0.52
12	6.00	287.10	0.38
13	6.50	288.00	0.31
14	7.00	288.80	0.28
15	7.50	289.60	0.28
16	8.00	290.10	0.17
17	8.50	290.70	0.21
18	9.00	291.10	0.14
19	9.50	291.40	0.10
20	10.00	291.80	0.14
21	10.50	292.20	0.14
22	11.00	292.60	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18 Runs 10/31/95
(292.6 - ~~28~~.16125)(1)/(64.7) = +4.087E+00 g/L Carbon
(292.6 - 28.16125)(1)/(64.7)(12) = +3.406E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

292.6 - 18.3 = 274 E2 / 0.0647g = 4.24E3 mg C/g
776

.1195 g

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967DUP Date: 10/28/95 Time: 06:23:48

Sample Size = 119.5 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	4.00	100.00
3	1.51	127.20	96.86
4	2.00	385.80	67.03
5	2.50	631.50	38.91
6	3.00	797.00	20.77
7	3.50	883.60	9.80
8	4.00	921.90	4.15
9	4.50	935.90	1.50
10	5.00	941.80	0.63
11	5.50	945.20	0.36
12	6.00	947.20	0.21
13	6.50	949.00	0.19
14	7.00	950.40	0.15
15	7.50	951.80	0.15
16	8.00	952.80	0.10
17	8.50	953.70	0.09
18	9.00	954.60	0.09
19	9.50	955.40	0.08
20	10.00	956.20	0.08
21	10.50	956.80	0.06
22	11.00	957.50	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(957.5 - 4.399939)(1)/(119.5) = +7.976E+00 g/L Carbon
(957.5 - 4.399939)(1)/(119.5)(12) = +6.646E-01 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

.1195g

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967DUP Date: 10/28/95 Time: 06:52:17

Sample Size = 119.5 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading ====	Analysis Time ====	Coulometer ====	% Difference ==
1	0.51	0.00	0.00
2	1.01	1.40	100.00
3	1.50	69.90	98.00
4	2.00	235.20	70.28
5	2.50	399.50	41.13
6	3.00	504.50	20.81
7	3.50	553.60	8.87
8	4.00	571.30	3.10
9	4.50	578.30	1.21
10	5.00	581.90	0.62
11	5.50	584.50	0.44
12	6.00	586.60	0.36
13	6.50	588.50	0.32
14	7.00	590.00	0.25
15	7.50	591.00	0.17
16	8.00	592.20	0.20
17	8.50	593.10	0.15
18	9.00	593.80	0.12
19	9.50	594.40	0.10
20	10.00	595.00	0.10
21	10.50	595.60	0.10
22	11.00	596.10	0.08

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: ~~28.3~~ 18.3 Ross 10/31/95
(596.1 - ~~28~~.15961)(1)/(119.5) = +4.753E+00 g/L Carbon
(596.1 - 28.15961)(1)/(119.5)(12) = +3.961E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

$\frac{596.1 - 18.3}{.778} / 0.1195g$ 4.84E3 mg/g

.0580g + .5 mL 17N12-A

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SPK Date: 10/28/95 Time: 07:08:22

Sample Size = 58.0 uL
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	7.00	100.00
3	1.51	122.80	94.30
4	2.00	336.90	63.55
5	2.50	511.10	34.08
6	3.00	609.00	16.08
7	3.50	660.70	7.83
8	4.00	680.70	2.94
9	4.50	688.10	1.08
10	5.00	691.60	0.51
11	5.50	693.80	0.32
12	6.00	695.60	0.26
13	6.50	697.10	0.22
14	7.00	698.30	0.17
15	7.50	699.30	0.14
16	8.00	700.20	0.13
17	8.50	701.00	0.11
18	9.00	701.80	0.11
19	9.50	702.60	0.11
20	10.00	703.20	0.09
21	10.50	703.80	0.09
22	11.00	704.40	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 4.39953 micrograms carbon
BLANK FACTOR = 4.39953 / 10.99883 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(704.4 - 4.400257)(1)/(58.0) = +1.207E+01 g/L Carbon
(704.4 - 4.400257)(1)/(58.0)(12) = +1.006E+00 Molar Carbon

Sample Run By: DP BROMLEY 00000

.0580 g + .1 mL 16N12-B

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1967SPK Date: 10/28/95 Time: 07:25:36

Sample Size = 58.0 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	1.50	100.00
3	1.50	35.40	95.76
4	2.00	148.30	76.13
5	2.50	267.40	44.54
6	3.00	315.20	15.16
7	3.50	456.90	31.01
8	4.00	535.20	14.63
9	4.50	570.20	6.14
10	5.00	580.80	1.83
11	5.50	585.20	0.75
12	6.00	588.10	0.49
13	6.50	590.10	0.34
14	7.00	591.70	0.27
15	7.50	592.90	0.20
16	8.00	594.10	0.20
17	8.50	595.10	0.17
18	9.00	595.90	0.13
19	9.50	596.70	0.13
20	10.00	597.50	0.13
21	10.50	598.20	0.12
22	11.00	598.80	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 28.15699 micrograms carbon
BLANK FACTOR = 28.15699 / 10.99883 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 Rwg 10/31/95
(598.8 - ~~28.~~15703)(1)/(58.0) = +9.839E+00 g/L Carbon
(598.8 - 28.15703)(1)/(58.0)(12) = +8.199E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 00000

$$\frac{598.8}{\left(\frac{292.6}{0.0647}\right)0.0580 + 30} = 106\%\ \text{rec}$$

780

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968 Date: 10/28/95 Time: 20:22:54

Sample Size = ~~748 uL~~ .0748 g
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.40	0.00
2	1.01	29.20	95.21
3	1.51	121.30	75.93
4	2.00	204.50	40.68
5	2.50	264.90	22.80
6	3.00	300.10	11.73
7	3.51	316.90	5.30
8	4.01	324.70	2.40
9	4.50	329.10	1.34
10	5.00	332.60	1.05
11	5.50	335.60	0.89
12	6.00	338.30	0.80
13	6.50	340.70	0.70
14	7.00	343.30	0.76
15	7.50	345.50	0.64
16	8.00	347.70	0.63
17	8.50	349.70	0.57
18	9.00	352.20	0.71
19	9.50	354.10	0.54
20	10.00	355.40	0.37
21	10.50	356.70	0.36
22	11.00	357.50	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 4.399146 micrograms carbon
BLANK FACTOR = 4.399146 / 10.99786 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(357.5 - 4.400293)(1)/(748) = +4.721E-01 g/L Carbon
(357.5 - 4.400293)(1)/(748)(12) = +3.934E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968 .0748g Date: 10/28/95 Time: 20:38:20

Sample Size = ~~748 ul~~ Analyst : DP BROMLEY
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.56 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	19.60	96.94
3	1.50	77.10	74.58
4	2.00	133.30	42.16
5	2.50	171.00	22.05
6	3.00	193.20	11.49
7	3.50	204.70	5.62
8	4.00	210.70	2.85
9	4.50	214.40	1.73
10	5.00	216.80	1.11
11	5.50	218.40	0.73
12	6.00	219.90	0.68
13	6.50	221.20	0.59
14	7.00	222.20	0.45
15	7.50	223.20	0.45
16	8.00	224.10	0.40
17	8.50	224.90	0.36
18	9.00	225.80	0.40
19	9.50	226.40	0.27
20	10.00	227.20	0.35
21	10.50	227.80	0.26
22	11.00	228.40	0.26

USER INPUT BLANK VALUE
BLANK VALUE = 28.15453 micrograms carbon
BLANK FACTOR = 28.15453 / 10.99786 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: R55 10/31/95
(228.4 - ~~28~~.16156)(1)/(748) = +2.677E-01 g/L Carbon
(228.4 - 28.16156)(1)/(748)(12) = +2.231E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
DP BROMLEY 00000

782

228.4 - 18.3 / 0.0748 = 2.81E3 mg C/g

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968DUP Date: 10/28/95 Time: 20:52:12

Sample Size = ~~836 ul~~ .8365
Dil Factor = 1
Blank ID # =
Blank Value = .4 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	27.20	97.79
3	1.51	152.80	82.20
4	2.00	276.50	44.74
5	2.50	363.50	23.93
6	3.00	411.70	11.71
7	3.50	414.20	0.60
8	4.00	415.00	0.19
9	4.50	415.20	0.05
10	5.00	415.20	0.00
11	5.50	415.40	0.05
12	6.00	419.60	1.00
13	6.50	420.70	0.26
14	7.00	420.70	0.00
15	7.50	420.70	0.00
16	8.00	420.70	0.00
17	8.50	420.70	0.00
18	9.00	420.70	0.00
19	9.50	426.40	1.34
20	10.00	426.40	0.00
21	10.50	426.40	0.00
22	11.00	426.40	0.00

USER INPUT BLANK VALUE
BLANK VALUE = 4.399146 micrograms carbon
BLANK FACTOR = 4.399146 / 10.99786 = +4.0E-01 ug/min Carbon

SAMPLE RESULTS:
(426.4 - 4.400244)(1)/(836) = +5.048E-01 g/L Carbon
(426.4 - 4.400244)(1)/(836)(12) = +4.207E-02 Molar Carbon

Sample Run By: _____
DP BROMLEY 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001968DUP Date: 10/28/95 Time: 21:07:30

Sample Size = ~~836 uL~~ 0836 5
Dil Factor = 1
Blank ID # =
Blank Value = 2.56 ug/minute C

Analyst : DP BROMLEY
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.00	0.00
2	1.01	28.30	92.93
3	1.51	92.30	69.34
4	2.00	152.80	39.59
5	2.50	197.00	22.44
6	3.00	220.00	10.45
7	3.50	223.60	1.61
8	4.00	227.90	1.89
9	4.50	233.00	2.19
10	5.00	237.10	1.73
11	5.50	240.50	1.41
12	6.00	243.70	1.31
13	6.50	246.60	1.18
14	7.00	248.90	0.92
15	7.50	250.70	0.72
16	8.00	252.30	0.63
17	8.50	253.40	0.43
18	9.00	254.70	0.51
19	9.50	255.70	0.39
20	10.00	256.50	0.31
21	10.50	257.40	0.35
22	11.00	258.10	0.27

USER INPUT BLANK VALUE
BLANK VALUE = 28.15453 micrograms carbon
BLANK FACTOR = 28.15453 / 10.99786 = +2.6E+00 ug/min Carbon

SAMPLE RESULTS: 18.3 RWS 10/31/95
(258.1 - ~~28~~.16375)(1)/(836) = +2.750E-01 g/L Carbon
(258.1 - 28.16375)(1)/(836)(12) = +2.292E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: DP BROMLEY 784 00000

$(258.1 - 18.3)/0.0836 = 2.87\ E3\ \mu gC/g$

LABCORE Data Entry Template for Worklist# 2979

Analyst: JdS by fax **Instrument:** TOC02 _____ **Book #** 16N12-13

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 (include TIC data, spike only the TOC)

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	30	N/A	ug/g
		2	STD				TOC-02	SOLID	3.0e3	2.81e3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T001969	0		TOC-02	SOLID	N/A	1.99e3	40	ug/g
95000118	BY-108 (R)	4	DUP	S95T001969	0		TOC-02	SOLID	1.99e3	2.13e3	N/A	ug/g
95000118	BY-108 (R)	5	SAMPLE	S95T001970	0		TOC-02	SOLID	N/A	1.59e3	40	ug/g
95000118	BY-108 (R)	6	DUP	S95T001970	0		TOC-02	SOLID	1.59e3	1.48e3	N/A	ug/g
95000118	BY-108 (R)	7	SPK	S95T001970	0		TOC-02	SOLID	100	80.47	N/A	ug/g

Final page for worklist # 2979

Analyst Signature Date 10.28-95

Analyst Signature Date 11-7-95

Reviewed RW Schroeder 11/8/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2979

Analyst: JdS **Instrument:** TOC02 **Book #** 16N12B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 (include TIC data, spike only the TOC)

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT	
		1	BLNK				TOC-02	SOLID	~~0~~ 30	30	N/A	ug/g	
		2	STD				TOC-02	SOLID	3000	2810	N/A	ug/g	
95000118	BY-108 (R)	3	SAMPLE	S95T001969	0		TOC-02	SOLID	N/A	1993	40	ug/g	.1322 S
95000118	BY-108 (R)	4	DUP	S95T001969	0		TOC-02	SOLID	1993	2133	N/A	ug/g	.1388 S
95000118	BY-108 (R)	5	SPK	~~S95T001969~~ S95T001970	0	JS 10-27-95	TOC-02	SOLID	300	241.2	N/A	ug/g	.0724 S
95000118	BY-108 (R)	6	SAMPLE	S95T001970	0		TOC-02	SOLID	N/A	1586	40	ug/g	.1137 S
95000118	BY-108 (R)	7	DUP	S95T001970	0		TOC-02	SOLID	1586	1484	N/A	ug/g	.1180 S

Final page for worklist # 2979

JdS 10-26-95
Analyst Signature **Date**

11-7-95
Analyst Signature **Date**

Data Entry Comments:

PK Brown Paste
Spiked # S95T001970

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 16N12B Date: 10/28/95 Time: 11:51:46

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	2.20	100.00
3	1.51	14.50	84.83
4	2.01	85.10	82.96
5	2.51	245.20	65.29
6	3.00	410.30	40.24
7	3.50	493.60	16.88
8	4.00	523.60	5.73
9	4.50	534.40	2.02
10	5.00	539.80	1.00
11	5.50	543.20	0.63
12	6.00	545.00	0.33
13	6.50	546.40	0.26
14	7.00	548.00	0.29
15	7.50	551.00	0.54
16	8.00	553.40	0.43
17	8.50	554.70	0.23
18	9.00	555.90	0.22
19	9.50	557.40	0.27
20	10.00	569.40	2.11
21	10.50	587.60	3.10
22	11.00	592.00	0.74

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 787 TO 799.

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(592 - 30.03183)(1)/(200) = +2.810E+00 g/L Carbon
(592 - 30.03183)(1)/(200)(12) = +2.342E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 10/29/95 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE Date: 10/28/95 Time: 09:40:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.90	0.00
2	1.01	1.40	35.71
3	1.51	1.90	26.32
4	2.00	2.40	20.83
5	2.50	3.00	20.00
6	3.00	3.50	14.29
7	3.50	3.90	10.26
8	4.00	4.40	11.36
9	4.50	4.60	4.35
10	5.00	5.00	8.00
11	5.50	5.40	7.41
12	6.00	5.60	3.57
13	6.50	5.90	5.08
14	7.00	6.20	4.84
15	7.50	6.50	4.62
16	8.00	6.70	2.99
17	8.50	7.00	4.29
18	9.00	7.20	2.78
19	9.50	7.40	2.70
20	10.00	7.70	3.90
21	10.50	7.80	1.28
22	11.00	8.00	2.50

BLANK VALUE = 8 micrograms carbon
BLANK FACTOR = 8 / 10.9989 = +7.3E-01 ug/min Carbon

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE Date: 10/28/95 Time: 09:52:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	1.80	100.00
3	1.51	7.60	76.32
4	2.01	14.20	46.48
5	2.51	18.60	23.66
6	3.01	20.90	11.00
7	3.51	22.70	7.93
8	4.01	23.60	3.81
9	4.51	25.00	5.60
10	5.01	25.70	2.72
11	5.51	26.50	3.02
12	6.01	27.00	1.85
13	6.51	27.50	1.82
14	7.00	28.00	1.79
15	7.50	28.30	1.06
16	8.00	28.60	1.05
17	8.50	28.90	1.04
18	9.00	29.20	1.03
19	9.50	29.40	0.68
20	10.00	29.70	1.01
21	10.50	29.80	0.34
22	11.00	30.00	0.67

BLANK VALUE = 30 micrograms carbon
BLANK FACTOR = 30 / 11.0025 = +2.73E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLK Date: 10/28/95 Time: 14:11:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.70	76.47
3	1.50	2.70	37.04
4	2.00	4.70	42.55
5	2.50	8.70	45.98
6	3.01	13.90	37.41
7	3.51	18.60	25.27
8	4.00	21.20	12.26
9	4.50	22.60	6.19
10	5.00	23.40	3.42
11	5.50	23.90	2.09
12	6.00	24.50	2.45
13	6.50	25.00	2.00
14	7.00	25.40	1.57
15	7.50	25.80	1.55
16	8.00	26.00	0.77
17	8.50	26.40	1.52
18	9.00	26.60	0.75
19	9.50	26.90	1.12
20	10.00	27.20	1.10
21	10.50	27.30	0.37
22	11.00	27.40	0.36

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(27.4 - 30.03417)(1)/(1) = < 5.00 E-3 g/L Carbon
(27.4 - 30.03417)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969 Date: 10/28/95 Time: 14:31:43

Sample Size = ~~322 uL~~ .13229 JJ 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = .73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	2.60	88.46
3	1.51	65.20	96.01
4	2.00	223.70	70.85
5	2.50	372.10	39.88
6	3.00	474.70	21.61
7	3.50	538.10	11.78
8	4.00	579.00	7.06
9	4.50	600.10	3.52
10	5.00	610.70	1.74
11	5.50	615.70	0.81
12	6.00	618.30	0.42
13	6.50	619.90	0.26
14	7.00	621.30	0.23
15	7.50	622.40	0.18
16	8.00	623.30	0.14
17	8.50	624.10	0.13
18	9.00	624.80	0.11
19	9.50	625.50	0.11
20	10.00	626.10	0.10
21	10.50	626.70	0.10
22	11.00	627.30	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(627.3 - 8.028574)(1)/(322) = +1.923E+00 g/L Carbon
(627.3 - 8.028574)(1)/(322)(12) = +1.603E-01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969 Date: 10/28/95 Time: 14:44:24

Sample Size = ~~322 uL~~ 1322g SS 10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.73 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	28.40	98.94
3	1.50	133.10	78.66
4	2.00	219.40	39.33
5	2.50	260.70	15.84
6	3.00	275.10	5.23
7	3.50	280.10	1.79
8	4.00	282.90	0.99
9	4.50	285.00	0.74
10	5.00	286.80	0.63
11	5.50	287.70	0.31
12	6.00	288.70	0.35
13	6.50	289.50	0.28
14	7.00	290.20	0.24
15	7.50	290.80	0.21
16	8.00	291.30	0.17
17	8.50	291.80	0.17
18	9.00	292.20	0.14
19	9.50	292.60	0.14
20	10.00	292.90	0.10
21	10.50	293.20	0.10
22	11.00	293.50	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(293.5 - 30.029)(1)/(322) = +8.182E-01 g/L Carbon
(293.5 - 30.029)(1)/(322)(12) = +6.819E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: D95T001969DUP Date: 10/28/95 Time: 14:56:25

Sample Size = ~~388 uL~~ .13885 JS-10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .73 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	1.00	90.00
3	1.51	105.90	99.06
4	2.01	338.10	68.68
5	2.51	510.00	33.71
6	3.01	616.80	17.32
7	3.51	682.50	9.63
8	4.00	720.20	5.23
9	4.50	740.20	2.70
10	5.00	751.60	1.52
11	5.50	759.10	0.99
12	6.00	765.10	0.78
13	6.50	770.80	0.74
14	7.00	774.10	0.43
15	7.50	776.40	0.30
16	8.00	777.90	0.19
17	8.50	779.20	0.17
18	9.00	780.00	0.10
19	9.50	780.80	0.10
20	10.00	781.50	0.09
21	10.50	782.30	0.10
22	11.00	782.80	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(782.8 - 8.029778)(1)/(388) = +1.997E+00 g/L Carbon
(782.8 - 8.029778)(1)/(388)(12) = +1.664E-01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001969DUP Date: 10/28/95 Time: 15:08:59

Sample Size = ~~388 uL~~ .13985 SS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.00	8.00	92.50
3	1.50	86.30	90.73
4	2.00	193.80	55.47
5	2.50	266.90	27.39
6	3.00	297.50	10.29
7	3.50	307.80	3.35
8	4.00	312.20	1.41
9	4.50	315.30	0.98
10	5.00	317.10	0.57
11	5.50	318.60	0.47
12	6.00	319.90	0.41
13	6.50	321.00	0.34
14	7.00	321.90	0.28
15	7.50	322.60	0.22
16	8.00	323.20	0.19
17	8.50	323.80	0.19
18	9.00	324.40	0.18
19	9.50	324.90	0.15
20	10.00	325.20	0.09
21	10.50	325.60	0.12
22	11.00	326.10	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(326.1 - 30.029)(1)/(388) = +7.631E-01 g/L Carbon
(326.1 - 30.029)(1)/(388)(12) = +6.359E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970 Date: 10/28/95 Time: 16:55:26

Sample Size = ~~137 uL~~ 113.75 JS 10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .73 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	17.20	98.84
3	1.50	85.80	79.95
4	2.00	162.70	47.26
5	2.50	217.60	25.23
6	3.00	250.50	13.13
7	3.50	267.20	6.25
8	4.00	275.10	2.87
9	4.50	279.40	1.54
10	5.00	282.40	1.06
11	5.50	285.10	0.95
12	6.00	287.20	0.73
13	6.50	289.30	0.73
14	7.00	290.10	0.28
15	7.50	291.00	0.31
16	8.00	291.80	0.27
17	8.50	292.40	0.21
18	9.00	293.10	0.24
19	9.50	293.50	0.14
20	10.00	294.10	0.20
21	10.50	294.70	0.20
22	11.00	295.80	0.37

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(295.8 - 8.029109)(1)/(137) = +2.101E+00 g/L Carbon
(295.8 - 8.029109)(1)/(137)(12) = +1.750E-01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970SPK Date: 10/28/95 Time: 19:37:29

Sample Size = ~~724 ul~~ .0724g JS 10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = .73 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	11.90	100.00
3	1.50	54.90	78.32
4	2.01	91.40	39.93
5	2.51	113.60	19.54
6	3.01	125.60	9.55
7	3.51	132.00	4.85
8	4.00	135.30	2.44
9	4.50	137.50	1.60
10	5.00	139.60	1.50
11	5.50	142.50	2.04
12	6.00	144.70	1.52
13	6.50	147.10	1.63
14	7.00	150.50	2.26
15	7.50	152.60	1.38
16	8.00	155.30	1.74
17	8.50	158.90	2.27
18	9.00	161.20	1.43
19	9.50	163.30	1.29
20	10.00	164.60	0.79
21	10.50	167.40	1.67
22	11.00	170.30	1.70

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(170.3 - 8.029911)(1)/(724) = +2.241E-01 g/L Carbon
(170.3 - 8.029911)(1)/(724)(12) = +1.868E-02 Molar Carbon

Sample Run By: JD SPELLMAN 00000

RWS 11/6/95

$\frac{170}{0.0724}$ (

$\frac{170}{\left(\frac{295.8}{0.1137}\right)(0.0724)+300} \times 100 =$

796

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970SPK Date: 10/28/95 Time: 19:51:16

Sample Size = ~~724 uL~~ .0724 g SS 10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.73 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	15.40	0.00
2	1.01	83.80	81.62
3	1.51	199.00	57.89
4	2.00	278.70	28.60
5	2.50	315.50	11.66
6	3.00	328.20	3.87
7	3.50	333.60	1.62
8	4.00	336.40	0.83
9	4.50	338.70	0.68
10	5.00	340.10	0.41
11	5.50	341.30	0.35
12	6.00	342.70	0.41
13	6.50	343.60	0.26
14	7.00	344.70	0.32
15	7.50	345.30	0.17
16	8.00	346.00	0.20
17	8.50	346.60	0.17
18	9.00	347.00	0.12
19	9.50	347.50	0.14
20	10.00	347.90	0.11
21	10.50	348.30	0.11
22	11.00	348.80	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(348.8 - 30.02967)(1)/(724) = +4.403E-01 g/L Carbon
(348.8 - 30.02967)(1)/(724)(12) = +3.669E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: JD SPELLMAN 00000

WHC-SD-WM-DP-145, REV 1

$$\frac{348.8}{\left(\frac{210.3}{0.1137}\right)(0.0724)+300} \times 100 = 80.48\% \quad 796.1$$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970 Date: 10/28/95 Time: 17:12:12

Sample Size = ~~137 uL~~ .1137 g JS 10-28-95 Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.73 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.00	0.00
2	1.01	51.10	92.17
3	1.51	120.20	57.49
4	2.01	167.90	28.41
5	2.50	187.50	10.45
6	3.00	194.50	3.60
7	3.50	198.40	1.97
8	4.00	200.40	1.00
9	4.50	202.00	0.79
10	5.00	203.30	0.64
11	5.50	204.20	0.44
12	6.00	205.10	0.44
13	6.50	205.80	0.34
14	7.00	206.40	0.29
15	7.50	207.30	0.43
16	8.00	207.80	0.24
17	8.50	208.30	0.24
18	9.00	208.70	0.19
19	9.50	209.20	0.24
20	10.00	209.60	0.19
21	10.50	210.00	0.19
22	11.00	210.30	0.14

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(210.3 - 30.02683)(1)/(137) = +1.316E+00 g/L Carbon
(210.3 - 30.02683)(1)/(137)(12) = +1.097E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970DUP Date: 10/28/95 Time: 18:07:44

Sample Size = ~~180 ul~~ 1180 5 JS 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = .73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	27.80	97.84
3	1.51	124.20	77.62
4	2.01	225.70	44.97
5	2.51	297.20	24.06
6	3.01	338.00	12.07
7	3.51	357.60	5.48
8	4.01	366.30	2.38
9	4.50	370.40	1.11
10	5.00	372.90	0.67
11	5.50	374.40	0.40
12	6.00	375.70	0.35
13	6.50	376.80	0.29
14	7.00	377.60	0.21
15	7.50	378.50	0.24
16	8.00	379.20	0.18
17	8.50	380.00	0.21
18	9.00	380.50	0.13
19	9.50	381.20	0.18
20	10.00	381.70	0.13
21	10.50	382.30	0.16
22	11.00	382.90	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 8.02844 micrograms carbon
BLANK FACTOR = 8.02844 / 10.99786 = +7.3E-01 ug/min Carbon

SAMPLE RESULTS:
(382.9 - 8.031248)(1)/(180) = +2.083E+00 g/L Carbon
(382.9 - 8.031248)(1)/(180)(12) = +1.736E-01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S95T001970DUP Date: 10/28/95 Time: 19:25:13

Sample Size = ~~180 uL~~ 1180 5 10-28-95
Dil Factor = 1
Blank ID # =
Blank Value = 2.73 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.20	0.00
2	1.01	49.30	91.48
3	1.51	112.60	56.22
4	2.00	157.90	28.69
5	2.50	178.70	11.64
6	3.00	187.20	4.54
7	3.50	191.20	2.09
8	4.00	193.90	1.39
9	4.50	195.40	0.77
10	5.00	196.80	0.71
11	5.50	197.80	0.51
12	6.00	198.90	0.55
13	6.50	200.00	0.55
14	7.00	201.10	0.55
15	7.50	201.60	0.25
16	8.00	202.30	0.35
17	8.50	202.90	0.30
18	9.00	203.40	0.25
19	9.50	204.00	0.29
20	10.00	204.40	0.20
21	10.50	204.80	0.20
22	11.00	205.20	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 30.02417 micrograms carbon
BLANK FACTOR = 30.02417 / 10.99786 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(205.2 - 30.029)(1)/(180) = +9.732E-01 g/L Carbon
(205.2 - 30.029)(1)/(180)(12) = +8.110E-02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
JD SPELLMAN 00000

LABCORE Data Entry Template for Worklist# 2980

Analyst: KRM **Instrument:** TOC02 **Book #** 16N12B

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 (include TIC data, spike only the TOC)

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	4.1	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.71E3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T001971	0		TOC-02	SOLID	N/A	6.55E3	40.0	ug/g
95000118	BY-108 (R)	4	DUP	S95T001971	0		TOC-02	SOLID	6.55E3	6.24E3	N/A	ug/g
95000118	BY-108 (R)	5	SPK	S95T001971	0		TOC-02	SOLID	100	94.7	N/A	ug/g
95000118	BY-108 (R)	6	SAMPLE	S95T001972	0		TOC-02	SOLID	N/A	4.76E3	40.0	ug/g
95000118	BY-108 (R)	7	DUP	S95T001972	0		TOC-02	SOLID	4.76E3	4.97E3	N/A	ug/g
95000118	BY-108 (R)	8	SAMPLE	S95T001978	0		TOC-02	SOLID	N/A	7.72E3	40.0	ug/g
95000118	BY-108 (R)	9	DUP	S95T001978	0		TOC-02	SOLID	7.72E3	7.58E3	N/A	ug/g

Final page for worklist # 2980

[signature] 10-29-95
Analyst Signature **Date**

[signature] 11-1-95
Analyst Signature **Date**

Reviewed RW Schroeder 11/6/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/29/95 Time: 00:29:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.30	33.33
3	1.51	0.50	40.00
4	2.01	0.80	37.50
5	2.50	1.00	20.00
6	3.00	1.10	9.09
7	3.50	1.20	8.33
8	4.00	1.30	7.69
9	4.50	1.50	13.33
10	5.00	1.60	6.25
11	5.50	1.60	0.00
12	6.00	1.70	5.88
13	6.50	1.80	5.56
14	7.00	1.80	0.00
15	7.50	1.90	5.26
16	8.00	2.00	5.00
17	8.50	2.10	4.76
18	9.00	2.20	4.55
19	9.50	2.20	0.00
20	10.00	2.30	4.35
21	10.50	2.30	0.00
22	11.00	2.50	8.00

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 801 **TO** 820.

BLANK VALUE = 2.5 micrograms carbon
BLANK FACTOR = 2.5 / 10.99967 = +2.3E-01 ug/min Carbon

Sample Run By: KR MONTEITH 00000 10-29-95

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/29/95 Time: 00:41:11

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	0.00	0.00
3	1.50	1.90	100.00
4	2.00	4.90	61.22
5	2.50	7.10	30.99
6	3.00	8.50	16.47
7	3.50	9.70	12.37
8	4.00	10.40	6.73
9	4.50	10.70	2.80
10	5.00	11.10	3.60
11	5.50	11.30	1.77
12	6.00	11.80	4.24
13	6.50	12.20	3.28
14	7.00	12.70	3.94
15	7.50	12.70	0.00
16	8.00	12.90	1.55
17	8.50	13.00	0.77
18	9.00	13.90	6.47
19	9.50	16.30	14.72
20	10.00	18.00	9.44
21	10.50	19.00	5.26
22	11.00	19.60	3.06

BLANK VALUE = 19.6 micrograms carbon
BLANK FACTOR = 19.6 / 10.99783 = +1.78E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/29/95 Time: 00:53:32

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	0.00	0.00
2	1.01	32.20	100.00
3	1.50	220.90	85.42
4	2.00	401.40	44.97
5	2.50	493.40	18.65
6	3.00	538.00	8.29
7	3.50	554.40	2.96
8	4.00	559.80	0.96
9	4.50	562.10	0.41
10	5.00	563.50	0.25
11	5.50	564.50	0.18
12	6.00	565.20	0.12
13	6.50	565.90	0.12
14	7.00	566.40	0.09
15	7.50	567.00	0.11
16	8.00	567.50	0.09
17	8.50	568.30	0.14
18	9.00	569.00	0.12
19	9.50	569.50	0.09
20	10.00	569.80	0.05
21	10.50	570.20	0.07
22	11.00	570.50	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(570.5 - 2.529962)(1)/(1000) = +5.680E-01 g/L Carbon
(570.5 - 2.529962)(1)/(1000)(12) = +4.733E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/29/95 Time: 02:18:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	6.30	100.00
3	1.51	72.40	91.30
4	2.00	256.40	71.76
5	2.50	499.10	48.63
6	3.00	673.70	25.92
7	3.50	758.30	11.16
8	4.00	798.10	4.99
9	4.50	811.70	1.68
10	5.00	817.30	0.69
11	5.50	820.40	0.38
12	6.00	822.10	0.21
13	6.50	824.10	0.24
14	7.00	825.50	0.17
15	7.50	826.70	0.15
16	8.00	827.90	0.14
17	8.50	828.90	0.12
18	9.00	829.80	0.11
19	9.50	830.50	0.08
20	10.00	831.20	0.08
21	10.50	831.80	0.07
22	11.00	832.40	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(832.4 - 19.57615)(1)/(1)300 = ~~+8.128E+02~~ 2.71E+0 g/L Carbon
(832.4 - 19.57615)(1)/(1)(12) = +6.774E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/29/95 Time: 02:30:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.00	100.00
3	1.51	2.10	52.38
4	2.00	2.50	16.00
5	2.50	2.80	10.71
6	3.00	3.10	9.68
7	3.50	3.20	3.13
8	4.00	3.40	5.88
9	4.50	3.50	2.86
10	5.00	3.70	5.41
11	5.50	3.80	2.63
12	6.00	3.90	2.56
13	6.50	4.10	4.88
14	7.00	4.20	2.38
15	7.50	4.30	2.33
16	8.00	4.40	2.27
17	8.50	4.60	4.35
18	9.00	4.70	2.13
19	9.50	4.80	2.08
20	10.00	4.90	2.04
21	10.50	5.00	2.00
22	11.00	5.10	1.96

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(5.1 - 2.529961)(1)/(1) = +2.6E+00 g/L Carbon
(5.1 - 2.529961)(1)/(1)(12) = +2.1E-01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/29/95 Time: 02:42:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.00	100.00
3	1.50	3.60	72.22
4	2.00	6.70	46.27
5	2.50	8.60	22.09
6	3.00	9.90	13.13
7	3.50	10.70	7.48
8	4.00	11.20	4.46
9	4.50	11.70	4.27
10	5.00	12.20	4.10
11	5.50	12.50	2.40
12	6.00	12.80	2.34
13	6.50	13.20	3.03
14	7.00	13.50	2.22
15	7.50	13.80	2.17
16	8.00	14.00	1.43
17	8.50	14.30	2.10
18	9.00	14.60	2.05
19	9.50	14.80	1.35
20	10.00	15.00	1.33
21	10.50	15.30	1.96
22	11.00	15.50	1.29

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(15.5 - 19.58266)(1)/(1) = < 5.00 E-3 g/L Carbon
(15.5 - 19.58266)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 Date: 10/29/95 Time: 02:54:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	2.20	100.00
3	1.51	23.70	90.72
4	2.00	77.10	69.26
5	2.50	142.00	45.70
6	3.00	211.40	32.83
7	3.50	275.10	23.16
8	4.00	322.70	14.75
9	4.50	351.60	8.22
10	5.00	367.30	4.27
11	5.50	375.00	2.05
12	6.00	379.30	1.13
13	6.50	381.60	0.60
14	7.00	383.20	0.42
15	7.50	384.70	0.39
16	8.00	385.80	0.29
17	8.50	386.90	0.28
18	9.00	387.80	0.23
19	9.50	388.70	0.23
20	10.00	389.80	0.28
21	10.50	390.70	0.23
22	11.00	391.70	0.26

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(391.7 - 2.530154)(1)/(1) = +3.892E+02 g/L Carbon
(391.7 - 2.530154)(1)/(1)(12) = +3.243E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 Date: 10/29/95 Time: 03:06:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.30	0.00
2	1.01	37.80	96.56
3	1.50	154.90	75.60
4	2.00	279.30	44.54
5	2.50	376.20	25.76
6	3.00	448.00	16.03
7	3.50	497.60	9.97
8	4.00	528.50	5.85
9	4.50	546.80	3.35
10	5.00	558.50	2.09
11	5.50	567.70	1.62
12	6.00	574.60	1.20
13	6.50	580.10	0.95
14	7.00	585.40	0.91
15	7.50	589.20	0.64
16	8.00	593.10	0.66
17	8.50	595.70	0.44
18	9.00	598.10	0.40
19	9.50	600.50	0.40
20	10.00	602.20	0.28
21	10.50	604.00	0.30
22	11.00	605.70	0.28

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(605.7 - 19.58119)(1)/(1) = +5.861E+02 g/L Carbon
(605.7 - 19.58119)(1)/(1)(12) = +4.884E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

808

$\frac{586.1\ \mu g\ C}{.0895\ g} = 6.55 \times 10^{3}\ \mu g/g\ C$

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 D Date: 10/29/95 Time: 03:18:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	6.00	80.00
3	1.50	50.00	88.00
4	2.00	128.90	61.21
5	2.50	203.40	36.63
6	3.01	273.90	25.74
7	3.51	334.70	18.17
8	4.00	394.00	15.05
9	4.50	437.80	10.00
10	5.00	461.80	5.20
11	5.50	472.90	2.35
12	6.00	478.20	1.11
13	6.50	481.60	0.71
14	7.00	483.40	0.37
15	7.50	484.90	0.31
16	8.00	486.10	0.25
17	8.50	487.40	0.27
18	9.00	488.40	0.20
19	9.50	489.60	0.25
20	10.00	490.60	0.20
21	10.50	491.60	0.20
22	11.00	492.40	0.16

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(492.4 - 2.529923)(1)/(1) = +4.899E+02 g/L Carbon
(492.4 - 2.529923)(1)/(1)(12) = +4.082E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 19711 D Date: 10/29/95 Time: 03:30:52

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	1.70	0.00
2	1.01	46.00	96.30
3	1.50	171.50	73.18
4	2.00	293.60	41.59
5	2.50	370.00	20.65
6	3.00	394.70	6.26
7	3.50	398.20	0.88
8	4.00	399.40	0.30
9	4.50	500.20	20.15
10	5.00	539.00	7.20
11	5.50	551.20	2.21
12	6.00	565.60	2.55
13	6.50	581.30	2.70
14	7.00	581.30	0.00
15	7.50	581.30	0.00
16	8.00	581.40	0.02
17	8.50	588.20	1.16
18	9.00	593.90	0.96
19	9.50	598.00	0.69
20	10.00	600.30	0.38
21	10.50	600.90	0.10
22	11.00	600.90	0.00

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(600.9 - 19.57644)(1)/(1) = +5.813E+02 g/L Carbon
(600.9 - 19.57644)(1)/(1)(12) = +4.844E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{581.3\ \mu g\ C}{.0931\ g} = 6.24E3\ \mu g/g\ C$

810

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 + SPK Date: 10/29/95 Time: 03:46:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	6.70	0.00
2	1.01	13.60	50.74
3	1.50	33.90	59.88
4	2.00	90.30	62.46
5	2.50	173.20	47.86
6	3.00	261.30	33.72
7	3.50	337.40	22.55
8	4.00	390.50	13.60
9	4.50	419.50	6.91
10	5.00	433.70	3.27
11	5.50	440.40	1.52
12	6.00	444.20	0.86
13	6.50	446.80	0.58
14	7.00	448.90	0.47
15	7.50	450.30	0.31
16	8.00	451.50	0.27
17	8.50	452.80	0.29
18	9.00	453.90	0.24
19	9.50	455.10	0.26
20	10.00	455.90	0.18
21	10.50	456.90	0.22
22	11.00	457.90	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(457.9 - 2.530154)(1)/(1) = +4.554E+02 g/L Carbon
(457.9 - 2.530154)(1)/(1)(12) = +3.795E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHO-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1971 + SPK Date: 10/29/95 Time: 03:59:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.00	32.70	96.33
3	1.51	160.50	79.63
4	2.01	322.70	50.26
5	2.51	503.70	35.93
6	3.01	653.20	22.89
7	3.50	748.30	12.71
8	4.00	811.20	7.75
9	4.50	850.60	4.63
10	5.00	873.40	2.61
11	5.50	888.10	1.66
12	6.00	898.80	1.19
13	6.50	907.50	0.96
14	7.00	915.10	0.83
15	7.50	921.20	0.66
16	8.00	926.70	0.59
17	8.50	931.60	0.53
18	9.00	935.70	0.44
19	9.50	939.70	0.43
20	10.00	943.30	0.38
21	10.50	946.70	0.36
22	11.00	949.60	0.31

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(949.6 - 19.58266)(1)/(1) = +9.300E+02 g/L Carbon
(949.6 - 19.58266)(1)/(1)(12) = +7.750E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

949.6 / [~~669~~ (605.7/.0895) .1039 + 300] = 94.7 % Rec 812

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:11:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	2.20	0.00
2	1.01	14.50	84.83
3	1.50	134.80	89.24
4	2.00	335.50	59.82
5	2.50	521.40	35.65
6	3.00	622.80	16.28
7	3.50	680.50	8.48
8	4.00	705.90	3.60
9	4.50	714.90	1.26
10	5.00	719.20	0.60
11	5.50	722.40	0.44
12	6.00	725.20	0.39
13	6.50	727.60	0.33
14	7.00	730.00	0.33
15	7.50	732.60	0.35
16	8.00	735.00	0.33
17	8.50	737.40	0.33
18	9.00	739.50	0.28
19	9.50	741.60	0.28
20	10.00	743.50	0.26
21	10.50	745.80	0.31
22	11.00	748.10	0.31

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(748.1 - 2.529923)(1)/(1) = +7.456E+02 g/L Carbon
(748.1 - 2.529923)(1)/(1)(12) = +6.213E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:23:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.40	0.00
2	1.00	48.60	95.06
3	1.50	145.00	66.48
4	2.00	223.00	34.98
5	2.50	268.70	17.01
6	3.00	287.80	6.64
7	3.50	296.30	2.87
8	4.00	300.90	1.53
9	4.50	303.90	0.99
10	5.00	306.40	0.82
11	5.50	308.50	0.68
12	6.00	310.00	0.48
13	6.50	311.60	0.51
14	7.00	313.00	0.45
15	7.50	314.40	0.45
16	8.00	315.70	0.41
17	8.50	316.70	0.32
18	9.00	317.70	0.31
19	9.50	318.60	0.28
20	10.00	319.40	0.25
21	10.50	320.20	0.25
22	11.00	320.90	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(320.9 - 19.57612)(1)/(1) = +3.013E+02 g/L Carbon
(320.9 - 19.57612)(1)/(1)(12) = +2.511E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{301.3\ \mu gC}{.0633\ \mu g} = 4.76E^{3}\ \mu gC/g$

RWS 10/31/95

814

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 04:35:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	0.10	0.00
2	1.01	15.10	99.34
3	1.50	168.80	91.05
4	2.00	393.30	57.08
5	2.50	561.60	29.97
6	3.00	654.20	14.15
7	3.50	707.40	7.52
8	4.00	731.00	3.23
9	4.50	739.90	1.20
10	5.00	744.40	0.60
11	5.50	747.30	0.39
12	6.00	749.80	0.33
13	6.50	752.40	0.35
14	7.00	755.00	0.34
15	7.50	757.70	0.36
16	8.00	760.30	0.34
17	8.50	763.00	0.35
18	9.00	765.40	0.31
19	9.50	767.80	0.31
20	10.00	770.20	0.31
21	10.50	772.20	0.26
22	11.00	774.40	0.28

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(774.4 - 2.529916)(1)/(1) = +7.719E+02 g/L Carbon
(774.4 - 2.529916)(1)/(1)(12) = +6.432E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1972 Date: 10/29/95 Time: 06:19:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.80	0.00
2	1.01	40.40	95.54
3	1.50	174.50	76.85
4	2.00	264.40	34.00
5	2.50	318.00	16.86
6	3.00	342.50	7.15
7	3.50	352.50	2.84
8	4.00	357.80	1.48
9	4.50	361.90	1.13
10	5.00	364.30	0.66
11	5.50	366.90	0.71
12	6.00	368.50	0.43
13	6.50	370.10	0.43
14	7.00	371.50	0.38
15	7.50	372.70	0.32
16	8.00	373.70	0.27
17	8.50	374.70	0.27
18	9.00	375.60	0.24
19	9.50	376.30	0.19
20	10.00	377.00	0.19
21	10.50	377.60	0.16
22	11.00	378.30	0.19

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(378.3 - 19.57973)(1)/(1) = +3.587E+02 g/L Carbon
(378.3 - 19.57973)(1)/(1)(12) = +2.989E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{358.7\ \mu g\ C}{.0722\ g} = 4.97 \times 10^{3}\ \mu g/g$

816

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:33:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	3.50	100.00
3	1.50	34.20	89.77
4	2.00	104.30	67.21
5	2.50	197.40	47.16
6	3.00	274.40	28.06
7	3.50	323.50	15.18
8	4.00	347.70	6.96
9	4.50	357.60	2.77
10	5.00	362.00	1.22
11	5.50	365.00	0.82
12	6.00	367.40	0.65
13	6.50	369.50	0.57
14	7.00	371.50	0.54
15	7.50	373.60	0.56
16	8.00	376.60	0.80
17	8.50	380.70	1.08
18	9.00	385.80	1.32
19	9.50	390.80	1.28
20	10.00	396.60	1.46
21	10.50	402.10	1.37
22	11.00	407.50	1.33

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(407.5 - 2.529544)(1)/(1) = +4.050E+02 g/L Carbon
(407.5 - 2.529544)(1)/(1)(12) = +3.375E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:45:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	4.70	0.00
2	1.01	27.70	83.03
3	1.50	97.80	71.68
4	2.00	201.10	51.37
5	2.50	294.80	31.78
6	3.00	361.80	18.52
7	3.50	409.40	11.63
8	4.00	442.00	7.38
9	4.50	463.20	4.58
10	5.00	478.80	3.26
11	5.50	490.60	2.41
12	6.00	499.80	1.84
13	6.50	507.70	1.56
14	7.00	513.90	1.21
15	7.50	519.40	1.06
16	8.00	524.20	0.92
17	8.50	528.30	0.78
18	9.00	532.30	0.75
19	9.50	535.30	0.56
20	10.00	538.00	0.50
21	10.50	540.50	0.46
22	11.00	543.10	0.48

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(543.1 - 19.57794)(1)/(1) = +5.235E+02 g/L Carbon
(543.1 - 19.57794)(1)/(1)(12) = +4.363E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{523.5\ mg\ C}{.0678\ g} = 7.72E^{3}\ \mu g\ C/g$

818

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 06:58:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .23 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.40	0.00
2	1.01	5.00	52.00
3	1.51	21.40	76.64
4	2.01	66.40	67.77
5	2.51	138.60	52.09
6	3.01	224.70	38.32
7	3.51	284.60	21.05
8	4.00	317.40	10.33
9	4.50	330.30	3.91
10	5.00	336.50	1.84
11	5.50	340.40	1.15
12	6.00	343.60	0.93
13	6.50	346.00	0.69
14	7.00	348.30	0.66
15	7.50	350.20	0.54
16	8.00	351.90	0.48
17	8.50	353.50	0.45
18	9.00	355.10	0.45
19	9.50	356.50	0.39
20	10.00	357.80	0.36
21	10.50	359.30	0.42
22	11.00	361.00	0.47

USER INPUT BLANK VALUE
BLANK VALUE = 2.529502 micrograms carbon
BLANK FACTOR = 2.529502 / 10.99783 = +2.3E-01 ug/min Carbon

SAMPLE RESULTS:
(361 - 2.529916)(1)/(1) = +3.585E+02 g/L Carbon
(361 - 2.529916)(1)/(1)(12) = +2.987E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1978 Date: 10/29/95 Time: 07:10:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.78 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.00	0.00
2	1.01	22.00	90.91
3	1.51	86.70	74.63
4	2.01	222.20	60.98
5	2.50	349.50	36.42
6	3.00	439.00	20.39
7	3.51	506.90	13.40
8	4.00	554.90	8.65
9	4.50	587.50	5.55
10	5.00	608.30	3.42
11	5.50	623.80	2.48
12	6.00	635.80	1.89
13	6.50	645.90	1.56
14	7.00	653.90	1.22
15	7.50	660.80	1.04
16	8.00	666.90	0.91
17	8.50	671.80	0.73
18	9.00	676.30	0.67
19	9.50	680.30	0.59
20	10.00	684.00	0.54
21	10.50	687.00	0.44
22	11.00	690.10	0.45

USER INPUT BLANK VALUE
BLANK VALUE = 19.57614 micrograms carbon
BLANK FACTOR = 19.57614 / 10.99783 = +1.8E+00 ug/min Carbon

SAMPLE RESULTS:
(690.1 - 19.57794)(1)/(1) = +6.705E+02 g/L Carbon
(690.1 - 19.57794)(1)/(1)(12) = +5.588E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{670.5\ \text{mgC}}{.0885\ \text{g}} = 7.58 \times 10^{3}\ \text{mgC/g}$

820

worklistrpt Version 2.1 05/15/95
10/23/95 23:10

LABCORE Data Entry Template for Worklist# 3009

Analyst: KRM **Instrument:** TIC01 **Book #** 16N12B

Method: LA-342-100 Rev/Mod C-O

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	5.6	N/A	ug/g
		2	STD				TOC-02	SOLID	3.00E3	2.88E3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T001973	0		TOC-02	SOLID	N/A	2.30E3		ug/g
95000118	BY-108 (R)	4	DUP	S95T001973	0		TOC-02	SOLID	2.30E3	2.81E3	N/A	ug/g
95000118	BY-108 (R)	5	SPK	S95T001973	0		TOC-02	SOLID	100	104	N/A	ug/g
95000118	BY-108 (R)	6	SAMPLE	S95T001974	0		TOC-02	SOLID	N/A	2.67E3		ug/g
95000118	BY-108 (R)	7	DUP	S95T001974	0		TOC-02	SOLID	2.67E3	2.21E3	N/A	ug/g

Final page for worklist # 3009

Analyst Signature Date 10-23-95

Analyst Signature Date 10-24-95

Reviewed RW Schroeder 10/26/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/23/95 Time: 18:35:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.30	100.00
3	1.50	1.00	70.00
4	2.00	1.40	28.57
5	2.50	1.80	22.22
6	3.00	1.90	5.26
7	3.50	2.10	9.52
8	4.00	2.20	4.55
9	4.50	2.30	4.35
10	5.00	2.40	4.17
11	5.50	2.50	4.00
12	6.00	2.60	3.85
13	6.50	2.60	0.00
14	7.00	2.60	0.00
15	7.50	2.70	3.70
16	8.00	2.80	3.57
17	8.50	2.90	3.45
18	9.00	2.90	0.00
19	9.50	3.00	3.33
20	10.00	3.00	0.00
21	10.50	3.10	3.23
22	11.00	3.10	0.00

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 822 **TO** 834.

BLANK VALUE = 3.1 micrograms carbon
BLANK FACTOR = 3.1 / 10.99988 = +2.8E-01 ug/min Carbon

Sample Run By: [signature] 10-23-95
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 10/23/95 Time: 18:46:51

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	0.00	0.00
3	1.51	4.80	100.00
4	2.01	16.40	70.73
5	2.50	25.40	35.43
6	3.00	31.10	18.33
7	3.50	34.90	10.89
8	4.00	37.70	7.43
9	4.50	39.80	5.28
10	5.00	41.40	3.86
11	5.50	42.90	3.50
12	6.00	44.10	2.72
13	6.50	45.30	2.65
14	7.00	46.30	2.16
15	7.50	47.20	1.91
16	8.00	48.00	1.67
17	8.50	48.70	1.44
18	9.00	49.30	1.22
19	9.50	49.70	0.80
20	10.00	50.20	1.00
21	10.50	50.70	0.99
22	11.00	51.00	0.59

BLANK VALUE = 51 micrograms carbon
BLANK FACTOR = 51 / 11.00061 = +4.64E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/23/95 Time: 18:58:57

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.20	0.00
2	1.01	0.40	50.00
3	1.51	2.60	84.62
4	2.01	28.50	90.88
5	2.51	90.60	68.54
6	3.01	164.50	44.92
7	3.51	243.60	32.47
8	4.01	303.30	19.68
9	4.51	333.50	9.06
10	5.01	347.40	4.00
11	5.51	353.70	1.78
12	6.01	355.50	0.51
13	6.51	357.40	0.53
14	7.00	358.70	0.36
15	7.50	359.60	0.25
16	8.00	360.40	0.22
17	8.50	361.10	0.19
18	9.00	361.60	0.14
19	9.50	362.00	0.11
20	10.00	362.40	0.11
21	10.50	362.80	0.11
22	11.00	363.10	0.08

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(363.1 - 3.080684)(1)/(1000) = +3.600E-01 g/L Carbon
(363.1 - 3.080684)(1)/(1000)(12) = +3.000E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 10/23/95 Time: 19:10:54

Sample Size = 300 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	0.20	0.00
2	1.01	25.00	99.20
3	1.51	186.80	86.62
4	2.00	525.40	64.45
5	2.50	753.10	30.24
6	3.00	841.90	10.55
7	3.50	880.50	4.38
8	4.00	893.40	1.44
9	4.50	898.60	0.58
10	5.00	902.00	0.38
11	5.50	904.10	0.23
12	6.00	906.10	0.22
13	6.50	907.60	0.17
14	7.00	908.90	0.14
15	7.50	910.00	0.12
16	8.00	910.90	0.10
17	8.50	911.90	0.11
18	9.00	912.70	0.09
19	9.50	913.50	0.09
20	10.00	914.10	0.07
21	10.50	914.70	0.07
22	11.00	915.30	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(915.3 - 51.03943)(1)/(300) = +2.881E+00 g/L Carbon
(915.3 - 51.03943)(1)/(300)(12) = +2.401E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/23/95 Time: 19:22:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.80	77.78
3	1.51	3.30	45.45
4	2.00	4.40	25.00
5	2.50	4.90	10.20
6	3.00	5.40	9.26
7	3.50	5.70	5.26
8	4.00	5.90	3.39
9	4.50	6.20	4.84
10	5.00	6.30	1.59
11	5.50	6.60	4.55
12	6.00	6.80	2.94
13	6.50	7.00	2.86
14	7.00	7.20	2.78
15	7.50	7.30	1.37
16	8.00	7.50	2.67
17	8.50	7.70	2.60
18	9.00	7.80	1.28
19	9.50	8.00	2.50
20	10.00	8.10	1.23
21	10.50	8.30	2.41
22	11.00	8.40	1.19

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(8.4 - 3.080205)(1)/(1) = +5.3E+00 g/L Carbon
(8.4 - 3.080205)(1)/(1)(12) = +4.4E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 10/23/95 Time: 19:34:58

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 4.64 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	2.30	100.00
3	1.50	12.30	81.30
4	2.00	23.70	48.10
5	2.50	30.60	22.55
6	3.00	34.40	11.05
7	3.50	36.60	6.01
8	4.00	37.90	3.43
9	4.50	38.90	2.57
10	5.00	39.80	2.26
11	5.50	40.50	1.73
12	6.00	41.40	2.17
13	6.50	42.00	1.43
14	7.00	42.50	1.18
15	7.50	43.10	1.39
16	8.00	43.50	0.92
17	8.50	43.90	0.91
18	9.00	44.30	0.90
19	9.50	44.60	0.67
20	10.00	44.90	0.67
21	10.50	45.20	0.66
22	11.00	45.40	0.44

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(45.4 - 51.04283)(1)/(1) = < 5.00 E-3 g/L Carbon
(45.4 - 51.04283)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

45.4 - 51.0 = -5.6

827

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 19:46:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.10	0.00
2	1.01	4.70	97.87
3	1.51	207.10	97.73
4	2.00	817.20	74.66
5	2.50	1327.30	38.43
6	3.00	1593.40	16.70
7	3.50	1715.80	7.13
8	4.00	1782.70	3.75
9	4.50	1811.70	1.60
10	5.00	1822.80	0.61
11	5.50	1828.80	0.33
12	6.00	1832.10	0.18
13	6.50	1834.90	0.15
14	7.00	1837.00	0.11
15	7.50	1838.60	0.09
16	8.00	1840.00	0.08
17	8.50	1841.30	0.07
18	9.00	1842.40	0.06
19	9.50	1843.40	0.05
20	10.00	1844.40	0.05
21	10.50	1845.30	0.05
22	11.00	1846.00	0.04

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(1846 - 3.079897)(1)/(1) = +1.8429E+03 g/L Carbon
(1846 - 3.079897)(1)/(1)(12) = +1.5358E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:16:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.70	0.00
2	1.01	49.70	98.59
3	1.50	207.10	76.00
4	2.00	335.50	38.27
5	2.50	406.50	17.47
6	3.00	437.20	7.02
7	3.50	449.80	2.80
8	4.00	456.30	1.42
9	4.50	460.50	0.91
10	5.00	463.40	0.63
11	5.50	465.80	0.52
12	6.00	468.00	0.47
13	6.50	470.00	0.43
14	7.00	471.30	0.28
15	7.50	472.50	0.25
16	8.00	473.50	0.21
17	8.50	474.30	0.17
18	9.00	475.20	0.19
19	9.50	475.90	0.15
20	10.00	476.60	0.15
21	10.50	477.10	0.10
22	11.00	477.90	0.17

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(477.9 - 51.04283)(1)/(1) = +4.269E+02 g/L Carbon
(477.9 - 51.04283)(1)/(1)(12) = +3.557E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{426.9}{.1854} = 2.30_E{}^3$ 829

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:29:44

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	26.80	100.00
3	1.51	162.20	83.48
4	2.00	447.30	63.74
5	2.50	713.30	37.29
6	3.00	916.10	22.14
7	3.50	1059.40	13.53
8	4.00	1157.20	8.45
9	4.50	1222.50	5.34
10	5.00	1259.10	2.91
11	5.50	1275.80	1.31
12	6.00	1284.30	0.66
13	6.50	1289.40	0.40
14	7.00	1292.90	0.27
15	7.50	1295.50	0.20
16	8.00	1297.70	0.17
17	8.50	1299.60	0.15
18	9.00	1301.10	0.12
19	9.50	1302.50	0.11
20	10.00	1303.70	0.09
21	10.50	1304.80	0.08
22	11.00	1306.00	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(1306 - 3.080444)(1)/(1) = +1.3029E+03 g/L Carbon
(1306 - 3.080444)(1)/(1)(12) = +1.0858E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 Date: 10/23/95 Time: 21:41:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.20	0.00
2	1.01	108.00	97.96
3	1.50	363.10	70.26
4	2.00	479.00	24.20
5	2.50	531.70	9.91
6	3.00	550.60	3.43
7	3.51	559.00	1.50
8	4.00	564.40	0.96
9	4.50	567.80	0.60
10	5.00	570.40	0.46
11	5.50	572.60	0.38
12	6.00	574.30	0.30
13	6.50	575.60	0.23
14	7.00	576.90	0.23
15	7.50	578.20	0.22
16	8.00	579.10	0.16
17	8.50	580.00	0.16
18	9.00	581.00	0.17
19	9.50	581.90	0.15
20	10.00	582.70	0.14
21	10.50	583.30	0.10
22	11.00	583.90	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(583.9 - 51.04283)(1)/(1) = +5.329E+02 g/L Carbon
(583.9 - 51.04283)(1)/(1)(12) = +4.440E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

532.9
~~.1881~~ ~~2.8~~ 2.81E3
.1899 km

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 + SPK Date: 10/23/95 Time: 21:53:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	18.60	96.77
3	1.50	349.80	94.68
4	2.00	1082.70	67.69
5	2.50	1672.20	35.25
6	3.00	1939.40	13.78
7	3.50	2068.50	6.24
8	4.00	2138.60	3.28
9	4.50	2173.40	1.60
10	5.00	2187.40	0.64
11	5.50	2195.10	0.35
12	6.00	2200.00	0.22
13	6.50	2204.00	0.18
14	7.00	2206.80	0.13
15	7.50	2209.30	0.11
16	8.00	2211.60	0.10
17	8.50	2213.50	0.09
18	9.00	2215.20	0.08
19	9.50	2216.80	0.07
20	10.00	2218.10	0.06
21	10.50	2219.30	0.05
22	11.00	2220.60	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(2220.6 - 3.079932)(1)/(1) = +2.2175E+03 g/L Carbon
(2220.6 - 3.079932)(1)/(1)(12) = +1.8479E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1973 + SPK Date: 10/23/95 Time: 22:05:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.30	0.00
2	1.01	64.80	97.99
3	1.50	294.00	77.96
4	2.00	531.60	44.70
5	2.50	645.50	17.65
6	3.00	702.70	8.14
7	3.50	725.20	3.10
8	4.00	735.10	1.35
9	4.50	741.90	0.92
10	5.00	746.20	0.58
11	5.50	749.40	0.43
12	6.00	751.90	0.33
13	6.50	754.00	0.28
14	7.00	755.50	0.20
15	7.50	757.00	0.20
16	8.00	758.50	0.20
17	8.50	760.00	0.20
18	9.00	761.30	0.17
19	9.50	762.40	0.14
20	10.00	763.50	0.14
21	10.50	764.30	0.10
22	11.00	765.00	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(765 - 51.0383)(1)/(1) = +7.140E+02 g/L Carbon
(765 - 51.0383)(1)/(1)(12) = +5.950E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

765.0

$\left[\left(\frac{477.9}{.1854}\right).1694 + 300\right]$ = 104 % Rec 833

WHC-SD-WM-DP-145, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:17:40

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.70	0.00
2	1.01	5.80	87.93
3	1.51	26.30	77.95
4	2.01	76.70	65.71
5	2.50	150.00	48.87
6	3.00	247.70	39.44
7	3.50	362.40	31.65
8	4.00	481.40	24.72
9	4.50	579.80	16.97
10	5.00	653.90	11.33
11	5.50	702.00	6.85
12	6.00	726.70	3.40
13	6.50	739.40	1.72
14	7.00	747.20	1.04
15	7.50	752.70	0.73
16	8.00	756.70	0.53
17	8.50	760.30	0.47
18	9.00	763.20	0.38
19	9.50	765.60	0.31
20	10.00	768.00	0.31
21	10.50	770.00	0.26
22	11.00	771.70	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(771.7 - 3.079419)(1)/(1) = +7.686E+02 g/L Carbon
(771.7 - 3.079419)(1)/(1)(12) = +6.405E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:29:35

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	2.30	0.00
2	1.01	62.50	96.32
3	1.51	279.00	77.60
4	2.00	409.40	31.85
5	2.50	475.10	13.83
6	3.00	505.20	5.96
7	3.50	518.00	2.47
8	4.00	525.90	1.50
9	4.50	531.50	1.05
10	5.00	535.60	0.77
11	5.50	539.70	0.76
12	6.00	543.50	0.70
13	6.50	546.00	0.46
14	7.00	547.90	0.35
15	7.50	549.60	0.31
16	8.00	551.10	0.27
17	8.50	552.30	0.22
18	9.00	553.30	0.18
19	9.50	554.40	0.20
20	10.00	555.30	0.16
21	10.50	556.10	0.14
22	11.00	557.20	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(557.2 - 51.03886)(1)/(1) = +5.062E+02 g/L Carbon
(557.2 - 51.03886)(1)/(1)(12) = +4.218E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

835

$\frac{506.2}{.1895} = 2.67E^{3}$

WHC-SD-WM-DP-145, REV.1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:41:59

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .28 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	6.00	81.67
3	1.51	171.90	96.51
4	2.00	728.20	76.39
5	2.50	1178.00	38.18
6	3.00	1436.50	18.00
7	3.50	1571.40	8.58
8	4.00	1654.90	5.05
9	4.50	1704.40	2.90
10	5.00	1727.50	1.34
11	5.50	1739.30	0.68
12	6.00	1747.70	0.48
13	6.50	1754.20	0.37
14	7.00	1759.40	0.30
15	7.50	1763.80	0.25
16	8.00	1767.40	0.20
17	8.50	1770.60	0.18
18	9.00	1773.40	0.16
19	9.50	1775.90	0.14
20	10.00	1778.10	0.12
21	10.50	1780.20	0.12
22	11.00	1782.00	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 3.080171 micrograms carbon
BLANK FACTOR = 3.080171 / 11.00061 = +2.8E-01 ug/min Carbon

SAMPLE RESULTS:
(1782 - 3.079453)(1)/(1) = +1.7789E+03 g/L Carbon
(1782 - 3.079453)(1)/(1)(12) = +1.4824E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1974 Date: 10/23/95 Time: 22:58:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.64 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.90	0.00
2	1.01	17.00	77.06
3	1.51	54.70	68.92
4	2.01	171.20	68.05
5	2.51	286.20	40.18
6	3.00	352.50	18.81
7	3.50	385.60	8.58
8	4.00	399.70	3.53
9	4.50	408.00	2.03
10	5.00	414.20	1.50
11	5.50	420.40	1.47
12	6.00	444.10	5.34
13	6.50	475.10	6.52
14	7.00	485.20	2.08
15	7.50	487.60	0.49
16	8.00	489.50	0.39
17	8.50	491.20	0.35
18	9.00	492.80	0.32
19	9.50	494.00	0.24
20	10.00	495.40	0.28
21	10.50	496.40	0.20
22	11.00	497.40	0.20

USER INPUT BLANK VALUE
BLANK VALUE = 51.04283 micrograms carbon
BLANK FACTOR = 51.04283 / 11.00061 = +4.6E+00 ug/min Carbon

SAMPLE RESULTS:
(497.4 - 51.03943)(1)/(1) = +4.464E+02 g/L Carbon
(497.4 - 51.03943)(1)/(1)(12) = +3.720E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{446.4}{.2017} = 2.21 E^3$ 837

LABCORE Data Entry Template for Worklist# 3217

Analyst: KRM **Instrument:** TOC02 **Book #** 16N12B

Method: LA-342-100 Rev/Mod C-O

Worklist Comment: BY-108 TOC-02

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	LIQUID	1	16.6	N/A	ug/mL
		2	STD				TOC-02	LIQUID	3.008 [3]	2.77 [3]	N/A	ug/mL
95000101	BY-108 (R)	3	SAMPLE	S95T001365	0		TOC-02	LIQUID	N/A	<40 <5.00 [3]	40	ug/mL
95000101	BY-108 (R)	4	DUP	S95T001365	0		TOC-02	LIQUID	<5.00 [3]	<5.00 [3]	N/A	ug/mL
									<40	<40		

Final page for worklist # 3217

Analyst Signature Date 11-9-95

Analyst Signature Date 11/10/95

Reviewed RW Schroeder 11/13/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/09/95 Time: 10:35:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	1.20	0.00
2	1.01	1.20	0.00
3	1.51	1.40	14.29
4	2.01	1.70	17.65
5	2.51	1.80	5.56
6	3.00	2.00	10.00
7	3.50	2.10	4.76
8	4.00	2.20	4.55
9	4.50	2.30	4.35
10	5.00	2.40	4.17
11	5.50	2.50	4.00
12	6.00	2.60	3.85
13	6.50	2.70	3.70
14	7.00	2.70	0.00
15	7.50	2.80	3.57
16	8.00	2.90	3.45
17	8.50	3.10	6.45
18	9.00	3.10	0.00
19	9.50	3.30	6.06
20	10.00	3.30	0.00
21	10.50	3.40	2.94
22	11.00	3.40	0.00

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 839 **TO** 848.

BLANK VALUE = 3.4 micrograms carbon
BLANK FACTOR = 3.4 / 11.00244 = +3.1E-01 ug/min Carbon

Sample Run By: [signature] 11-9-95
KR MONTEITH 00000

P^^^

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/09/95 Time: 10:49:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	2.90	100.00
3	1.50	11.90	75.63
4	2.00	19.00	37.37
5	2.50	25.50	25.49
6	3.00	28.10	9.25
7	3.50	31.20	9.94
8	4.00	34.50	9.57
9	4.50	37.00	6.76
10	5.00	38.70	4.39
11	5.50	40.00	3.25
12	6.00	40.90	2.20
13	6.50	41.60	1.68
14	7.00	42.30	1.65
15	7.50	42.80	1.17
16	8.00	43.30	1.15
17	8.50	43.70	0.92
18	9.00	44.20	-1.13
19	9.50	44.60	0.90
20	10.00	44.90	0.67
21	10.50	45.20	0.66
22	11.00	45.50	0.66

BLANK VALUE = 45.5 micrograms carbon
BLANK FACTOR = 45.5 / 10.99884 = +4.14E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 11/09/95 Time: 11:03:36

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	6.20	100.00
3	1.50	125.80	95.07
4	2.00	312.90	59.80
5	2.50	450.60	30.56
6	3.00	527.00	14.50
7	3.50	564.00	6.56
8	4.00	578.30	2.47
9	4.50	584.10	0.99
10	5.00	586.90	0.48
11	5.50	588.20	0.22
12	6.00	589.30	0.19
13	6.50	590.10	0.14
14	7.00	590.70	0.10
15	7.50	591.30	0.10
16	8.00	591.90	0.10
17	8.50	592.20	0.05
18	9.00	592.60	0.07
19	9.50	592.90	0.05
20	10.00	593.20	0.05
21	10.50	593.50	0.05
22	11.00	593.80	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
(593.8 - 3.409319)(1)/(1000) = +5.904E-01 g/L Carbon
(593.8 - 3.409319)(1)/(1000)(12) = +4.920E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 11/09/95 Time: 12:27:25

Sample Size = 200 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 4.14 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.10	0.00
2	1.01	10.60	99.06
3	1.51	132.40	91.99
4	2.00	365.30	63.76
5	2.50	498.90	26.78
6	3.00	542.00	7.95
7	3.50	550.60	1.56
8	4.00	556.70	1.10
9	4.50	561.70	0.89
10	5.00	565.90	0.74
11	5.50	576.10	1.77
12	6.00	586.00	1.69
13	6.50	589.90	0.66
14	7.00	592.30	0.41
15	7.50	594.30	0.34
16	8.00	595.40	0.18
17	8.50	596.40	0.17
18	9.00	597.30	0.15
19	9.50	597.80	0.08
20	10.00	598.40	0.10
21	10.50	598.90	0.08
22	11.00	599.30	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
(599.3 - 45.53949)(1)/(200) = +2.769E+00 g/L Carbon
(599.3 - 45.53949)(1)/(200)(12) = +2.307E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 11/09/95 Time: 12:42:30

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.30	100.00
3	1.51	2.20	40.91
4	2.01	2.60	15.38
5	2.51	2.90	10.34
6	3.01	3.10	6.45
7	3.51	3.30	6.06
8	4.01	3.40	2.94
9	4.50	3.50	2.86
10	5.00	3.50	0.00
11	5.50	3.60	2.78
12	6.00	3.70	2.70
13	6.50	3.80	2.63
14	7.00	3.80	0.00
15	7.50	3.90	2.56
16	8.00	4.00	2.50
17	8.50	4.00	0.00
18	9.00	4.10	2.44
19	9.50	4.20	2.38
20	10.00	4.30	2.33
21	10.50	4.30	0.00
22	11.00	4.40	2.27

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
(4.4 - 3.410208)(1)/(1) = +9.9E-01 g/L Carbon
(4.4 - 3.410208)(1)/(1)(12) = +8.2E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 11/09/95 Time: 12:57:41

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 4.14 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.00	100.00
3	1.51	6.60	84.85
4	2.00	11.40	42.11
5	2.50	14.10	19.15
6	3.00	16.40	14.02
7	3.50	17.60	6.82
8	4.00	19.40	9.28
9	4.50	21.60	10.19
10	5.00	23.20	6.90
11	5.50	23.90	2.93
12	6.00	24.50	2.45
13	6.50	24.90	1.61
14	7.00	25.20	1.19
15	7.50	25.20	0.00
16	8.00	25.30	0.40
17	8.50	25.80	1.94
18	9.00	26.30	1.90
19	9.50	26.80	1.87
20	10.00	27.60	2.90
21	10.50	28.30	2.47
22	11.00	28.90	2.08

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
(28.9 - 45.53924)(1)/(1) = < 5.00 E-3 g/L Carbon
(28.9 - 45.53924)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:12:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	0.90	100.00
3	1.51	6.20	85.48
4	2.00	14.00	55.71
5	2.50	20.10	30.35
6	3.00	23.40	14.10
7	3.50	25.50	8.24
8	4.00	26.20	2.67
9	4.50	26.70	1.87
10	5.00	27.10	1.48
11	5.50	27.30	0.73
12	6.00	27.50	0.73
13	6.50	27.70	0.72
14	7.00	27.90	0.72
15	7.50	28.00	0.36
16	8.00	28.20	0.71
17	8.50	28.30	0.35
18	9.00	28.50	0.70
19	9.50	28.60	0.35
20	10.00	28.70	0.35
21	10.50	28.80	0.35
22	11.00	28.90	0.35

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
(28.9 - 3.409622)(1)/(1) = +2.55E+01 g/L Carbon
(28.9 - 3.409622)(1)/(1)(12) = +2.12E+00 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:24:36

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	1.10	100.00
3	1.51	7.10	84.51
4	2.00	13.40	47.01
5	2.50	17.70	24.29
6	3.00	19.70	10.15
7	3.50	20.30	2.96
8	4.00	20.50	0.98
9	4.50	20.80	1.44
10	5.00	22.80	8.77
11	5.50	23.90	4.60
12	6.00	25.60	6.64
13	6.50	27.00	5.19
14	7.00	28.00	3.57
15	7.50	28.70	2.44
16	8.00	29.30	2.05
17	8.50	29.70	1.35
18	9.00	30.20	1.66
19	9.50	30.50	0.98
20	10.00	30.80	0.97
21	10.50	31.10	0.96
22	11.00	31.30	0.64

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
(31.3 - 45.53873)(1)/(1) = < 5.00 E-3 g/L Carbon
(31.3 - 45.53873)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

WHC-SD-WM-DP-146, REV. 1

< 40

DETECTION LIMIT IS 40

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:37:49

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .31 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.90	100.00
3	1.51	9.10	79.12
4	2.00	17.70	48.59
5	2.50	22.60	21.68
6	3.00	25.60	11.72
7	3.50	26.80	4.48
8	4.00	27.40	2.19
9	4.50	27.90	1.79
10	5.00	28.10	0.71
11	5.50	28.30	0.71
12	6.00	28.60	1.05
13	6.50	28.70	0.35
14	7.00	28.90	0.69
15	7.50	29.00	0.34
16	8.00	29.20	0.68
17	8.50	29.30	0.34
18	9.00	29.50	0.68
19	9.50	29.70	0.67
20	10.00	29.90	0.67
21	10.50	30.20	0.99
22	11.00	30.40	0.66

USER INPUT BLANK VALUE
BLANK VALUE = 3.409641 micrograms carbon
BLANK FACTOR = 3.409641 / 10.99884 = +3.1E-01 ug/min Carbon

SAMPLE RESULTS:
(30.4 - 3.410208)(1)/(1) = +2.70E+01 g/L Carbon
(30.4 - 3.410208)(1)/(1)(12) = +2.25E+00 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

^^^^^

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1365 Date: 11/09/95 Time: 13:56:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 4.14 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.00	0.00
2	1.01	0.60	100.00
3	1.50	6.40	90.63
4	2.00	13.10	51.15
5	2.50	17.50	25.14
6	3.00	19.90	12.06
7	3.50	21.10	5.69
8	4.00	21.80	3.21
9	4.50	21.90	0.46
10	5.00	22.20	1.35
11	5.50	22.90	3.06
12	6.00	24.20	5.37
13	6.50	25.10	3.59
14	7.00	25.80	2.71
15	7.50	26.40	2.27
16	8.00	26.70	1.12
17	8.50	27.10	1.48
18	9.00	27.40	1.09
19	9.50	27.70	1.08
20	10.00	27.90	0.72
21	10.50	28.10	0.71
22	11.00	28.40	1.06

USER INPUT BLANK VALUE
BLANK VALUE = 45.5352 micrograms carbon
BLANK FACTOR = 45.5352 / 10.99884 = +4.1E+00 ug/min Carbon

SAMPLE RESULTS:
(28.4 - 45.53495)(1)/(1) = < 5.00 E-3 g/L Carbon
(28.4 - 45.53495)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

WHC-SD-WM-DP-145, REV. 1

Sample Run By: KR MONTEITH 00000

< 40 Detection Limit is 40

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 3789

Analyst: KRM **Instrument:** CARB2 **Book#** 16N12C

Method: LA-342-100 Rev/Mod C-0

Worklist Comment: BY-108 TOC-02 KRM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				TOC-02	SOLID	1	8.8	N/A	ug/g
		2	STD				TOC-02	SOLID (RWS 11/28/95 MG)	2.995E3 ~~3.00E3~~	2.90E3	N/A	ug/g
95000118	BY-108 (R)	3	SAMPLE	S95T003173	0		TOC-02	SOLID	N/A	4.06E3		ug/g
95000118	BY-108 (R)	4	DUP	S95T003173	0		TOC-02	SOLID	4.06E3	4.21E3	N/A	ug/g

Final page for worklist # 3789

[signature] 11-27-95 17:00
Analyst Signature Date

[signature] 11-28-95
Analyst Signature Date

Reviewed RW Schrader 11/28/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

DEf^^

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

WHC-SD-WM-DP-145, REV/

Sample: BLK Date: 11/27/95 Time: 07:40:30

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	0.50	80.00
3	1.51	0.90	44.44
4	2.00	1.20	25.00
5	2.50	1.40	14.29
6	3.00	1.60	12.50
7	3.50	1.80	11.11
8	4.00	2.00	10.00
9	4.50	2.10	4.76
10	5.00	2.30	8.70
11	5.50	2.50	8.00
12	6.00	2.60	3.85
13	6.50	2.80	7.14
14	7.00	3.00	6.67
15	7.50	3.10	3.23
16	8.00	3.30	6.06
17	8.50	3.50	5.71
18	9.00	3.60	2.78
19	9.50	3.80	5.26
20	10.00	3.90	2.56
21	10.50	4.10	4.88
22	11.00	4.30	4.65

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 850 **TO** 859 .

BLANK VALUE = 4.3 micrograms carbon
BLANK FACTOR = 4.3 / 11.00067 = +3.9E-01 ug/min Carbon

Sample Run By: Robert W Schroeder 1/25/96
KR MONTEITH 00000
For KR Monteith

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 11/27/95 Time: 07:56:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	2.70	88.89
3	1.50	7.90	65.82
4	2.00	12.30	35.77
5	2.50	15.20	19.08
6	3.00	17.50	13.14
7	3.50	18.20	3.85
8	4.00	18.90	3.70
9	4.50	19.60	3.57
10	5.00	20.00	2.00
11	5.50	20.40	1.96
12	6.00	20.80	1.92
13	6.50	21.10	1.42
14	7.00	21.50	1.86
15	7.50	21.80	1.38
16	8.00	22.10	1.36
17	8.50	22.40	1.34
18	9.00	22.70	1.32
19	9.50	22.90	0.87
20	10.00	23.20	1.29
21	10.50	23.50	1.28
22	11.00	23.80	1.26

BLANK VALUE = 23.8 micrograms carbon
BLANK FACTOR = 23.8 / 11.0025 = +2.16E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

WHC-SD-WM-DP-145, REV. 1

^P^

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: STS Date: 11/27/95 Time: 09:31:49

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.10	0.00
2	1.01	97.30	95.79
3	1.51	270.50	64.03
4	2.00	413.30	34.55
5	2.50	504.70	18.11
6	3.00	550.40	8.30
7	3.50	570.70	3.56
8	4.00	579.10	1.45
9	4.50	582.10	0.52
10	5.00	583.60	0.26
11	5.50	584.10	0.09
12	6.00	584.60	0.09
13	6.50	585.00	0.07
14	7.00	585.40	0.07
15	7.50	585.60	0.03
16	8.00	585.90	0.05
17	8.50	586.20	0.05
18	9.00	586.50	0.05
19	9.50	586.70	0.03
20	10.00	586.90	0.03
21	10.50	587.20	0.05
22	11.00	587.40	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
(587.4 - 4.289857)(1)/(1000) = +5.831E-01 g/L Carbon
(587.4 - 4.289857)(1)/(1000)(12) = +4.859E-02 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: STD Date: 11/27/95 Time: 10:01:27

Sample Size = 200 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.16 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.30	0.00
2	1.01	30.90	99.03
3	1.50	169.20	81.74
4	2.01	381.70	55.67
5	2.51	520.10	26.61
6	3.01	573.70	9.34
7	3.51	590.20	2.80
8	4.00	595.60	0.91
9	4.50	597.10	0.25
10	5.00	598.20	0.18
11	5.50	598.80	0.10
12	6.00	599.50	0.12
13	6.50	600.00	0.08
14	7.00	600.50	0.08
15	7.50	600.90	0.07
16	8.00	601.30	0.07
17	8.50	601.60	0.05
18	9.00	602.00	0.07
19	9.50	602.30	0.05
20	10.00	602.60	0.05
21	10.50	602.90	0.05
22	11.00	603.20	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(603.2 - 23.76145)(1)/(200) = +2.897E+00 g/L Carbon
(603.2 - 23.76145)(1)/(200)(12) = +2.414E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

P

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: R BLK Date: 11/27/95 Time: 10:32:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	Analysis Time	Coulometer	% Difference ==
1	0.51	2.70	0.00
2	1.01	3.50	22.86
3	1.51	4.30	18.60
4	2.00	4.70	8.51
5	2.50	5.00	6.00
6	3.00	5.20	3.85
7	3.50	5.40	3.70
8	4.00	5.60	3.57
9	4.50	5.80	3.45
10	5.00	6.00	3.33
11	5.50	6.20	3.23
12	6.00	6.40	3.13
13	6.50	6.60	3.03
14	7.00	6.90	4.35
15	7.50	7.00	1.43
16	8.00	7.20	2.78
17	8.50	7.40	2.70
18	9.00	7.70	3.90
19	9.50	7.90	2.53
20	10.00	8.00	1.25
21	10.50	8.30	3.61
22	11.00	8.40	1.19

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
(8.4 - 4.289214)(1)/(1) = +4.1E+00 g/L Carbon
(8.4 - 4.289214)(1)/(1)(12) = +3.4E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-[illegible], REV. 1

Sample: R BLK Date: 11/27/95 Time: 10:44:31

Sample Size = 1 uL Analyst : KR MONTEITH
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 2.16 ug/minute C % Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.30	0.00
2	1.01	1.70	82.35
3	1.51	5.40	68.52
4	2.00	7.70	29.87
5	2.50	9.10	15.38
6	3.00	9.80	7.14
7	3.50	10.40	5.77
8	4.00	10.80	3.70
9	4.50	11.20	3.57
10	5.00	11.50	2.61
11	5.50	12.00	4.17
12	6.00	12.20	1.64
13	6.50	12.50	2.40
14	7.00	12.80	2.34
15	7.50	13.10	2.29
16	8.00	13.50	2.96
17	8.50	13.70	1.46
18	9.00	14.00	2.14
19	9.50	14.30	2.10
20	10.00	14.50	1.38
21	10.50	14.80	2.03
22	11.00	15.00	1.33

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(15 - 23.7633)(1)/(1) = < 5.00 E-3 g/L Carbon
(15 - 23.7633)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: 3173 Date: 11/27/95 Time: 11:10:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.10	0.00
2	1.01	9.80	98.98
3	1.51	119.30	91.79
4	2.00	314.80	62.10
5	2.50	485.40	35.15
6	3.00	600.00	19.10
7	3.50	675.40	11.16
8	4.00	722.70	6.54
9	4.50	751.10	3.78
10	5.00	770.70	2.54
11	5.50	783.60	1.65
12	6.00	793.40	1.24
13	6.50	801.30	0.99
14	7.00	807.60	0.78
15	7.50	813.40	0.71
16	8.00	818.10	0.57
17	8.50	822.40	0.52
18	9.00	826.50	0.50
19	9.50	829.80	0.40
20	10.00	833.10	0.40
21	10.50	836.10	0.36
22	11.00	838.80	0.32

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
(838.8 - 4.289547)(1)/(1) = +8.345E+02 g/L Carbon
(838.8 - 4.289547)(1)/(1)(12) = +6.954E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: 3173 Date: 11/27/95 Time: 11:26:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.16 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.80	0.00
2	1.00	27.50	86.18
3	1.50	127.90	78.50
4	2.00	307.80	58.45
5	2.50	479.10	35.75
6	3.00	589.50	18.73
7	3.50	651.20	9.47
8	4.00	685.60	5.02
9	4.50	708.80	3.27
10	5.00	725.90	2.36
11	5.50	739.60	1.85
12	6.00	750.70	1.48
13	6.50	760.10	1.24
14	7.00	768.70	1.12
15	7.50	775.70	0.90
16	8.00	784.40	1.11
17	8.50	791.70	0.92
18	9.00	797.60	0.74
19	9.50	802.50	0.61
20	10.00	807.70	0.64
21	10.50	812.80	0.63
22	11.00	817.50	0.57

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(817.5 - 23.75921)(1)/(1) = +7.937E+02 g/L Carbon
(817.5 - 23.75921)(1)/(1)(12) = +6.615E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{793.7}{.1957} = 4.06E^{3}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-145, REV. 1

Sample: 3173 Date: 11/27/95 Time: 11:44:22

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .39 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.60	0.00
2	1.01	16.20	83.95
3	1.50	120.70	86.58
4	2.00	250.60	51.84
5	2.50	354.20	29.25
6	3.00	434.30	18.44
7	3.50	488.00	11.00
8	4.00	524.80	7.01
9	4.50	548.10	4.25
10	5.00	564.90	2.97
11	5.50	577.30	2.15
12	6.00	586.80	1.62
13	6.50	595.00	1.38
14	7.00	601.80	1.13
15	7.50	607.60	0.95
16	8.00	613.60	0.98
17	8.50	618.50	0.79
18	9.00	623.10	0.74
19	9.50	627.50	0.70
20	10.00	631.30	0.60
21	10.50	635.10	0.60
22	11.00	640.10	0.78

USER INPUT BLANK VALUE
BLANK VALUE = 4.290976 micrograms carbon
BLANK FACTOR = 4.290976 / 11.0025 = +3.9E-01 ug/min Carbon

SAMPLE RESULTS:
(640.1 - 4.289547)(1)/(1) = +6.358E+02 g/L Carbon
(640.1 - 4.289547)(1)/(1)(12) = +5.298E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 3173 Date: 11/27/95 Time: 11:56:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.16 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.30	0.00
2	1.01	38.30	88.77
3	1.51	147.10	73.96
4	2.00	299.60	50.90
5	2.50	411.40	27.18
6	3.00	475.80	13.54
7	3.50	511.80	7.03
8	4.00	532.80	3.94
9	4.50	548.60	2.88
10	5.00	560.20	2.07
11	5.50	570.40	1.79
12	6.00	579.10	1.50
13	6.50	586.20	1.21
14	7.00	593.40	1.21
15	7.50	599.00	0.93
16	8.00	604.50	0.91
17	8.50	609.00	0.74
18	9.00	613.60	0.75
19	9.50	618.60	0.81
20	10.00	623.60	0.80
21	10.50	627.40	0.61
22	11.00	631.30	0.62

USER INPUT BLANK VALUE
BLANK VALUE = 23.76541 micrograms carbon
BLANK FACTOR = 23.76541 / 11.0025 = +2.2E+00 ug/min Carbon

SAMPLE RESULTS:
(631.3 - 23.75921)(1)/(1) = +6.075E+02 g/L Carbon
(631.3 - 23.75921)(1)/(1)(12) = +5.063E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

859

$\frac{607.5}{.1444} = 4.21E^{3}$

NHC-SD-WM-DP-165, REV. C

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RADIOCHEMICAL ANALYSES

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LABCORE Data Entry Template for Worklist# 2063

Analyst: AKL **Instrument:** AB00 16 WB 27806 **Book #** 132852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	2.92			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001391	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001391	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001391	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001391	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001391	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001398	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001398	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	8	DUP	S95T001398	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	8	DUP	S95T001398	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	9	SPK	S95T001398	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2063

Alita Lewis

Sharon L Wold 8-24-95

Data Entry Comments: For S95T001391

Low SPK recovery ^ is acceptable due to low sample alpha activity. 8/28/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2063

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature			Date					Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
[redacted]	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
[redacted]	TOTAL COUNTS	(TC)	4138	4317
2063	COUNT TIME in MINUTES	(CT)	30	30
[redacted]	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
[redacted]	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
[redacted]	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		137.853	143.820
[redacted]	Sample Concentration in µCi/L		2.95E-02	BOOK#
WORKLIST#2063	Replicate Concentration in µCi/L		3.08E-02	132852
[redacted]				
WB27806	Average Concentration in µCi/L		3.0152E-02	
[redacted]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[redacted]	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/22/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
[redacted]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	3.02E-05	DETECTION LEVEL
				[redacted]
				7.10E-08 µCi/mL
RELATIVE COUNTING ERROR		=	3.0%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
[redacted]	DETECTOR NUMBER		16	16
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
[redacted]	TOTAL COUNTS	(TC)	7	7
2063	COUNT TIME in MINUTES	(CT)	30	30
[redacted]	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
[redacted]	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.448	2.448
[redacted]	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.153	0.153
[redacted]	Sample Concentration in µCi/g		1.34E-03	BOOK#
S95T1391	Replicate Concentration in µCi/g		1.34E-03	
[redacted]				
WB27506	Average Concentration in µCi/g		1.3410E-03	
[redacted]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[redacted]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
[redacted]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	1.34E-03	DETECTION LEVEL [redacted] 2.90E-03 µCi/g
RELATIVE COUNTING ERROR		=	130.6%	

Data Entry by:	[signature]	Date:	08/23/95
Approved by:	[signature]	Date:	8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	10	10
2063	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.448	2.448
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.253	0.253
	Sample Concentration in µCi/g		2.22E-03	BOOK#
S95T1391	Replicate Concentration in µCi/g		2.22E-03	
WB27693	Average Concentration in µCi/g		2.2156E-03	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Average) =	2.22E-03	
RELATIVE COUNTING ERROR	=	90.8%	2.90E-03 µCi/g

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		18	18
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work Unit	TOTAL COUNTS	(TC)	15	15
2063	COUNT TIME in MINUTES	(CT)	30	30
Analyte	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.424	2.424
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.420	0.420
Lab Code	Sample Concentration in µCi/g		3.71E-03	BOOK#
S95T1391	Replicate Concentration in µCi/g		3.71E-03	
Batch Number				
WB27806	Average Concentration in µCi/g		3.7095E-03	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	3.71E-03	DETECTION LEVEL
				2.93E-03 µCi/g
RELATIVE COUNTING ERROR		=	64.9%	

Data Entry by: Shawn Laughlin Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	Work List	AT or TS ?	Test Code	Matrix	Sample #	Instrument Code	Analyst	Date	Time
SPIKE	2063	AT	@ALPHA01	SOLID	S95T1391	WB27806	AKL	08/22/95	02:00 PM

		SPIKE	REPLICATE
DETECTOR NUMBER		16	16
DISH SIZE 1 , 2 , or 5	(MS)	2	2
TOTAL COUNTS	(TC)	48493	47731
COUNT TIME in MINUTES	(CT)	30	30
BACKGROUND in cpm	(BKG)	0.08	0.08
SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.448	2.448
SPIKE VOLUME in mL	(SVol)	0.100	0.100
SPIKE DILUTION FACTOR	(SDF)	1	1
SPIKE VALUE in µCi/L	(SVal)	44.78	44.78
INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SAMPLE + SPIKE µCi/g	(S+S)	1.41E+01	1.39E+01
AVERAGE or MAXIMUM µCi/g from FORM C		2.2156E-03	
BOOK#		112B43	

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT | AVG. PERCENT SPIKE RECOVERY = 76.7%

Data Entry by: [signature] Date: 23-Aug-95

Approved by: [signature] Date: 8/23/95

Form 508101_X Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	31	50
2063	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.04	2.04
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.953	1.587
	Sample Concentration in µCi/g		2.00E-02	BOOK#
305T1368	Replicate Concentration in µCi/g		3.33E-02	
WB37806	Average Concentration in µCi/g		2.6657E-02	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.67E-02	DETECTION LEVEL
				6.96E-03 µCi/g
RELATIVE COUNTING ERROR		=	39.6%	

Data Entry by:	Date:	08/23/95
Approved by:	Date:	8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	42	42
2063	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.004	2.004
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.320	1.320
	Sample Concentration in µCi/g		2.82E-02	BOOK#
595T1398	Replicate Concentration in µCi/g		2.82E-02	
WB27806	Average Concentration in µCi/g		2.8204E-02	

AKL

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

08/22/95

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

02:00 PM

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.82E-02	DETECTION LEVEL
				7.09E-03 µCi/g
RELATIVE COUNTING ERROR		=	33.0%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type			SPIKE	REPLICATE
SPIKE	DETECTOR NUMBER		16	16
	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	58184	51564
2063	COUNT TIME in MINUTES	(CT)	30	30
AT or TS ?	BACKGROUND in cpm	(BKG)	0.08	0.08
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.04	2.04
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.78	44.78
S95T1398	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	4.07E+01	3.61E+01
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		2.6657E-02	
Analyst	BOOK#		112B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/22/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
02:00 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 87.4%

Data Entry by: [signature] Date: 23-Aug-95

Approved by: [signature] Date: 8/23/95

Form 508101_X Rev. 1.3

WHC-SD-WM-DP-145, REV.1

LABCORE Data Entry Template for Worklist# 2064

Analyst: AKL **Instrument:** AB00 LS WB 26872 **Book #** 132852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.97			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001400	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001400	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001400	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001400	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001400	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001405	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001405	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	8	DUP	S95T001405	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	8	DUP	S95T001405	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	9	SPK	S95T001405	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2064

A Lewis 8-22-95

Sharon L Holden 8-24-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2064

GROUP	PROJECT	S TYPE	SAMPLE#	R A -------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date			Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
[redacted]	DETECTOR NUMBER		15	15
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4243	4180
2064	COUNT TIME in MINUTES	(CT)	30	30
[redacted]	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
[redacted]	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
[redacted]	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		141.263	139.163
[redacted]	Sample Concentration in µCi/L		2.67E-02	BOOK#
WORKLIST#2064	Replicate Concentration in µCi/L		2.63E-02	132852
[redacted]				
WB26372	Average Concentration in µCi/L		2.6537E-02	
[redacted]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[redacted]	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/22/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
[redacted]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	2.65E-05	DETECTION LEVEL
				[redacted]
RELATIVE COUNTING ERROR		=	3.0%	8.37E-08 µCi/mL

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

				BLANK	REPLICATE
Type	DETECTOR NUMBER			15	15
BLANK	DISH SIZE 1, 2, or 5	(MS)		2	2
Work List	TOTAL COUNTS	(TC)		7	3
2064	COUNT TIME in MINUTES	(CT)		30	30
Analyst	BACKGROUND in cpm	(BKG)		0.17	0.17
AT	SAMPLE SIZE in mL	(SS)		0.100	0.100
Test Code	DILUTION FACTOR	(DF)		1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		2.132	2.132
Matrix	EFFICIENCY FACTOR	(EFF)		0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.255	0.176
Sample #	Sample Concentration in µCi/g		<	2.26E-03	BOOK#
395T1400	Replicate Concentration in µCi/g		<	1.56E-03	
Duplicate Code					
WB29872	Maximum Concentration in µCi/g		<	2.2606E-03	
Prep Code					
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG				
Prep Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
06/22/95					
Time	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100				
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

					DETECTION LEVEL
ALPHA TOTAL	in µCi/g	(Maximum)	=	< 2.26E-03	
LESS THAN Value was Determined from Rmax.					3.92E-03 µCi/g
RELATIVE COUNTING ERROR			=	500.0%	

Data Entry by: Sharon L Wallace Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	14	7
2064	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.132	2.132
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.297	0.255
	Sample Concentration in µCi/g		2.63E-03	BOOK#
39ST1400	Replicate Concentration in µCi/g	<	2.26E-03	
WB29572	Maximum Concentration in µCi/g	<	2.6336E-03	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.63E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				3.92E-03 µCi/g
RELATIVE COUNTING ERROR		=	358.8%	

Data Entry by: Sharon Lyoff Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
[illegible]	DETECTOR NUMBER		15	15
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
[illegible]	TOTAL COUNTS	(TC)	21	19
2064	COUNT TIME in MINUTES	(CT)	30	30
[illegible]	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
[illegible]	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.36	2.36
[illegible]	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.530	0.463
[illegible]	Sample Concentration in µCi/g		4.25E-03	BOOK#
S95T1400	Replicate Concentration in µCi/g		3.72E-03	
[illegible]				
WB26872	Average Concentration in µCi/g		3.9831E-03	
[illegible]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[illegible]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
[illegible]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	3.98E-03	DETECTION LEVEL
				3.54E-03 µCi/g
RELATIVE COUNTING ERROR		=	69.2%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		15	15
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Batch Log	TOTAL COUNTS	(TC)	53787	63712
2064	COUNT TIME in MINUTES	(CT)	30	30
Batch #	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
Lab Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.132	2.132
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.779	44.779
S95T1400	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.238	0.238
Prep Batch #	SAMPLE + SPIKE µCi/g	(S+S)	1.59E+01	1.89E+01
WB20872	AVERAGE or MAXIMUM µCi/g from FORM C		<2.63E-3	
Analyst	BOOK#		112B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Analysis	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/22/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
02:00 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 82.8%

Data Entry by: Shannon L Holden Date: 24-Aug-95

Approved by: Date:

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	12	15
2064	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.228	2.228
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.230	0.330
	Sample Concentration in µCi/g		1.95E-03	BOOK#
S95T1405	Replicate Concentration in µCi/g		2.80E-03	
WB26872	Average Concentration in µCi/g		2.3786E-03	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.38E-03	DETECTION LEVEL
				3.75E-03 µCi/g
RELATIVE COUNTING ERROR		=	117.5%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV.1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
[redacted]	DETECTOR NUMBER		15	15
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
[redacted]	TOTAL COUNTS	(TC)	13	11
2064	COUNT TIME in MINUTES	(CT)	30	30
[redacted]	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
[redacted]	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.34	2.34
[redacted]	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.263	0.197
[redacted]	Sample Concentration in µCi/g		2.13E-03	BOOK#
SB5T1405	Replicate Concentration in µCi/g		1.59E-03	
[redacted]				
WB26572	Average Concentration in µCi/g		1.8603E-03	
[redacted]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[redacted]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
[redacted]	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	1.86E-03	DETECTION LEVEL
				[redacted]
				3.57E-03 µCi/g
RELATIVE COUNTING ERROR		=	133.3%	

Data Entry by: [redacted] Date: 08/23/95

Approved by: [redacted] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		15	15
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work Log	TOTAL COUNTS	(TC)	58385	57104
2064	COUNT TIME in MINUTES	(CT)	30	30
Analyst	BACKGROUND in cpm	(BKG)	0.17	0.17
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
?ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	2.228	2.228
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.779	44.779
S95T1405	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.238	0.238
Lab Control Sample	SAMPLE + SPIKE µCi/g	(S+S)	1.65E+01	1.62E+01
WB20572	AVERAGE or MAXIMUM µCi/g from FORM C		2.3786E-03	
Book#	BOOK#		112B43	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/22/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
02:00 PM				

RESULT AVG. PERCENT SPIKE RECOVERY = 81.3%

Data Entry by: Sharon L Wall Date: 24-Aug-95

Approved by: Date:

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2068

Analyst: S.C.L **Instrument:** AB00 16 WB27806 **Book #** 13285-2

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .050 mL sample volume. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.53			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001423	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001423	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001423	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001423	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001423	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001424	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	7	SAMPLE	S95T001424	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	8	DUP	S95T001424	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	8	DUP	S95T001424	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	9	SPK	S95T001424	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2068

Sue C Lai 8-28-95 Edward Walsh 8-29-95

Data Entry Comments:
spike: 112843

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2068

GROUP	PROJECT	S TYPE	SAMPLE#	R A -------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date			Analyst Signature			Date	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		16	16
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4200	4253
2068	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		139.780	141.547
Sample #	Sample Concentration in µCi/L		2.99E-02	BOOK#
WORKLIST#2068	Replicate Concentration in µCi/L		3.03E-02	132B52
Instrument Code				
WB27806	Average Concentration in µCi/L		3.0115E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/28/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL (Average) =	3.01E-05	DETECTION LEVEL
			1.05E-07 µCi/mL
RELATIVE COUNTING ERROR	=	3.0%	

Data Entry by: Sharon L. Holden Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
Type	DETECTOR NUMBER		16	16
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	3	4
2068	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.616	1.616
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.200	0.200
Sample #	Sample Concentration in µCi/g	<	5.29E-03	BOOK#
S95T1423	Replicate Concentration in µCi/g	<	5.29E-03	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	5.2947E-03	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.29E-03	DETECTION LEVEL
	LESS Than Value was Determined from Lc.			
RELATIVE COUNTING ERROR		=	245.4%	1.30E-02 µCi/g

Data Entry by:	Sharon L. Halden	Date:	08/29/95
Approved by:	[signature]	Date:	8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

				SAMPLE	REPLICATE
[illegible]	DETECTOR NUMBER			16	16
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)		2	2
Work List	TOTAL COUNTS	(TC)		9	23
2068	COUNT TIME in MINUTES	(CT)		30	30
[illegible]	BACKGROUND in cpm	(BKG)		0.22	0.22
AT	SAMPLE SIZE in mL	(SS)		0.050	0.050
[illegible]	DILUTION FACTOR	(DF)		1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)		1.616	1.616
[illegible]	EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			0.297	0.547
[illegible]	Sample Concentration in µCi/g		<	7.88E-03	BOOK#
S95T1423	Replicate Concentration in µCi/g			1.45E-02	
[illegible]					
WB27806	Maximum Concentration in µCi/g		<	1.4485E-02	
[illegible]					
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG				
[illegible]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)				
08/28/95					
[illegible]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100				
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.				

v RESULTS v

					DETECTION LEVEL
ALPHA TOTAL	in µCi/g	(Maximum) =	<	1.45E-02	
LESS THAN Value was Determined from Rs.					1.30E-02 µCi/g
RELATIVE COUNTING ERROR		=		500.0%	

Data Entry by: Sharon L Hafer Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		18	18
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	15	6
2068	COUNT TIME in MINUTES	(CT)	30	30
AT or IM ?	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.628	1.628
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.280	0.200
Sample #	Sample Concentration in µCi/g		7.36E-03	BOOK#
S95T1423	Replicate Concentration in µCi/g	<	5.26E-03	
Instrument Code				
WB27806	Maximum Concentration in µCi/g	<	7.3644E-03	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 7.36E-03	DETECTION LEVEL
	LESS THAN Value was Determined from Rs.			
RELATIVE COUNTING ERROR		=	500.0%	1.29E-02 µCi/g

Data Entry by:	Shayne L Holden	Date:	08/29/95
Approved by:	[signature]	Date:	8/29/95

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		16	16
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	56202	56212
2068	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.616	1.616
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.778	44.778
S95T1423	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	5.14E+01	4.96E+01
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<1.4485E-2	
Analyst	BOOK#		112B43	
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/28/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
03:00 PM				

RESULT **AVG. PERCENT SPIKE RECOVERY = 91.2%**

Data Entry by:	Sharon L Holden	Date:	29-Aug-95
Approved by:	[signature]	Date:	8/29/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	17	10
2068	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9876	1.9876
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.347	0.337
	Sample Concentration in µCi/g		7.47E-03	BOOK#
S95T1424	Replicate Concentration in µCi/g	<	7.27E-03	
WB27506	Maximum Concentration in µCi/g	<	7.4682E-03	
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 7.47E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				1.06E-02 µCi/g
RELATIVE COUNTING ERROR		=	234.9%	

Data Entry by: Sharon L Hopper Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
[illegible]	DETECTOR NUMBER		16	16
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	95	89
2068	COUNT TIME in MINUTES	(CT)	30	30
[illegible]	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
[illegible]	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9988	1.9988
[illegible]	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2.947	2.747
[illegible]	Sample Concentration in µCi/g		6.31E-02	BOOK#
S95T1424	Replicate Concentration in µCi/g		5.88E-02	
[illegible]				
WB27606	Average Concentration in µCi/g		6.0982E-02	

SCL

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

08/28/95

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

03:00 PM

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	6.10E-02	DETECTION LEVEL
				1.05E-02 µCi/g
RELATIVE COUNTING ERROR		=	23.3%	

Data Entry by: Sharon L Mahler Date: 08/29/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		16	16
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	58749	56926
2068	COUNT TIME in MINUTES	(CT)	30	30
AT or TD?	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.9876	1.9876
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.778	44.778
S95T1424	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	4.22E+01	4.09E+01
WB27806	AVERAGE or MAXIMUM µCi/g from FORM C		<7.4682E-3	
Analyst	BOOK#		112B43	
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/28/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
03:00 PM				

RESULT **AVG. PERCENT SPIKE RECOVERY = 92.2%**

Data Entry by:	Shyan [signature]	Date:	29-Aug-95
Approved by:	[signature]	Date:	8/29/95

Form 508101_X Rev. 1.3

worklistrpt Version 2.1 05/15/95
08/22/95 09:05

LABCORE Data Entry Template for Worklist# 2069

Analyst: S. C. L. **Instrument:** AB00 14 (JB27807) **Book #** 132B-2

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	1.67			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001482	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001482	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001482	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001482	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001482	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2069

Sue C Lai 8-22-95
Analyst Signature **Date**

G M Dahlen 8-22-95
Analyst Signature **Date**
Sharon L Wahl 8-24-95

Data Entry Comments:

spike : 112843

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		14	14
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4371	4094
2069	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		145.420	136.187
Sample #	Sample Concentration in µCi/L		2.88E-02	BOOK#
WORKLIST#2069	Replicate Concentration in µCi/L		2.70E-02	132B52
Instrument Code				
WB27807	Average Concentration in µCi/L		2.7891E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/22/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in µCi/mL (Average) =	2.79E-05	DETECTION LEVEL	
RELATIVE COUNTING ERROR =	3.1%	1.07E-07 µCi/mL	

Data Entry by:	[signature]	Date:	08/23/95
Approved by:	[signature]	Date:	8/23/95

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
[illegible]	DETECTOR NUMBER		14	14
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
[illegible]	TOTAL COUNTS	(TC)	13	15
2069	COUNT TIME in MINUTES	(CT)	30	30
[illegible]	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
[illegible]	DILUTION FACTOR	(DF)	101	101
@ALPHAD1	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.342	4.342
[illegible]	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.408	0.486
[illegible]	Sample Concentration in µCi/g	<	1.88E-02	BOOK#
395T1452	Replicate Concentration in µCi/g	<	2.24E-02	
[illegible]				
WB17607	Maximum Concentration in µCi/g	<	2.2396E-02	

SCL

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

08/22/95

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

03:00 PM

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.24E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				2.50E-02 µCi/g
RELATIVE COUNTING ERROR		=	197.1%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work Lab	TOTAL COUNTS	(TC)	12	14
2069	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.342	4.342
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.368	0.447
Sample	Sample Concentration in µCi/g	<	1.70E-02	BOOK#
395T1482	Replicate Concentration in µCi/g	<	2.06E-02	
Prep				
WB37807	Maximum Concentration in µCi/g	<	2.0595E-02	
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 2.06E-02	DETECTION LEVEL
LESS THAN Value was Determined from Rmax.				2.50E-02 µCi/g
RELATIVE COUNTING ERROR		=	245.9%	

Data Entry by: [signature] Date: 08/23/95

Approved by: [signature] Date: 8/23/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		14	14
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	12	11
2069	COUNT TIME in MINUTES	(CT)	30	30
AT or TD ?	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.2728	4.2728
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.368	0.329
Sample #	Sample Concentration in µCi/g	<	1.73E-02	BOOK#
S95T1462	Replicate Concentration in µCi/g	<	1.54E-02	
Instrument Code				
WB27807	Maximum Concentration in µCi/g	<	1.7251E-02	
Analyst				
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/22/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
03:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 1.73E-02	DETECTION LEVEL
	LESS THAN Value was Determined from Rmax.			
RELATIVE COUNTING ERROR		=	332.0%	2.54E-02 µCi/g

Data Entry by:	Sharon L Upfield	Date:	08/23/95
Approved by:	[signature]	Date:	8/23/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		14	14
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	66915	64569
2069	COUNT TIME in MINUTES	(CT)	30	30
Analysis	BACKGROUND in cpm	(BKG)	0.28	0.28
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.342	4.342
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.779	44.779
S95T1482	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Instrument Code	SAMPLE + SPIKE µCi/g	(S+S)	1.03E+02	9.92E+01
WB27807	AVERAGE or MAXIMUM µCi/g from FORM C		<2.0505E-2	
Analyst	BOOK#		112B43	
SCL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/22/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
03:00 PM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 96.9%

Data Entry by: Sharon L Walker Date: 24-Aug-95

Approved by: Date:

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 2101

Analyst: AP **Instrument:** AB00 14 WB 27907 **Book #** 132B52 STD

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0-64			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001425	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001425	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001425	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001425	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001425	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2101

Analyst Signature Date: 8-28-95

Analyst Signature Date: 8·29·95

Data Entry Comments: 132 B52 - STD A-SPIKE # 112B43

Added Spike Directly to Planchet

High RPD is acceptable due to low sample alpha activity. 8/30/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		14	14
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4041	4371
2101	COUNT TIME in MINUTES	(CT)	30	30
Analysis	BACKGROUND in cpm	(BKG)	0.55	0.55
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		134.150	145.150
Sample #	Sample Concentration in µCi/L		2.66E-02	BOOK#
WORKLIST#2101	Replicate Concentration in µCi/L		2.88E-02	132B52
Instrument Code				
WB27807	Average Concentration in µCi/L		2.7663E-02	
Analyst				
ADP	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/28/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
07:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL (Average) =	2.77E-05	DETECTION LEVEL
			1.43E-07 µCi/mL
RELATIVE COUNTING ERROR	=	3.1%	

Data Entry by: Shyron J. Holden Date: 08/28/95

Approved by: [signature] Date: 8/28/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
Type	DETECTOR NUMBER		14	14
BLANK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	11	10
2101	COUNT TIME in MINUTES	(CT)	30	30
AT or ID ?	BACKGROUND in cpm	(BKG)	0.55	0.55
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	11	11
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.63	1.63
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.316	0.316
Sample #	Sample Concentration in µCi/g	<	4.22E-02	BOOK#
S95T1425	Replicate Concentration in µCi/g	<	4.22E-02	
Instrument Code				
WB27807	Maximum Concentration in µCi/g	<	4.2236E-02	
Analyst				
ADP	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
07:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 4.22E-02	DETECTION LEVEL
	LESS Than Value was Determined from Lc.			
RELATIVE COUNTING ERROR		=	186.9%	9.66E-02 µCi/g

Data Entry by:	Shawn L Holder	Date:	08/29/95
Approved by:	[signature]	Date:	8/29/95

Form 508101_C Rev. 1.3

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	78	63
2101	COUNT TIME in MINUTES	(CT)	30	30
Aliquot #	BACKGROUND in cpm	(BKG)	0.55	0.55
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	11	11
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.63	1.63
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2.050	1.550
Batch #	Sample Concentration in µCi/g		2.74E-01	BOOK#
395T1425	Replicate Concentration in µCi/g		2.07E-01	
Instrument ID				
WB27507	Average Concentration in µCi/g		2.4062E-01	
Analyst				
ADP	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
07:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	2.41E-01	DETECTION LEVEL
				9.66E-02 µCi/g
RELATIVE COUNTING ERROR		=	37.6%	

Data Entry by:		Date:	08/29/95
Approved by:		Date:	8/29/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		14	14
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	92	80
2101	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.55	0.55
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	11	11
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.6128	1.6128
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2.517	2.117
Sample #	Sample Concentration in µCi/g		3.40E-01	BOOK#
S95T1425	Replicate Concentration in µCi/g		2.86E-01	
Instrument Code				
WB27807	Average Concentration in µCi/g		3.1299E-01	
Analyst				
ADP	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
07:30 AM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in µCi/g (Average)	=	3.13E-01	DETECTION LEVEL
			9.76E-02 µCi/g
RELATIVE COUNTING ERROR	=	30.3%	

Data Entry by: [signature] Date: 08/29/95
Approved by: [signature] Date: 8/29/95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		14	14
SPIKE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work Lab	TOTAL COUNTS	(TC)	70415	80520
2101	COUNT TIME in MINUTES	(CT)	30	30
Aliquot	BACKGROUND in cpm	(BKG)	0.55	0.55
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
Lab Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	11	11
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.63	1.63
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Sample #	SPIKE VALUE in µCi/L	(SVal)	44.779	44.779
S95T1425	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Batch/Load Code	SAMPLE + SPIKE µCi/g	(S+S)	3.14E+02	3.59E+02
WB27807	AVERAGE or MAXIMUM µCi/g from FORM C		2.4042E-01	
Analyst	BOOK#		112B43	
ADP	Rs (Sample Count Rate) = (TC / CT) - BKG			
	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
08/28/95	PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100			
Time				
07:30 AM				

RESULT | AVG. PERCENT SPIKE RECOVERY = 111.2%

Data Entry by: [signature] Date: 29-Aug-95

Approved by: [signature] Date: 8/29/95

WHC-CD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2103

Analyst: AKL **Instrument:** AB00 13 WB27810 **Book #** 132652

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.46			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001480	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001480	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001480	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001480	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SAMPLE	S95T001481	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	6	SAMPLE	S95T001481	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	7	DUP	S95T001481	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	7	DUP	S95T001481	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error

Final page for worklist # 2103

C Lewis 8/25/95
Analyst Signature **Date**

Im Barela 8-26-95
Analyst Signature **Date**
Sharon Holder 8-28-95

Data Entry Comments:

High RPD is acceptable due to low sample alpha activity. No rerun requested. 8/30/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		13	13
STANDARD	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	4458	4451
2103	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
Matrix	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		148.420	148.187
Sample #	Sample Concentration in µCi/L		2.88E-02	BOOK#
WORKLIST#2103	Replicate Concentration in µCi/L		2.87E-02	132B52
Instrument Code				
WB27810	Average Concentration in µCi/L		2.8770E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
08/25/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/mL	(Average) =	2.88E-05	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	2.9%	8.77E-08 µCi/mL

Data Entry by:	Sharon L Hall	Date:	08/28/95
Approved by:	[signature]	Date:	8/28/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
Type	DETECTOR NUMBER		13	13
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	2	3
2103	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	34.33	34.33
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.3948	4.3948
Matrix	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.181	0.181
Sample #	Sample Concentration in µCi/g	<	2.74E-03	BOOK#
S95T1480	Replicate Concentration in µCi/g	<	2.74E-03	
Instrument Code				
WB27810	Maximum Concentration in µCi/g	<	2.7390E-03	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/25/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/g (Maximum)	=	< 2.74E-03	
LESS Than Value was Determined from Lc.			6.85E-03 µCi/g
RELATIVE COUNTING ERROR	=	236.7%	

Data Entry by: [signature] Date: 08/28/95

Approved by: [signature] Date: 8/28/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		13	13
SAMPLE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	16	25
2103	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	34.33	34.33
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.3948	4.3948
Matrix	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.353	0.653
Sample #	Sample Concentration in µCi/g		5.35E-03	BOOK#
S95T1480	Replicate Concentration in µCi/g		9.90E-03	
Instrument Code				
WB27810	Average Concentration in µCi/g		7.6274E-03	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/25/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL in µCi/g (Average)	=	7.63E-03	DETECTION LEVEL
RELATIVE COUNTING ERROR	=	85.5%	6.85E-03 µCi/g

Data Entry by:	Sharon J. Walden	Date:	08/28/95
Approved by:	[signature]	Date:	8/28/95

Form 508101_C Rev. 1.3

906

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		13	13
DUPLICATE	DISH SIZE 1 , 2 , or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	15	11
2103	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
	DILUTION FACTOR	(DF)	34.33	34.33
ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.2908	4.2908
	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.320	0.187
	Sample Concentration in µCi/g		4.97E-03	BOOK#
S95T1480	Replicate Concentration in µCi/g		2.90E-03	
WB27810	Average Concentration in µCi/g		3.9320E-03	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g (Average) =	3.93E-03	
			7.02E-03 µCi/g
RELATIVE COUNTING ERROR	=	141.7%	

Data Entry by: [signature] Date: 08/28/95

Approved by: [signature] Date: 8/29/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		13	13
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	8	14
2103	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
	DILUTION FACTOR	(DF)	34.33	34.33
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.1152	4.1152
	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.288	0.287
	Sample Concentration in µCi/g	<	4.66E-03	BOOK#
S9511481	Replicate Concentration in µCi/g		4.64E-03	
WB27810	Maximum Concentration in µCi/g	<	4.6608E-03	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
10/25/95				
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 4.66E-03	DETECTION LEVEL
LESS THAN Value was Determined from Rs.				7.32E-03 µCi/g
RELATIVE COUNTING ERROR		=	500.0%	

Data Entry by: [signature] Date: 08/28/95

Approved by: [signature] Date: 8/28/95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		13	13
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	12	10
2103	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.18	0.18
AT	SAMPLE SIZE in mL	(SS)	1.000	1.000
Test Code	DILUTION FACTOR	(DF)	34.33	34.33
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	4.1476	4.1476
Matrix	EFFICIENCY FACTOR	(EFF)	0.2322	0.2322
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.220	0.369
Sample #	Sample Concentration in µCi/g		3.53E-03	BOOK#
S95T1481	Replicate Concentration in µCi/g	<	5.93E-03	
Instrument Code				
WB27810	Maximum Concentration in µCi/g	<	5.9277E-03	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
08/28/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:30 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 5.93E-03	DETECTION LEVEL
	LESS THAN Value was Determined from Rs.			7.26E-03 µCi/g
RELATIVE COUNTING ERROR		=	167.2%	

Data Entry by:	Sharon L. Holder	Date:	08/28/95
Approved by:	[signature]	Date:	8/28/95

Form 508101_C Rev. 1.3

LABCORE Data Entry Template for Worklist# 2232

Analyst: AKL **Instrument:** AB00 15 WB 26822 **Book #** 140852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG	0.63			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001426	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000104	BY-108 (R)	4	SAMPLE	S95T001426	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000104	BY-108 (R)	5	DUP	S95T001426	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000104	BY-108 (R)	5	DUP	S95T001426	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000104	BY-108 (R)	6	SPK	S95T001426	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2232

A Lewis
Analyst Signature **Date**

Sharon L Hall 9.7.95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) LIQUIDS

			STANDARD	REPLICATE
	DETECTOR NUMBER		15	15
STANDARD	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	4136	4431
2232	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.16	0.16
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR	(DDF)	1	1
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		137.707	147.540
	Sample Concentration in µCi/L		2.61E-02	BOOK#
WORKLIST#2232	Replicate Concentration in µCi/L		2.79E-02	140852
WB26572	Average Concentration in µCi/L		2.6994E-02	
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)			
09/05/95	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/mL (Average) =	2.70E-05	
			8.17E-08 µCi/mL
RELATIVE COUNTING ERROR	=	3.1%	

Data Entry by: [signature] Date: 09/06/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

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Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			BLANK	REPLICATE
Type	DETECTOR NUMBER		15	15
BLANK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	3	0
2232	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.16	0.16
AT	SAMPLE SIZE in mL	(SS)	0.300	0.300
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.1268	1.1268
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.170	0.170
Sample #	Sample Concentration in µCi/g	<	9.64E-02	BOOK#
S95T1426	Replicate Concentration in µCi/g	<	9.64E-02	
Instrument Code				
WB26872	Maximum Concentration in µCi/g	<	9.6366E-02	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/05/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Maximum) =	< 9.64E-02	DETECTION LEVEL
	LESS Than Value was Determined from Lc.			
RELATIVE COUNTING ERROR		=	500.0%	2.44E-01 µCi/g

Data Entry by:	Sharon L. Walsh	Date:	09/06/95
Approved by:	[signature]	Date:	9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)
LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	24	23
2232	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.16	0.16
AT	SAMPLE SIZE in mL	(SS)	0.300	0.300
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.1268	1.1268
[illegible]	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.640	0.607
[illegible]	Sample Concentration in µCi/g		3.62E-01	BOOK#
S95T1426	Replicate Concentration in µCi/g		3.43E-01	
Instrument Code				
WB26872	Average Concentration in µCi/g		3.5249E-01	
[illegible]				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
[illegible]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/05/95				
[illegible]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL in µCi/g (Average)	=	3.52E-01	
RELATIVE COUNTING ERROR	=	56.8%	2.44E-01 µCi/g

Data Entry by:	[signature]	Date:	09/06/95
Approved by:	[signature]	Date:	9/7/95

Form 508101_C Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		15	15
DUPLICATE	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	27	26
2232	COUNT TIME in MINUTES	(CT)	30	30
AT or TD ?	BACKGROUND in cpm	(BKG)	0.16	0.16
AT	SAMPLE SIZE in mL	(SS)	0.300	0.300
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.2524	1.2524
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.740	0.707
Sample #	Sample Concentration in µCi/g		3.76E-01	BOOK#
S95T1426	Replicate Concentration in µCi/g		3.60E-01	
Instrument Code				
WB26872	Average Concentration in µCi/g		3.6802E-01	
Analyst				
AKL	Rs (Sample Count Rate) = (TC / CT) - BKG			
Date	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
09/05/95				
Time	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
02:00 PM	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			

v RESULTS v

ALPHA TOTAL	in µCi/g	(Average) =	3.68E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR		=	51.3%	2.20E-01 µCi/g

Data Entry by: Sharon L Holden Date: 09/06/95

Approved by: [signature] Date: 9/7/95

Form 508101_C Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-CD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2)

LA-548-101 (A-3) SOLIDS

Type	
SPIKE	
Work List	
2232	
AT or LT	
AT	
Test Code	
ALPHA01	
Matrix	
SOLID	
Sample #	
S95T1426	
Instrument Code	
WB26872	
Analyst	
AKL	
Date	
09/05/95	
Time	
02:00 PM	

		SPIKE	REPLICATE
DETECTOR NUMBER		15	15
DISH SIZE 1 , 2 , or 5	(MS)	2	2
TOTAL COUNTS	(TC)	69831	69264
COUNT TIME in MINUTES	(CT)	30	30
BACKGROUND in cpm	(BKG)	0.16	0.16
SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.300	0.300
SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
DIGEST GRAMS of SOLIDS/L	(Dg/L)	1.1268	1.1268
SPIKE VOLUME in mL	(SVol)	0.100	0.100
SPIKE DILUTION FACTOR	(SDF)	1	1
SPIKE VALUE in µCi/L	(SVal)	44.777	44.777
INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.238	0.238
SAMPLE + SPIKE µCi/g	(S+S)	1.31E+03	1.31E+03
AVERAGE or MAXIMUM µCi/g from FORM C		3.5249E-01	
BOOK#		112843	

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

PERCENT SPIKE RECOVERY = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/SVol)/(DF/SS/Dg/L)))/SVal)*100

RESULT **AVG. PERCENT SPIKE RECOVERY = 97.8%**

Data Entry by: [signature] Date: 06-Sep-95

Approved by: [signature] Date: 9/7/95

Form 508101_X Rev. 1.3

LABCORE Data Entry Template for Worklist# 2794

Analyst: RK **Instrument:** AB00 WB27807 **Book #** 140852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002012	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002012	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002012	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002012	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002012	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002013	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002013	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002013	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002013	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002013	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2794

Nick Kimp 10/9/95

M S Lucas 10/10/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2794

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date				Analyst Signature			Date	
[signature]		10/9/95								

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

Type	Work List	AT or TB ?	Test Code	Matrix	Batch Number	Rerun	Sample Prep	Sample #	Instrument Code	Prepared By	Chemist	Analyst	Date Complete	Analysis Date	Analysis Time	Sample Point
STD	2794	AT	@ALPHA01	LIQUID	95003010	0	N/A	WRKLST#2794	WB27807	MCB	SLF	RWK	10/10/95	10/09/95	03:00 PM	BY-108

		STANDARD	REPLICATE
DETECTOR NUMBER		14	14
DISH SIZE (1, 2, or 5)	(MS)	2	2
GROSS COUNTS	(GC)	4178	4435
COUNT TIME in MINUTES	(CT)	30	30
BACKGROUND in cpm	(BKG)	0.25	0.25
SAMPLE SIZE in mL	(SS)	10.000	10.000
DILUTION FACTOR	(DF)	1	1
STANDARD BOOK NUMBER	(Std BN)	140B52	140B52
EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		139.017	147.583
Standard Value in µCi/mL		2.96E-05	
Concentration in µCi/L	=	2.75E-02	
Replicate Concentration in µCi/L	=	2.92E-02	
AVERAGE CONCENTRATION in µCi/L	=	2.8386E-02	

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

			DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL		2.84E-05	
RELATIVE COUNTING ERROR	=	3.0%	1.02E-07 µCi/mL

Analyst: MCB Date: 10-Oct-95

Signature of Chemist: SLF Date: 10/11/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type	BLNK-PREP	REPLICATE
Work List	2794	
AT or TA #	AT	
Test Code	@ALPHA01	
Matrix	SOLID	
Batch Number	95003010	
Rerun	0	
Sample Prep	N/A	
Sample #	S95T2012	
Instrument Code	WB27807	
Prepared By	MCB	
Chemist	SLF	
Analyst	RWK	
Date Complete	10/10/95	
Analysis Date	10/09/95	
Analysis Time	03:00 PM	
Sample Point	BY-108	

		BLNK-PREP	REPLICATE
DETECTOR NUMBER		14	14
DISH SIZE (1 , 2 , or 5)	(MS)	2	2
GROSS COUNTS	(GC)	8	19
COUNT TIME in MINUTES	(CT)	30	30
BACKGROUND in cpm	(BKG)	0.25	0.25
SAMPLE SIZE in mL	(SS)	0.500	0.500
DILUTION FACTOR	(DF)	101	101
DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0104	2.0104
EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.273	0.383

Blank Concentration in µCi/g	<	5.44E-02
Replicate Concentration in µCi/g		7.63E-02
Maximum Concentration in µCi/g	<	7.6296E-02

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 7.63E-02	1.03E-01 µCi/g
	LESS THAN Value was Determined from		
RELATIVE COUNTING ERROR		500.0%	

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		14	14
	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	31	38
2794	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0104	2.0104
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.783	1.017
Batch Number				
95003010	Blank Concentration in µCi/g		1.56E-01	
Rerun	Replicate Concentration in µCi/g		2.02E-01	
0	Average Concentration in µCi/g		1.7913E-01	

Sample Prep	
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T002012	
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
MCB	
Chemist	

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	1.79E-01	DETECTION LEVEL
Analyst				
RWK				1.03E-01
Date Complete				µCi/g
10/10/95	RELATIVE COUNTING ERROR		51.8%	
Analysis Date				
10/09/95				
Analysis Time				
03:00 PM				
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

Type			DUP	REPLICATE
DUP	DETECTOR NUMBER		14	14
Work Log	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2794	GROSS COUNTS	(GC)	35	35
AT or TE ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.25	0.25
Test Code	SAMPLE SIZE in mL	(SS)	0.500	0.500
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0308	2.0308
SOLID	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.917	0.917
95003010				
Reran	Blank Concentration in µCi/g		1.81E-01	
0	Replicate Concentration in µCi/g		1.81E-01	
Sample Prep	Average Concentration in µCi/g		1.8061E-01	
FUSION01				
Sample #				
S95T002012				
Instrument Code				
WB27807				
Prepared By				
MCB				
Chemist				
SLF				
Analyst				
RWK				
Date Complete				
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:00 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	1.81E-01	
			1.02E-01 µCi/g
RELATIVE COUNTING ERROR		46.5%	

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER		SPIKE	REPLICATE
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	66223	69602
2794	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0104	2.0104
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003010	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	4.39E+02	4.62E+02
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE		1.7913E-01	
FUSION01				
Sample #				
S95T002012	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27807	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Chemist				
SLF				
Analyst				
RWK				
Date Complete				
10/10/95				
Analysis Date				
10/09/95	QC ACTUAL	=	4.48E-02	
Analysis Time	QC FOUND	=	4.48E-02	
03:00 PM	AVG. PERCENT SPIKE RECOVERY	=	100.1%	
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		14	14
	DISH SIZE (1, 2, or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	49	50
2794	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1056	2.1056
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.383	1.417
Batch Number				
95003010	Blank Concentration in µCi/g		2.63E-01	
Rerun	Replicate Concentration in µCi/g		2.69E-01	
0	Average Concentration in µCi/g		2.6605E-01	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T002013				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist		v RESULTS v		
SLF	ALPHA TOTAL	in µCi/g	2.66E-01	DETECTION LEVEL
Analyst				
RWK				9.82E-02
Date Complete	RELATIVE COUNTING ERROR		35.5%	µCi/g
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:00 PM				
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
Type	DETECTOR NUMBER		14	14
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	60	61
2794	COUNT TIME in MINUTES	(CT)	30	30
AT or TB 7	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0956	2.0956
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.417	1.783

Batch Number		
95003010	Blank Concentration in µCi/g	2.70E-01
Rerun	Replicate Concentration in µCi/g	3.41E-01
0	Average Concentration in µCi/g	3.0551E-01

Sample Prep: FUSION01

Sample #: S95T002013

Instrument Code: WB27807

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:00 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

	v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in µCi/g	3.06E-01	
			9.87E-02 µCi/g
RELATIVE COUNTING ERROR		35.0%	

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:	[signature]	SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type			SPIKE	REPLICATE
SPK	DETECTOR NUMBER		14	14
	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	64553	68977
2794	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1056	2.1056
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003010	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	4.09E+02	4.24E+02
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE		2.6605E-01	
FUSION01				
Sample #				
S95T002013	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27807	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Chemist				
SLF				
Analyst				
RWK				
Date Complete				
10/10/95				
Analysis Date				
10/09/95	QC ACTUAL	=	4.48E-02	
Analysis Time	QC FOUND	=	4.34E-02	
03:00 PM	AVG. PERCENT SPIKE RECOVERY	=	96.9%	
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SPIKE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2795

Analyst: Kim Thomas **Instrument:** AB00 WB27807 **Book #** 17852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002010	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002010	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002010	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002010	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002010	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002011	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002011	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002011	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002011	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002011	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2795

Kim Thomas

10/11/95

Data Entry Comments:

The high RPD For 2011 is acceptable due to low sample alpha activity. The low spk recovery For this sample is also acceptable due to the low activity.

10/17/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2795

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature			Date	
Kim Thomas		10-10-95									

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		14	14
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work Order	GROSS COUNTS	(GC)	2927	2987
2795	COUNT TIME in MINUTES	(CT)	30	30
Analysis Type	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	147B52	147B52
Matrix	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		97.367	99.367
Batch Number	Standard Value in µCi/mL		~~1.69E-05~~	1.92E-5 JB 12/19/95
95003011	Concentration in µCi/L	=	1.93E-02	
Rep No.	Replicate Concentration in µCi/L	=	1.97E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	1.9485E-02	
Sample Prep				
N/A				
Standard				
WRKLST#2795				
Instrument Code				
WB27807				
Prepared By				
MCB				
Chemist				
SLF				
Run Unit				
KNT				
Data Count Date				
10/11/95				
Analysis Date				
10/10/95				
Analysis Time				
11:25 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

ALPHA TOTAL CONCENTRATION in µCi/mL			1.95E-05	DETECTION LEVEL
				9.34E-08 µCi/mL
RELATIVE COUNTING ERROR	=	3.6%		

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
	DETECTOR NUMBER		14	14
BLNK-PREP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	13	16
2795	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0408	2.0408
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.233	0.333
95003011	Blank Concentration in µCi/g		4.53E-04	
	Replicate Concentration in µCi/g		6.47E-04	
0	Average Concentration in µCi/g		5.5003E-04	

Sample Prep	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T2010	
Instrument Code	Relative Counting Error = [ ](The Square Root of TC + BKG * CT) / (TC - BKG * CT)[ ] * 1.96 * 100
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
MCB	
Checked	
SLF	
Analyst	
KNT	
Date Completed	
10/11/95	
Analysis Date	
10/10/95	
Analysis Time	
11:25 PM	
Sample Point	
BY-108	

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	5.50E-04	
			9.16E-04
RELATIVE COUNTING ERROR		122.0%	µCi/g

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

BLANK.WB1 Rev. 1.0 508101WL

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	14	21
2795	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0408	2.0408
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.267	0.500

95003011	Blank Concentration in µCi/g	5.18E-04
	Replicate Concentration in µCi/g	9.71E-04
0	Average Concentration in µCi/g	7.4415E-04

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002010

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27807

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

MCB

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	7.44E-04
KNT			
10/11/95	RELATIVE COUNTING ERROR		109.6%

DETECTION LEVEL
9.16E-04 µCi/g

10/10/95

11:25 PM

BY-108

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 11/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
[illegible]	DETECTOR NUMBER		14	14
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
[illegible]	GROSS COUNTS	(GC)	9	21
2795	COUNT TIME in MINUTES	(CT)	30	30
[illegible]	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
[illegible]	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0376	2.0376
[illegible]	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.313	0.500
[illegible]				
95003011	Blank Concentration in µCi/g	<	6.09E-04	
[illegible]	Replicate Concentration in µCi/g		9.72E-04	
0	Maximum Concentration in µCi/g	<	9.7216E-04	

[illegible]	
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG
[illegible]	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T002010	
[illegible]	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
[illegible]	
MCB	
[illegible]	

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	< 9.72E-04	DETECTION LEVEL
[illegible]				
KNT		LESS THAN Value was Determined from		9.17E-04 µCi/g
[illegible]				
10/11/95	RELATIVE COUNTING ERROR		253.0%	
[illegible]				
10/10/95				
[illegible]				
11:25 PM				
[illegible]				
BY-108				

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		14	14
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	63507	61065
2795	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0408	2.0408
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003011	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	4.13E+00	3.95E+00
	AVERAGE or MAXIMUM µCi/g in SAMPLE		7.4415E-04	
FUSION01				
S95T002010	Rs (Sample Count Rate) = (TC / CT) - BKG			
	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27807	QC ACTUAL = SVal			
	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
SLF				
KNT				
10/11/95				
10/10/95	QC ACTUAL	=	4.48E-02	
	QC FOUND	=	4.12E-02	
11:25 PM	AVG. PERCENT SPIKE RECOVERY	=	92.1%	
BY-108				

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	275	286
2795	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.052	2.052
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		8.967	9.333

95003011	Blank Concentration in µCi/g	1.73E-02
	Replicate Concentration in µCi/g	1.80E-02
0	Average Concentration in µCi/g	1.7666E-02

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

S95T002011

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

WB27807

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

MCB

v RESULTS v

SLF

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	1.77E-02	
			9.11E-04 µCi/g
RELATIVE COUNTING ERROR		12.2%	

KNT

10/11/95

10/10/95

11:25 PM

BY-108

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8 WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		14	14
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	189	159
2795	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0572	2.0572
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		6.100	5.100

95003011	Blank Concentration in µCi/g	1.17E-02
	Replicate Concentration in µCi/g	9.82E-03
0	Average Concentration in µCi/g	1.0784E-02

FUSION01
S95T002011
WB27807
MCB
SLF
KNT
10/11/95
10/10/95
11:25 PM
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	1.08E-02	
			9.08E-04 µCi/g
RELATIVE COUNTING ERROR		16.5%	

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		14	14
SPK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Count Time	TOTAL COUNTS	(TC)	46739	47714
2795	COUNT TIME in MINUTES	(CT)	30	30
Background	BACKGROUND in cpm	(BKG)	0.2	0.2
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.052	2.052
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003011	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
Factor	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	3.01E+00	3.07E+00
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE		1.7666E-02	
FUSION01				
Sample #				
S95T002011	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27807	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Chemist				
SLF				
Analyst				
KNT				
Date Counted				
10/11/95				
Analysis Date				
10/10/95	QC ACTUAL	=	4.48E-02	
Analysis Time	QC FOUND	=	3.10E-02	
11:25 PM	AVG. PERCENT SPIKE RECOVERY	=	69.2%	
Sample Point				
BY-108				

Analyst:		MCB	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SPIKE.WB1 Rev. 1.0 508101ML

worklistrpt Version 2.1 05/15/95
10/06/95 09:28

LABCORE Data Entry Template for Worklist# 2796

Analyst: BR **Instrument:** AB00 16 **Book #** 147B52

Method: LA-508-101 Rev/Mod ~~D-2~~ SLF 10/12/95 D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002008	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002008	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002008	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002008	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002008	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002009	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002009	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002009	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002009	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002009	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2796

Mark King 10/10/95 SE Hodgen 10/11/95

Data Entry Comments:

Low SPK recovery For Sample 2008 is acceptable due to the low activities of the sample.

10/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2796

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature			Date	
Rob King		10/10/95									

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) STANDARD

			STANDARD	REPLICATE
	DETECTOR NUMBER		[illegible]	16
STD	DISH SIZE (1, 2, or 5)	(MS)	[illegible]	2
	GROSS COUNTS	(GC)	[illegible]	[illegible]
2796	COUNT TIME in MINUTES	(CT)	[illegible]	30
	BACKGROUND in cpm	(BKG)	[illegible]	0.1
AT	SAMPLE SIZE in mL	(SS)	[illegible]	10.000
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	[illegible]	147B52
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		99.800	94.067
	Standard Value in µCi/mL		~~1.00E-05~~	1.92E-5 JO 14/8/95
95003012	Concentration in µCi/L	=	2.14E-02	
	Replicate Concentration in µCi/L	=	2.01E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	2.0753E-02	

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

[illegible]

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

[illegible]

SEH

SLF

[illegible]

ALPHA TOTAL CONCENTRATION in µCi/mL		2.08E-05	DETECTION LEVEL
RELATIVE COUNTING ERROR	=	3.7%	7.71E-08 µCi/mL

[illegible]

[illegible]

[illegible]

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

WHC-SD-WM-DP-145, REV/

AT : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
	DETECTOR NUMBER		16	16
BLNK-PREP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	2	4
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.004	2.004
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.135	0.179

95003012	Blank Concentration in µCi/g	<	1.44E-03
	Replicate Concentration in µCi/g	<	1.91E-03
0	Maximum Concentration in µCi/g	<	1.9107E-03

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB2796

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	< 1.91E-03	DETECTION LEVEL
RWK		LESS Than Value was Determined from L		
10/11/95	RELATIVE COUNTING ERROR		500.0%	3.85E-03 µCi/g
10/16/95				
02:00 PM				
BY-199				

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

BLANK.WB1 Rev. 1.0 508101ML

I:\508101\OUT\AT2796.WB1 10/16/95

WORKBOOK PAGE: SAM4

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	9	9
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.004	2.004
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.200	0.200

95003012	Blank Concentration in µCi/g	2.14E-03
	Replicate Concentration in µCi/g	2.14E-03
0	Average Concentration in µCi/g	2.1367E-03

FUSION01

S95T002008

WB27806

SEH

SLF

RWK

10/11/95

10/10/95

02:00 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

	v RESULTS v in µCi/g		DETECTION LEVEL
ALPHA TOTAL		2.14E-03	
RELATIVE COUNTING ERROR		113.2%	3.85E-03 µCi/g

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:	[signature]	SLF	Date: 10/17/95

SAMPLE.WB1 Rev. 1.0 508101ML

I:\508101\OUT\AT2796.WB1 10/16/95

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		10	10
DUP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	9	10
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0052	2.0052
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.265	0.233
95003012	Blank Concentration in µCi/g	<	2.83E-03	
	Replicate Concentration in µCi/g		2.49E-03	
0	Maximum Concentration in µCi/g	<	2.8294E-03	

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002008

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

[redacted]

SEH

SLF

MVK

10/11/95

10/10/95

02:00 PM

BY-108

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 2.83E-03	
	LESS THAN Value was Determined from		3.84E-03 µCi/g
RELATIVE COUNTING ERROR		196.0%	

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

SAMPLE.WB1 Rev. 1.0 508101ML

WHC-SD-WM-DP-145, REV.1

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		16	16
SPK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	48760	48938
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.004	2.004
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003012	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
0	SAMPLE + SPIKE µCi/g	(S+S)	1.74E+01	1.78E+01
	AVERAGE or MAXIMUM µCi/g in SAMPLE		2.1367E-03	

FUSION01

S95T002008

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

WB2796

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

SEH

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

SLF

RYK

10/11/95

10/10/95	QC ACTUAL	=	4.48E-02
	QC FOUND	=	3.52E-02
02:00 PM	AVG. PERCENT SPIKE RECOVERY	=	78.7%

BY:108

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	6	1
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0424	2.0424
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.222	0.135
95003012	Blank Concentration in µCi/g	<	4.66E-03	
	Replicate Concentration in µCi/g	<	2.82E-03	
0	Maximum Concentration in µCi/g	<	4.6590E-03	

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002009

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

[illegible]

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

[illegible]

v RESULTS v

[illegible]	ALPHA TOTAL	in µCi/g	< 4.66E-03	DETECTION LEVEL
[illegible]		LESS THAN Value was Determined from		7.55E-03 µCi/g
10/11/95	RELATIVE COUNTING ERROR		500.0%	

[illegible]

[illegible]

[illegible]

Analyst:	SEH		Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		16	16
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	1	8
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0376	2.0376
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.135	0.167

95003012	Blank Concentration in µCi/g	<	2.83E-03
	Replicate Concentration in µCi/g		3.50E-03
0	Maximum Concentration in µCi/g	<	3.5024E-03

FUSION01

S95T002009

WB27809

SEH

SLF

RWK

10/11/95

10/10/95

02:00 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 3.50E-03	
	LESS Than Value was Determined from L		7.57E-03 µCi/g
RELATIVE COUNTING ERROR		500.0%	

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:	[signature]	SLF	Date: 10/17/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		18	18
DUP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	1	0
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0376	2.0376
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE		0.135	0.167

95003012	Blank Concentration in µCi/g	<	2.83E-03
	Replicate Concentration in µCi/g		3.80E-03
0	Maximum Concentration in µCi/g	<	3.5024E-03

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002009

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB2796

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	< 3.50E-03	DETECTION LEVEL
RWK		LESS Than Value was Determined from L		
10/11/95	RELATIVE COUNTING ERROR		500.0%	7.57E-03 µCi/g

10/10/95

02:00 PM

BY-108

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		15	15
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	92928	92986
2796	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0424	2.0424
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003012	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
0	SAMPLE + SPIKE µCi/g	(S+S)	4.40E+01	4.37E+01
	AVERAGE or MAXIMUM µCi/g in SAMPLE	<	4.6590E-03	
FUSION01				

S95T002009

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

WB2796

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

SEH

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

SLF

RWK

10/11/95

NOTE: **Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.**

10/16/95

QC ACTUAL	=	4.48E-02
QC FOUND	=	4.48E-02
AVG. PERCENT SPIKE RECOVERY	=	100.0%

02:00 PM

BY-108

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/17/95

SPIKE.WB1 Rev. 1.0 508101M1

LABCORE Data Entry Template for Worklist# 2797

Analyst: RR **Instrument:** AB00 WB27806 **Book #** 140B52

Method: LA-508-101 Rev/Mod D/2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002003	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002003	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002003	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002003	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002003	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002004	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002004	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002004	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002004	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002004	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2797

[signature] 10/9/95 [signature] 10/10/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2797

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date				Analyst Signature			Date	
Rob King		10/9/95								

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

Type	DETECTOR NUMBER		STANDARD	REPLICATE
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	4375	4562
2797	COUNT TIME in MINUTES	(CT)	30	30
At or Rs ?	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	140B52	140B52
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		145.733	151.633
Batch Number	Standard Value in µCi/mL		2.96E-05	
95003013	Concentration in µCi/L	=	3.12E-02	
Rerun	Replicate Concentration in µCi/L	=	3.25E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	3.1832E-02	

Sample Prep: N/A

Sample #: WRKLST#2797

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

			DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL		3.18E-05	
RELATIVE COUNTING ERROR	=	3.0%	7.71E-08 µCi/mL

Analyst:	MCB	Date:	10-Oct-95
Signature of Chemist:	SLF	Date:	10/11/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type			BLNK-PREP	REPLICATE
BLNK-PREP	DETECTOR NUMBER		18	18
	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work Unit	GROSS COUNTS	(GC)	5	6
2797	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0312	2.0312
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.222	0.265
Batch Number				
95003013	Blank Concentration in µCi/g	<	2.34E-03	
Rerun	Replicate Concentration in µCi/g	<	2.79E-03	
0	Maximum Concentration in µCi/g	<	2.7932E-03	

Sample Prep
N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

Sample #
S95T2003

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Instrument Code
WB27806

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
MCB

Chemist
SLF

v RESULTS v

ALPHA TOTAL	in µCi/g	< 2.79E-03	DETECTION LEVEL
	LESS THAN Value was Determined from		3.80E-03 µCi/g
RELATIVE COUNTING ERROR		500.0%	

Analyst
RWK

Date Complete
10/10/95

Analysis Date
10/09/95

Analysis Time
03:40 PM

Sample Point
BY-108

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		16	16
	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	25	8
2797	COUNT TIME in MINUTES	(CT)	30	30
At or Rs ?	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0312	2.0312
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.733	0.167
Batch Number				
95003013	Blank Concentration in µCi/g		7.73E-03	
Rerun	Replicate Concentration in µCi/g		1.76E-03	
0	Average Concentration in µCi/g		4.7431E-03	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T002003				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27606	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist		v RESULTS v		
SLF	ALPHA TOTAL	in µCi/g	4.74E-03	DETECTION LEVEL
Analyst				
RWK				3.80E-03 µCi/g
Date Complete	RELATIVE COUNTING ERROR		130.0%	
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:40 PM				
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

Type			DUP	REPLICATE
DUP	DETECTOR NUMBER		16	16
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2797	GROSS COUNTS	(GC)	22	13
AT or TP ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.1	0.1
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0224	2.0224
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.633	0.333
95003013				
Rerun	Blank Concentration in µCi/g		6.70E-03	
0	Replicate Concentration in µCi/g		3.53E-03	
Sample Prep	Average Concentration in µCi/g		5.1166E-03	
FUSION01				
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG			
S95T002003	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist	v RESULTS v			
SLF	ALPHA TOTAL	in µCi/g	5.12E-03	DETECTION LEVEL
Analyst				
RWK				3.81E-03 µCi/g
Date Complete	RELATIVE COUNTING ERROR		78.4%	
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:40 PM				
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type			SPIKE	REPLICATE
SPK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
2797	TOTAL COUNTS	(TC)	59241	58029
AT or TS #	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.1	0.1
Test Code	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
@ALPHA01	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0312	2.0312
SOLID	SPIKE VOLUME in mL	(SVol)	0.100	0.100
Batch Number	SPIKE DILUTION FACTOR	(SDF)	1	1
95003013	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
Rerun	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
0	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample Prep	SAMPLE + SPIKE µCi/g	(S+S)	2.08E+01	2.04E+01
FUSION01	AVERAGE or MAXIMUM µCi/g in SAMPLE		4.7431E-03	

Sample #: S95T002003

Instrument Code: WB27806

Prepared By: MCB

Chemist: SLF

Analyst: RWK

Date Complete: 10/10/95

Analysis Date: 10/09/95

Analysis Time: 03:40 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

QC ACTUAL	=	4.48E-02
QC FOUND	=	4.18E-02
AVG. PERCENT SPIKE RECOVERY	=	93.4%

Analyst: MCB Date: 10-Oct-95

Signature of Chemist: SLF Date: 10/11/95

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	22	18
2797	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0152	2.0152
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.667	0.500
Batch Number				
95003013	Blank Concentration in µCi/g		7.08E-03	
Rerun	Replicate Concentration in µCi/g		5.31E-03	
0	Average Concentration in µCi/g		6.1973E-03	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T002004				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist	v RESULTS v			
SLF	ALPHA TOTAL	in µCi/g	6.20E-03	DETECTION LEVEL
Analyst				
RWK				3.83E-03
Date Complete	RELATIVE COUNTING ERROR		59.9%	µCi/g
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:40 PM				
Sample Point				
BY-108				

Analyst:	MCB		Date: 10-Oct-95
Signature of Chemist:	SLF		Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

Type			DUP	REPLICATE
DUP	DETECTOR NUMBER		18	18
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2797	GROSS COUNTS	(GC)	11	30
AT or TS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.1	0.1
Test Code	SAMPLE SIZE in mL	(SS)	0.100	0.100
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.024	2.024
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.267	0.900
95003013				
Rerun	Blank Concentration in µCi/g		2.82E-03	
0	Replicate Concentration in µCi/g		9.52E-03	
Sample Prep	Average Concentration in µCi/g		6.1703E-03	
FUSION01				
Sample #				
S95T002004				
Instrument Code				
WB27606				
Prepared By				
MCB				
Chemist				
SLF				
Analyst				
RWK				
Date Complete				
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
03:40 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	6.17E-03	
			3.81E-03
RELATIVE COUNTING ERROR		91.7%	µCi/g

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type			SPIKE	REPLICATE
SPK	DETECTOR NUMBER		16	16
Work List	DISH SIZE 1 , 2 , or 5	(MS)	2	2
2797	TOTAL COUNTS	(TC)	58180	57107
AT or TS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.1	0.1
Test Code	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
@ALPHA01	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0152	2.0152
SOLID	SPIKE VOLUME in mL	(SVol)	0.100	0.100
Batch Number	SPIKE DILUTION FACTOR	(SDF)	1	1
95003013	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
Rerun ?	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
0	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Sample Prep	SAMPLE + SPIKE µCi/g	(S+S)	2.06E+01	2.02E+01
FUSION01	AVERAGE or MAXIMUM µCi/g in SAMPLE		6.1973E-03	

Sample #
S95T002004
Instrument Code
WB27806
Prepared By
MCB
Chemist
SLF
Analyst
RWK
Date Complete
10/10/95
Analysis Date
10/09/95
Analysis Time
03:40 PM
Sample Point
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

QC ACTUAL	=	4.48E-02
QC FOUND	=	4.11E-02
AVG. PERCENT SPIKE RECOVERY	=	91.9%

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/10/95

SPIKE.WB1 Rev. 1.0 508101ML

LABCORE Data Entry Template for Worklist# 2820

Analyst: Kim Thomas **Instrument:** AB00 14 **Book #** 147852

Method: LA-508-101 Rev/Mod 0-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002006	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002006	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002006	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002006	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002006	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002007	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002007	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002007	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002007	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002007	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2820

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2820

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date				Analyst Signature			Date	
Kim Thomas		10-9-95				CJ Quinn			10-11-95	

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

			STANDARD	REPLICATE
	DETECTOR NUMBER		14	14
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	2936	2716
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.24	0.25
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	147B52	147B52
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		97.617	90.283
	Standard Value in µCi/mL		~~1.69E-05~~ 1.92E-5 JB	
95003042	Concentration in µCi/L	=	1.93E-02	
	Replicate Concentration in µCi/L	=	1.79E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	1.8610E-02	

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

WORKLIST#2829 ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27807 Detection Levels and Less Than Values are determined from Procedure LA-508-002.

CJO

SLF	ALPHA TOTAL CONCENTRATION in µCi/mL		1.86E-05	DETECTION LEVEL
KNT				1.02E-07 µCi/mL
10/11/95	RELATIVE COUNTING ERROR	=	3.8%	

10/09/95

07:30 PM

BY-108

Analyst:	CJO		Date: 11-Oct-95
Signature of Chemist:	SLF		Date: 10/11/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
	DETECTOR NUMBER		14	14
BLNK-PREP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	16	20
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1188	2.1188
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE		0.283	0.417

95003042	Blank Concentration in µCi/g	5.30E-03
	Replicate Concentration in µCi/g	7.79E-03
0	Average Concentration in µCi/g	6.5443E-03

Sample Prep

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T2006-BLANK

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27807

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By

CJO

v RESULTS v

			DETECTION LEVEL
SLF	ALPHA TOTAL	in µCi/g 6.54E-03	
Analyst			
KNT			9.66E-03 µCi/g
Date Counted	RELATIVE COUNTING ERROR	111.8%	
10/11/95			

Analyzed Date

10/09/95

Analyzed Time

07:30 PM

Sample Room

BY-106

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	14	14
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1188	2.1188
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.217	0.217
95003042	Blank Concentration in µCi/g		4.05E-03	
	Replicate Concentration in µCi/g		4.05E-03	
0	Average Concentration in µCi/g		4.0512E-03	

FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG
	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T002006	
	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
CJO	
	v RESULTS v
SLF	ALPHA TOTAL in µCi/g 4.05E-03
KNT	
	RELATIVE COUNTING ERROR 139.8%
10/11/95	
10/09/95	
07:30 PM	
BY-108	

DETECTION LEVEL
9.66E-03 µCi/g

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5 WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		14	14
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	8	18
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1128	2.1128
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.233	0.250
95003042	Blank Concentration in µCi/g	<	4.37E-03	
	Replicate Concentration in µCi/g		4.69E-03	
0	Maximum Concentration in µCi/g	<	4.6878E-03	

Sample Prep	
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG
Batch No.	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T002006	
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
CJO	
Checked By	
SLF	
Analyst	
KNT	
Prep Completion Date	
10/11/95	
Analysis Date	
10/09/95	
Analysis Time	
07:30 PM	
Sample Point	
BY-108	

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 4.69E-03	
	LESS THAN Value was Determined from		9.69E-03 µCi/g
RELATIVE COUNTING ERROR		500.0%	

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		14	14
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	61198	63178
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1188	2.1188
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003042	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	3.81E+01	3.94E+01
	AVERAGE or MAXIMUM µCi/g in SAMPLE		4.0512E-03	

FUSION01

S95T002006

WB27807

CJO

SLF

KNT

10/11/95

10/09/95

07:30 PM

BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

QC ACTUAL	=	4.48E-02
QC FOUND	=	4.11E-02
AVG. PERCENT SPIKE RECOVERY	=	91.7%

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SPIKE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		14	14
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	45	27
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0272	2.0272
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.250	0.650
95003042	Blank Concentration in µCi/g		2.44E-02	
	Replicate Concentration in µCi/g		1.27E-02	
0	Average Concentration in µCi/g		1.8566E-02	

FUSION01

S95T002007

WB27807

CJO

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g 1.86E-02	DETECTION LEVEL
KNT			1.01E-02 µCi/g
10/11/95	RELATIVE COUNTING ERROR	59.0%	

10/09/95

07:30 PM

BY-108

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		14	14
DUP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	28	46
2820	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE SIZE in mL	(SS)	0.050	0.050
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0316	2.0316
	EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.617	1.250

95003042	Blank Concentration in µCi/g	1.20E-02
	Replicate Concentration in µCi/g	2.44E-02
0	Average Concentration in µCi/g	1.8201E-02

FUSION01

S95T002007

WB27807

CJO

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
SLF	ALPHA TOTAL	in µCi/g 1.82E-02	
KNT			1.01E-02 µCi/g
10/11/95	RELATIVE COUNTING ERROR	61.3%	

10/09/95

07:30 PM

BY-108

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
Type	DETECTOR NUMBER		14	14
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
Work Cell	TOTAL COUNTS	(TC)	86322	86223
2820	COUNT TIME in MINUTES	(CT)	30	30
Analysis	BACKGROUND in cpm	(BKG)	0.25	0.25
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.050	0.050
Lab Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0272	2.0272
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003042	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2274	0.2274
0	SAMPLE + SPIKE µCi/g	(S+S)	4.32E+01	3.66E+01
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE		1.8566E-02	
FUSION01				
Worksheet				
S95T002007	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27807	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
CJO	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Checked By				
SLF				
Approved By				
KNT				
Date Completed				
10/11/95				
Analysis Date				
10/09/95	QC ACTUAL	=	4.48E-02	
Analysis Time	QC FOUND	=	4.04E-02	
07:30 PM	AVG. PERCENT SPIKE RECOVERY	=	90.3%	
Sample Prep				
BY-108				

Analyst:		CJO	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/15/95

SPIKE.WB1 Rev. 1.0 508101ML

LABCORE Data Entry Template for Worklist# 2821

Analyst: Kim Thomas **Instrument:** AB00 WS27809 **Book #** 147B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002014	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002014	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002014	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002014	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002014	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2821

Kim Thomas 10-9-95
Analyst Signature **Date**

[signature] 10/10/95
Analyst Signature **Date**

Data Entry Comments:

High SPK recovery is acceptable due to low activity levels in sample. [signature] 10/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

Type			STANDARD	REPLICATE
STD	DETECTOR NUMBER		18	18
Work List	DISH SIZE (1, 2, or 5)	(MS)	2	2
2821	GROSS COUNTS	(GC)	2944	2926
AT or TS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.15	0.15
Test Code	SAMPLE SIZE in mL	(SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	STANDARD BOOK NUMBER	(Std BN)	147B52	147B52
LIQUID	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		97.983	97.350
95003043	Standard Value in µCi/mL		~~1.695-05~~	1.92E-5 ✓
Rerun	Concentration in µCi/L	=	2.11E-02	
0	Replicate Concentration in µCi/L	=	2.09E-02	
Sample Prep	AVERAGE CONCENTRATION In µCi/L	=	2.1000E-02	
N/A				
Sample #				
WRKLST#2821				
Instrument Code				
WB27809				
Prepared By				
MCB				
Chemist				
SLF				
Analyst				
KNT				
Date Complete				
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
08:30 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

			DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL		2.10E-05	
RELATIVE COUNTING ERROR	=	3.6%	9.04E-08 µCi/mL

Analyst:	MCB	Date:	10-Oct-95
Signature of Chemist:	SLF	Date:	10/11/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type			BLNK-PREP	REPLICATE
BLNK-PREP	DETECTOR NUMBER		18	18
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2821	GROSS COUNTS	(GC)	2	6
AT or TB	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.15	0.15
Test Code	SAMPLE SIZE in mL	(SS)	0.250	0.250
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0048	2.0048
SOLID	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.165	0.228
95003043				
Reran	Blank Concentration in µCi/g	<	7.15E-02	
0	Replicate Concentration in µCi/g	<	9.89E-02	
Sample Prep	Maximum Concentration in µCi/g	<	9.8884E-02	
N/A				
Sample #				
S95T2014				
Instrument Code				
WB27809				
Prepared By				
MCB				
Chemist				
SLF				
Analyst				
KNT				
Date Complete				
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
08:30 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 9.89E-02	
	LESS Than Value was Determined from L		1.82E-01 µCi/g
RELATIVE COUNTING ERROR		500.0%	

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		18	18
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2821	GROSS COUNTS	(GC)	31	32
AT or TB ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.15	0.15
Test Code	SAMPLE SIZE in mL	(SS)	0.250	0.250
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0048	2.0048
SOLID	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.883	0.917
95003043				
Rerun	Blank Concentration in µCi/g		3.83E-01	
0	Replicate Concentration in µCi/g		3.97E-01	
Sample Prep	Average Concentration in µCi/g		3.8996E-01	
FUSION01				
Sample #				
S95T002014				
Instrument Code				
WB27809				
Prepared By				
MCB				
Chemist				
SLF				
Analyst				
KNT				
Date Complete				
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
08:30 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	3.90E-01	
			1.82E-01 µCi/g
RELATIVE COUNTING ERROR		44.1%	

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

Type			DUP	REPLICATE
DUP	DETECTOR NUMBER		18	18
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2821	GROSS COUNTS	(GC)	28	34
AT or TS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.15	0.15
Test Code	SAMPLE SIZE in mL	(SS)	0.250	0.250
@ALPHA01	DILUTION FACTOR	(DF)	101	101
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	1.9732	1.9732
SOLID	EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.717	0.983
95003043	Blank Concentration in µCi/g		3.15E-01	
Rerun	Replicate Concentration in µCi/g		4.33E-01	
0	Average Concentration in µCi/g		3.7419E-01	
Sample Prep				
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG			
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)			
S95T002014				
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
MCB				
Chemist	v RESULTS v			
SLF	ALPHA TOTAL	in µCi/g	3.74E-01	DETECTION LEVEL
Analyst				
KNT				1.85E-01 µCi/g
Date Complete	RELATIVE COUNTING ERROR		50.3%	
10/10/95				
Analysis Date				
10/09/95				
Analysis Time				
08:30 PM				
Sample Point				
BY-108				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:		SLF	Date: 10/11/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		18	18
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	85673	88066
2821	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.15	0.15
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.250	0.250
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	101	101
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0048	2.0048
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003043	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2095	0.2095
0	SAMPLE + SPIKE µCi/g	(S+S)	1.24E+03	1.27E+03
	AVERAGE or MAXIMUM µCi/g in SAMPLE		3.8996E-01	
FUSION01				
S95T002014	Rs (Sample Count Rate) = (TC / CT) - BKG			
	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27809	QC ACTUAL = SVal			
	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
SLF				
KNT				
10/10/95				
10/09/95	QC ACTUAL	=	4.48E-02	
	QC FOUND	=	6.22E-02	
08:30 PM	AVG. PERCENT SPIKE RECOVERY	=	139.0%	
BY-100				

Analyst:		MCB	Date: 10-Oct-95
Signature of Chemist:	[signature]	SLF	Date: 10/11/95

SPIKE.WB1 Rev. 1.0 508101ML

LABCORE Data Entry Template for Worklist# 2824

Analyst: Kim Thomas **Instrument:** AB00 16 **Book #** 147B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .500 mL sample size. Use .100 mL A-SPK. RR#1. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002001	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002001	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002002	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002002	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2824

Data Entry Comments:

The control limits for STD 147B52 have shifted. the new limits (Placed in Labcore 10/17/95) are 107.69 ± 25.65 %. The STD recovery for 4 batch is within these limits and is therefore acceptable. 10/17

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2824

GROUP	PROJECT	$ TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature			Date	
Kim Thomas		10-9-95					SE Hogan 10/11/95				

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

			STANDARD	REPLICATE
	DETECTOR NUMBER		16	16
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	2971	2972
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	147B52	147B52
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		99.000	98.967
	Standard Value in µCi/mL		~~1.00E-05~~	1.92 E-5 JG 12/13/95
95003046	Concentration in µCi/L	=	2.12E-02	
	Replicate Concentration in µCi/L	=	2.12E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	2.1192E-02	

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27808

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

SLF

KNT

10/11/95

10/09/95

10:45 PM

BY-106 R

				DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL			2.12E-05	
RELATIVE COUNTING ERROR	=	3.6%		7.71E-08 µCi/mL

Analyst: SEH Date: 11-Oct-95

Signature of Chemist: SLF Date: 10/16/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
	DETECTOR NUMBER		16	16
BLNK-PREP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	3	5
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.135	0.222
95003046	Blank Concentration in µCi/g	<	2.78E-04	
	Replicate Concentration in µCi/g	<	4.59E-04	
0	Maximum Concentration in µCi/g	<	4.5916E-04	

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27806

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

SLF

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 4.59E-04	
	LESS Than Value was Determined from L		7.44E-04 µCi/g
RELATIVE COUNTING ERROR		500.0%	

KNT

10/11/95

10/09/95

10:45 PM

BY-106 R

Analyst: SEH Date: 11-Oct-95

Signature of Chemist: SLF Date: 10/16/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

WHC-SD-WM-DP-145, REV.1

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		18	18
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	8	7
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.265	0.307

95003046	Blank Concentration in µCi/g	<	5.48E-04
	Replicate Concentration in µCi/g	<	6.35E-04
1	Maximum Concentration in µCi/g	<	6.3484E-04

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002001

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27606

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	< 6.35E-04	DETECTION LEVEL
KNT		LESS THAN Value was Determined from		7.44E-04 µCi/g
10/11/95	RELATIVE COUNTING ERROR		196.0%	

10/09/95

10:46 PM

BY-108 R

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		16	16
DUP	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	23	7
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0744	2.0744
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.733	0.307

95003046	Blank Concentration in µCi/g		1.51E-03
	Replicate Concentration in µCi/g	<	6.34E-04
1	Maximum Concentration in µCi/g	<	1.5137E-03

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002001

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB2758

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	< 1.51E-03	DETECTION LEVEL
KNT		LESS THAN Value was Determined from		7.43E-04 µCi/g
10/11/95	RELATIVE COUNTING ERROR		155.0%	

10/09/95

10:45 PM

BY-108 R

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE6

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		16	16
SPK	DISH SIZE 1 , 2 , or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	4	4
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003046	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
1	SAMPLE + SPIKE µCi/g	(S+S)	3.44E-04	6.89E-05
	AVERAGE or MAXIMUM µCi/g in SAMPLE	<	6.3484E-04	

FUSION01

S95T002001

WB27B03

SEH

SLF

KNT

10/11/95

10/09/95

10:45 PM

BY-198 R

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

NOTE: **Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.**

QC ACTUAL	=	4.48E-02
QC FOUND	=	2.14E-06
AVG. PERCENT SPIKE RECOVERY	=	0.0%

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SPIKE.WB1 Rev. 1.0 508101ML

Note: Data indicate that no spk was added to the mount. 10/16/95

WORKBOOK PAGE: SAM7

WHC-SD-WM-DP-145, REV.1

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		18	16
SAMPLE	DISH SIZE (1, 2, or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	62	58
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.2416	2.2416
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		2.000	1.833

95003046	Blank Concentration in µCi/g	3.82E-03
	Replicate Concentration in µCi/g	3.50E-03
1	Average Concentration in µCi/g	3.6612E-03

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002002

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27506

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	3.66E-03	DETECTION LEVEL
KNT				6.88E-04 µCi/g
10/11/95	RELATIVE COUNTING ERROR		27.8%	
10/09/95				
10:45 PM				
BY-106 R				

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		16	16
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	47	59
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.2436	2.2436
	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.467	1.867

95003046	Blank Concentration in µCi/g	2.80E-03
	Replicate Concentration in µCi/g	3.56E-03
1	Average Concentration in µCi/g	3.1808E-03

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002002

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB27003

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

SEH

v RESULTS v

SLF	ALPHA TOTAL	in µCi/g	3.18E-03	DETECTION LEVEL
KNT				6.87E-04
10/11/95	RELATIVE COUNTING ERROR		31.5%	µCi/g

10/09/95

10:45 PM

BY-108 R

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE9

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		16	16
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	75	140
2824	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.2416	2.2416
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003046	SPIKE VALUE in µCi/mL	(SVal)	4.4770E-02	4.4770E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
1	SAMPLE + SPIKE µCi/g	(S+S)	4.58E-03	8.72E-03
	AVERAGE or MAXIMUM µCi/g in SAMPLE		3.6612E-03	

FUSION01

S95T002002

Rs (Sample Count Rate) = (TC / CT) - BKG

WB27806

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

SEH

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

SLF

KNT

10/11/95

10/09/95	QC ACTUAL	=	4.48E-02
	QC FOUND	=	3.35E-05
10:45 PM	AVG. PERCENT SPIKE RECOVERY	=	0.1%

BY-108 R

Analyst:		SEH	Date: 11-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SPIKE.WB1 Rev. 1.0 508101ML

Note: Data indicate that no spk was added to the mount. 10/16/95

BY108

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2899

Analyst: Kim Thomas **Instrument:** AB00 WB26872 **Book#** 147B52

Method: LA-508-101 **Rev/Mod** D-2

Worklist Comment: Determine sample size using Ludlum / jls for slf

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	STD				@ALPHA01	SOLID		
2	BLNK-PREP				@ALPHA01	SOLID		
3	SAMPLE	S95T002005	0	F	@ALPHA01	SOLID	95000118	BY-108 (R)
	Analytes Requested: ALPHA01 , ALPHA01E							
4	DUP	S95T002005	0	F	@ALPHA01	SOLID		
5	SPK	S95T002005	0	F	@ALPHA01	SOLID		

Final page for worklist # 2899

Kim Thomas 10-14-95
Analyst Signature **Date**

D. H. Milicia 10-16-95
Analyst Signature **Date**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

			STANDARD	REPLICATE
Type	DETECTOR NUMBER		15	15
STD	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work Order	GROSS COUNTS	(GC)	2734	2905
2899	COUNT TIME in MINUTES	(CT)	30	30
Analysis Type	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	10.000	10.000
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER	(Std BN)	147B52	147B52
Matrix	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		90.913	96.613
Batch Number	Standard Value in µCi/mL		~~1.60E-05~~	1.72E-5 JO 12/19/95
95003147	Concentration in µCi/L	=	1.72E-02	
Sample Type	Replicate Concentration in µCi/L	=	1.83E-02	
0	AVERAGE CONCENTRATION in µCi/L	=	1.7746E-02	
Sample Prep				
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG			
Balance ID	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)			
2899	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L			
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100			
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.			
Prepared By				
DHM				
Counted By				
SLF	ALPHA TOTAL CONCENTRATION in µCi/mL		1.77E-05	DETECTION LEVEL
Analyst				
KNT				9.28E-08
Date Counted	RELATIVE COUNTING ERROR	=	3.8%	µCi/mL
10/16/95				
Analysis Date				
10/14/95				
Analysis Time				
03:50 AM				
Sample Point				
BY-108				

Analyst:		DHM	Date: 16-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

STANDARD.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

			BLNK-PREP	REPLICATE
	DETECTOR NUMBER		15	15
BLNK-PREP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	14	10
2899	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1672	2.1672
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.247	0.337
95003147	Blank Concentration in µCi/g			2.15E-03
	Replicate Concentration in µCi/g	<		2.95E-03
0	Maximum Concentration in µCi/g	<		2.9467E-03

Sample Prep
N/A
Sample #
Instrument Code
WB26872
Prepared By
DHM
Checked By
SLF
Analyst
KNT
Date Counted
10/16/95
Analysis Date
10/14/95
Analysis Time
03:50 AM
Sample Plant
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 2.95E-03	
	LESS THAN Value was Determined from		4.28E-03 µCi/g
RELATIVE COUNTING ERROR		234.9%	

Analyst:		DHM	Date: 16-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM3 WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
	DETECTOR NUMBER		15	15
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	11	16
2899	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1672	2.1672
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.377	0.313
95003147	Blank Concentration in µCi/g	<	3.30E-03	
	Replicate Concentration in µCi/g		2.74E-03	
0	Maximum Concentration in µCi/g	<	3.2959E-03	

FUSION01
S95T002005
WB26572
DHM
SLF
KNT
10/16/95
10/14/95
03:50 AM
BY-106

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 3.30E-03	
	LESS THAN Value was Determined from		
RELATIVE COUNTING ERROR		186.9%	4.28E-03 µCi/g

Analyst:		DHM	Date: 16-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
	DETECTOR NUMBER		15	15
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
	GROSS COUNTS	(GC)	14	14
2899	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE SIZE in mL	(SS)	0.100	0.100
	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.5452	2.5452
	EFFICIENCY FACTOR	(EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.247	0.247

95003147	Blank Concentration in µCi/g	1.83E-03
	Replicate Concentration in µCi/g	1.83E-03
0	Average Concentration in µCi/g	1.8343E-03

FUSION01

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

S95T002005

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

WB26872

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

DHM

v RESULTS v

			DETECTION LEVEL
SLF	ALPHA TOTAL	in µCi/g 1.83E-03	
KNT			3.65E-03 µCi/g
10/16/95	RELATIVE COUNTING ERROR	120.2%	

10/14/95

03:50 AM

BY-108

Analyst:		DHM	Date: 16-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SAMPLE.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SPIKE5

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SPIKED SAMPLE

			SPIKE	REPLICATE
	DETECTOR NUMBER		15	15
SPK	DISH SIZE 1, 2, or 5	(MS)	2	2
	TOTAL COUNTS	(TC)	70961	75671
2899	COUNT TIME in MINUTES	(CT)	30	30
	BACKGROUND in cpm	(BKG)	0.22	0.22
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.100	0.100
	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.1672	2.1672
	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95003147	SPIKE VALUE in µCi/mL	(SVal)	4.4769E-02	4.4769E-02
	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.238	0.238
0	SAMPLE + SPIKE µCi/g	(S+S)	2.07E+01	2.20E+01
	AVERAGE or MAXIMUM µCi/g in SAMPLE	<	3.2959E-03	
FUSION01				
S95T002005	Rs (Sample Count Rate) = (TC / CT) - BKG			
	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
15	QC ACTUAL = SVal			
	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
DHM	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
SLF				
KNT				
10/16/95	NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.			
10/14/95	QC ACTUAL	=	4.48E-02	
	QC FOUND	=	4.62E-02	
03:50 AM	AVG. PERCENT SPIKE RECOVERY	=	103.3%	
BY-106				

Analyst:		DHM	Date: 16-Oct-95
Signature of Chemist:		SLF	Date: 10/16/95

SPIKE.WB1 Rev. 1.0 508101ML

I:\508101\OUT\AT2899.WB1 10/16/95

THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 2705

KNT

Analyst: Kim Thomas **Instrument:** AB00 16 **Book #** 147852

Method: LA-508-101 Rev/Mod 0-2 ~~WB27806~~ WB27806

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1	STD				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2	BLNK-PREP				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2	BLNK-PREP				@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3	BLNK/BKG				@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	4	SAMPLE	S95T002001	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	5	DUP	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	5	DUP	S95T002001	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	6	SPK	S95T002001	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000118	BY-108 (R)	7	SAMPLE	S95T002002	0	F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000118	BY-108 (R)	8	DUP	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000118	BY-108 (R)	8	DUP	S95T002002	0	F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000118	BY-108 (R)	9	SPK	S95T002002	0	F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist # 2705

DATA NOT USED IN PACKAGE

Data Entry Comments:

STD recovery is out of control limits
batch will be rerun. 10/2/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2705

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature			Date	
Kim Thomas		10-3-95					CJ. Quinn			10/5/95	

DATA NOT USED IN PACKAGE

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2) STANDARD

Type	Work List	AT or TS ?	Test Code	Matrix	Batch Number	Rerun	Sample Prep	Sample #	Instrument Code	Prepared By	Chemist	Analyst	Date Complete	Analysis Date	Analysis Time	Sample Point
STD	2705	AT	@ALPHA01	LIQUID	95002905	0	N/A	WORKLIST2705	WB27805	CJO	SLF	KNT	10/05/95	10/03/95	03:15 PM	BY-108

			STANDARD	REPLICATE
DETECTOR NUMBER			18	18
DISH SIZE (1, 2, or 5)	(MS)		2	2
GROSS COUNTS	(GC)		4952	4680
COUNT TIME in MINUTES	(CT)		30	30
BACKGROUND in cpm	(BKG)		0.03	0.03
SAMPLE SIZE in mL	(SS)		10.000	10.000
DILUTION FACTOR	(DF)		1	1
STANDARD BOOK NUMBER	(Std BN)		147B52	147B52
EFFICIENCY FACTOR	(EFF)		0.2104	0.2104
Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			165.037	156.303
Standard Value in µCi/mL			~~1.00E-05~~	1.92E-5 JG
Concentration in µCi/L		=	3.53E-02	
Replicate Concentration in µCi/L		=	3.35E-02	
AVERAGE CONCENTRATION in µCi/L		=	3.4398E-02	

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)

ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

				DETECTION LEVEL
ALPHA TOTAL CONCENTRATION in µCi/mL			3.44E-05	5.10E-08 µCi/mL
RELATIVE COUNTING ERROR		=	2.9%	

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/6/95

STANDARD.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type			BLNK-PREP	REPLICATE
BLNK-PREP	DETECTOR NUMBER		15	15
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2705	GROSS COUNTS	(GC)	4	3
AT or TR ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.03	0.03
Test Code	SAMPLE SIZE in mL	(SS)	0.500	0.500
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.103	0.179
95002905				
Rerun	Blank Concentration in µCi/g		2.14E-04	
0	Replicate Concentration in µCi/g	<	3.69E-04	
Sample Prep	Maximum Concentration in µCi/g	<	3.6904E-04	
N/A				
Sample #				
S95T2001-BLK				
Instrument Code				
WB27806				
Prepared By				
CJO				
Chemist				
SLF				
Analyst				
KNT				
Date Complete				
10/05/95				
Analysis Date				
10/03/95				
Analysis Time				
03:15 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 3.69E-04	
	LESS THAN Value was Determined from		4.92E-04 µCi/g
RELATIVE COUNTING ERROR		184.3%	

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/6/95

BLANK.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

			SAMPLE	REPLICATE
Type	DETECTOR NUMBER		16	16
SAMPLE	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work List	GROSS COUNTS	(GC)	2	7
2705	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.03	0.03
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.179	0.203
Batch Number				
95002905	Blank Concentration in µCi/g	<	3.69E-04	
Rerun	Replicate Concentration in µCi/g		4.20E-04	
0	Maximum Concentration in µCi/g	<	4.2011E-04	

Sample Prep
FUSION01
Sample #
S95T002001
Instrument Code
WB27806
Prepared By
CJO
Chemist
SLF
Analyst
KNT
Date Complete
10/05/95
Analysis Date
10/03/95
Analysis Time
03:15 PM
Sample Point
BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	< 4.20E-04	
	LESS THAN Value was Determined from		4.92E-04 µCi/g
RELATIVE COUNTING ERROR		184.3%	

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/9/95

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
Type	DETECTOR NUMBER		18	18
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work Lot	GROSS COUNTS	(GC)	24	20
2705	COUNT TIME in MINUTES	(CT)	30	30
AT or TB ?	BACKGROUND in cpm	(BKG)	0.03	0.03
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0744	2.0744
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		0.770	0.637

Batch Number		
95002905	Blank Concentration in µCi/g	1.59E-03
Rerun	Replicate Concentration in µCi/g	1.31E-03
0	Average Concentration in µCi/g	1.4518E-03

Sample Prep: FUSION01

Sample #: S95T002001

Instrument Code: WB27806

Prepared By: CJO

Chemist: SLF

Analyst: KNT

Date Complete: 10/05/95

Analysis Date: 10/03/95

Analysis Time: 03:15 PM

Sample Point: BY-108

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	1.45E-03	
			4.92E-04 µCi/g
RELATIVE COUNTING ERROR		46.9%	

Analyst		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/9/95

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type			SPIKE	REPLICATE
SPK	DETECTOR NUMBER		16	16
	DISH SIZE 1 , 2 , or 5	(MS)	2	2
Work List	TOTAL COUNTS	(TC)	37552	36497
2705	COUNT TIME in MINUTES	(CT)	30	30
AT or TS ?	BACKGROUND in cpm	(BKG)	0.03	0.03
AT	SAMPLE VOLUME in mL (Spiked Vial)	(SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial)	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.0724	2.0724
Matrix	SPIKE VOLUME in mL	(SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR	(SDF)	1	1
Batch Number	SPIKE BOOK NUMBER	(Spk BN)	112B43	112B43
95002905	SPIKE VALUE in µCi/mL	(SVal)	4.4772E-02	4.4772E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
0	SAMPLE + SPIKE µCi/g	(S+S)	2.59E+00	2.51E+00
Sample Prep	AVERAGE or MAXIMUM µCi/g in SAMPLE	<	4.2011E-04	
FUSION01				
Sample #				
S95T002001	Rs (Sample Count Rate) = (TC / CT) - BKG			
Instrument Code	SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)			
WB27806	QC ACTUAL = SVal			
Prepared By	QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))			
CJO	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100			
Chemist				
SLF				
Analyst				
KNT				
Date complete	NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.			
10/05/95				
Analysis Date				
10/03/95	QC ACTUAL	=	4.48E-02	
Analysis Time	QC FOUND	=	2.64E-02	
03:15 PM	AVG. PERCENT SPIKE RECOVERY	=	59.0%	
Sample Point				
BY-108				

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/9/95

SPIKE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

Type			SAMPLE	REPLICATE
SAMPLE	DETECTOR NUMBER		18	16
Work List	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
2705	GROSS COUNTS	(GC)	64	67
AT or TS ?	COUNT TIME in MINUTES	(CT)	30	30
AT	BACKGROUND in cpm	(BKG)	0.03	0.03
Test Code	SAMPLE SIZE in mL	(SS)	0.500	0.500
@ALPHA01	DILUTION FACTOR	(DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.2416	2.2416
SOLID	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
Batch Number	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.770	1.870
95002905				
ReRun	Blank Concentration in µCi/g		3.38E-03	
0	Replicate Concentration in µCi/g		3.57E-03	
Sample Prep	Average Concentration in µCi/g		3.4765E-03	
FUSION01				
Sample #				
S95T002002				
Instrument Code				
WB27806				
Prepared By				
CJO				
Chemist				
SLF				
Analyst				
KNT				
Date Complete				
10/05/95				
Analysis Date				
10/03/95				
Analysis Time				
03:15 PM				
Sample Point				
BY-108				

Rs (Sample Count Rate) = (TC / CT) - BKG

ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	3.48E-03	
			4.55E-04
RELATIVE COUNTING ERROR		27.3%	µCi/g

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/9/95

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: DUP8

WHC-SD-WM-DP-145, REV. 1

AT : LA-508-101 (D-2) SOLIDS

			DUP	REPLICATE
Type	DETECTOR NUMBER		16	16
DUP	DISH SIZE (1 , 2 , or 5)	(MS)	2	2
Work Unit	GROSS COUNTS	(GC)	44	46
2705	COUNT TIME in MINUTES	(CT)	30	30
AT or TT ?	BACKGROUND in cpm	(BKG)	0.03	0.03
AT	SAMPLE SIZE in mL	(SS)	0.500	0.500
Test Code	DILUTION FACTOR	(DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L	(Dg/L)	2.2436	2.2436
Matrix	EFFICIENCY FACTOR	(EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE		1.437	1.503

Batch Number		
95002905	Blank Concentration in µCi/g	2.74E-03
Rerun	Replicate Concentration in µCi/g	2.87E-03
0	Average Concentration in µCi/g	2.8055E-03

Sample Prep	
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG
Sample #	ALPHA TOTAL µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/µCi)
S95T002002	
Instrument Code	Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
CJO	
Chemist	
SLF	
Analyst	
KNT	
Date Complete	
10/05/95	
Analysis Date	
10/03/95	
Analysis Time	
03:15 PM	
Sample Point	
BY-108	

v RESULTS v

			DETECTION LEVEL
ALPHA TOTAL	in µCi/g	2.81E-03	
			4.55E-04 µCi/g
RELATIVE COUNTING ERROR		30.5%	

Analyst:		CJO	Date: 05-Oct-95
Signature of Chemist:		SLF	Date: 10/9/95

SAMPLE.WB1 Rev. 1.0 508101ML

DATA NOT USED IN PACKAGE

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	SPK
Work List	2705
AT or TB #	AT
Test Code	@ALPHA01
Matrix	SOLID
Batch Number	95002905
Rerun	0
Sample Prep	FUSION01
Sample #	S95T002002
Instrument Code	WB27806
Prepared By	CJO
Chemist	SLF
Analyst	KNT
Date Complete	10/05/95
Analysis Date	10/03/95
Analysis Time	03:15 PM
Sample Point	BY-108

			SPIKE	REPLICATE
DETECTOR NUMBER			16	16
DISH SIZE 1, 2, or 5		(MS)	2	2
TOTAL COUNTS		(TC)	47638	48268
COUNT TIME in MINUTES		(CT)	30	30
BACKGROUND in cpm		(BKG)	0.03	0.03
SAMPLE VOLUME in mL	(Spiked Vial)	(SS)	0.500	0.500
SAMPLE DILUTION FACTOR	(Spiked Vial)	(DF)	1	1
DIGEST GRAMS of SOLIDS / L		(Dg/L)	2.2416	2.2416
SPIKE VOLUME in mL		(SVol)	0.100	0.100
SPIKE DILUTION FACTOR		(SDF)	1	1
SPIKE BOOK NUMBER		(Spk BN)	112B43	112B43
SPIKE VALUE in µCi/mL		(SVal)	4.4772E-02	4.4772E-02
INSTRUMENT EFFICIENCY FACTOR		(EFF)	0.2104	0.2104
SAMPLE + SPIKE µCi/g		(S+S)	3.03E+00	3.07E+00
AVERAGE or MAXIMUM µCi/g in SAMPLE			3.4765E-03	

Rs (Sample Count Rate) = (TC / CT) - BKG

SAMPLE + SPIKE µCi/g = Rs * 1000mL/L * DF / (EFF * SS * Dg/L *2220000dpm/µCi)

QC ACTUAL = SVal

QC FOUND = (((S+S µCi/g - SAMPLE µCi/g) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))

PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

DATA NOT USED IN PACKAGE

QC ACTUAL	=	4.48E-02	
QC FOUND	=	3.42E-02	
AVG. PERCENT SPIKE RECOVERY	=	76.3%	

Analyst:	CJO	Date: 05-Oct-95
Signature of Chemist:	SLF	Date: 10/4/95

SPIKE.WB1 Rev. 1.0 508101ML

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REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [PART II] (SEC 4 OF 12)

Pages: 357

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 4 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
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References: ECN-629001

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Hanford Company

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-145, REV. 1

PART II

WHC-SD-WM-DP-145, REV. 0

ANALYTICAL SERVICES

60-DAY SAFETY SCREENING AND FERROCYANIDE RESULTS FOR TANK 241-BY-108, ROTARY SAMPLES, CORE 98 AND CORE 104

Date Printed: OCTOBER 18, 1995

54-7600-075

Hanford Operations and Engineering Contractor for the US Department of Energy

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NARRATIVE

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60-DAY SAFETY SCREEN RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES, CORE 98 AND CORE 104

ANALYTICAL SUMMARY

Core samples from tank 241-BY-108 (BY-108) were received at the 222-S Laboratories and underwent safety screening analyses, consisting of differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), and total alpha activity (*Tank 241-BY-108 Tank Characterization Plan* (TCP)[1]). Results of total organic carbon (TOC) and cyanide (CN) analyses are included for those samples which exceeded DSC action limit.

As required by the *Tank Safety Screening Data Quality Objective* (DQO) [2], a 95% confidence interval was calculated for the sample results exceeding an action limit. The precision requirements of the SAP were satisfied by comparing a one-sided 95% confidence interval of the mean for each sample to the action limit, rather than requiring a relative percent difference between sample and duplicate results of less than 10%. The DSC analysis at the 95% confidence level found the DSC results of three samples exceeded the maximum limit stated in the DQO (Table 4). Notifications by the Chemist and Project Coordinator were made as required.

Before samples were removed from BY-108, an industrial hygiene technician field tested the tank vapors. The technician purged the vapor probe sample tube for five minutes than field measured vapor stream contents using a combustible gas indicator (CGI) and an organic vapor meter (OVM). The technician verbally reported an LEL of 5.0%, an oxygen content of 20 R, and a total organic carbon content of 71.8 ppm using the OVM. Draeger tubes were not used to estimate the ammonia content.

When compared to the decision rules in the DQO, none of the data indicate that the tank should be considered "unsafe." The tank can be considered "safe" once it has been determined that no flammability concern exists in the tank vapor space.

SCOPE

This document serves as the 60-day report deliverable for the tank BY-108 core samples collected on July 27 through August 16, 1995 (Core 98, Segments 1-4 and Core 104 Segments 1-5). The 222-S Laboratories received, extruded, and analyzed each sample in accordance with the TCP. Included in this report are the primary safety screening results obtained from the analyses, and copies of all DSC and TGA raw data scans as requested in the SAP. Also included are the TOC and CN results for those samples that exceeded the DSC action limit. Any additional analyses conducted by the 222-S Laboratories on the BY-108 core samples will be included in a revision to this report. Partial BY-108 core segments from cores 97, 100 and 102 were received from BY-108 but were not analyzed as they duplicated segments of cores 98 and 104. Core 99, a core taken from the same riser as core 98, was sent to PNL's 325 Laboratory for analysis and the results of those analyses will be reported by PNL in a separate document.

SAMPLE RECEIPT, EXTRUSION, AND SUBSAMPLING

The subject core samples reported herein were taken from Tank BY-108. The two samples are identified as Core 98 and Core 104. These core segment samples were received at the 222-S Laboratory between July 28 and August 21, 1995 and extruded between August 1 and August 24, 1995. Table 1 provides the sampling and extrusion report for the two core samples. With the exception of segment 1, of both cores, the recovery was good and each segment was broken into quarter segments and homogenized. Segment 1, for both cores, was treated as a "whole" segment and homogenized. Additional extrusion results are presented in Table 2.

As shown in Table 1, there were some quarter segments missing upon extrusion, that is, there was a gap where that quarter segment would have been expected. Where drainable liquid was obtained, it is believed the liquid originally occupied this gap and accounts for the missing quarter segment. Subsamples for laboratory analyses and archiving were created per the tank TCP.

TABLE 1: SUMMARY DESCRIPTION OF AUGER SAMPLES

Core and Segment* Number	Riser	Sample Total Weight (Grams)	Sample Collection General Description
Core 98 Segment 1(W)	12A	366.8	Extruded approx. 5-6 inches of sample. Sample was wet. Texture of sample was crystalline and tended to "melt" on the sample tray. Sample was light brown to dirty white in color. Collected 170 ml of drainable liquid. Color of liquid was Yellow and opaque.
Core 98 Segment 2 (A),(C), (D)	12A	416.0	Collected 100 ml of drainable liquid, which was yellow brown in color and opaque. Extruded approx. 12 inches of sample. Facies present; Sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown, beige and dirty white saltcake.
Core 98 Segment 3 (A),(C), (D)	12A	406.5	Collected 60 ml of drainable liquid, which was light brown in color and opaque. Extruded approx. 16.5 inches of sample. Facies present; Sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown, beige and dirty white saltcake.

Core 98 Segment 4 (A),(B), (C),(D)	12A	490.0	No drainable liquid observed or collected. Extruded approx. 19.0 inches of sample; Sample retained its shape. Facies present; Sample was divided into quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown sludge with white saltcake.
Core 104 Segment 1(W)	7	131.3	Extruded approx. 6-7 inches of sample. Sample was tan in color, dry, crystalline and granular in shape. No drainable liquids.
Core 104 Segment 2 (A),(B), (C)	7	383.5	No drainable liquid. Extruded approx. 19.0 inches of sample; Upper half segment retained its shape, lower half segment crumbled during extrusion. Facies present in upper quarter segment (crumbly saltcake to sludge). Sample was divided into three quarter segments. Sample texture ranged from a brown sludge to a material resembling a mixture of brown sludge with saltcake.
Core 104 Segment 3 (A),(C), (D)	7	288.8	No drainable liquid. Extruded approx. 17.0 inches of sample; Sample was wet, granular and did not retained its shape. Sample was divided into three quarter segments. Sample texture resembled a brown saltcake.
Core 104 Segment 4 (A),(C), (D)	7	318.3	No drainable liquid. Extruded approx. 18.0 inches of sample. Sample was wet, granular, crumbly and ranged from a yellow to brown crystalline saltcake. Sample was divided into three quarter segments.
Core 104 Segment 5 (A),(B), (C),(D)	7	422.7	No drainable liquid. Extruded approx. 18 inches of sample. Lower half retained its shape and was medium to dark brown, whereas the upper half was dark brown and partially retained its shape. Texture of material resembled a sludge. Sample was divided into four quarter segments.

* (x) represents the quarter segment where "W" represents a whole segment and "A", "B", "C" and "D" represent the quarter segment location with "A" the top of the segment and "D" the bottom of the segment.

ANALYTICAL RESULTS

Analytical results are presented in Table 2.

Differential Scanning Calorimetry (DSC)

DSC analyses were performed under a nitrogen atmosphere using procedure LA-514-113, Rev. B-1 or procedure LA-514-114, Rev. B-0. The results are shown in Table 3 and the raw data scans are attached. The samples were analyzed in duplicate. Any exotherms on the scans would be visible as a rise (Mettler) or a sink (Perkin Elmer) from the baseline established at the beginning and ending of the scan.

Three of the samples exhibited exotherms above the action limit or 481 j/g, therefore, the upper 95% confidence level values calculated for each sample and the results are presented in Table 2.

Thermogravimetric Analysis (TGA)

Weight percent water is calculated from weight loss by TGA. These analyses were performed under a nitrogen atmosphere using procedure LA-560-112, Rev. A-2 or LA-514-114, Rev B-0. The samples and their related "immediate" samples from the un-homogenized extrusions were analyzed in duplicate. "Immediate" samples are samples for TGA analysis that were immediately taken directly from the un-homogenized sample as it was extruded onto the extrusion tray. TGA as well as DSC analyses were performed on homogenized samples for each sample. The results are presented in Table 2, and the raw data scans are attached.

Alpha Total

Analyses for total alpha activity were performed. Samples were prepared by fusion using procedure LA-549-141, Rev. D-0, and analyses were performed using procedure LA-508-101, Rev. D-2. Two fusions were prepared per sample (for duplicate results). Since all of the results were well below the safety screening limit of 41 μCi/g, reruns to improve standard and spike recoveries or relative percent difference (RPD) were deemed unnecessary. The total alpha results are presented in Table 2.

Total Organic Carbon (TOC)

Three samples which had DSC results above the action limit were submitted for TOC analysis. Analyses were performed in duplicate according to procedure LA-342-100, Rev. C-0. The results are presented in Table 3. The RPD for sample S95T001977 exceeded the required ± 10% range. A "triplicate" analysis was performed with a TOC result of 1.39 ug/g which closely resembles the "duplicate" value.

Cyanide

Three samples which had DSC results above the action limit were submitted for cyanide analysis. Analyses were performed in duplicate according to procedure LA-695-102, Rev. D-0. The results are presented in Table 3.

Responsible Project Coordinator: J. H. Baldwin

REFERENCE

[1] J. H. Baldwin, "*Tank 241-BY-108 Tank Characterization Plan*, WHC-SD-WM-TP-275, Rev. OD, Westinghouse Hanford Company, Richland, Washington, July 19, 1995.

[2] H. Babad, J. W. Hunt, and K. S. Redus, *Tank Safety Screening Data Quality Objective*, WHC-SD-WM-SP-004, Rev. 1, Westinghouse Hanford Company, Richland, Washington, April 27, 1995.

Table 4. 95% Upper Confidence Interval Limits for DSC (Units are in joules/g).

Sample Description	Sample Number	Differential Scanning Calorimetry (DSC) Dry Basis				TGA* Average
		Sample Result (J/g)	Dup. Result (J/g)	Average Result (J/g)	95 % UL	(%H20)
Quarter Segment B from Core 98 Segment 4	S95T001420	509.1	522.6	558.0	697.7	35.61
Rerun	S95T001420	481.3	409.5	445.4	672.0	35.61
Quarter Segment B from Core 104 Segment 5	S95T001976	593.5	522.6	558.0	781.8	36.66
Quarter Segment C from Core 104 Segment 5	S95T001977	548.7	507.9	528.3	657.1	35.50

TGA = Thermogravimetric Analysis
Quarter Segment B is approximately the second 5 inches of material of the segment. Quarter segment C is approximately the third 5 inches of material from the top of the segment.

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 0

SAMPLE DATA SUMMARY

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 1(DL)

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001373			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	31.90	34.04	32.97	6.49	n/a	n/a	n/a
S95T001373			DSC Exotherm on Perkin Elmer	Joules/g	None	None	97.54	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001373			DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a

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INTERIM

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INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 1(W)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001389			% Water by TGA using Mettler	%	None	None	101.1	n/a	37.72	36.28	37.00	3.89	n/a	n/a	n/a

W Whole Segment: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001390			% Water by TGA on Perkin Elmer	%	None	None	96.42	n/a	21.85	19.76	20.80	10.0	n/a	n/a	n/a
S95T001390			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	100.1	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001390			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001391	F		Alpha of Digested Solid	uCi/g	None	None	108.2	1.34e-03	2.22e-03	3.71e-03	2.97e-03	50.3	76.70	2.90e-03	90.8

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INTERIM

WHC-SD-WM-DP-145, REV. 0

WHC-SD-WM-DP-145, REV. 1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 2(A)

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001404			% Water by TGA on Perkin Elmer	%	None	None	100.8	n/a	14.64	14.87	14.75	1.56	n/a	n/a	n/a
S95T001404			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	95.68	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001404			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001405		F	Alpha of Digested Solid	uCi/g	None	None	94.98	<2.26e-03	2.38e-03	1.86e-03	2.12e-03	24.5	81.30	3.75e-03	117.5

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INTERIM

WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 2(C)

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001399			% Water by TGA using Mettler	%	None	None	100.7	n/a	43.90	39.74	41.82	9.95	n/a	n/a	n/a
S95T001399			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	91.10	85.60	88.35	6.23	n/a	n/a	n/a
S95T001399			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	93.15	n/a	53.00	49.80	51.40	6.23	n/a	n/a	n/a
S95T001400	F		Alpha of Digested Solid	uCi/g	None	None	94.98	<2.26e-03	< 2.63e+3	3.98e-03	n/a	n/a	82.80	3.92e-03	358.8

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INTERIM

WHC-SD-WM-DP-145, REV.0

WHC-SD-WM-DP-146, REV.1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 2(D)

SEGMENT PORTION: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001393			% Water by TGA using Mettler	%	None	None	98.84	n/a	38.92	36.38	37.65	6.75	n/a	n/a	n/a
S95T001396			% Water by TGA on Perkin Elmer	%	None	None	100.8	n/a	8.560	9.360	8.960	8.93	n/a	n/a	n/a
S95T001396			% Water by TGA using Mettler	%	None	None	101.7	n/a	40.98	44.12	42.55	7.38	n/a	n/a	n/a
S95T001396			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	98.81	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001396			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001398		F	Alpha of Digested Solid	uCi/g	None	None	108.2	1.34e-03	2.67e-02	2.82e-02	2.75e-02	5.46	87.40	6.96e-03	39.6

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The TGA - Water by Perkin-Elmer represents weight loss at the first inflection point.

The TGA - Water by Mettler - represents total weight loss.

INTERIM

WHC-SD-WM-DP-145, REV.0

WHC-SD-WM-DP-145, REV.1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 2(DL)

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001427			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	27.11	25.03	26.07	7.98	n/a	n/a	n/a
S95T001427			DSC Exotherm on Perkin Elmer	Joules/g	None	None	98.45	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001427			DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a

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INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

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INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 3(A)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001380			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	15.74	15.92	15.83	1.01	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001431			% Water by TGA using Mettler	%	None	None	101.3	n/a	43.77	44.47	44.12	1.59	n/a	n/a	n/a
S95T001431			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	323.2	323.0	323.1	0.06	n/a	n/a	n/a
S95T001431			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	106.5	n/a	180.6	180.5	180.6	0.06	n/a	n/a	n/a
S95T001480	F		Alpha of Digested Solid	uCi/g	None	None	103.2	<2.74e-03	7.63e-03	3.93e-03	5.78e-03	64.0	n/a	6.85e-03	85.5

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INTERIM

2-18

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 3(C)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001381			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	15.18	16.82	16.00	0.10	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001432			% Water by TGA using Mettler	%	None	None	100.9	n/a	41.31	38.53	39.92	6.96	n/a	n/a	n/a
S95T001432			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	114.3	116.8	115.5	2.16	n/a	n/a	n/a
S95T001432			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	105.1	n/a	68.70	70.20	69.45	2.16	n/a	n/a	n/a
S95T001481	F		Alpha of Digested Solid	uCi/g	None	None	103.2	<2.74e-03	< 4.66e-3	<5.93e-3	n/a	n/a	n/a	7.32e-03	500.0

=> Limit violated
=> Selected Limit

INTERIM

2-19

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 98
SEGMENT #: 3(D)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001382			% Water by TGA using Mettler	%	None	None	100.8	n/a	39.16	39.44	39.30	0.71	n/a	n/a	n/a

D Bottom Quarter of Segment: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001433			% Water by TGA using Mettler	%	None	None	101.8	n/a	34.52	38.56	36.54	11.1	n/a	n/a	n/a
S95T001433			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	235.7	226.1	230.9	4.16	n/a	n/a	n/a
S95T001433			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	106.9	n/a	149.6	143.5	146.6	4.16	n/a	n/a	n/a
S95T001482	F		Alpha of Digested Solid	uCi/g	None	None	100.0	<2.24e-02	< 2.06e-2	<1.73e-2	n/a	n/a	96.90	2.50e-02	245.9

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 3(DL)

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001430			% Water by TGA using Mettler	%	None	None	101.4	n/a	38.58	39.47	39.02	2.28	n/a	n/a	n/a
S95T001430			DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	121.7	114.2	118.0	6.36	n/a	n/a	n/a
S95T001430			DSC Exotherm using Mettler	Joules/g	None	None	95.96	n/a	74.20	69.60	71.90	6.40	n/a	n/a	n/a

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 98
SEGMENT #: 4(A)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001407			% Water by TGA on Perkin Elmer	%	None	None	96.40	n/a	16.31	17.58	16.95	7.49	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001419			% Water by TGA using Mettler	%	None	None	97.31	n/a	28.88	36.23	32.55	22.6	n/a	n/a	n/a
S95T001419 1			% Water by TGA using Mettler	%	None	None	101.2	n/a	36.64	36.69	36.66	0.14	n/a	n/a	n/a
S95T001419			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	295.1	390.8	343.0	27.9	n/a	n/a	n/a
S95T001419 1			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	101.6	n/a	199.0	263.6	231.3	27.9	n/a	n/a	n/a
S95T001419			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	97.01	n/a	292.9	162.2	227.5	57.4	n/a	n/a	n/a
S95T001423	F		Alpha of Digested Solid	uCi/g	None	None	107.9	<5.29e-03	< 1.45e-2	<7.36e-3	n/a	n/a	91.20	1.30e-02	500.0

=> Limit violated
=> Selected Limit

INTERIM

2-22

WHC-SD-WM-DP-145, REV. 0
WHC-SD-WM-DP-145, REV. 1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 4(B)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001408			% Water by TGA using Mettler	%	None	None	101.3	n/a	37.28	36.03	36.66	3.41	n/a	n/a	n/a

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001420			% Water by TGA using Mettler	%	None	None	97.31	n/a	35.41	35.81	35.61	1.12	n/a	n/a	n/a
S95T001420 1			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	481.3	409.5	445.4	16.1	n/a	n/a	n/a
S95T001420			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	509.1	438.1	473.6	15.0	n/a	n/a	n/a
S95T001420 1			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	101.6	n/a	309.9	263.7	286.8	16.1	n/a	n/a	n/a
S95T001420			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	97.01	n/a	327.8	282.1	305.0	15.0	n/a	n/a	n/a
S95T001424		F	Alpha of Digested Solid	uCi/g	None	None	107.9	<5.29e-03	< 7.47e-3	6.10e-02	n/a	n/a	92.20	1.06e-02	234.9

=> Limit violated
=> Selected Limit

INTERIM

2-23

WHC-SD-WM-DP-145, REV.0
WHC-SD-WM-DP-145, REV.1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 4(C)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001409			% Water by TGA using Mettler	%	None	None	101.3	n/a	37.47	37.91	37.69	1.17	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001421			% Water by TGA using Mettler	%	None	None	101.5	n/a	38.31	39.82	39.06	3.87	n/a	n/a	n/a
S95T001421			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	221.9	226.4	224.2	2.01	n/a	n/a	n/a
S95T001421			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	102.3	n/a	135.4	138.2	136.8	2.05	n/a	n/a	n/a
S95T001425	F		Alpha of Digested Solid	uCi/g	None	None	99.28	<4.22e-02	2.41e-01	3.13e-01	2.77e-01	26.0	111.2	9.66e-02	37.6

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 98
SEGMENT #: 4(D)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001410			% Water by TGA on Perkin Elmer	%	None	None	100.6	n/a	19.95	20.93	20.44	4.79	n/a	n/a	n/a
S95T001410			% Water by TGA using Mettler	%	None	None	101.7	n/a	35.32	39.45	37.39	11.0	n/a	n/a	n/a

D Bottom Quarter of Segment: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001422			% Water by TGA using Mettler	%	None	None	101.5	n/a	36.49	36.40	36.45	0.25	n/a	n/a	n/a
S95T001422			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	98.51	107.6	103.1	8.82	n/a	n/a	n/a
S95T001422			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	102.3	n/a	62.60	68.40	65.50	8.85	n/a	n/a	n/a
S95T001426	F		Alpha of Digested Solid	uCi/g	None	None	91.22	<9.64e-02	3.52e-01	3.68e-01	3.60e-01	4.44	97.80	2.44e-01	56.8

=> Limit violated
=> Selected Limit

The TGA - Water by Perkin-Elmer represents weight loss at the first inflection point.

The TGA - Water by Mettler - represents total weight loss.

INTERIM

4-25

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 1(W)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001586			% Water by TGA on Perkin Elmer	%	None	None	100.4	n/a	15.74	15.02	15.38	4.68	n/a	n/a	n/a

W Whole Segment: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001925			% Water by TGA on Perkin Elmer	%	None	None	101.7	n/a	24.90	23.78	24.34	4.60	n/a	n/a	n/a
S95T001925			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	97.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001925			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002001	F		Alpha of Digested Solid	uCi/g	None	None	125.4	<4.59e-04	<6.35E-04	<1.51E-3	n/a	n/a	4.78e-03	7.44e-04	1.96E+02

=> Limit violated
=> Selected Limit

INTERIM

2-26

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 2(A)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001587			% Water by TGA on Perkin Elmer	%	None	None	100.4	n/a	10.41	12.77	11.59	20.4	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001966			% Water by TGA using Mettler	%	None	None	101.3	n/a	20.84	19.25	20.05	7.93	n/a	n/a	n/a
S95T001966			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001966			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002002		F	Alpha of Digested Solid	uCi/g	None	None	125.4	<4.59e-04	3.66e-03	3.18e-03	3.42e-03	14.0	7.48e-02	6.88e-04	2.78E+01

=> Limit violated
=> Selected Limit

INTERIM

2-27

WHC-SD-WM-DP-145, REV.2
WHC-SD-WM-DP-142, REV.1

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 2(B)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001588			% Water by TGA using Mettler	%	None	None	101.2	n/a	29.88	30.68	30.28	2.64	n/a	n/a	n/a

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001967			% Water by TGA using Mettler	%	None	None	101.2	n/a	33.54	29.90	31.72	11.5	n/a	n/a	n/a
S95T001967			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001967			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002003	F		Alpha of Digested Solid	uCi/g	None	None	107.4	<2.79e-03	4.74e-03	5.12e-03	4.93e-03	7.71	93.30	3.80e-03	1.30E+02

=> Limit violated
=> Selected Limit

INTERIM

2-28

WHC-SD-WM-DP-145, REV.1

WHC-SD-WM-DP-145, REV.0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 2(C)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001589			% Water by TGA using Mettler	%	None	None	101.2	n/a	22.95	23.67	23.31	3.09	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001968			% Water by TGA on Perkin Elmer	%	None	None	101.3	n/a	15.40	9.880	12.64	43.7	n/a	n/a	n/a
S95T001968			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.26	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001968			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002004	F		Alpha of Digested Solid	uCi/g	None	None	107.4	<2.79e-03	6.20e-03	6.17e-03	6.18e-03	0.49	91.74	3.83e-03	5.99E+01

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 3(A)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001861			% Water by TGA using Mettler	%	None	None	101.4	n/a	41.30	41.77	41.53	1.13	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001969			% Water by TGA on Perkin Elmer	%	None	None	101.2	n/a	7.150	7.790	7.470	8.57	n/a	n/a	n/a
S95T001969			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.16	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001969			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002005	F		Alpha of Digested Solid	uCi/g	None	None	104.7	<2.95e-03	<3.30E-03	1.83e-03	n/a	n/a	103.1	4.28e-03	1.87E+02

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 3(C)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001862			% Water by TGA using Mettler	%	None	None	101.4	n/a	26.93	25.93	26.43	3.78	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001970			% Water by TGA using Mettler	%	None	None	97.07	n/a	11.12	7.680	9.400	36.6	n/a	n/a	n/a
S95T001970			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001970			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002006		F	Alpha of Digested Solid	uCi/g	None	None	110.1	6.54e-03	4.05e-03	<4.69E-3	n/a	n/a	91.74	9.66e-03	1.40E+02

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 104
SEGMENT #: 3(D)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001863			% Water by TGA on Perkin Elmer	%	None	None	101.7	n/a	22.20	15.60	18.90	34.9	n/a	n/a	n/a
S95T001863			% Water by TGA using Mettler	%	None	None	n/a	n/a	32.06	n/a	n/a	n/a	n/a	n/a	n/a

D Bottom Quarter of Segment: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001971			% Water by TGA using Mettler	%	None	None	97.07	n/a	8.070	7.820	7.945	3.15	n/a	n/a	n/a
S95T001971			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.79	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001971			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002007		F	Alpha of Digested Solid	uCi/g	None	None	110.1	6.54e-03	1.86e-02	1.82e-02	1.84e-02	2.17	90.18	1.01e-02	5.90E+01

=> Limit violated
=> Selected Limit

The TGA - Water by Perkin-Elmer represents weight loss at the first inflection point.

The TGA - Water by Mettler - represents total weight loss.

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 4(A)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001904			% Water by TGA on Perkin Elmer	%	None	None	100.3	n/a	32.34	34.59	33.47	6.72	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001972			% Water by TGA using Mettler	%	None	None	100.7	n/a	31.01	33.09	32.05	6.49	n/a	n/a	n/a
S95T001972			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	60.93	0.00e+00	30.46	200	n/a	n/a	n/a
S95T001972			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	105.1	n/a	41.40	0.00e+00	20.70	200	n/a	n/a	n/a
S95T002008		F	Alpha of Digested Solid	uCi/g	None	None	123.1	<1.91e-03	2.14e-03	<2.83E-3	n/a	n/a	78.57	3.85e-03	1.13E+02

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 4(C)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001905			% Water by TGA using Mettler	%	None	None	100.8	n/a	43.26	45.28	44.27	4.56	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001973			% Water by TGA using Mettler	%	None	None	100.7	n/a	41.10	41.13	41.12	0.07	n/a	n/a	n/a
S95T001973			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	180.2	194.5	187.3	7.63	n/a	n/a	n/a
S95T001973			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	105.1	n/a	106.1	114.5	110.3	7.62	n/a	n/a	n/a
S95T002009	F		Alpha of Digested Solid	uCi/g	None	None	123.1	<1.91e-03	<4.66E-03	<3.50E-3	n/a	n/a	100.0	7.55e-03	5.00E+02

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 4(D)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001906			% Water by TGA using Mettler	%	None	None	100.8	n/a	36.22	33.78	35.00	6.97	n/a	n/a	n/a

D Bottom Quarter of Segment: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001974			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	9.770	8.800	9.285	10.4	n/a	n/a	n/a
S95T001974			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.86	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001974			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002010		F	Alpha of Digested Solid	uCi/g	None	None	115.4	5.50e-04	7.44e-04	<9.72E-4	n/a	n/a	91.96	9.16e-04	1.10E+02

=> Limit violated
=> Selected Limit

INTERIM

2-35

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)
Table 2

CORE NUMBER: 104
SEGMENT #: 5(A)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001915			% Water by TGA on Perkin Elmer	%	None	None	101.7	n/a	12.81	13.13	12.97	2.47	n/a	n/a	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001975			% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	9.370	8.980	9.175	4.25	n/a	n/a	n/a
S95T001975			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	99.86	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001975			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002011		F	Alpha of Digested Solid	uCi/g	None	None	115.4	5.50e-04	1.77e-02	1.08e-02	1.43e-02	48.4	69.20	9.11e-04	1.22E+01

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 2

CORE NUMBER: 104
SEGMENT #: 5(B)

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001916	1		% Water by TGA using Mettler	%	None	None	n/a	n/a	36.23	n/a	n/a	n/a	n/a	n/a	n/a
S95T001916			% Water by TGA using Mettler	%	None	None	100.7	n/a	35.23	37.56	36.39	15.3	n/a	n/a	n/a

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001976			% Water by TGA using Mettler	%	None	None	101.1	n/a	37.69	35.62	36.66	5.65	n/a	n/a	n/a
S95T001976			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	593.5	552.6	573.0	7.14	n/a	n/a	n/a
S95T001976			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	93.50	n/a	375.9	350.0	362.9	7.14	n/a	n/a	n/a
S95T002012	F		Alpha of Digested Solid	uCi/g	None	None	95.95	<7.63e-02	1.79e-01	1.81e-01	1.80e-01	1.11	100.0	1.03e-01	5.18E+01

=> Limit violated
=> Selected Limit

INTERIM

2.37

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(C)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001917	1		% Water by TGA using Mettler	%	None	None	n/a	n/a		n/a	n/a	n/a	n/a	n/a	n/a
S95T001917			% Water by TGA using Mettler	%	None	None	100.7	n/a	33.04	26.36	29.70	22.5	n/a	n/a	n/a

C Third Quarter of Segment: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001977			% Water by TGA using Mettler	%	None	None	101.1	n/a	35.50	35.50	35.50	0.00	n/a	n/a	n/a
S95T001977			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	548.7	507.9	528.3	7.72	n/a	n/a	n/a
S95T001977			DSC Exotherm using Mettler	Joules/g	-1.0e+03	480.0	93.50	n/a	353.9	327.6	340.8	7.72	n/a	n/a	n/a
S95T002013		F	Alpha of Digested Solid	uCi/g	None	None	95.95	<7.63e-02	2.66e-01	3.06e-01	2.86e-01	14.0	96.88	9.82e-02	3.55E+01

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. 0

INTERIM

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

CORE NUMBER: 104
SEGMENT #: 5(D)

Table 2

SEGMENT PORTION: Immediate Sampling (to check moisture loss)

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001918			% Water by TGA using Mettler	%	None	None	100.4	n/a	29.31	35.21	32.26	18.3	n/a	n/a	n/a

D Bottom Quarter of Segment: D Bottom Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001978			% Water by TGA on Perkin Elmer	%	None	None	100.3	n/a	7.080	7.490	7.285	5.63	n/a	n/a	n/a
S95T001978			DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+03	480.0	100.7	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T001978			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+03	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002014	F		Alpha of Digested Solid	uCi/g	None	None	124.3	<9.89e-02	3.90e-01	3.74e-01	3.82e-01	4.19	138.8	1.82e-01	4.41E+01

=> Limit violated
=> Selected Limit

INTERIM

WHC-SD-WM-DP-145, REV. 1
WHC-SD-WM-DP-145, REV. D

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 3

CORE NUMBER: 98
SEGMENT #: 4(B)TOC & CN

SEGMENT PORTION: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001420			TOC by Persulfate/Coulometry	ug/g	-1.0e+03	3.0e+04	99.67	21.50	2.09e+04	2.07e+04	2.08e+04	0.96	n/a	40.00	n/a
S95T001420			Cyanide by Microdist. & Spec.	ug/g	-1.0e+03	3.9e+04	109.5	1.35e-01	2.01e+03	1.72e+03	1.86e+03	16.5	108.8	182.0	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-145, REV. 1
WHC SD-WM-DP-145, REV. 0

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 3

CORE NUMBER: 104
SEGMENT #: 5(B)TOC & CN

SEGMENT PORTION: B Second Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001976			TOC by Persulfate/Coulometry	ug/g	-1.0e+03	3.0e+04	90.67	25.80	1.72e+04	1.34e+04	1.53e+04	24.8	86.80	40.00	n/a
S95T001976			Cyanide by Microdist. & Spec.	ug/g	-1.0e+03	3.9e+04	107.3	1.29e-01	99.90	94.70	97.30	5.34	116.9	5.420	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-145, REV. 1
WHC SD WM-DP-145, REV. 0

BY-108 Analytical Summary Cores 98 and 104
BY-108 (R)

Table 3

CORE NUMBER: 104
SEGMENT #: 5(C)TOC & CN

SEGMENT PORTION: C Third Quarter of Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
					Lower	Upper									
S95T001977			TOC by Persulfate/Coulometry	ug/g	-1.0e+03	3.0e+04	90.67	25.80	1.36e+04	1.32e+04	1.34e+04	2.99	n/a	40.00	n/a
S95T001977			Cyanide by Microdist. & Spec.	ug/g	-1.0e+03	3.9e+04	109.2	1.08e-01	125.0	117.0	121.0	6.61	81.50	3.010	n/a

=> Limit violated
=> Selected Limit

2-42

WHC-SD-WM-DP-145, REV. 1

WHC SD-WM-DP-145, REV.0

INORGANIC ANALYSES

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LABCORE Data Entry Template for Worklist# 2702

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for BY-108. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	1 SAMPLE	S95T001976	0		DSC-02	SOLID	N/A	593.5		Joules/g Dry
95000118	BY-108 (R)	2 DUP	S95T001976	0		DSC-02	SOLID	593.5	552.6	N/A	Joules/g Dry
95000118	BY-108 (R)	3 SAMPLE	S95T001977	0		DSC-02	SOLID	N/A	548.7		Joules/g Dry
95000118	BY-108 (R)	4 DUP	S95T001977	0		DSC-02	SOLID	548.7	507.9	N/A	Joules/g Dry

Data entered + verified by

Final page for worklist # 2702

Blandina Valenzuela

Analyst Signature **Date** 10-2-95

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2867

Analyst: BW **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BY-108. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	1	SAMPLE	S95T001925	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	2	DUP	S95T001925	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000104	BY-108 (R)	3	SAMPLE	S95T001431	0		DSC-02	SOLID	N/A	323.2		Joules/g Dry
95000104	BY-108 (R)	4	DUP	S95T001431	0		DSC-02	SOLID	323.2	323.0	N/A	Joules/g Dry
95000104	BY-108 (R)	5	SAMPLE	S95T001432	0		DSC-02	SOLID	N/A	114.3		Joules/g Dry
95000104	BY-108 (R)	6	DUP	S95T001432	0		DSC-02	SOLID	114.3	116.8	N/A	Joules/g Dry
95000104	BY-108 (R)	7	SAMPLE	S95T001433	0		DSC-02	SOLID	N/A	235.7		Joules/g Dry
95000104	BY-108 (R)	8	DUP	S95T001433	0		DSC-02	SOLID	235.7	226.1	N/A	Joules/g Dry
95000104	BY-108 (R)	9	SAMPLE	S95T001421	0		DSC-02	SOLID	N/A	221.9		Joules/g Dry
95000104	BY-108 (R)	10	DUP	S95T001421	0		DSC-02	SOLID	221.9	226.4	N/A	Joules/g Dry
95000104	BY-108 (R)	11	SAMPLE	S95T001422	0		DSC-02	SOLID	N/A	98.51		Joules/g Dry
95000104	BY-108 (R)	12	DUP	S95T001422	0		DSC-02	SOLID	98.51	107.6	N/A	Joules/g Dry
95000104	BY-108 (R)	13	SAMPLE	S95T001390	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000104	BY-108 (R)	14	DUP	S95T001390	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000104	BY-108 (R)	15	SAMPLE	S95T001396	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000104	BY-108 (R)	16	DUP	S95T001396	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000104	BY-108 (R)	17	SAMPLE	S95T001399	0		DSC-02	SOLID	N/A	91.10		Joules/g Dry
95000104	BY-108 (R)	18	DUP	S95T001399	0		DSC-02	SOLID	91.10	85.60	N/A	Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2867

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT

Final page for worklist # 2867

Blandina Valenzuela 10-12-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2868

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BY-108. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000104	BY-108 (R)	1	SAMPLE	S95T001404	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000104	BY-108 (R)	2	DUP	S95T001404	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	3	SAMPLE	S95T001966	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	4	DUP	S95T001966	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	5	SAMPLE	S95T001967	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	6	DUP	S95T001967	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	7	SAMPLE	S95T001968	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	8	DUP	S95T001968	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	9	SAMPLE	S95T001969	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	10	DUP	S95T001969	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	11	SAMPLE	S95T001970	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	12	DUP	S95T001970	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	13	SAMPLE	S95T001971	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	14	DUP	S95T001971	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	15	SAMPLE	S95T001972	0		DSC-02	SOLID	N/A	60.93		Joules/g Dry
95000118	BY-108 (R)	16	DUP	S95T001972	0		DSC-02	SOLID	60.93	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	17	TRIPL	S95T001972	0		DSC-02	SOLID	60.93	59.60	N/A	Joules/g Dry
95000118	BY-108 (R)	18	SAMPLE	S95T001973	0		DSC-02	SOLID	N/A	180.2		Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2868

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	19 DUP	S95T001973	0		DSC-02	SOLID	180.2	194.5	N/A	Joules/g Dry

Final page for worklist # 2868

Blandina Valenzuela 10-12-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2869

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BY-108. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000118	BY-108 (R)	1 SAMPLE	S95T001974	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	2 DUP	S95T001974	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	3 SAMPLE	S95T001975	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	4 DUP	S95T001975	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000118	BY-108 (R)	5 SAMPLE	S95T001978	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000118	BY-108 (R)	6 DUP	S95T001978	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist # 2869

Blandina Valenzuela 10-12-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2870

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Calculated dry DSC for BY-108. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000101	BY-108 (R)	1	SAMPLE	S95T001365	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000101	BY-108 (R)	2	DUP	S95T001365	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000104	BY-108 (R)	3	SAMPLE	S95T001427	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000104	BY-108 (R)	4	DUP	S95T001427	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000104	BY-108 (R)	5	SAMPLE	S95T001430	0		DSC-02	LIQUID	N/A	121.7		Joules/g Dry
95000104	BY-108 (R)	6	DUP	S95T001430	0		DSC-02	LIQUID	121.7	114.2	N/A	Joules/g Dry
95000104	BY-108 (R)	7	SAMPLE	S95T001373	0		DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000104	BY-108 (R)	8	DUP	S95T001373	0		DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist # 2870

Blandina Valenzuela 10-12-95
Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2001

Analyst: JdS **Instrument:** DSC0 1 **Book #** 12N/4A

10-16-95 BDV

Method: LA-514-113 Rev/Mod ~~B~~ ~~C~~ B-1

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	27.6	N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001419	0		DSC-01	SOLID	N/A	292.9		Joules/g
95000104	BY-108 (R)	3 DUP	S95T001419	0		DSC-01	SOLID	292.9	162.2	N/A	Joules/g
95000104	BY-108 (R)	4 SAMPLE	S95T001420	0		DSC-01	SOLID	N/A	327.8		Joules/g
95000104	BY-108 (R)	5 DUP	S95T001420	0		DSC-01	SOLID	327.8	282.1	N/A	Joules/g

Final page for worklist # 2001

JdS 8-16-95
Analyst Signature Date

Analyst Signature Date 8-22-95

S95T001419 produced an endothermic region at 125.3°C with a delta H of 801.7 J/g. Because of high RPDs the samples will be rerun.

Data Entry Comments: S95T001420 produced an endothermic region at 130.4°C with a delta H of 822.1 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 252 TO 256.

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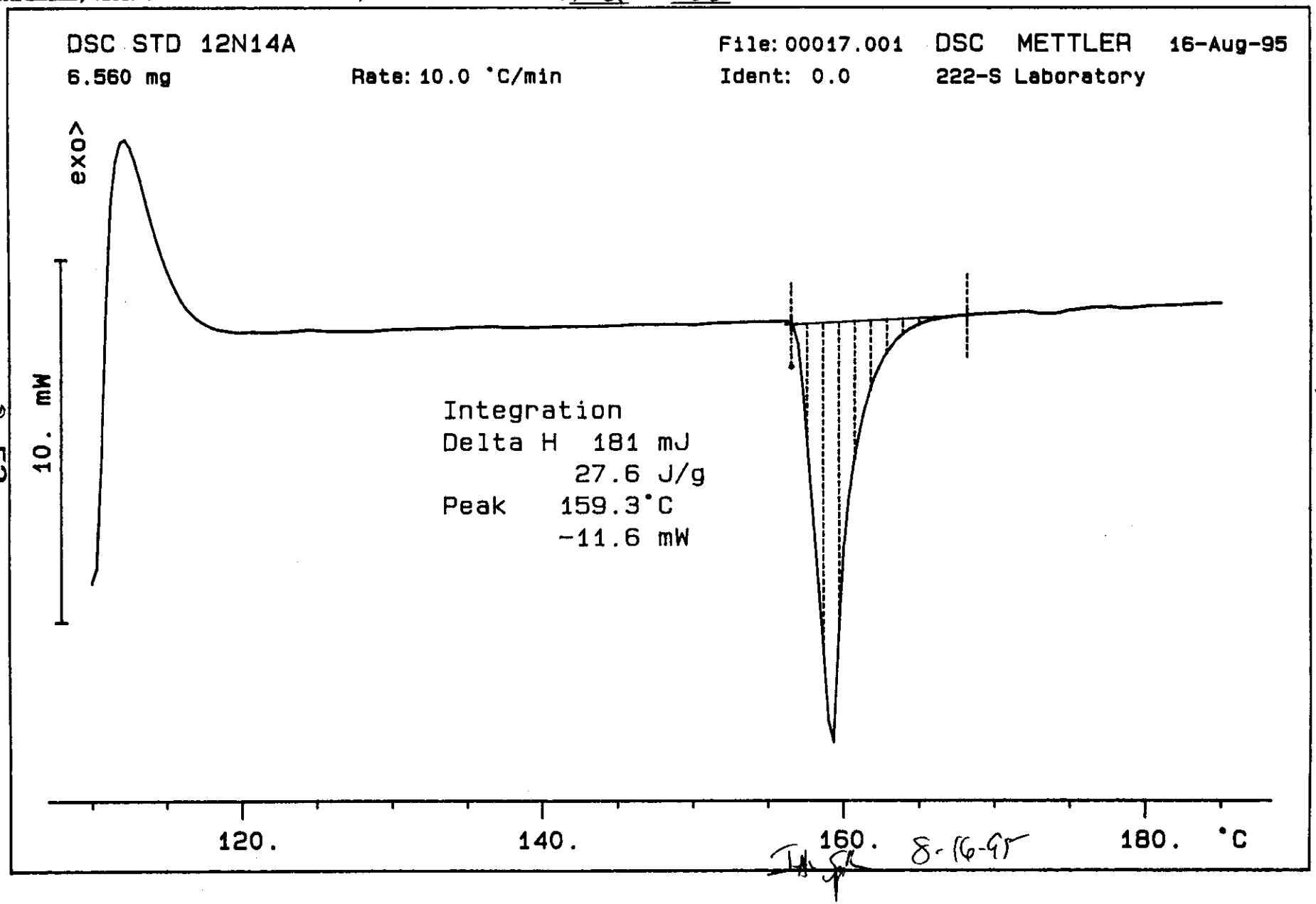

2-52

WHC-SD-WM-DP-145, REV. 1

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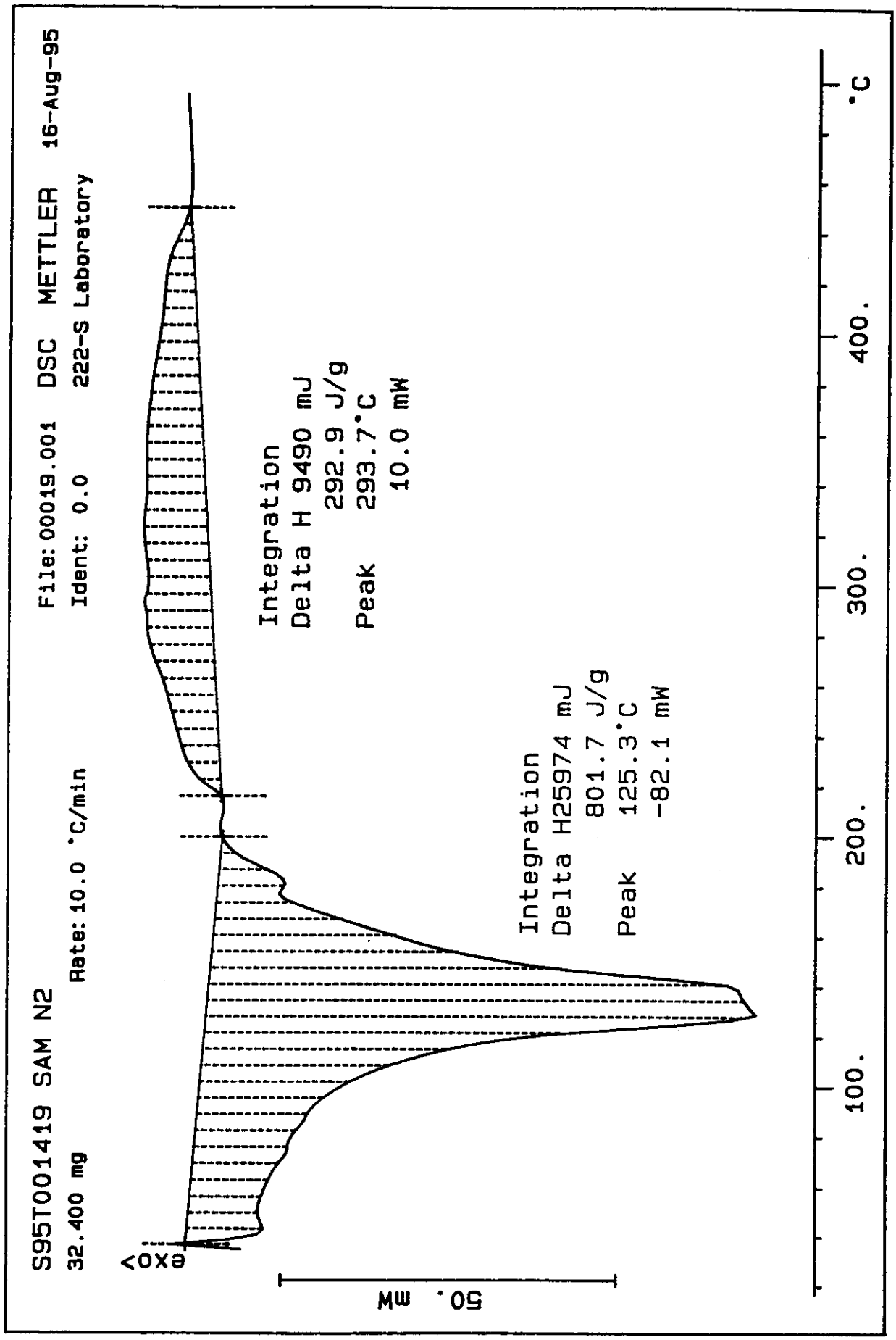

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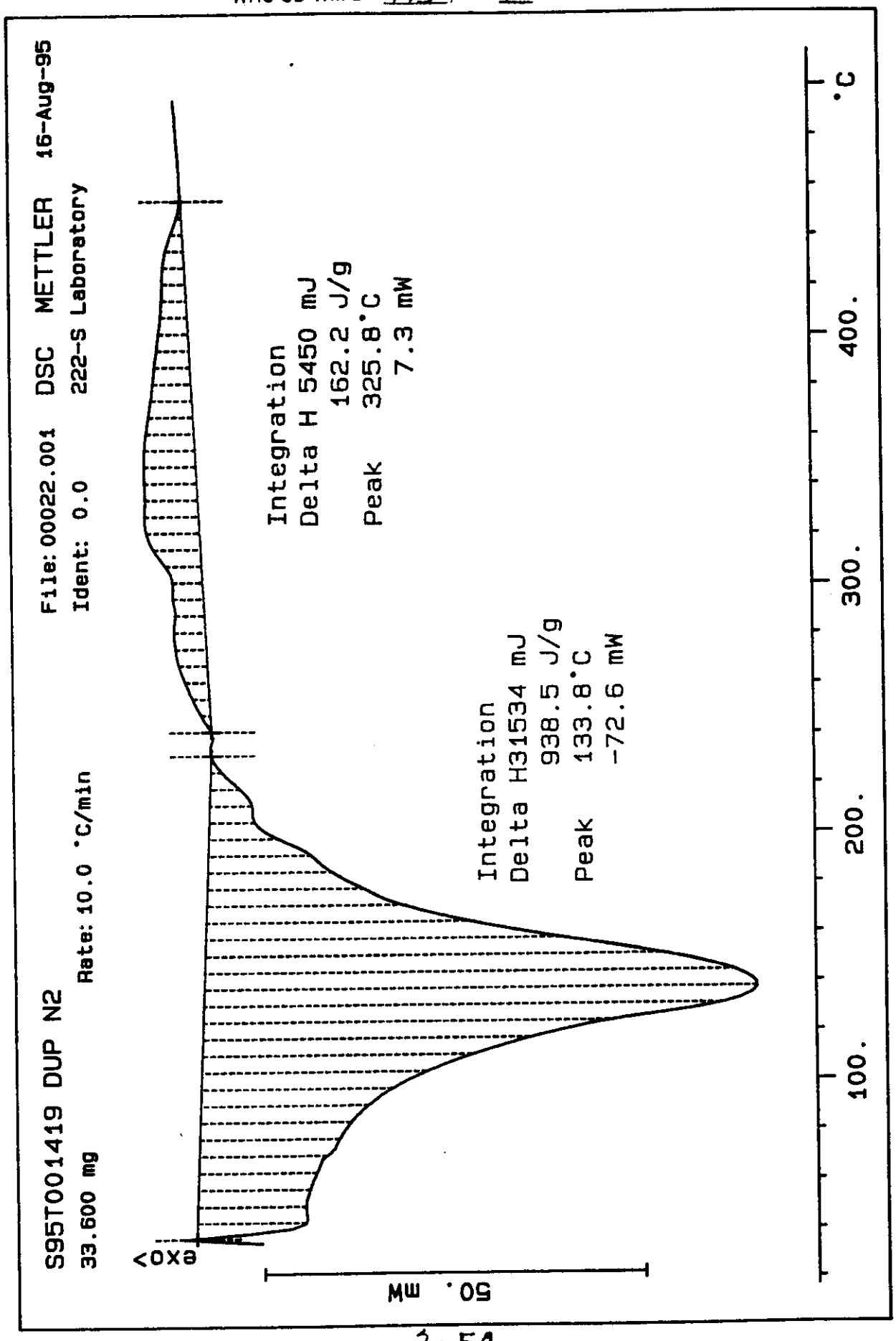

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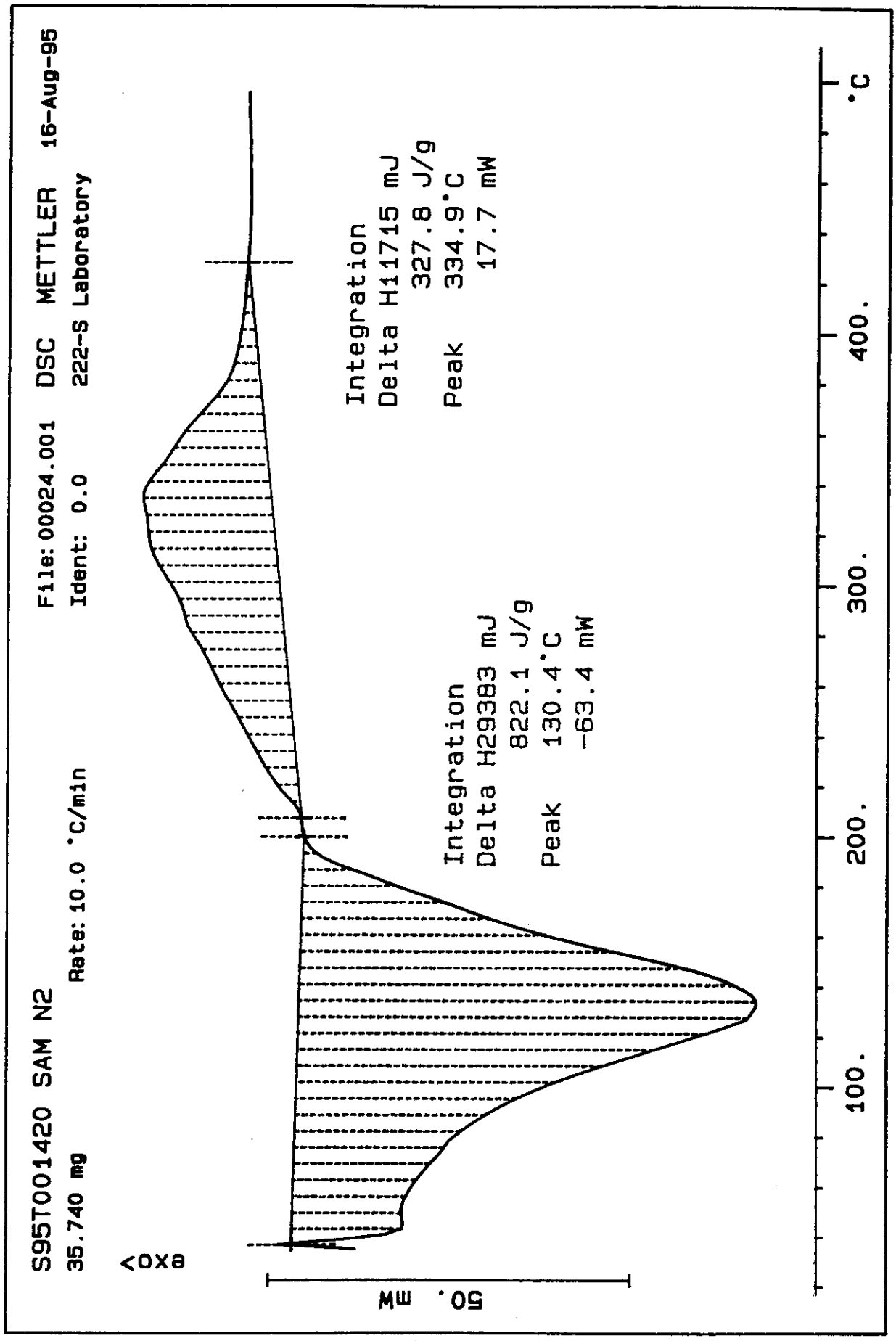

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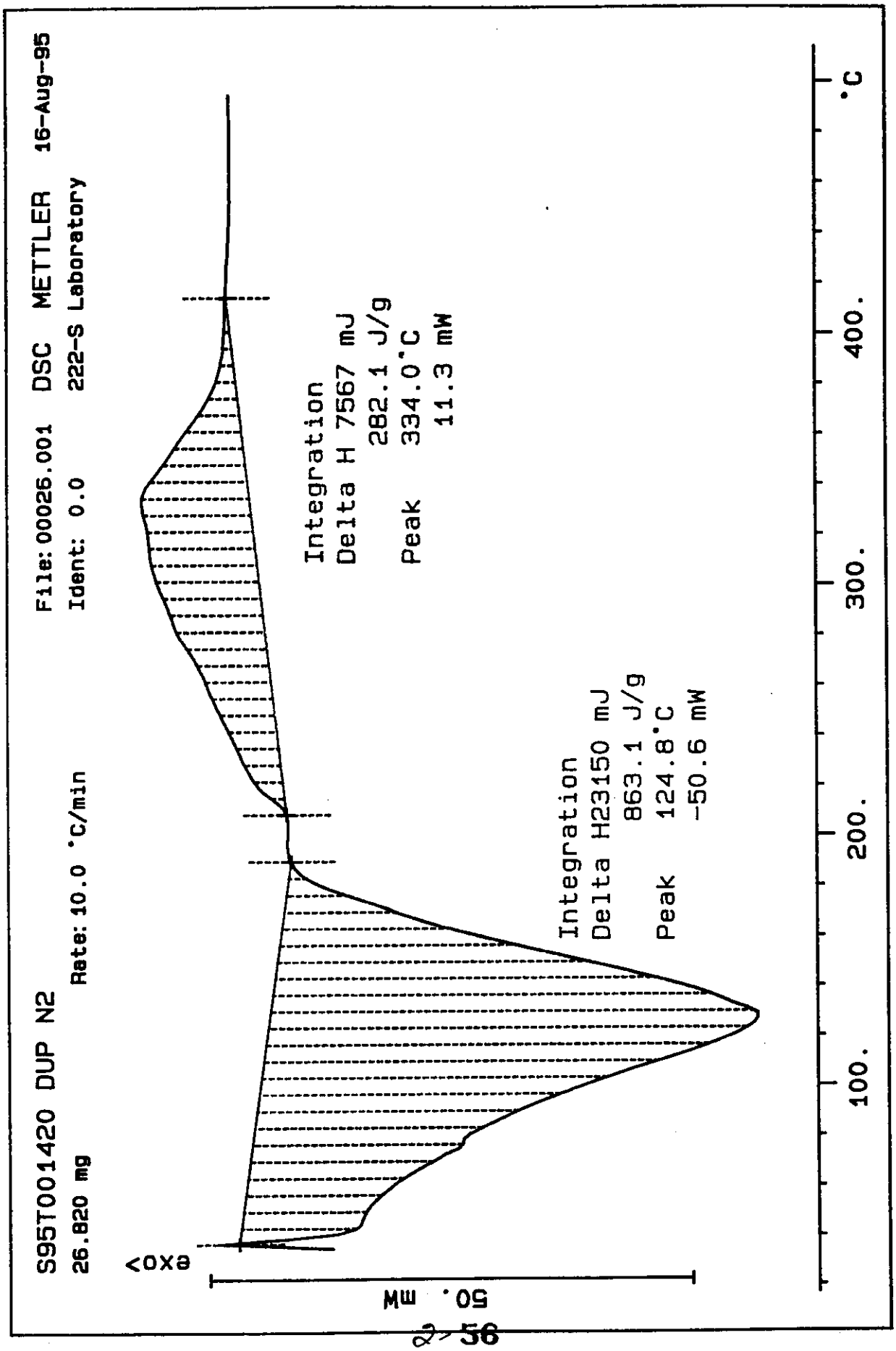


WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2025

Analyst: R L McCown **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	28.9	N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001419	1		DSC-01	SOLID	N/A	199.0		Joules/g
95000104	BY-108 (R)	3 DUP	S95T001419	1		DSC-01	SOLID	199.0	263.6	N/A	Joules/g
95000104	BY-108 (R)	4 SAMPLE	S95T001420	1		DSC-01	SOLID	N/A	309.9		Joules/g
95000104	BY-108 (R)	5 DUP	S95T001420	1		DSC-01	SOLID	309.9	263.7	N/A	Joules/g

Final page for worklist # 2025

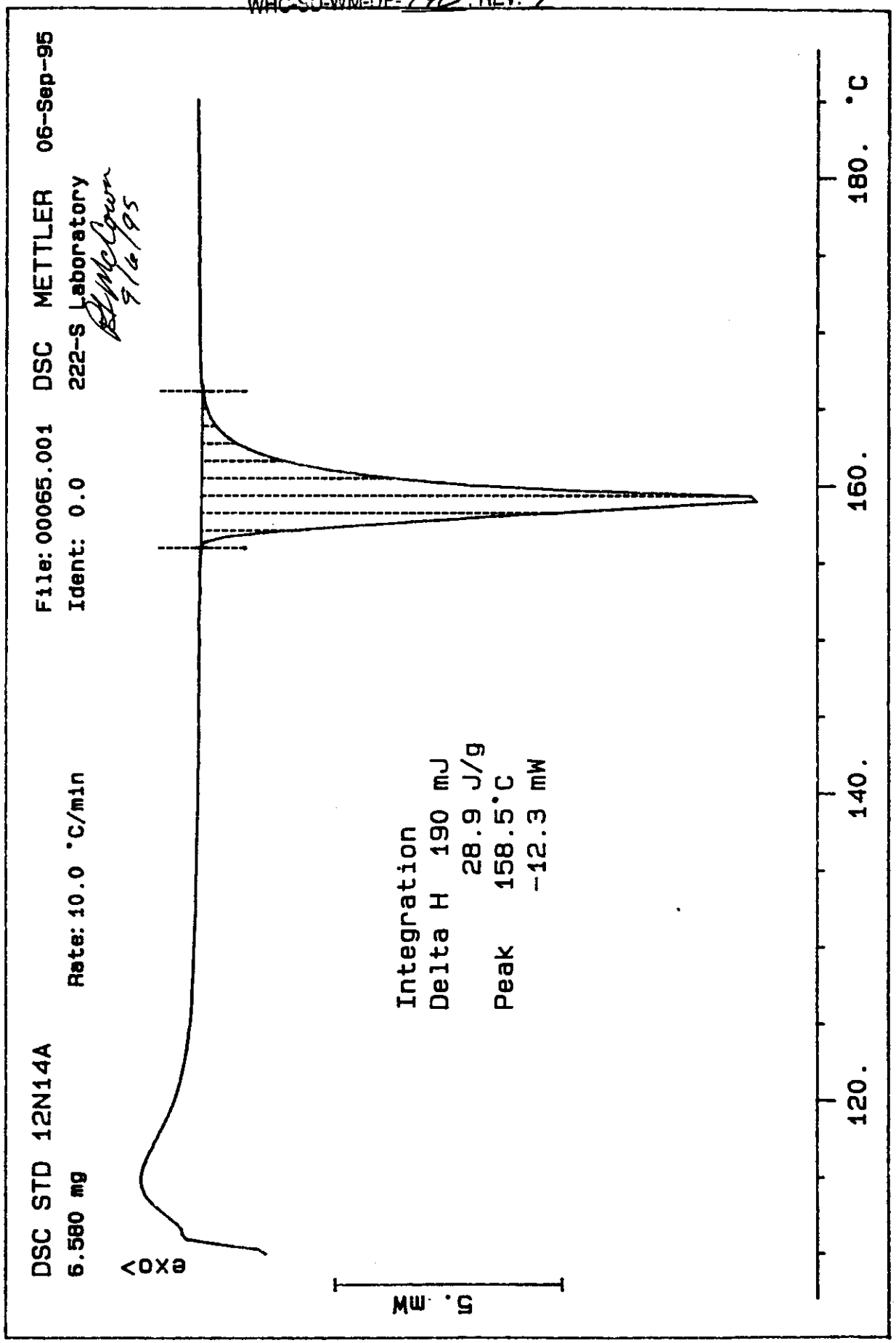
R L McCown 9/6/95
Analyst Signature Date

[signature] 9/7/95
Analyst Signature Date

Verified 9/7/95 J. M. Fuyo

Data Entry Comments:
S95T001419 sample has an endotherm of 853.5 J/g at 129°C; duplicate has 770.5 J/g at 126°C. JMF
S95T001420 sample has an endotherm of 712.2 J/g at 127°C; duplicate has 823.9 J/g at 119°C. JMF

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


DSC STD 12N14A
6.580 mg
Rate: 10.0 °C/min
File: 00065.001
Ident: 0.0
DSC METTLER 06-Sep-95
222-S Laboratory
9/6/95
Integration
Delta H 190 mJ
28.9 J/g
Peak 158.5°C
-12.3 mW
<exo
5. mW
120.
140.
160.
180. °C

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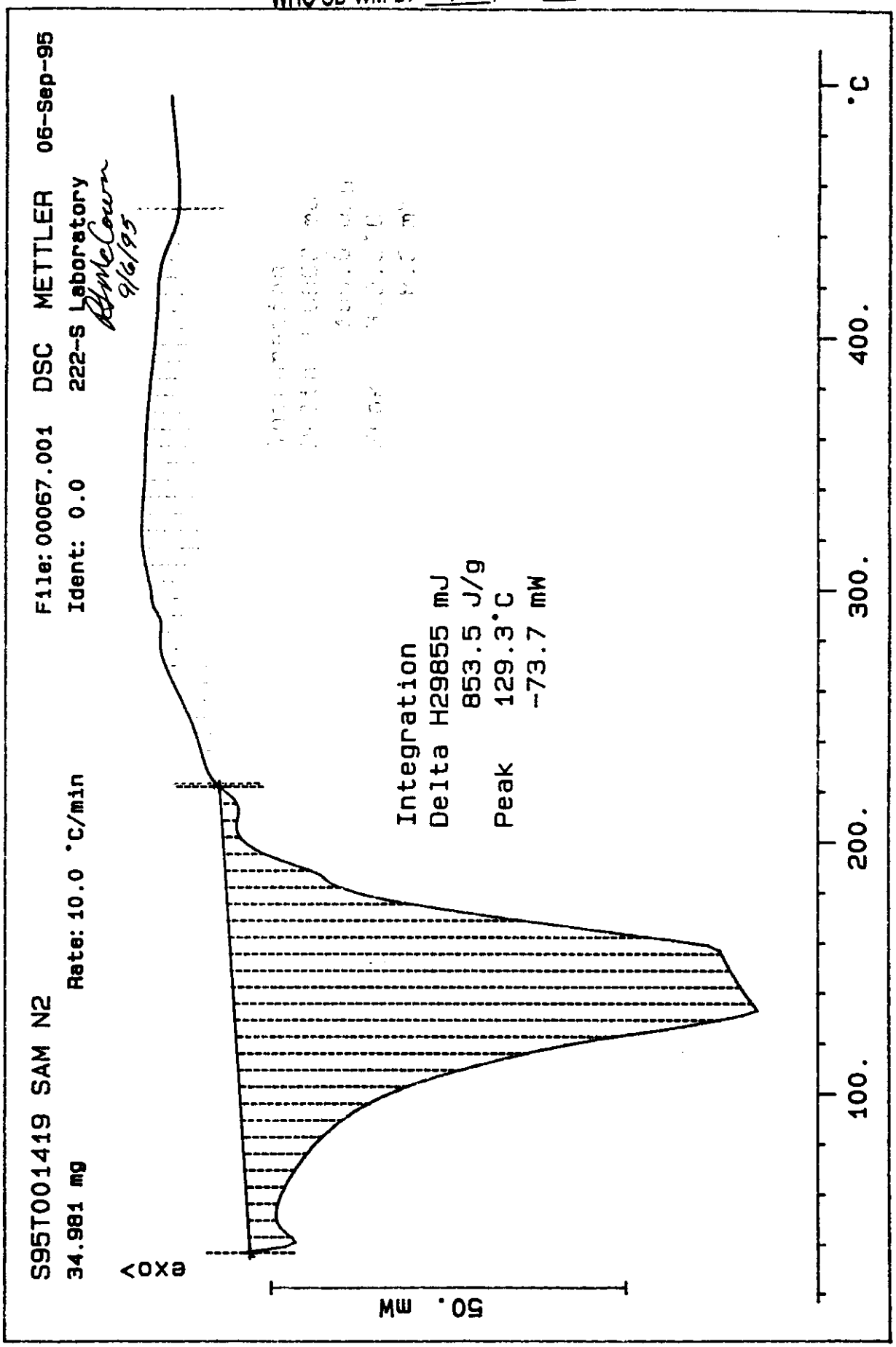
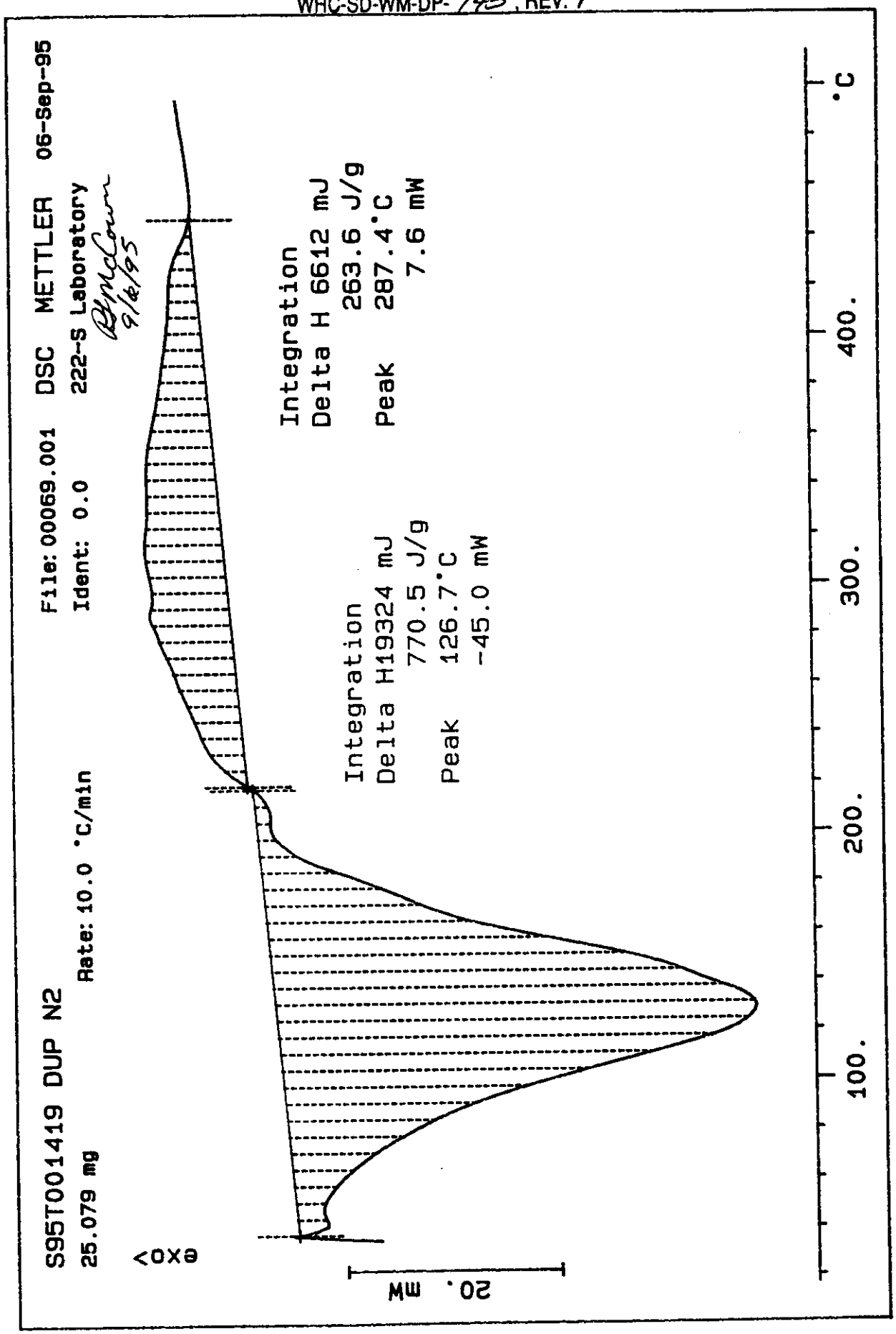
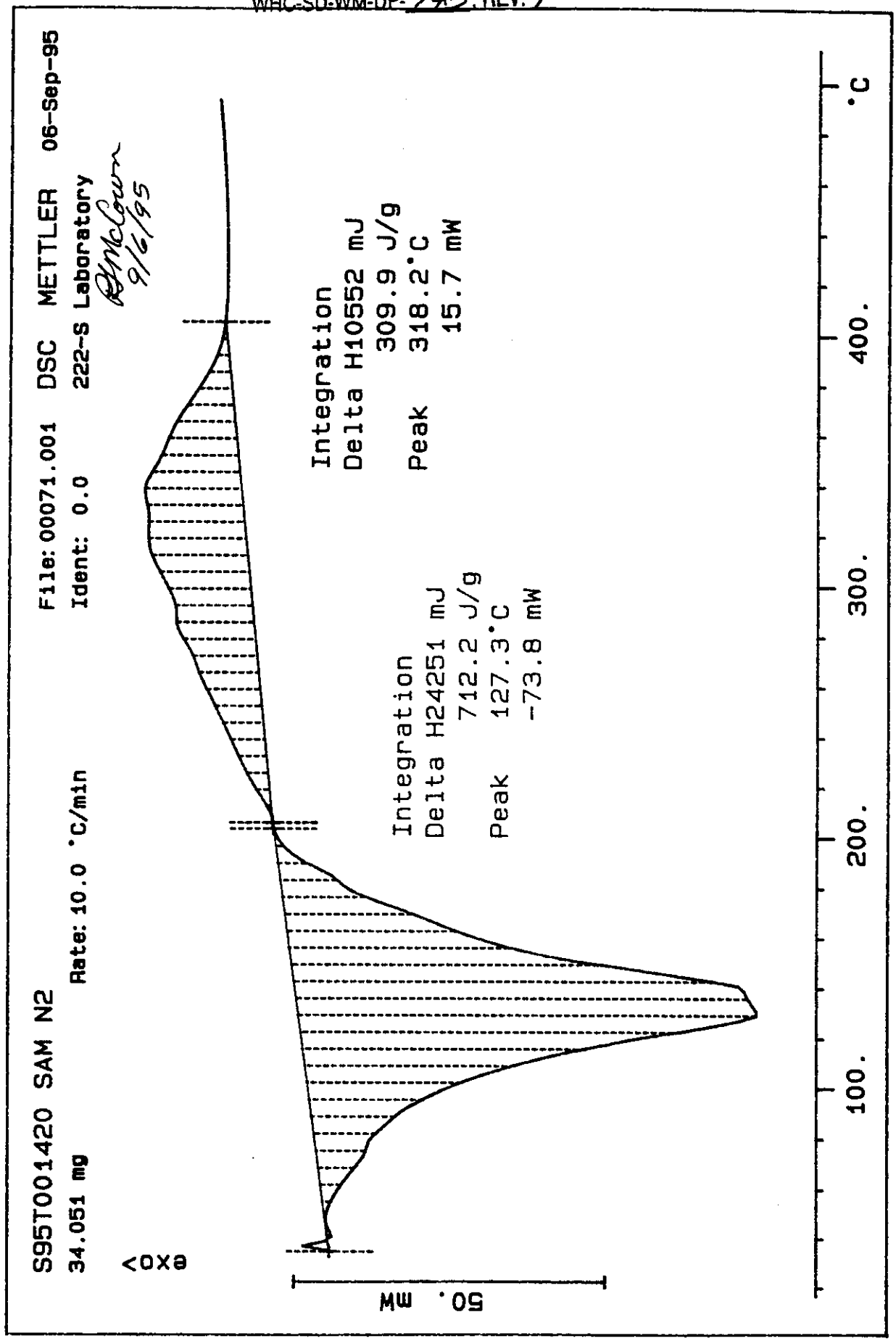
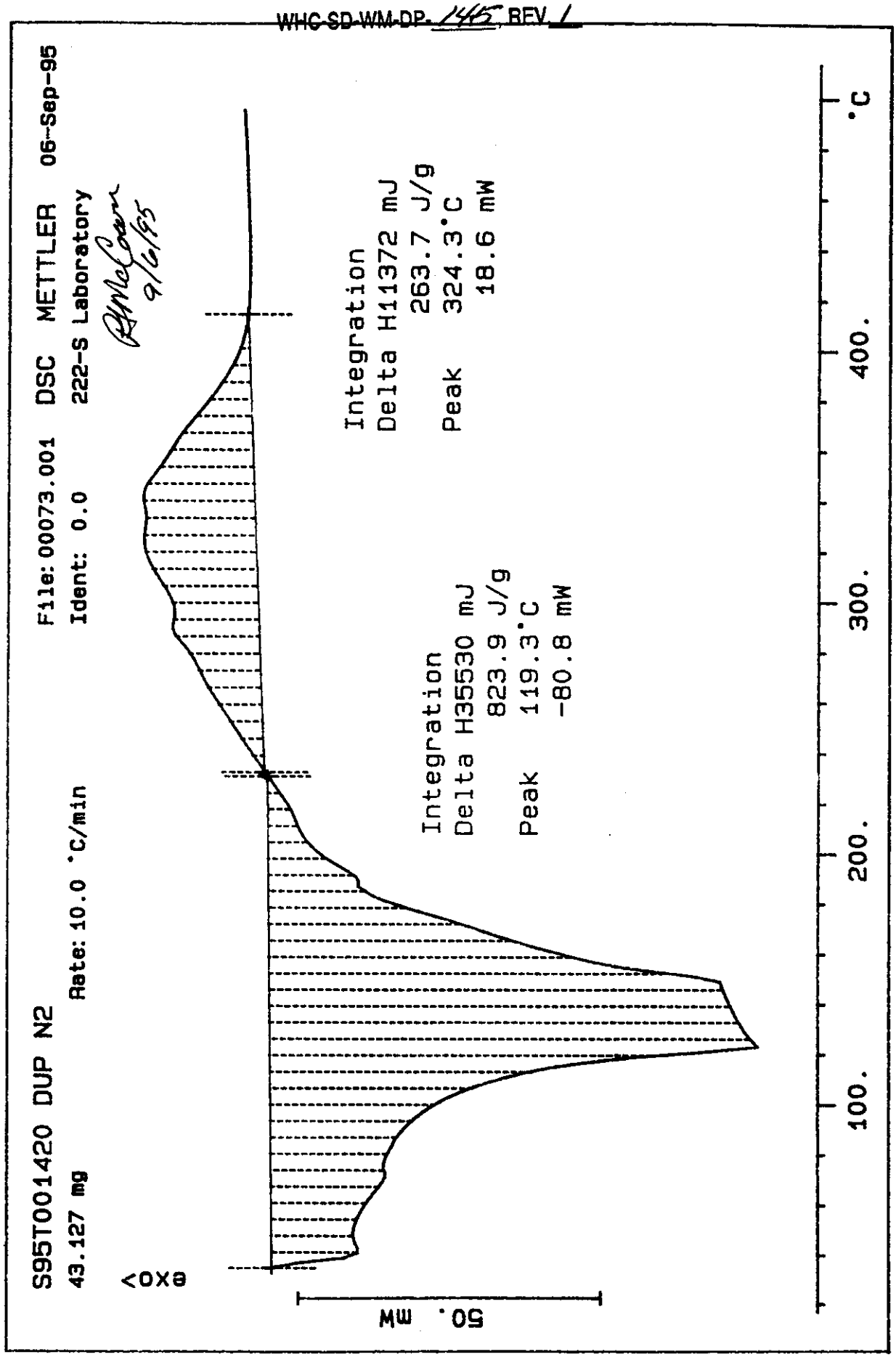



S95T001419 DUP N2
25.079 mg
Rate: 10.0 °C/min
File: 00069.001
Ident: 0.0
DSC METTLER 06-Sep-95
222-S Laboratory
9/6/95
Integration
Delta H 6612 mJ
263.6 J/g
Peak 287.4°C
7.6 mW
Integration
Delta H19324 mJ
770.5 J/g
Peak 126.7°C
-45.0 mW
exo>
20. mW
100.
200.
300.
400.
°C


S95T001420 SAM N2
34.051 mg
Rate: 10.0 °C/min
File: 00071.001 DSC METTLER 06-Sep-95
Ident: 0.0 222-S Laboratory
9/6/95
Integration
Delta H10552 mJ
309.9 J/g
Peak 318.2°C
15.7 mW
Integration
Delta H24251 mJ
712.2 J/g
Peak 127.3°C
-73.8 mW
exo>
50. mW
100.
200.
300.
400.
°C


S95T001420 DUP N2
43.127 mg
Rate: 10.0 °C/min
File: 00073.001 DSC METTLER 06-Sep-95
Ident: 0.0 222-S Laboratory
Integration
Delta H11372 mJ
263.7 J/g
Peak 324.3°C
18.6 mW
Integration
Delta H35530 mJ
823.9 J/g
Peak 119.3°C
-80.8 mW
<exo
50. mW
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 2026

Analyst: JDS **Instrument:** DSC0 3 **Book #** 12N14-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	SOLID	28.49 (5) BDV 8-24-95	28.49	N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001390	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000104	BY-108 (R)	3	DUP	S95T001390	0		DSC-03	SOLID	Ø 28.45	Ø	N/A	Joules/g
		4	STD				DSC-03	SOLID	~~28.46~~ 8-24-95 BDV	28.11	N/A	Joules/g
95000104	BY-108 (R)	5	SAMPLE	S95T001396	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000104	BY-108 (R)	6	DUP	S95T001396	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2026

See attached for signatures
Analyst Signature Date 8-24-95

Verified by Blandina Valenzuela 8-28-95

Analyst Signature Date

S95T001390 produced three endothermic regions at 119.6°C with a delta H of 610.5 J/g; second at 187.4°C with a delta H of 89.2 J/g and third at 276.1°C with a delta H of 134.6 J/g.

Data Entry Comments: S95T001396 produced one large endo ~~exotherms~~ at 146.66°C with a delta H of 1049.0 J/g DH 8249 8-24-95 BDV

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2026

Analyst: JDS **Instrument:** DSC0 _____ **Book #** 12NN1

Method: LA-514-113 Rev/Mod B-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001390	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	3	DUP	S95T001390	0		DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	4	SAMPLE	S95T001396	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	5	DUP	S95T001396	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2026

JDS 8-23-95
Analyst Signature Date

Analyst Signature Date

Other instrument was used
8-24-95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND081801 Fri Aug 18 09:28:07 1995
Sample Weight: 6.480 mg
12N14A Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES TO

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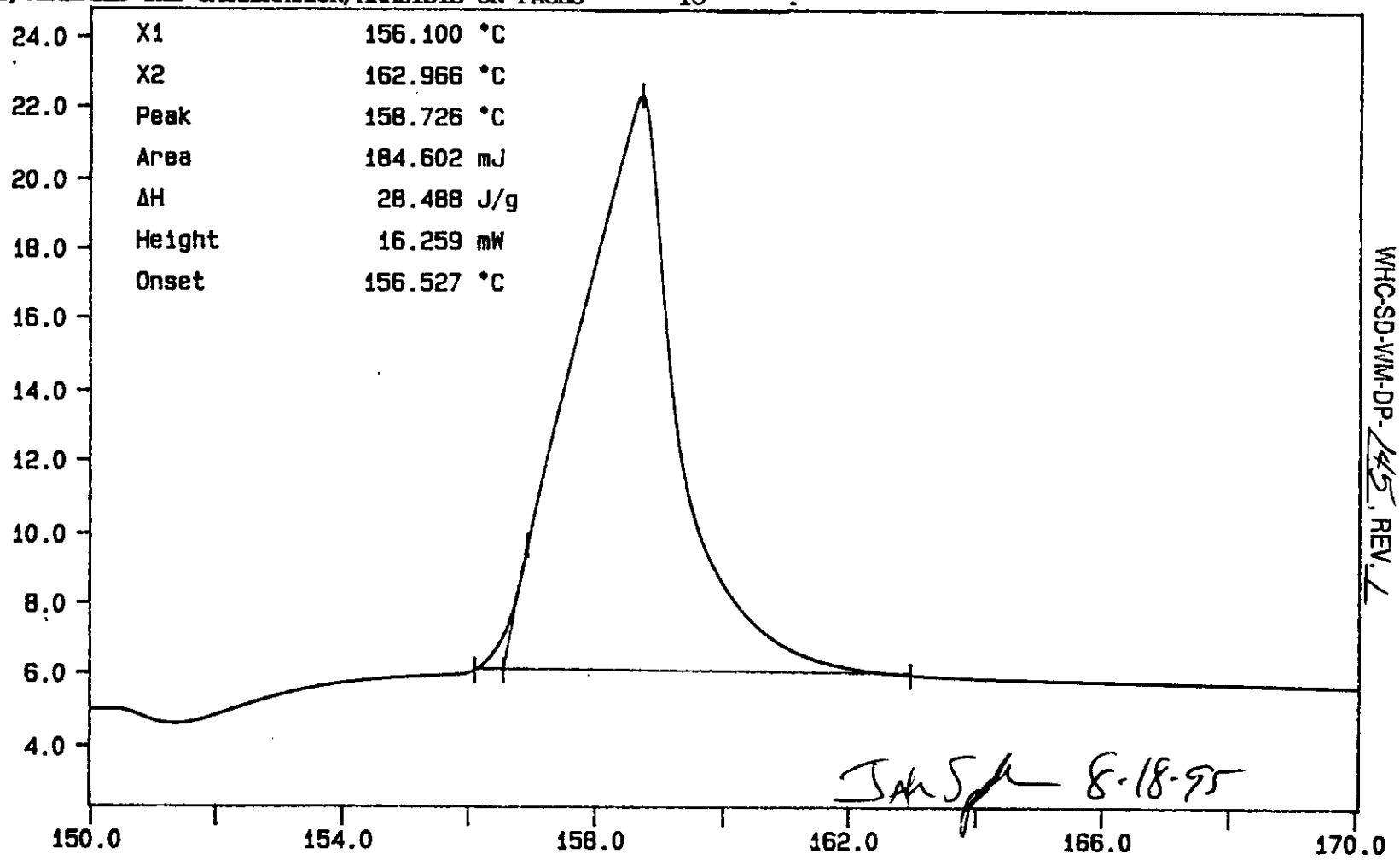

N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Fri Aug 18 09:29:31 1995

8-18-95

WHC-SD-WM-DP-145, REV. 1

59 8-65

Curve 1: DSC
File info: SAM081802 Fri Aug 18 12:08:21 1995
Sample Weight: 23.670 mg
S95T001390 SAM N2

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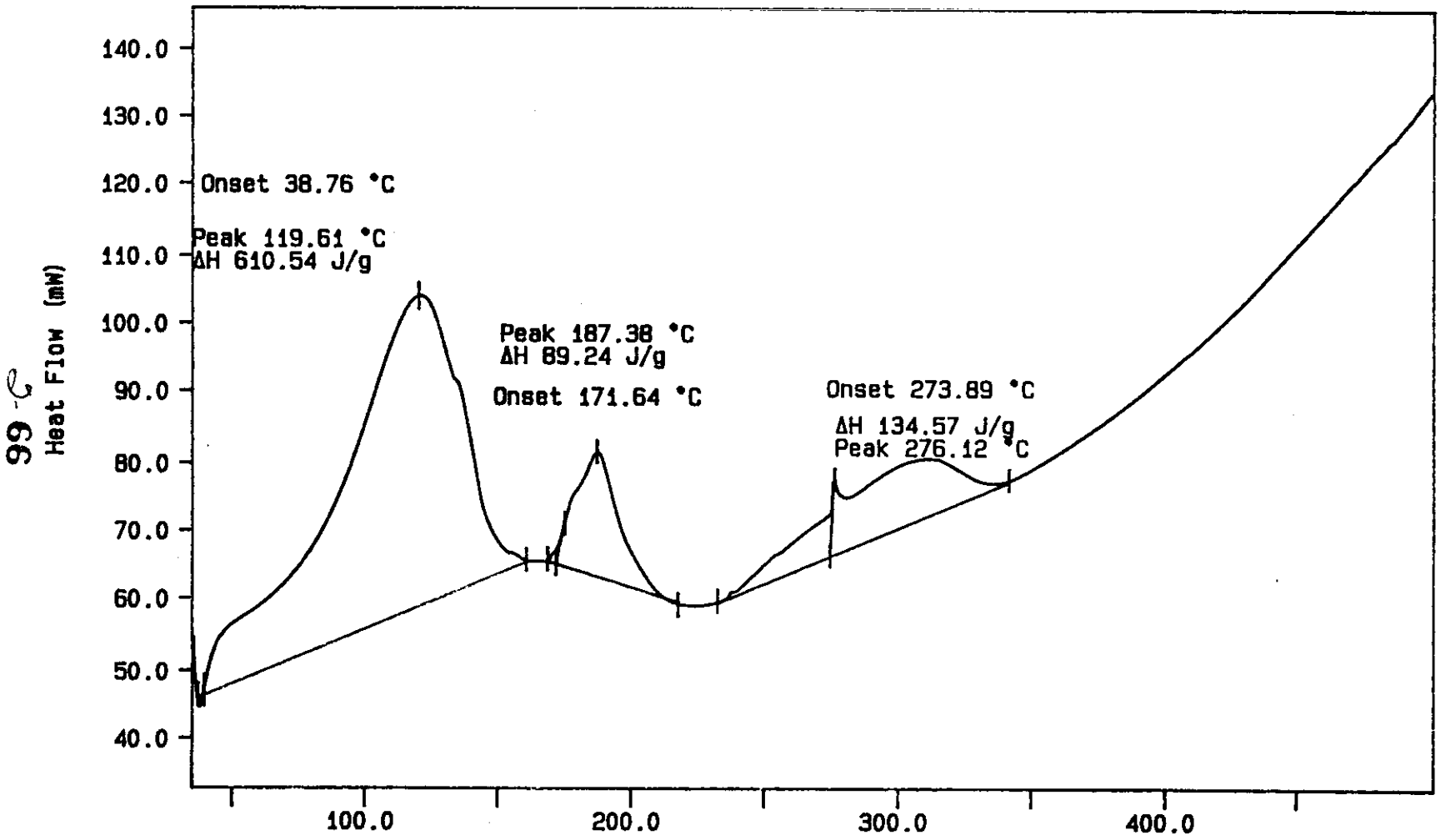

99-69

WHC-SD-WM-DP-145, REV. 4

exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Fri Aug 18 12:52:03 1995

Curve 1: DSC
File info: SAM081803 Fri Aug 18 13:58:49 1995
Sample Weight: 44.260 mg
S95T001390 DUP

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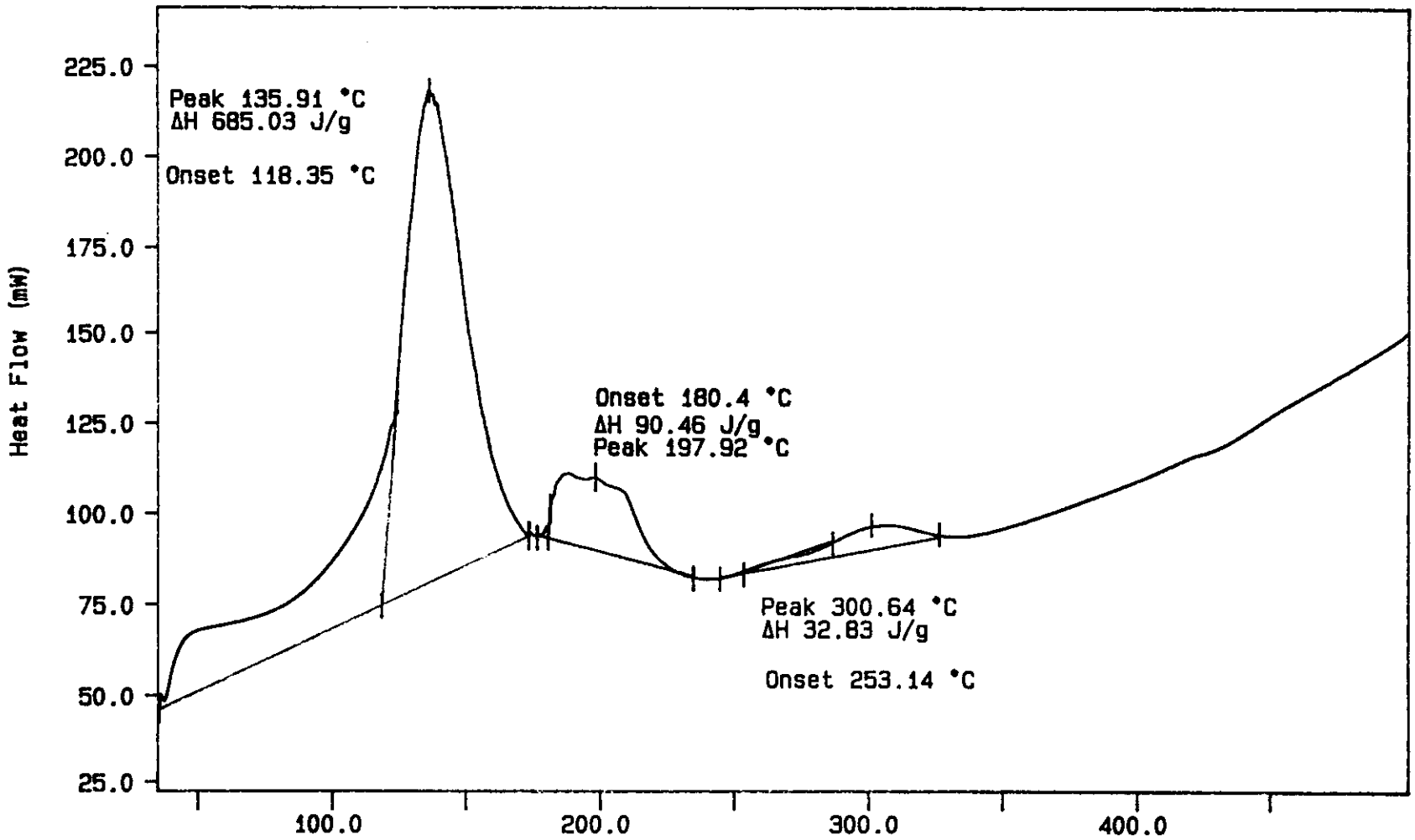

exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Fri Aug 18 14:02:07 1995

WHC-SD-WM-DP-145, REV. 1

2-67

Curve 1: DSC
File info: IND082301 Wed Aug 23 09:07:10 1995
Sample Weight: 6.480 mg
12N14A Indium at 10C/min

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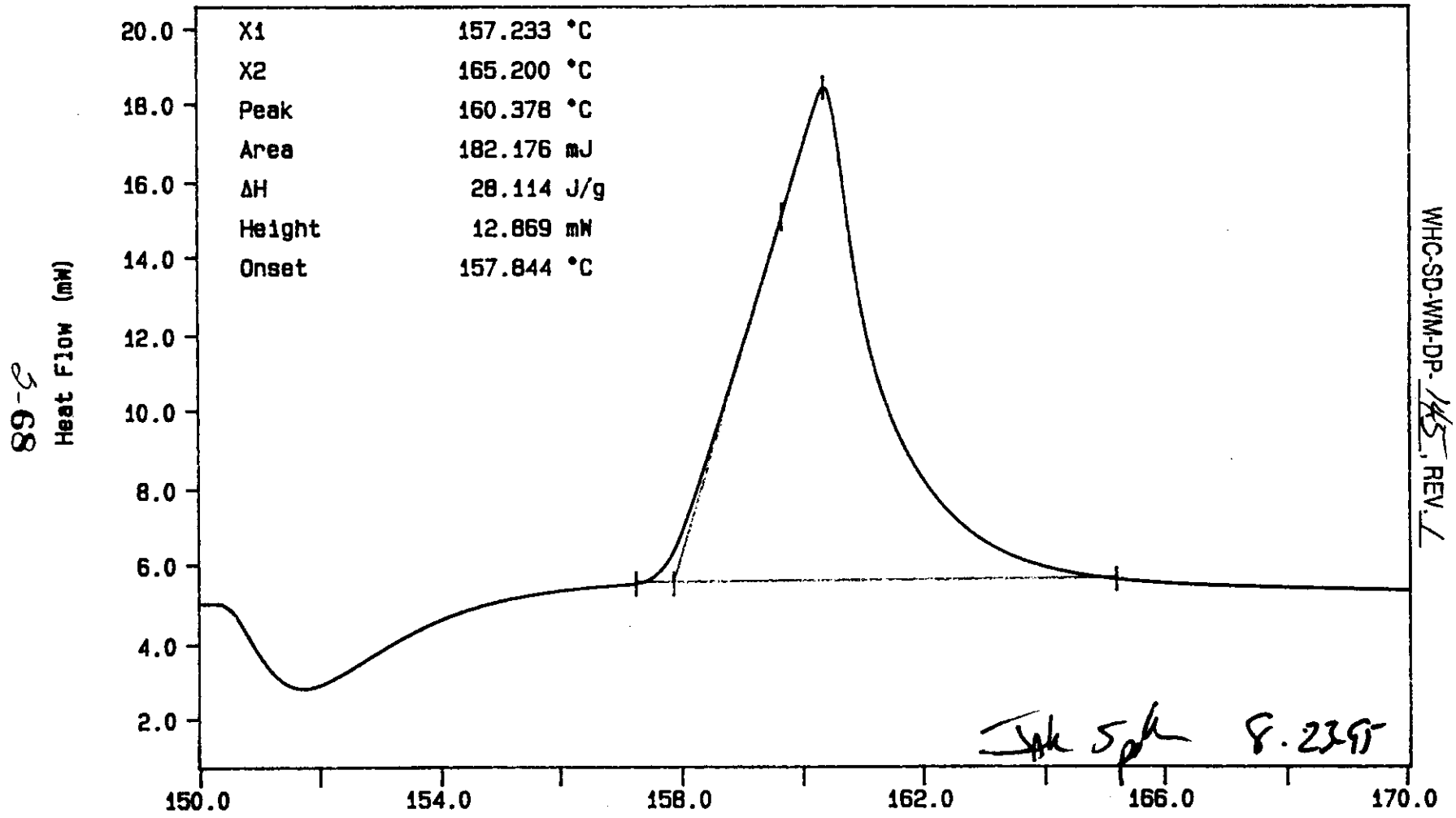

89-68

WHC-SD-WM-DP-145, REV. 1

N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Wed Aug 23 10:56:59 1995

Curve 1: DSC
File info: SAM082301 Wed Aug 23 12:41:39 1995
Sample Weight: 39.800 mg
S95T001396 SAM

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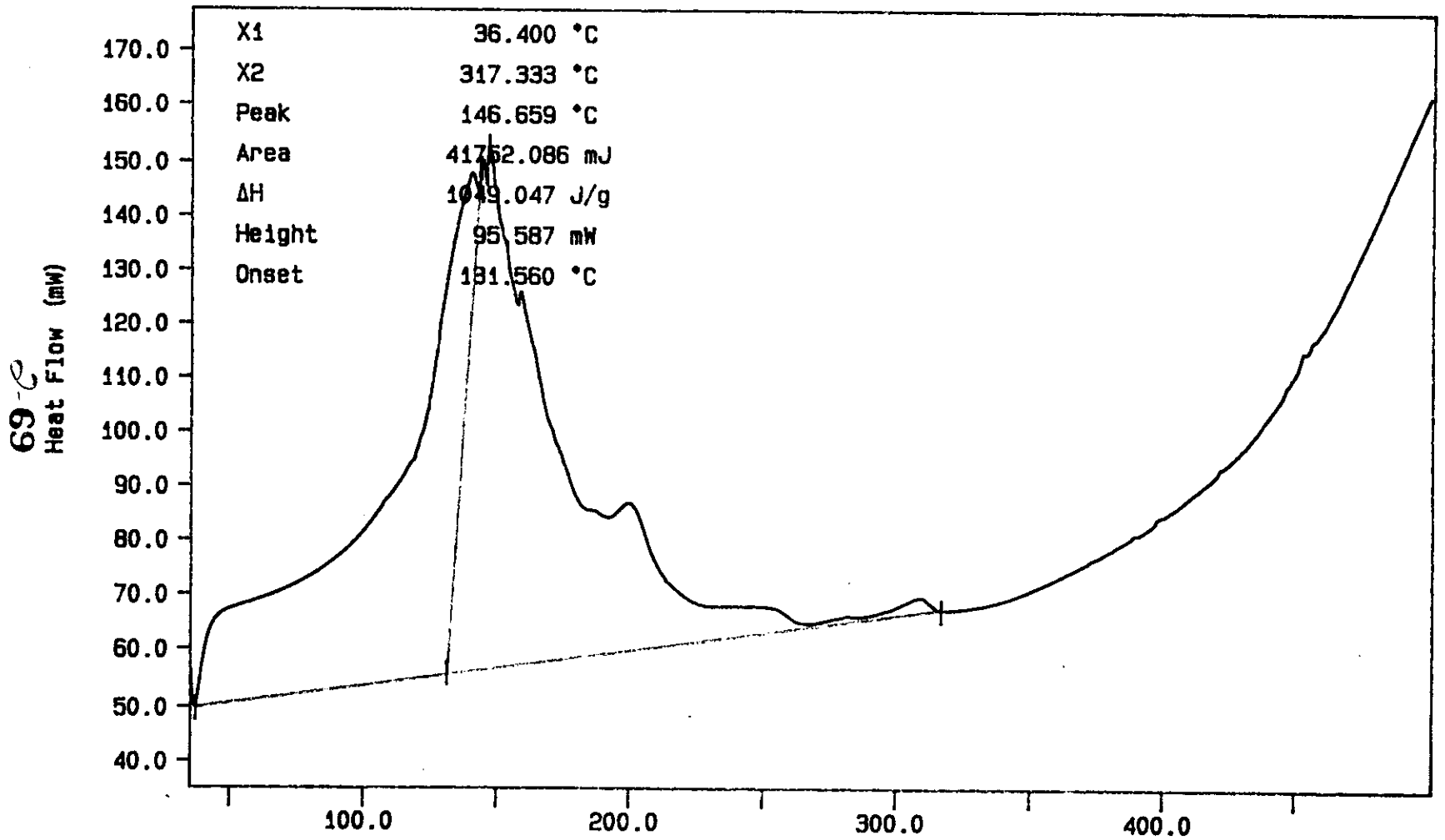

69-2

WHC-SD-WM-DP-145, REV. 1

exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Wed Aug 23 13:43:14 1995

Curve 1: DSC
File info: SAM082302 Wed Aug 23 14:35:05 1995
Sample Weight: 17.900 mg
S95T001396 SAM

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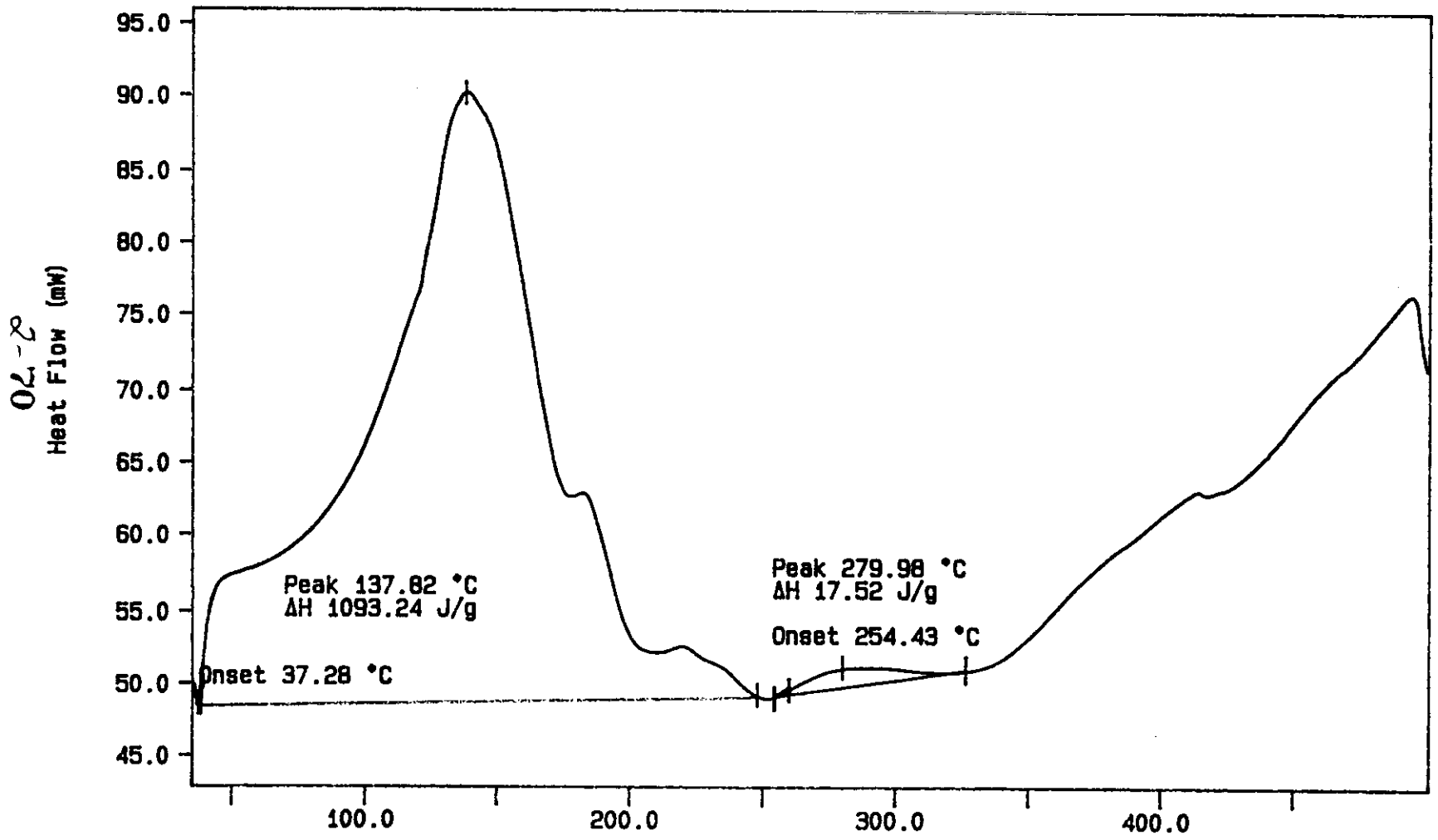

exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Wed Aug 23 14:48:15 1995

02-20

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2027

Analyst: JDS **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-1
LA-514-114 Rev/Mod B-0 BDV

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	26.5	N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001399	0		DSC-01	SOLID	N/A	53.0		Joules/g
95000104	BY-108 (R)	3	DUP	S95T001399	0		DSC-01	SOLID	53.0	49.8	N/A	Joules/g
		4	STD				DSC-03	SOLID	28.45	27.22	N/A	Joules/g
95000104	BY-108 (R)	5	SAMPLE	S95T001404	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000104	BY-108 (R)	6	DUP	S95T001404	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2027

See attached for signatures
Analyst Signature Date 8-31-95

Verified by Blandina Valenzuela BDV 8-31-95

Analyst Signature 8-31-95
Analyst Signature Date

S95T001399 produced one endothermic region at 133.5°C with a delta H of 1265.7 J/g.

Data Entry Comments: S95T001404 produced ~~one~~ two endothermic region one at 134.36°C with a delta H of 823.3 J/g and second at 279.9°C with a delta H of 14.5 J/g. 8-31-95 BDV

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2027

Analyst: JdS **Instrument:** DSC0 **Book #** 12N/4A

Method: LA-514-113 Rev/Mod

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001399	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	3	DUP	S95T001399	0		DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	4	SAMPLE	S95T001404	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	5	DUP	S95T001404	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2027

JdS 8.29.95
Analyst Signature **Date**

Analyst Signature **Date**

Other instrument was used.
8-31-95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

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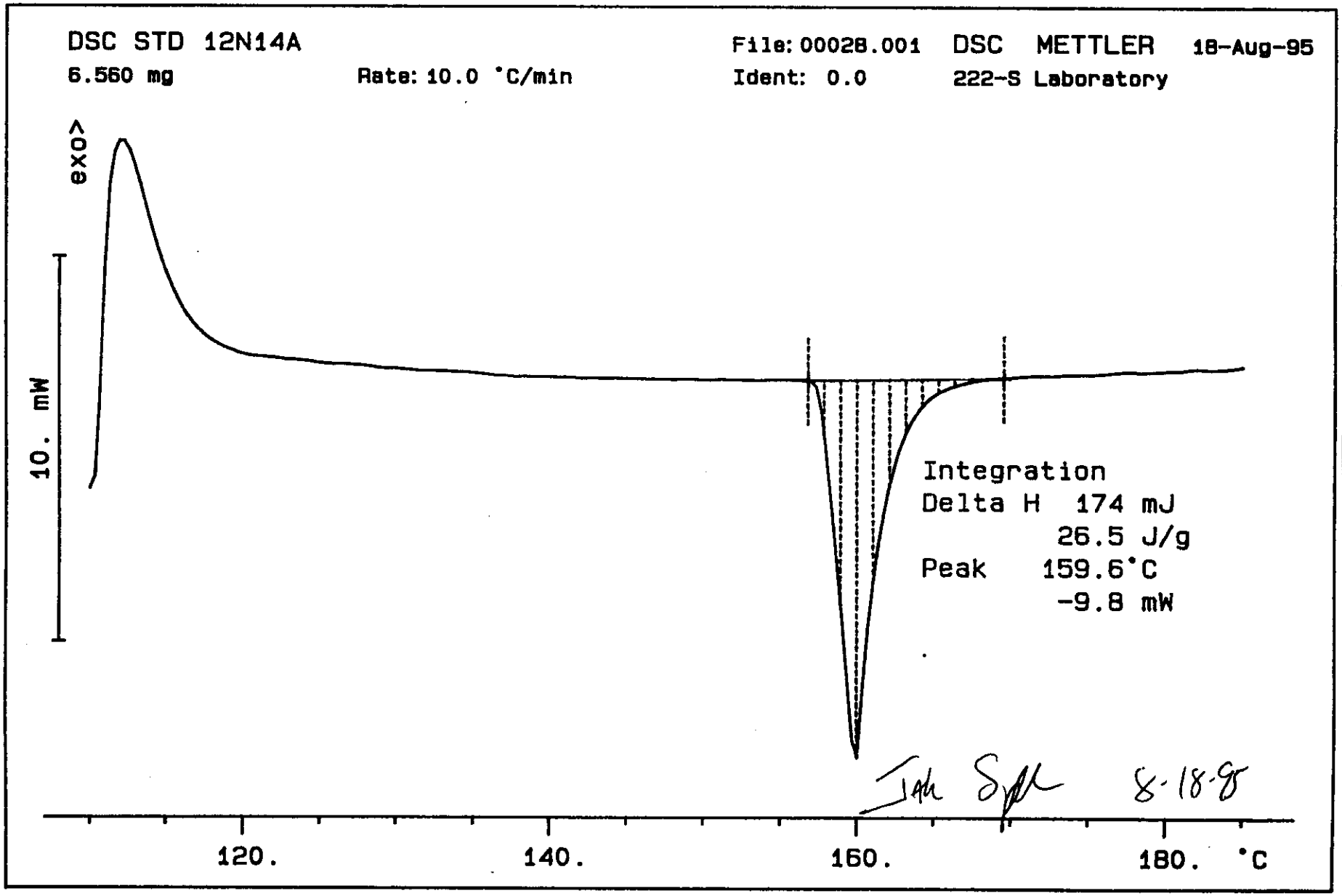

8-18-95

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WHC-SD-WM-DP-145, REV. 1

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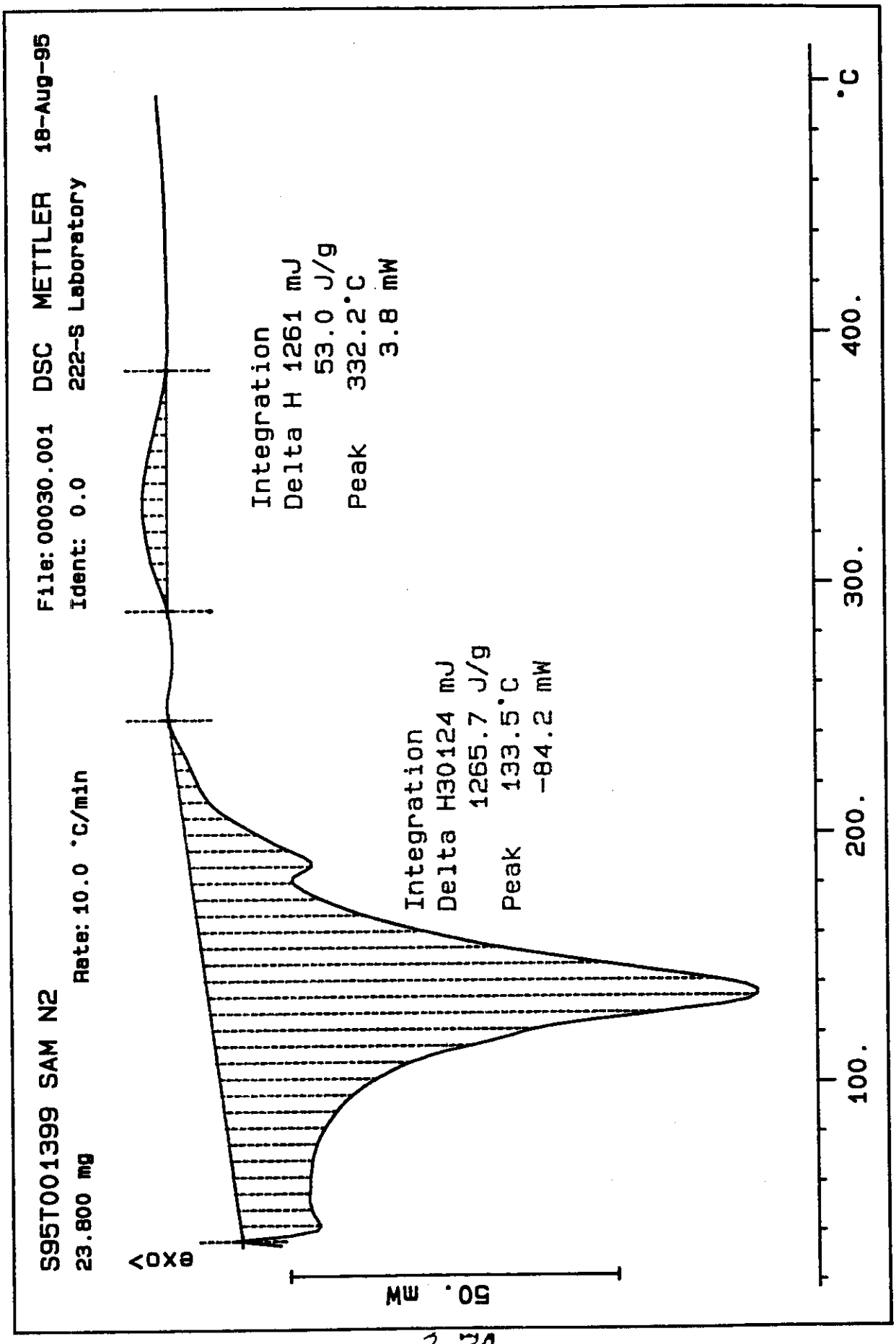
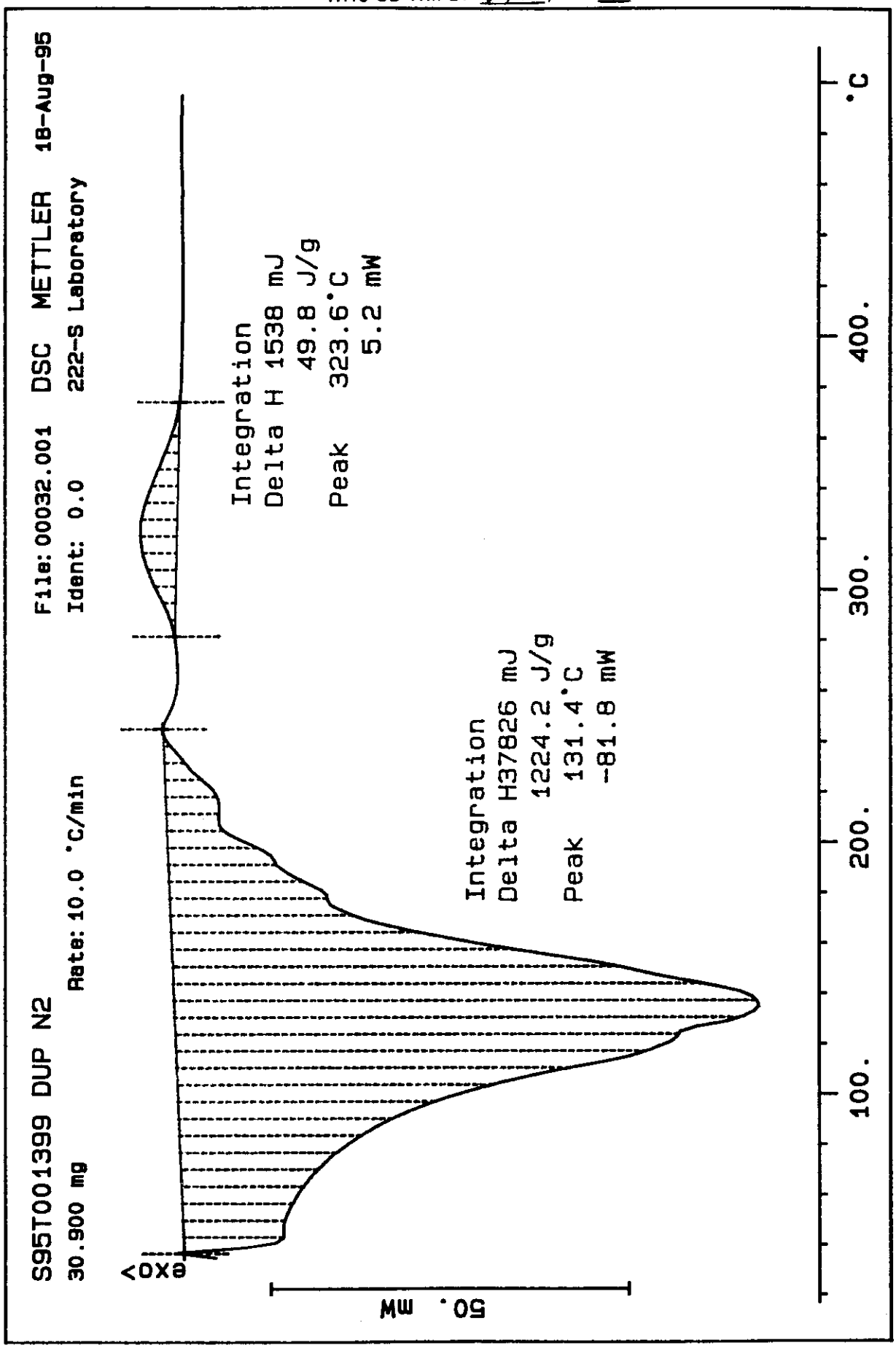
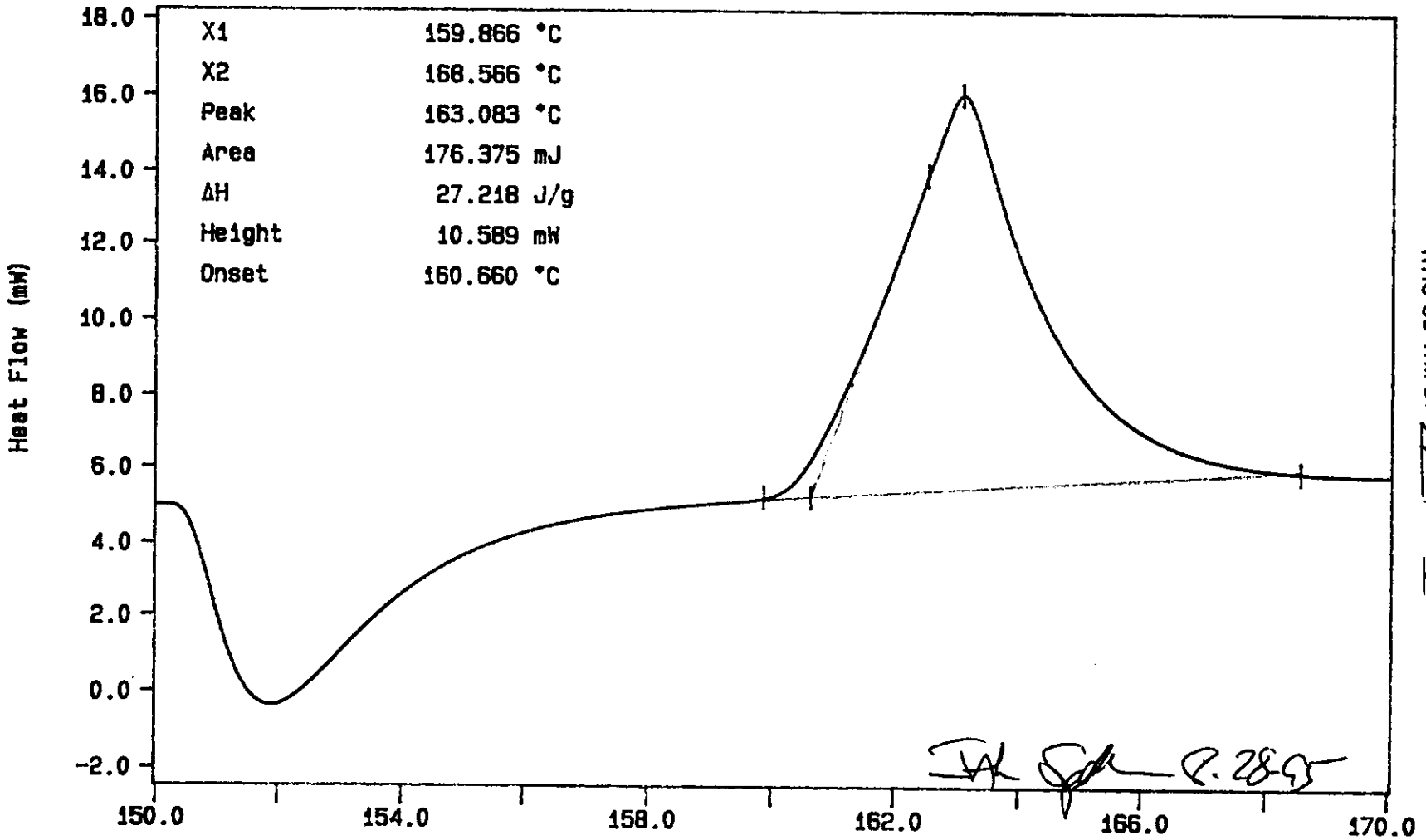


BEST AVAILABLE COPY



Curve 1: DSC
File info: IND082801 Mon Aug 28 11:14:02 1995
Sample Weight: 6.480 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY



N2, EXOTHERM DOWN
TEMP1: 190.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

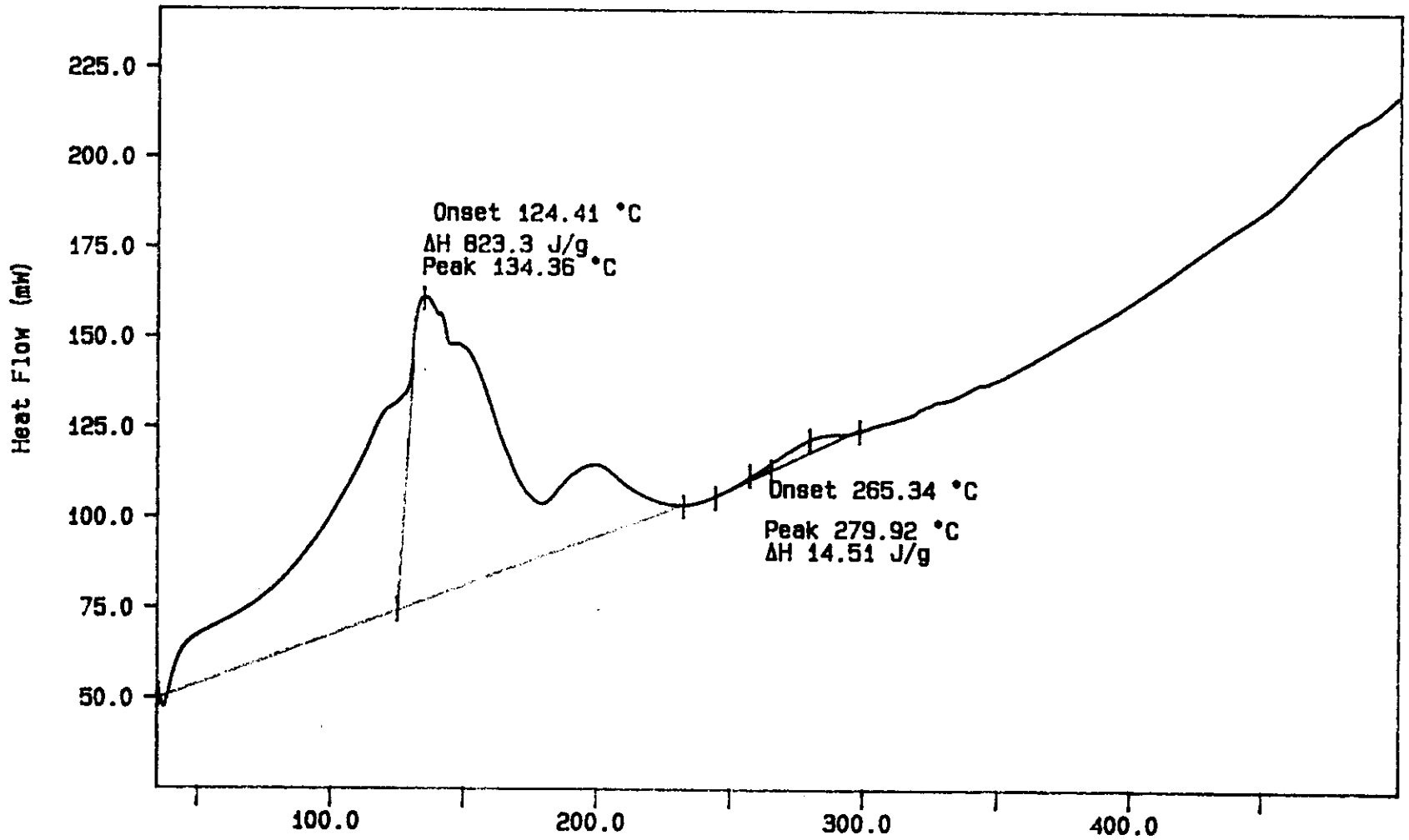
JD SPELLMAN
PERKIN ELMER
222-S Lab
Mon Aug 28 11:14:53 1995

WHC-SD-WM-DP-[illegible], REV. 1

2-76

Curve 1: DSC
File info: qsav2 Mon Aug 28 14:04:18 1995
Sample Weight: 42.390 mg
S95T001404 SAM

BEST AVAILABLE COPY



TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

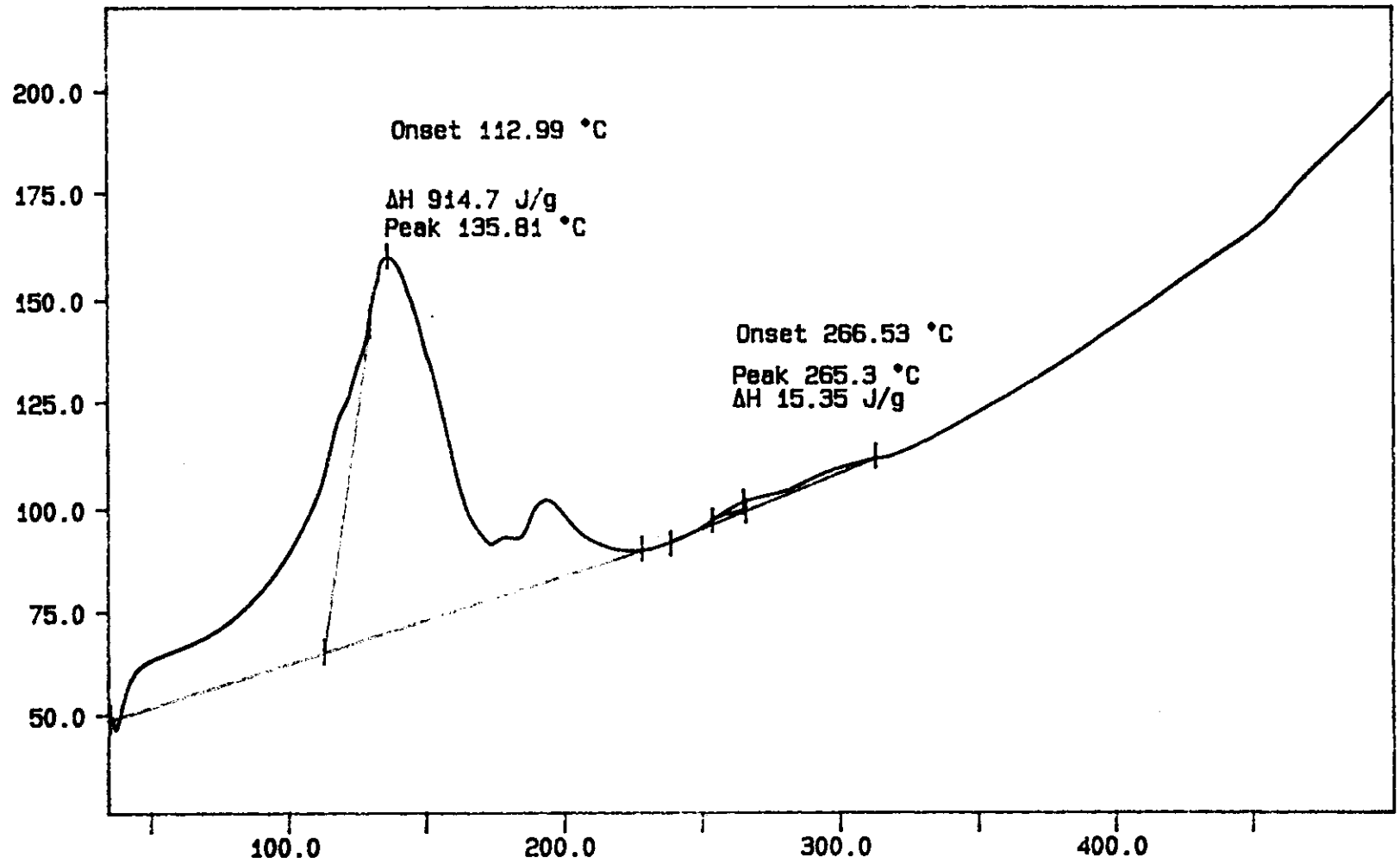
JD SPELLMAN
PERKIN ELMER
222-S Lab
Mon Aug 28 14:06:48 1995

A-77

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM082802 Mon Aug 28 15:14:22 1995
Sample Weight: 34.400 mg
S95T001404 DUP

BEST AVAILABLE COPY



82-78

exotherm down, N2 purge gas

TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Mon Aug 28 15:18:02 1995

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2032

Analyst: JDS **Instrument:** DSC0 3 **Book #** 12N 14-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 ~~TGA~~ DSC s under N2. bdv 8-31-95 BDV

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	LIQUID	28.45	27.75	N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001373	0		DSC-03	LIQUID	N/A	Ø		Joules/g
95000104	BY-108 (R)	3	DUP	S95T001373	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2032

See attached for signatures
Analyst Signature **Date** 8-31-95

Analyst Signature 8-31-95 **Date**

Verified by Blandina Valenzuela BDV 8-31-95

Data Entry Comments: Sample produced one endothermic region at 140.9°C with a delta H of 1376.1 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2032

Analyst: Jds **Instrument:** DSC0 _____ **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-0

Worklist Comment: Please run BY-108 ~~TGA~~s under N2. bdv
DSC 8/19/95

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001373	0		DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000104	BY-108 (R)	3 DUP	S95T001373	0		DSC-01	LIQUID	_____	_____	N/A	Joules/g

Final page for worklist # 2032

Jds 8-29-95
Analyst Signature **Date**

_____
Analyst Signature **Date**

Other instrument was used
8-31-95
BDV

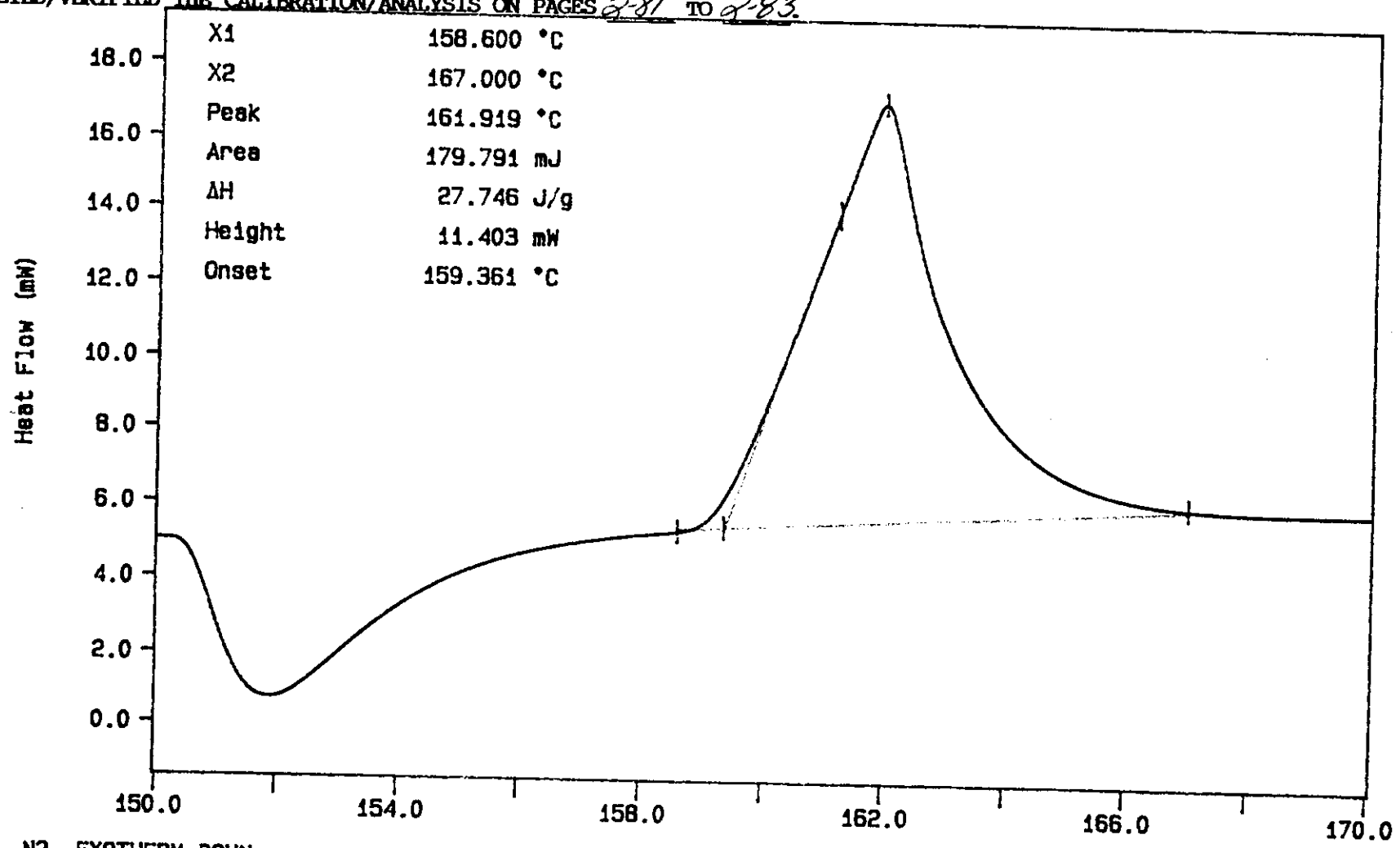
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: ind082901 Tue Aug 29 08:04:09 1995
Sample Weight: 6.480 mg
12N14A Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-81 TO 2-83.

BEST AVAILABLE COPY

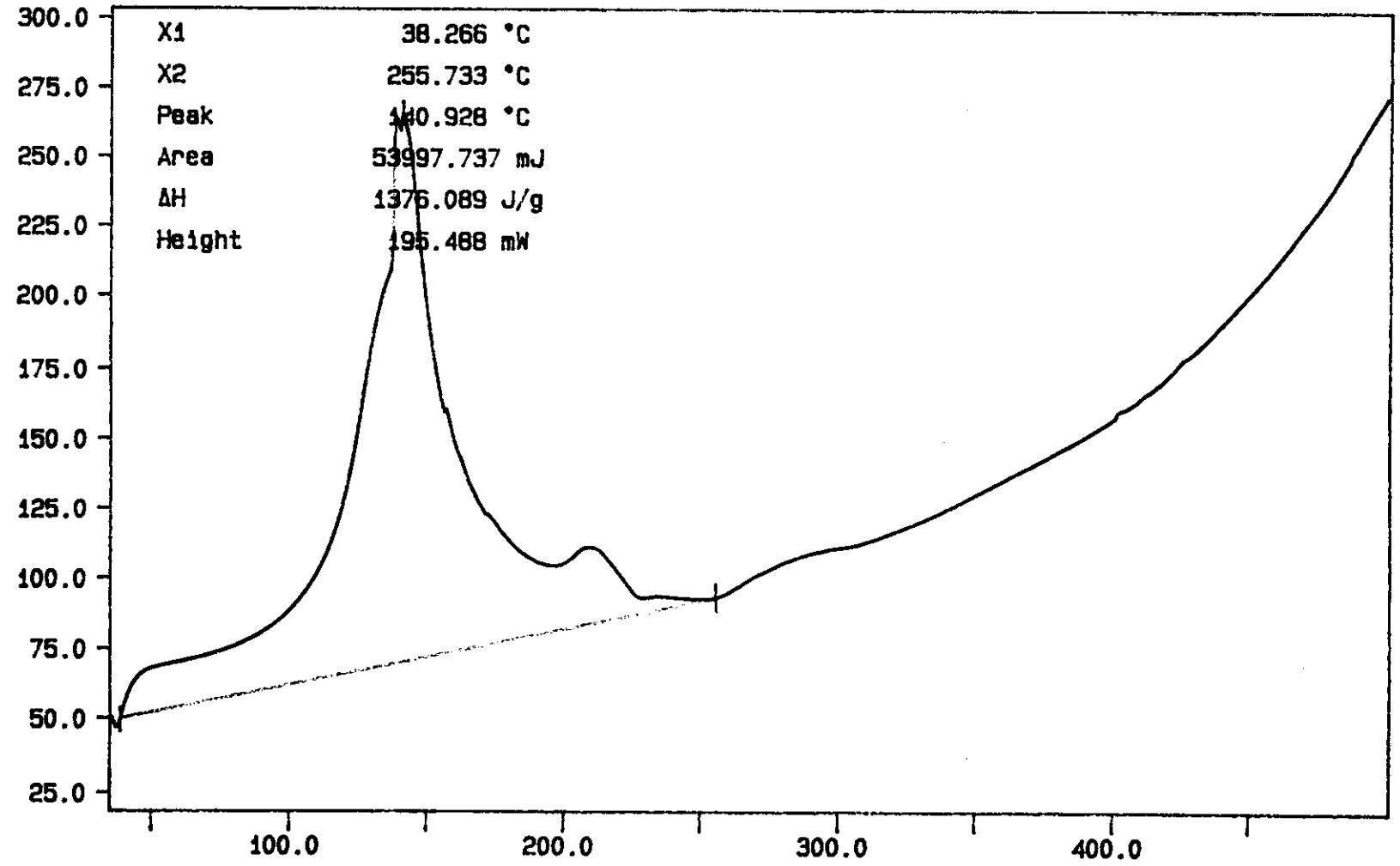


N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 14:25:32 1995

Curve 1: DSC
File info: SAM082903 Tue Aug 29 14:00:56 1995
Sample Weight: 39.240 mg
S95T001373 SAM

BEST AVAILABLE COPY



28-82

WHC-SD-WM-DP-[illegible], REV. 1

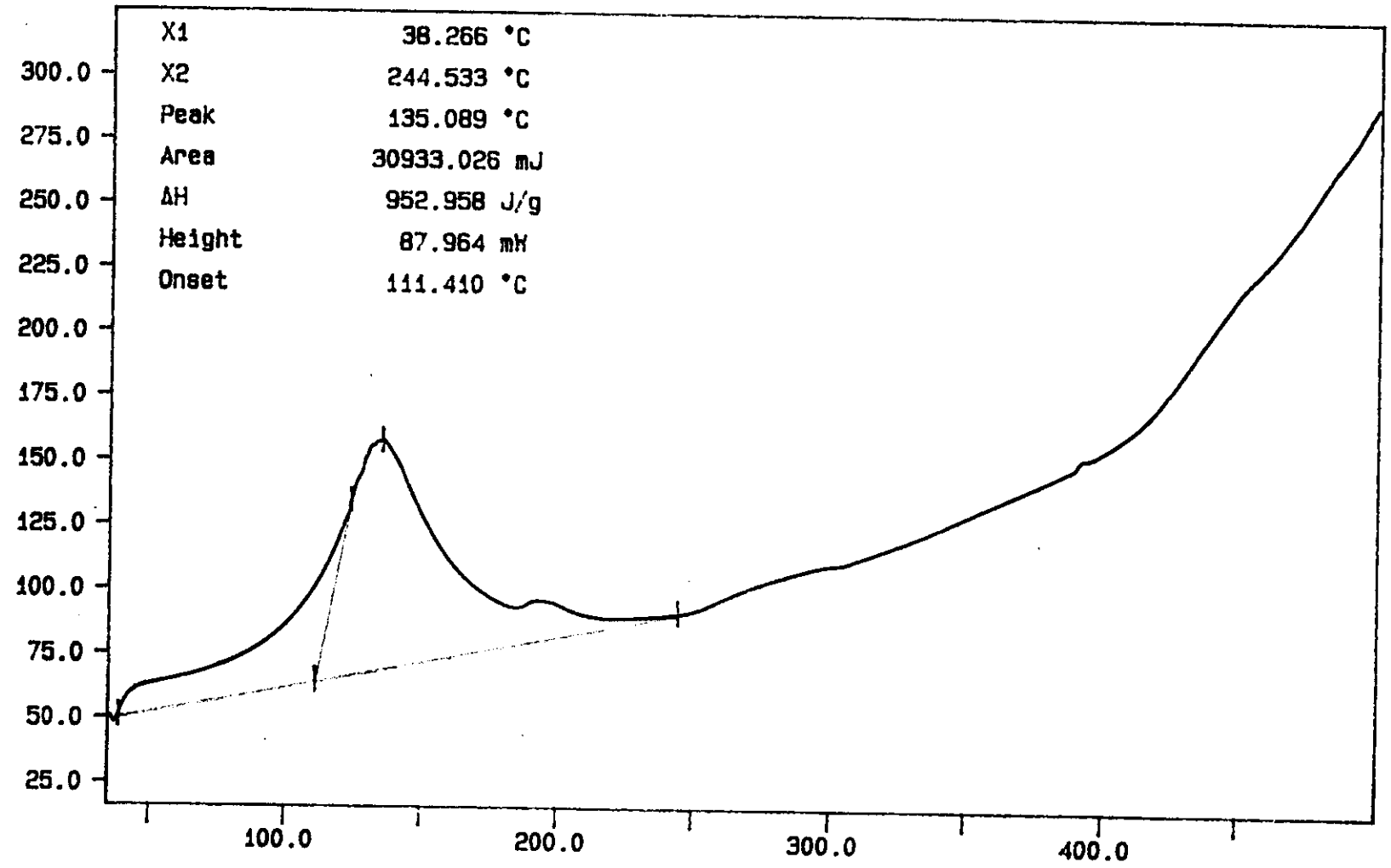
exotherm down, N2 purge gas

TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 14:07:09 1995

Curve 1: DSC
File info: SAM082904 Tue Aug 29 15:10:34 1995
Sample Weight: 32.460 mg
S95T001373 SAM

BEST AVAILABLE COPY



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 15:14:56 1995

83

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2038

Analyst: JDS **Instrument:** DSC0 3 **Book #** 12N14A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	LIQUID	28.45	28.01	N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001427	0		DSC-03	LIQUID	N/A	Ø		Joules/g
95000104	BY-108 (R)	3 DUP	S95T001427	0		DSC-03	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2038

See attached for signatures
Analyst Signature Date 8-31-95

Verified by Blandina Valenzuela BDV 8-31-95

Analyst Signature Date 8-31-95

Data Entry Comments: Sample produced one endothermic region at 123.8°C with a delta H of 17.70 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2038

Analyst: JdS **Instrument:** DSC0 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	LIQUID			N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001427	0		DSC-01	LIQUID	N/A			Joules/g
95000104	BY-108 (R)	3 DUP	S95T001427	0		DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 2038

Jak Sp 9-25-95
Analyst Signature **Date**

Analyst Signature **Date**

Other instrument was used.
8-31-95
BDV

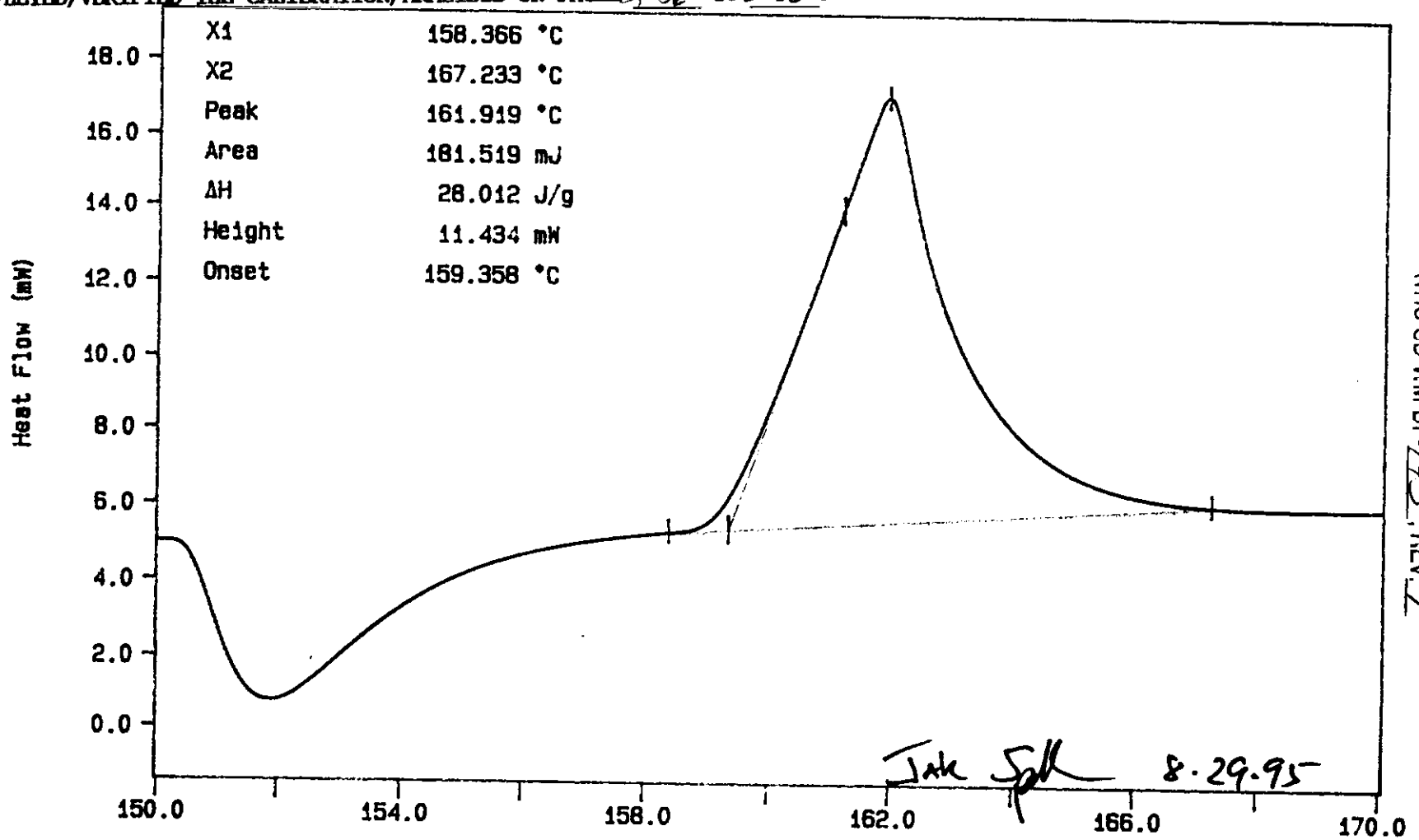
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: ind082901 Tue Aug 29 08:04:09 1995
Sample Weight: 6.480 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-86 TO 2-88.



N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

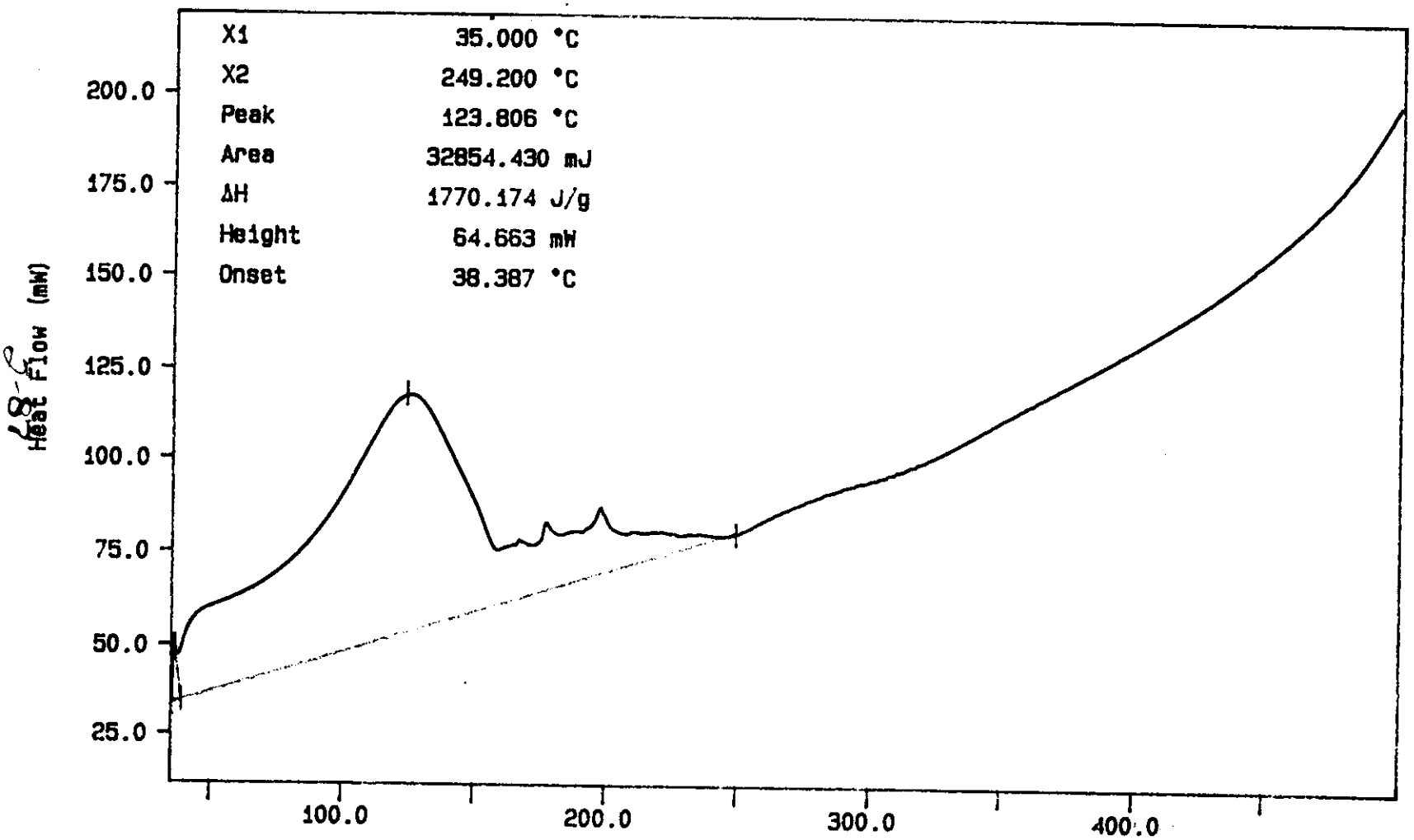
JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 08:12:14 1995

98-2

WHC-CD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM082901 Tue Aug 29 09:09:07 1995
Sample Weight: 18.560 mg
S95T001427 SAM

BEST AVAILABLE COPY



48-87

exotherm down, N2 purge gas

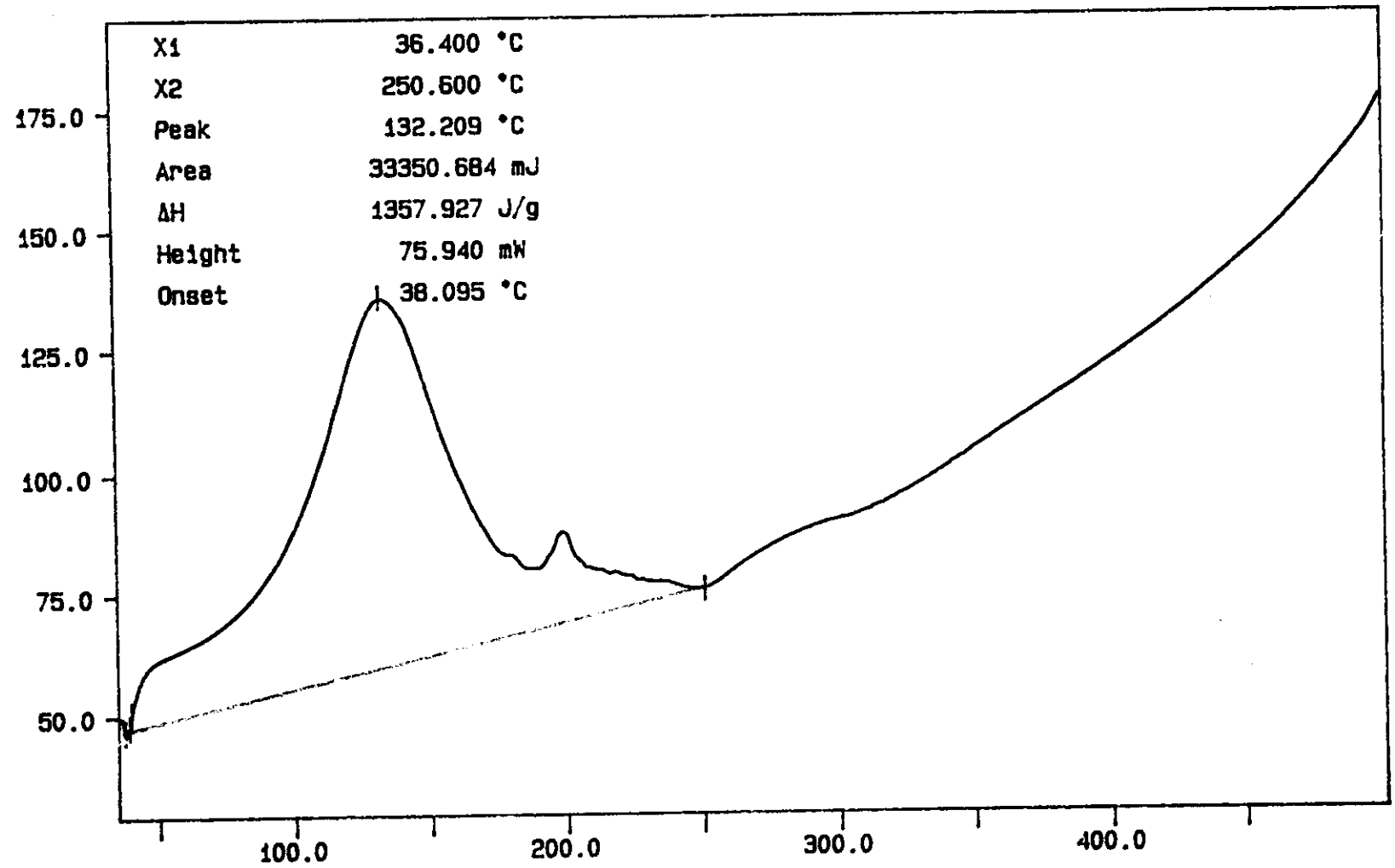
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 09:13:54 1995

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM082902 Tue Aug 29 10:06:53 1995
Sample Weight: 24.560 mg
S95T001427 SAM Dup

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN ELMER
222-S Lab
Tue Aug 29 10:59:20 1995

3-88

WHC-SD-WM-DP-145, REV 1

LABCORE Data Entry Template for Worklist# 2112

Analyst: SMF **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BY-108 samples under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	29.1	N/A	Joules/g
95000104	BY-108 (R)	2 SAMPLE	S95T001421	0	DSC-01	SOLID	N/A	~~80.2~~ 135.4 8-30-95 BDV		Joules/g
95000104	BY-108 (R)	3 DUP	S95T001421	0	DSC-01	SOLID 8-30-95 BDV	~~80.2~~ 135.4	~~102.4~~ 138.2 8-30-95 BDV	N/A	Joules/g
95000104	BY-108 (R)	4 SAMPLE	S95T001422	0	DSC-01	SOLID	N/A	62.6		Joules/g
95000104	BY-108 (R)	5 DUP	S95T001422	0	DSC-01	SOLID	62.6	68.4	N/A	Joules/g

Final page for worklist # 2112

Susie M. Fulton 8-29-95
Analyst Signature Date

[signature] 8-30-95
Analyst Signature Date

Verified by Blandina Valenzuela
8-31-95

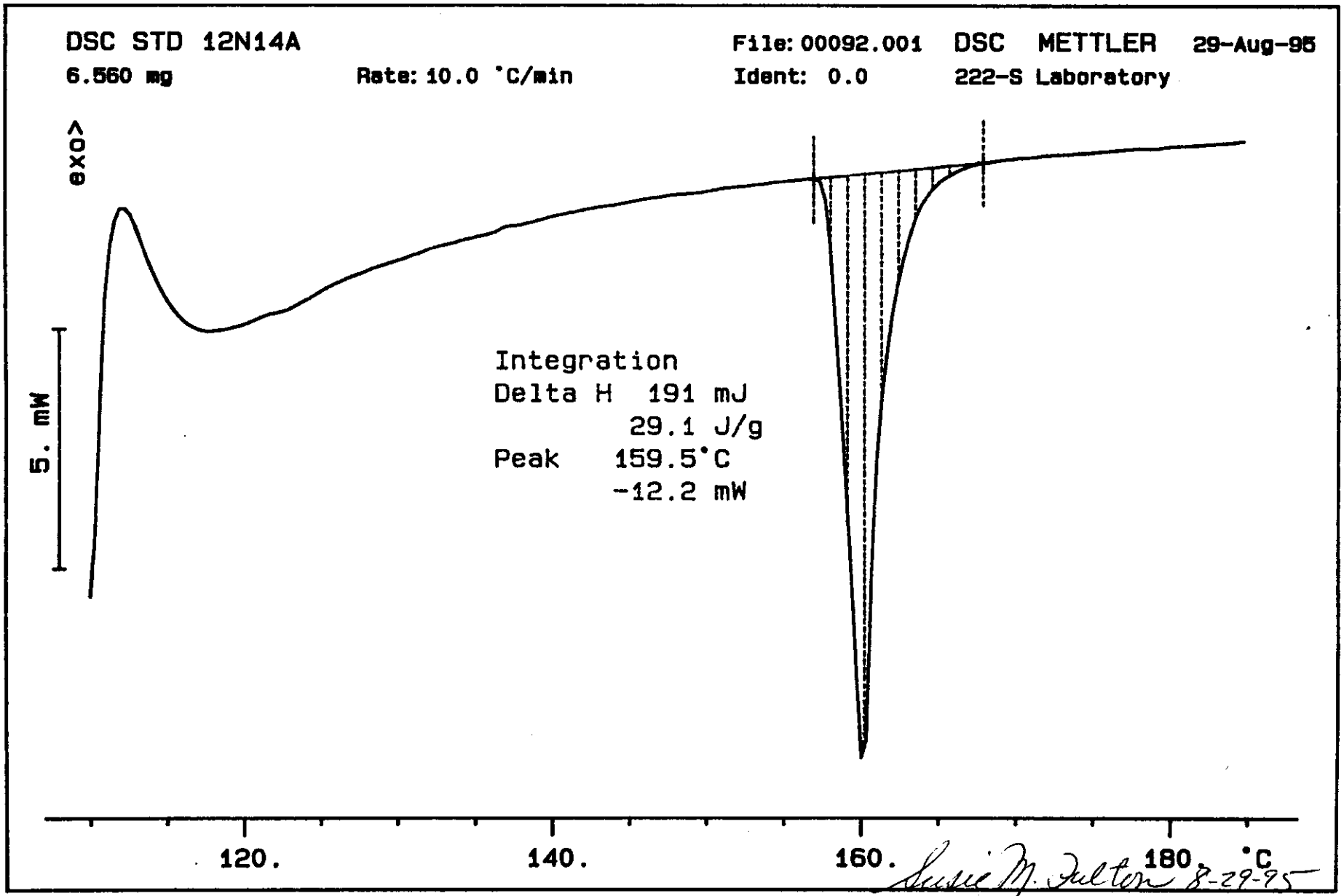
S95T001421 sample produced one large endotherm at 119.3°C with a delta H of 8/30/95 BDV ~~658.1~~ 589.6 J/g. The duplicate exotherm result is the sum of two exotherms.

Data Entry Comments: S95T001422 sample produced one large endotherm at 129.6°C with a delta 798.9 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-90 TO 2-94.

BEST AVAILABLE COPY

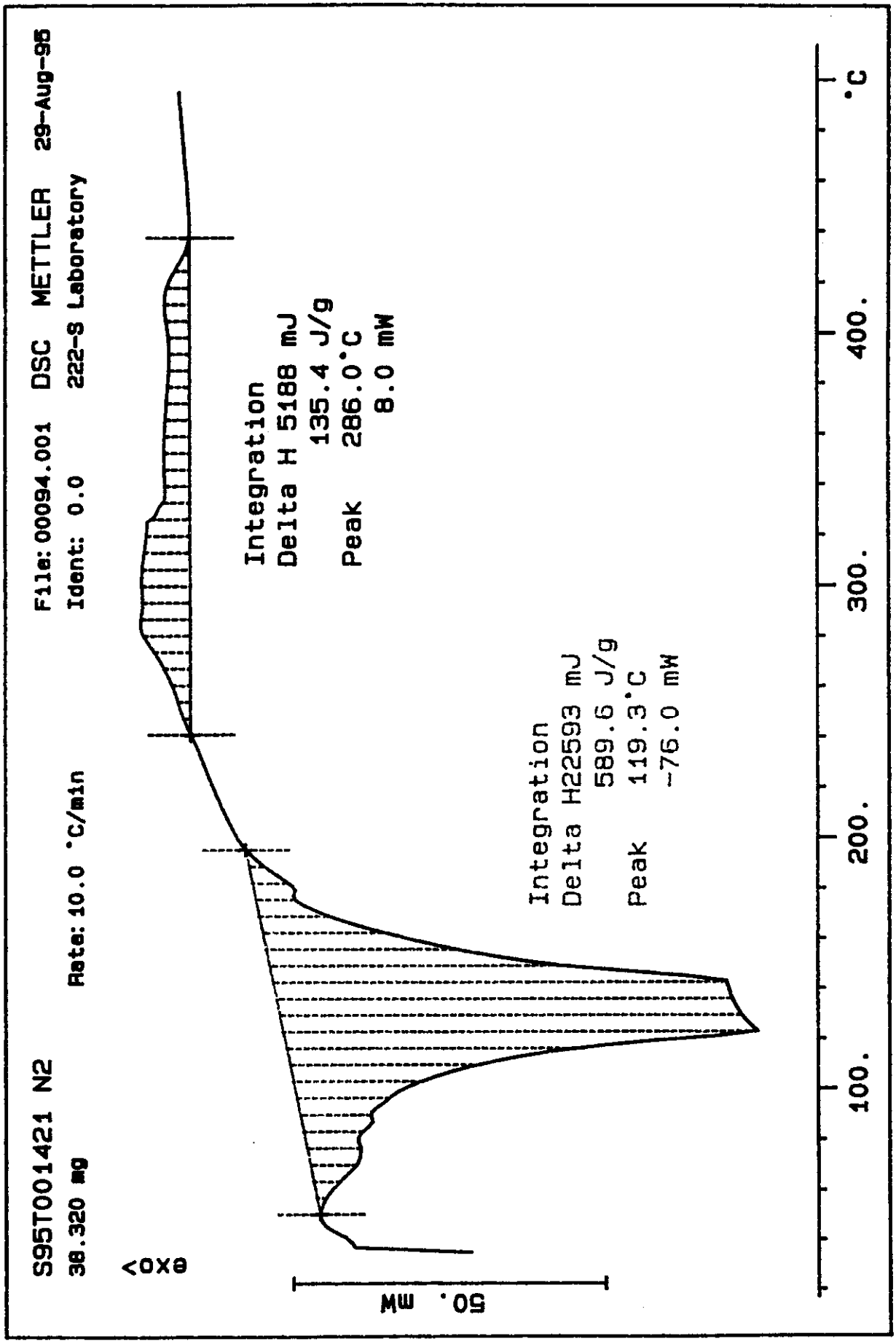


Susie M. Fulton 8-29-95

2-90

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



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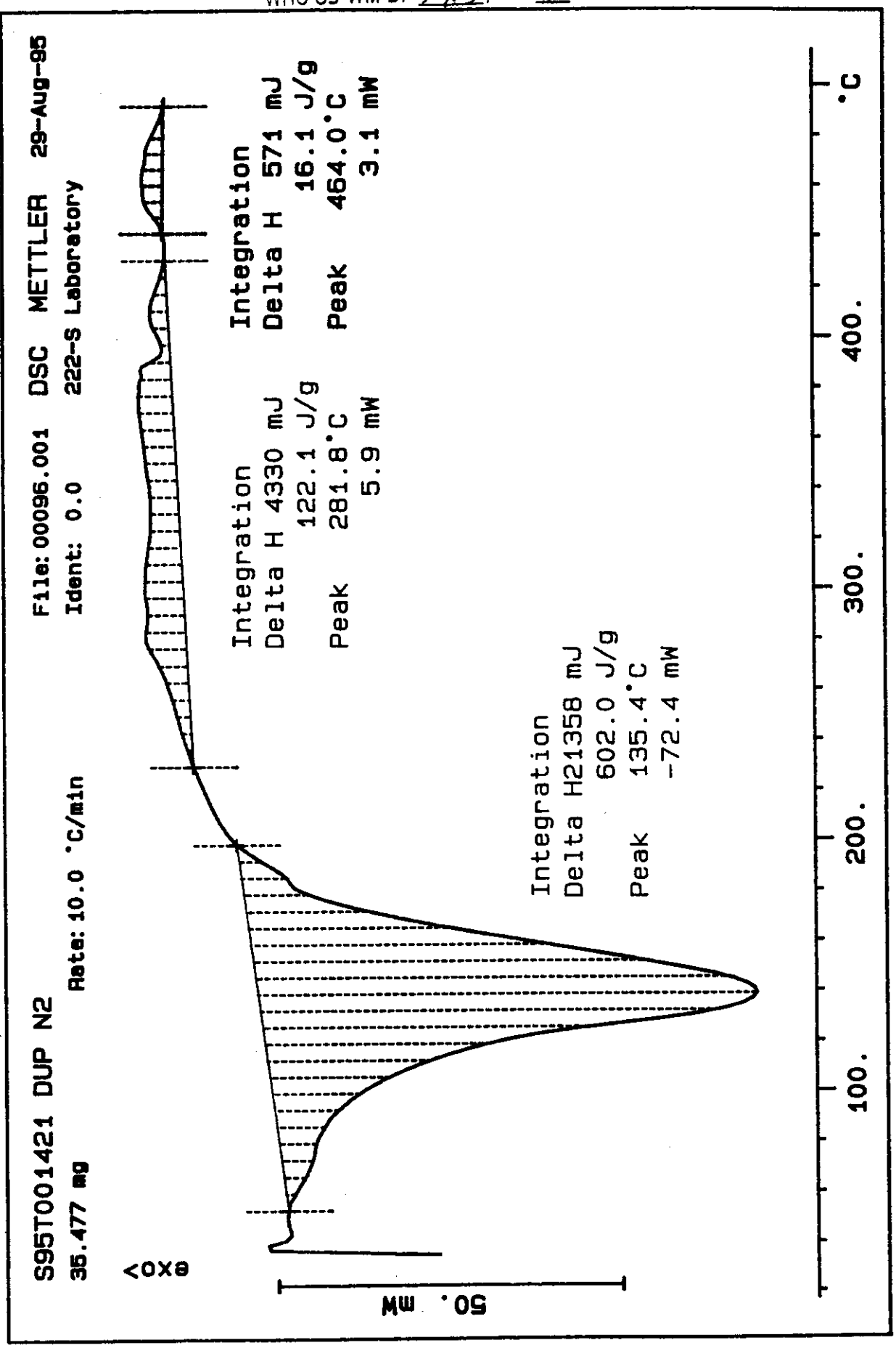

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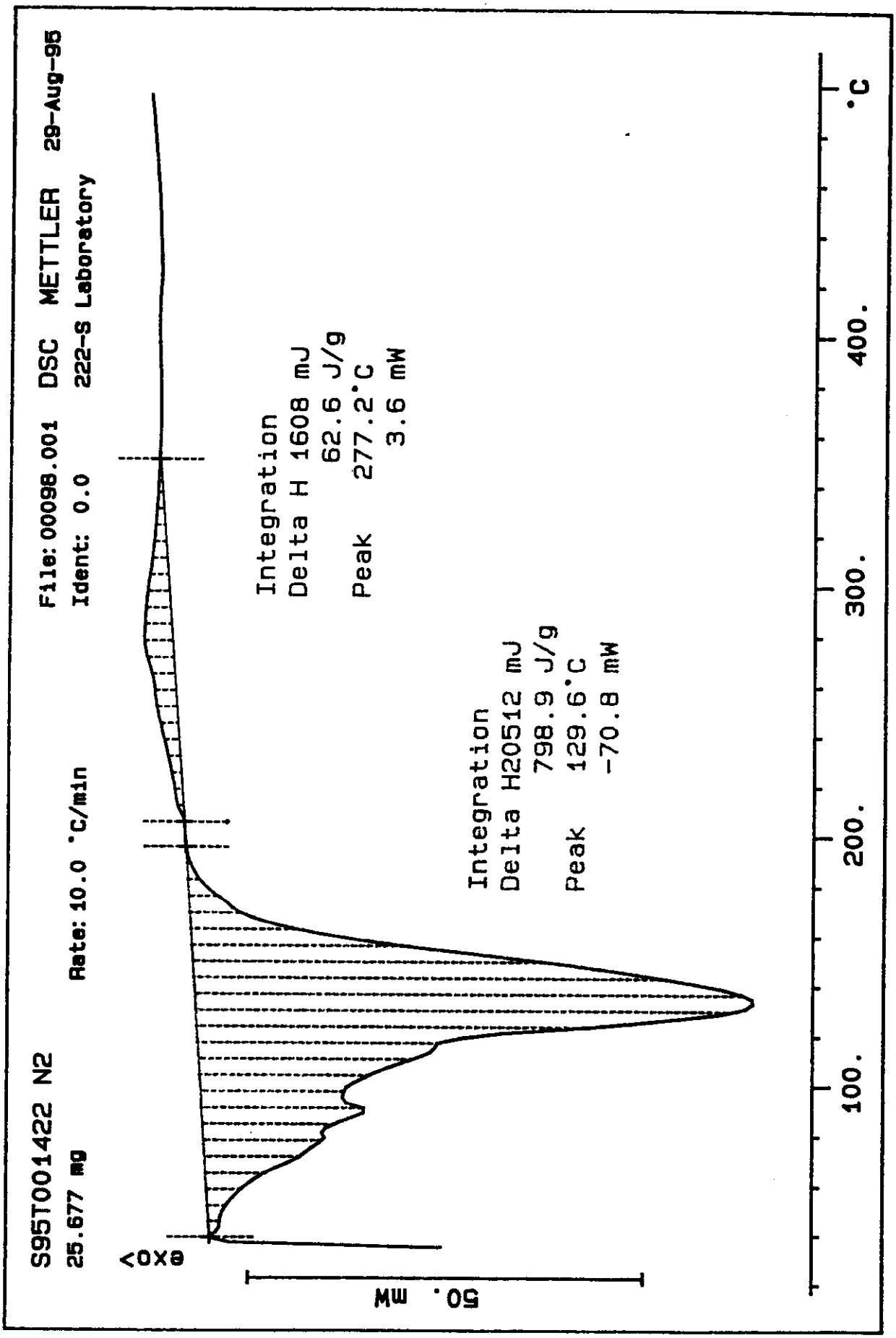
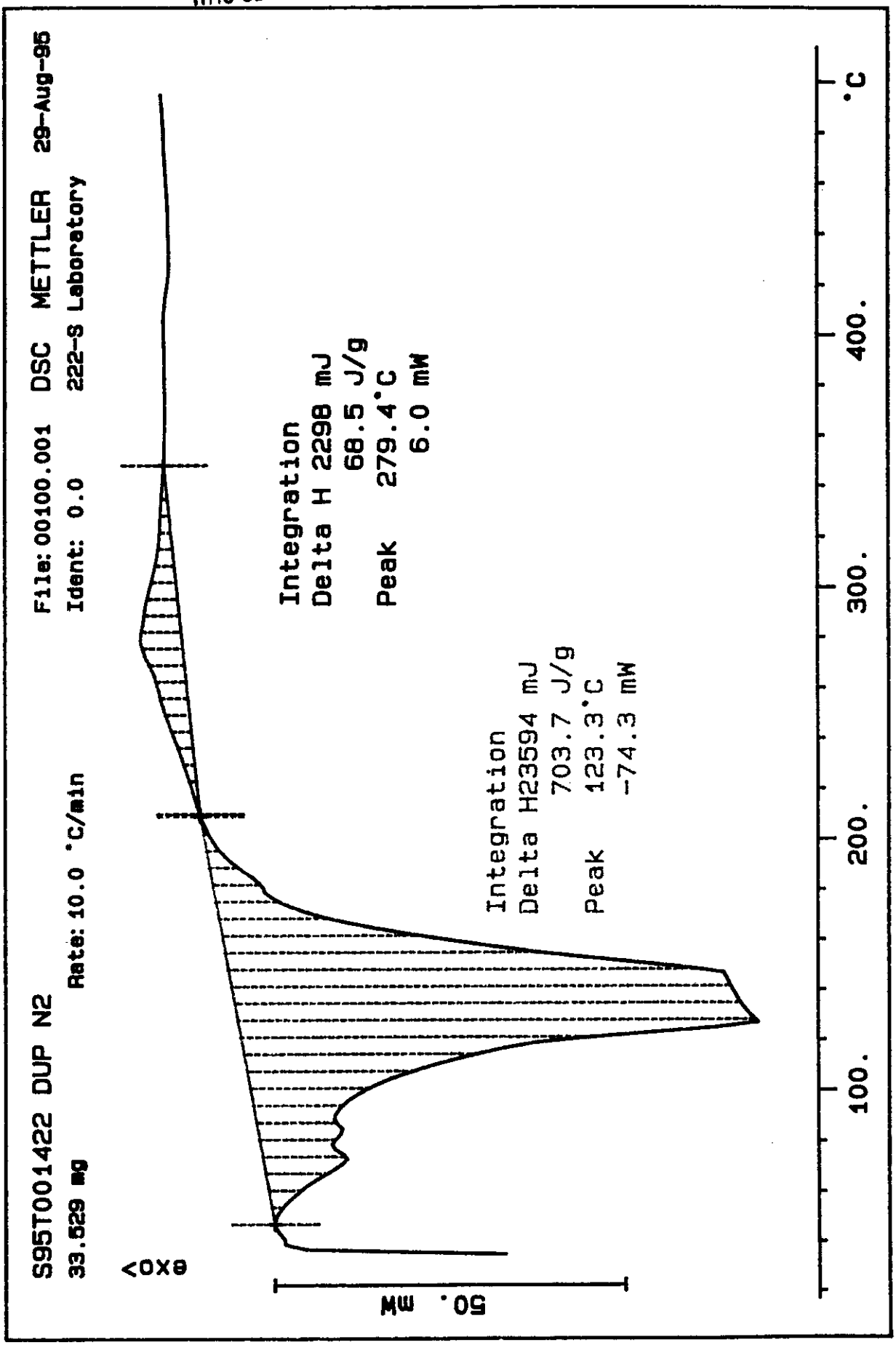


BEST AVAILABLE COPY



worklistrpt Version 2.1 05/15/95
08/29/95 07:10

LABCORE Data Entry Template for Worklist# 2114

Analyst: JDS **Instrument:** DSC0 1 **Book #** 12414

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001431	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	3	DUP	S95T001431	0		DSC-01	SOLID			N/A	Joules/g
95000104	BY-108 (R)	4	SAMPLE	S95T001432	0		DSC-01	SOLID	N/A			Joules/g
95000104	BY-108 (R)	5	DUP	S95T001432	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2114

JDS 6-5-95

Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2114

Analyst: JDS **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	30.3	N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001431	0		DSC-01	SOLID	N/A	180.6		Joules/g
95000104	BY-108 (R)	3	DUP	S95T001431	0		DSC-01	SOLID	180.6	180.5	N/A	Joules/g
		4	STD				DSC-01	SOLID	28.45	29.9	N/A	Joules/g
95000104	BY-108 (R)	5	SAMPLE	S95T001432	0		DSC-01	SOLID	N/A	68.7		Joules/g
95000104	BY-108 (R)	6	DUP	S95T001432	0		DSC-01	SOLID	68.7	70.2	N/A	Joules/g

Final page for worklist # 2114

See attached for Signatures
Analyst Signature Date

Entered + Verified 9/15/95 James Frye

Analyst Signature Date

S95T001431 produced a large endothermic region at 123.3°C with a delta H of 976.5 J/g

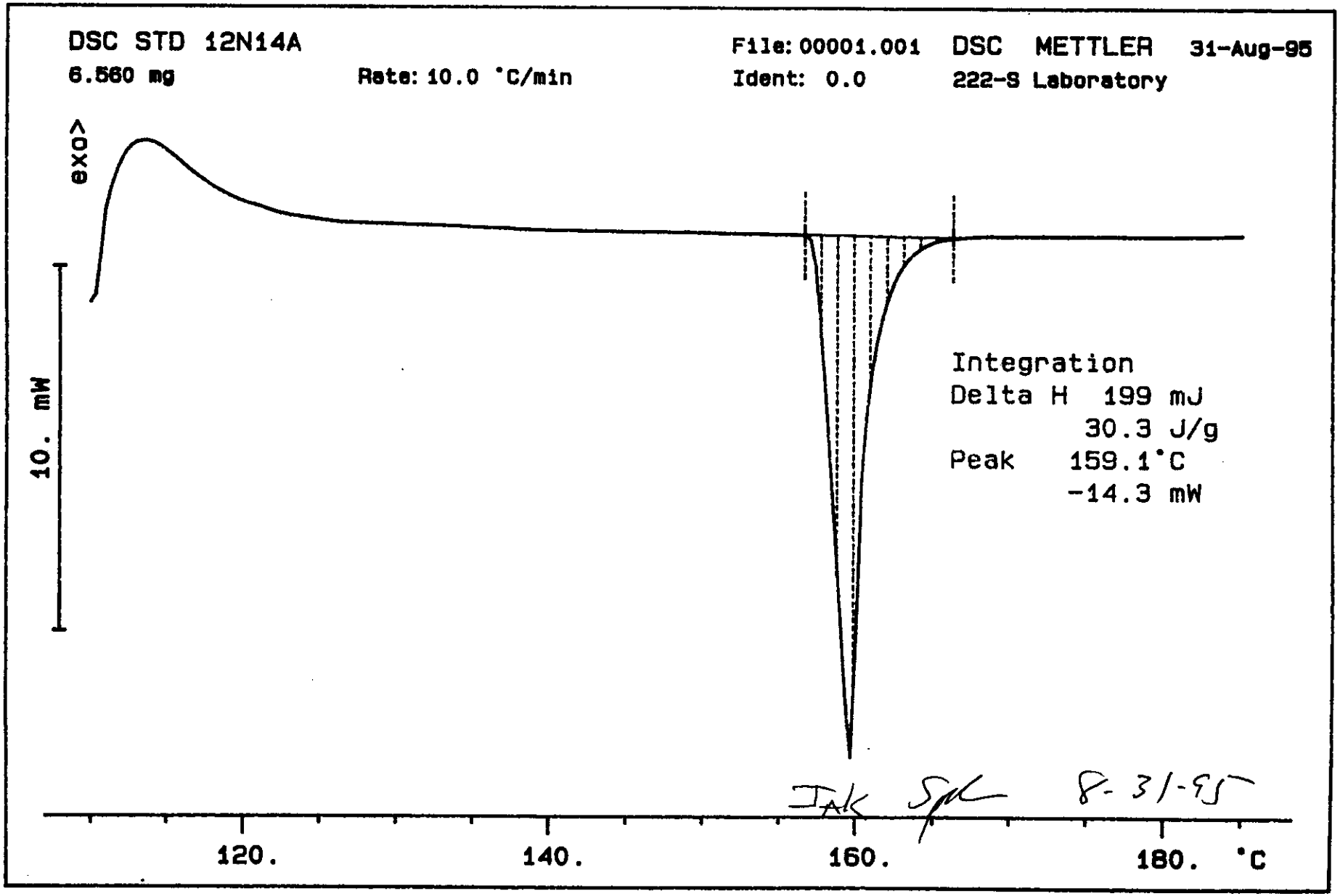
Data Entry Comments: S95T001432 produced a large endothermic region at 119.3°C with a delta H of 943.3 J/g.

JMF 9/15/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-97 TO 2-102.

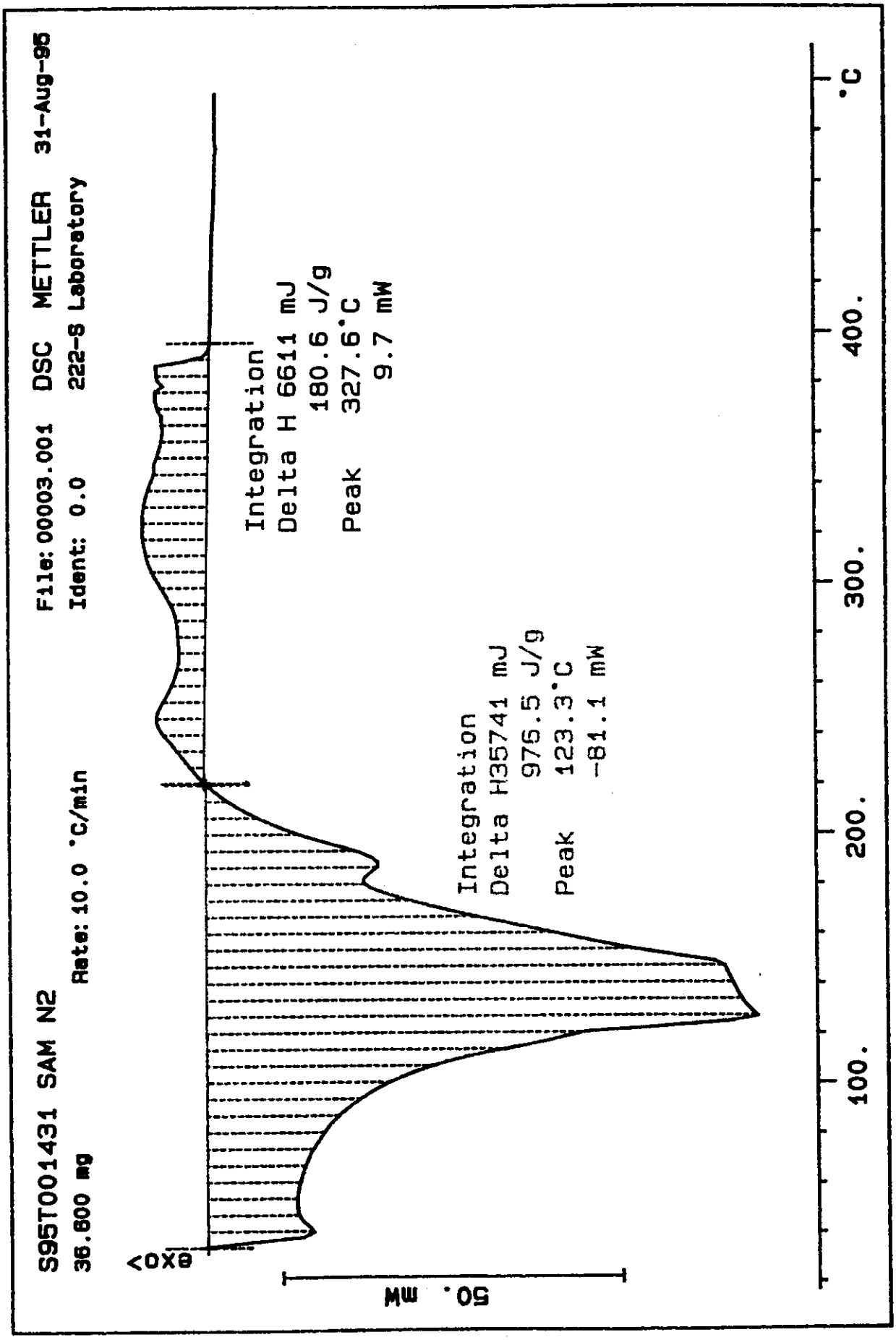
BEST AVAILABLE COPY



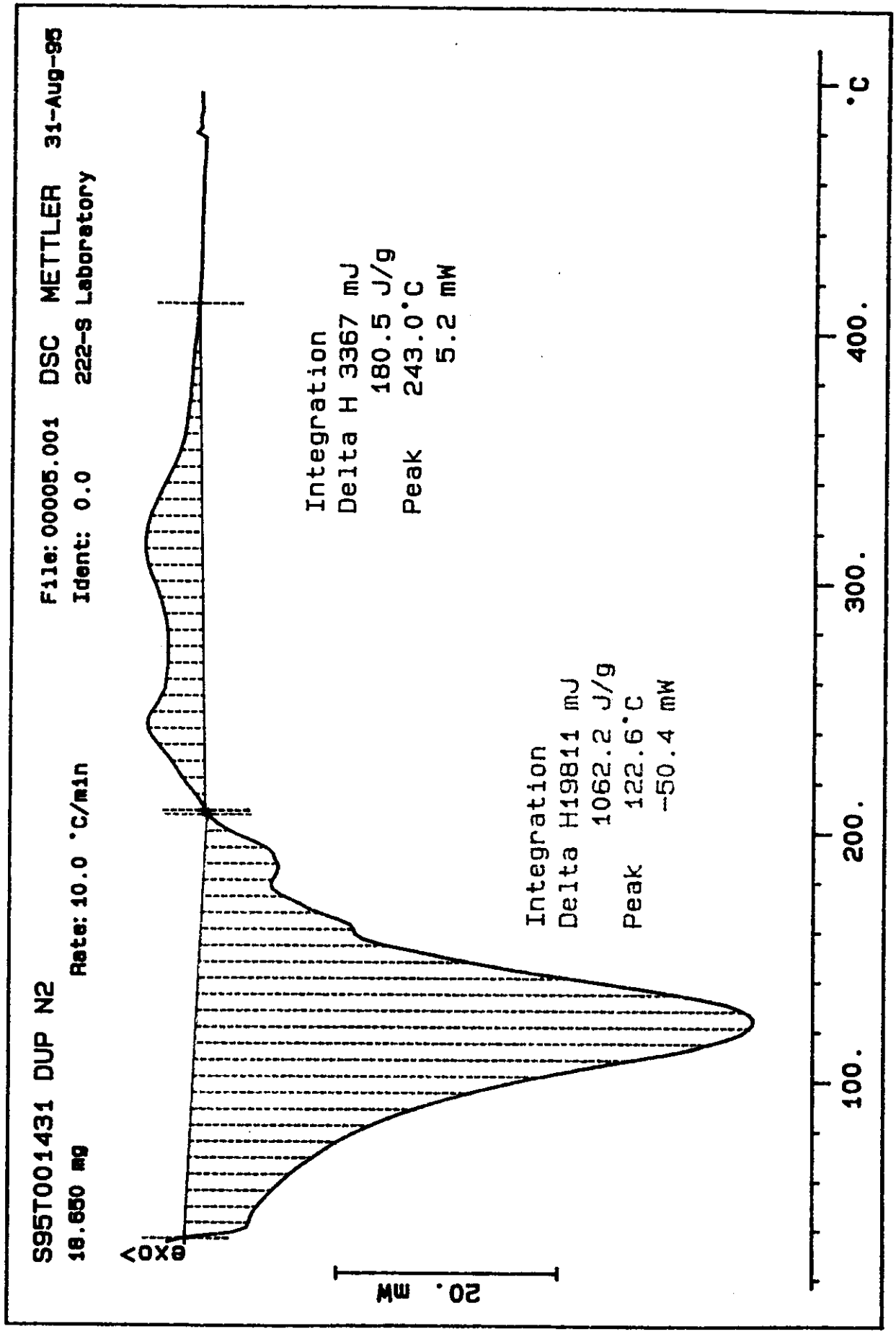
JAK SPK 8-31-95

WHC-SD-WM-DP-165, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



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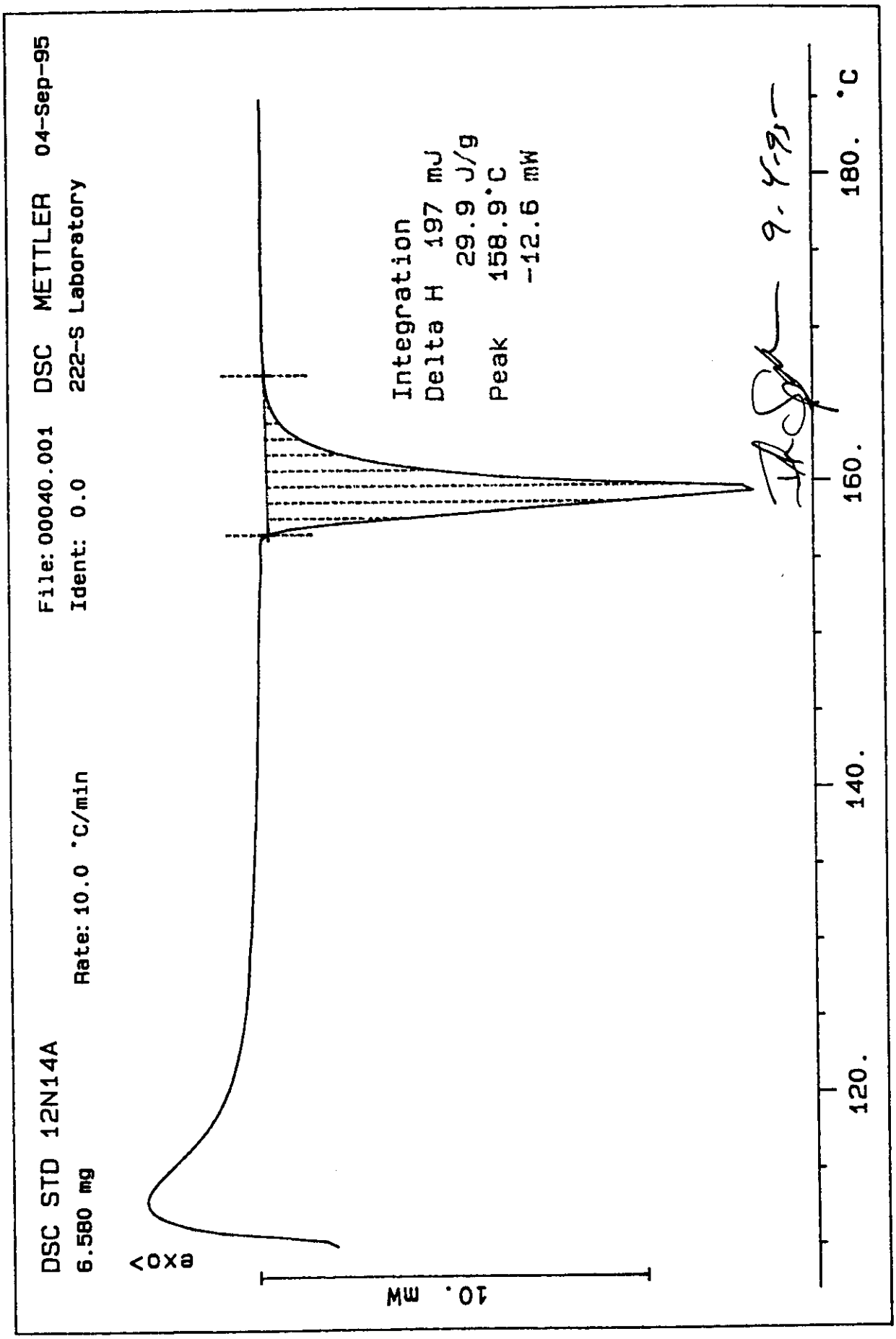

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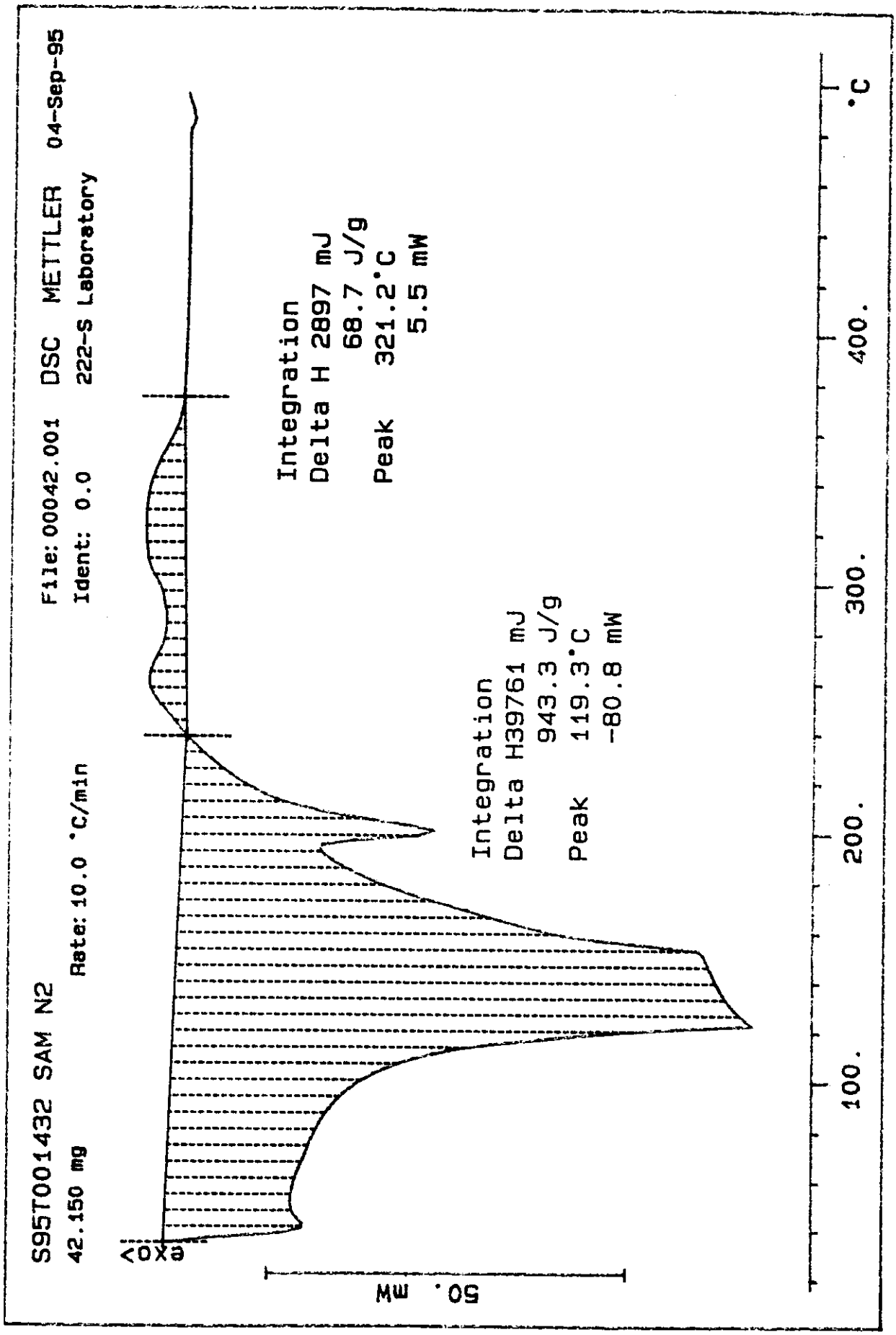

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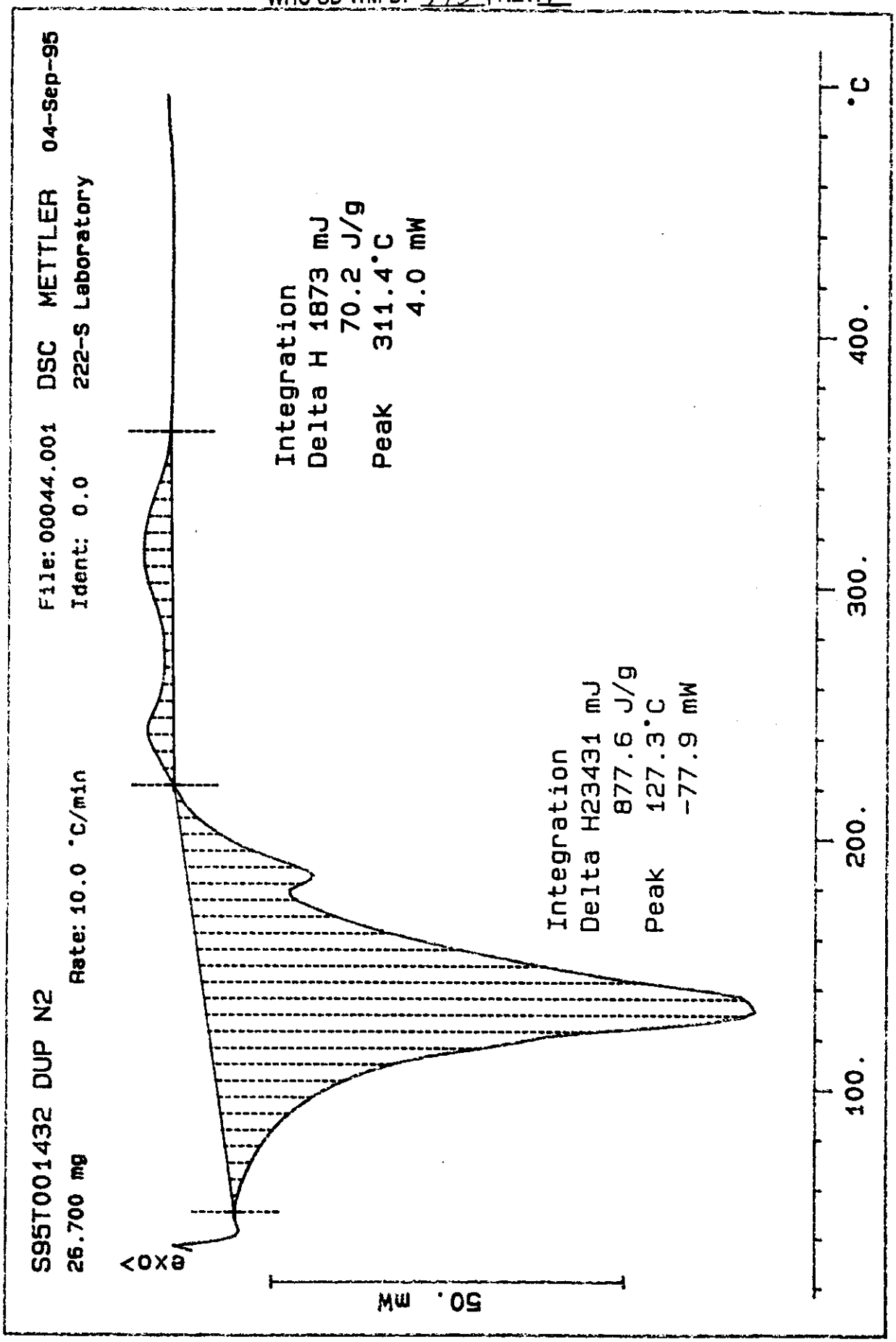


LABCORE Data Entry Template for Worklist# 2115

Analyst: Jds **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod B-1

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	30.4	N/A	Joules/g
95000104	BY-108 (R)	2	SAMPLE	S95T001433	0		DSC-01	SOLID	N/A	149.6		Joules/g
95000104	BY-108 (R)	3	DUP	S95T001433	0		DSC-01	SOLID	149.6	143.5	N/A	Joules/g

Final page for worklist # 2115

[signature] ~~8-13~~ 8-30-95
Analyst Signature Date

[signature] 8/30/95
Analyst Signature Date

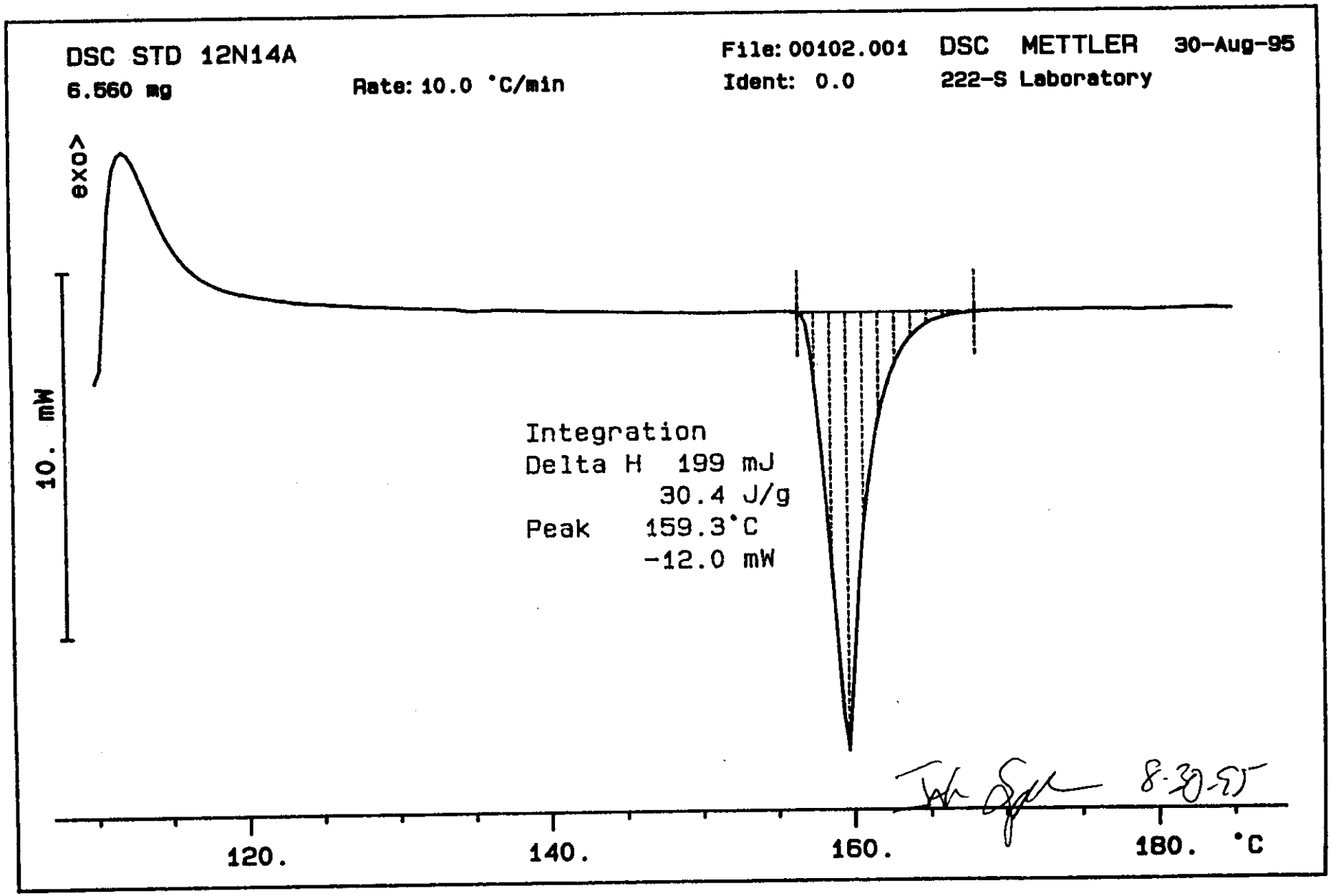
Verified by Blandina Valenzuela
8-31-95

Data Entry Comments: Sample produced one endothermic region at 131.1°C with a delta H of 972.5°C. J/g
8/31/95 BDV

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-104 TO 2-106.

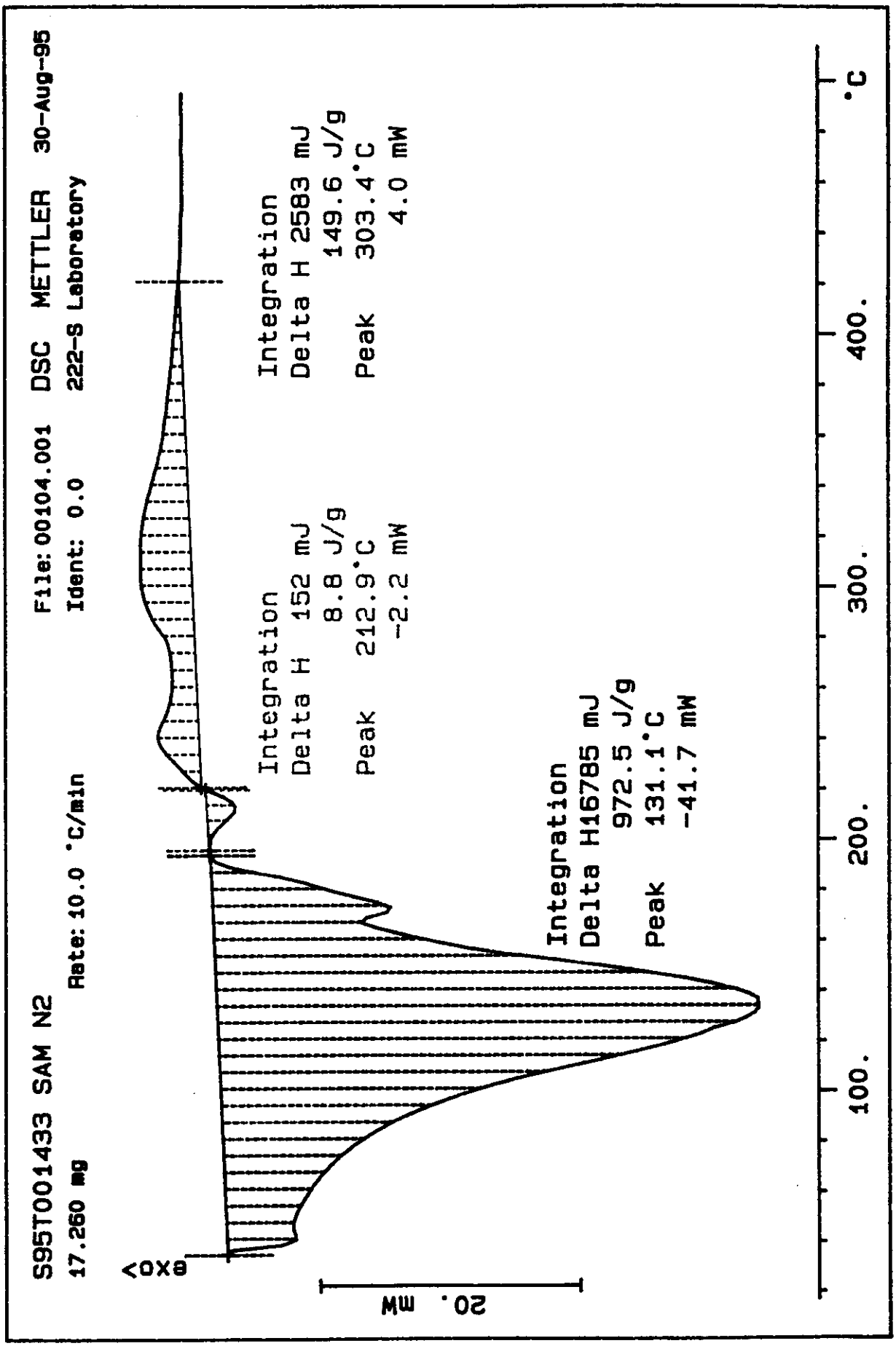
BEST AVAILABLE COPY



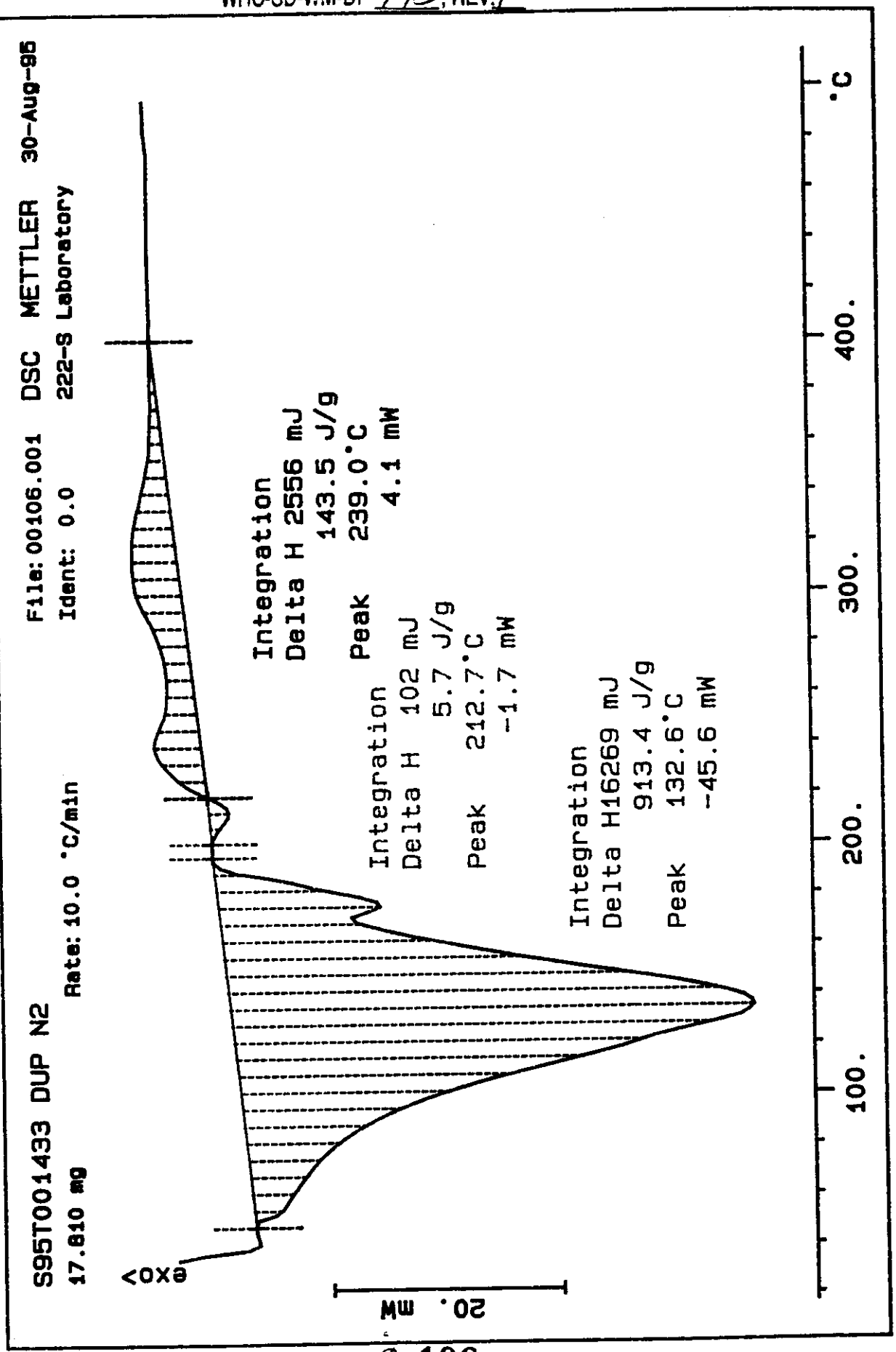
8-30-95

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2142

Analyst: JDS **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	LIQUID	28.45	~~27.3~~ 28.1 BDV 9-12-95	N/A	Joules/g
95000101	BY-108 (R)	2 SAMPLE	S95T001365	0		DSC-01	LIQUID	N/A	Ø		Joules/g
95000101	BY-108 (R)	3 DUP	S95T001365	0		DSC-01	LIQUID	Ø	Ø	N/A	Joules/g
		4 STD				DSC-01	LIQUID	28.45	27.3	N/A	Joules/g
95000104	BY-108 (R)	5 SAMPLE	S95T001430	0		DSC-01	LIQUID	N/A	74.2		Joules/g
95000104	BY-108 (R)	6 DUP	S95T001430	0		DSC-01	LIQUID	74.2	69.6	N/A	Joules/g

Final page for worklist # 2142

See attached for signatures
Analyst Signature Date 9-12-95 BDV

Verified 9/13/95. JM. Fuyo

Analyst Signature Date 9-13-95

S95T001365 produced one endotherm at 99.3°C with a delta H of 1295.1 J/g.

Data Entry Comments: S95T001430 produced one endotherm at 127.3°C with a delta H of 1366.0 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2142

Analyst: SDS **Instrument:** DSC0 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	LIQUID			N/A	Joules/g
95000101	BY-108 (R)	2	SAMPLE	S95T001365	0		DSC-01	LIQUID	N/A			Joules/g
95000101	BY-108 (R)	3	DUP	S95T001365	0		DSC-01	LIQUID			N/A	Joules/g
95000104	BY-108 (R)	4	SAMPLE	S95T001430	0		DSC-01	LIQUID	N/A			Joules/g
95000104	BY-108 (R)	5	DUP	S95T001430	0		DSC-01	LIQUID			N/A	Joules/g

Final page for worklist # 2142

Analyst Signature 9-8-95 Date

Analyst Signature Date

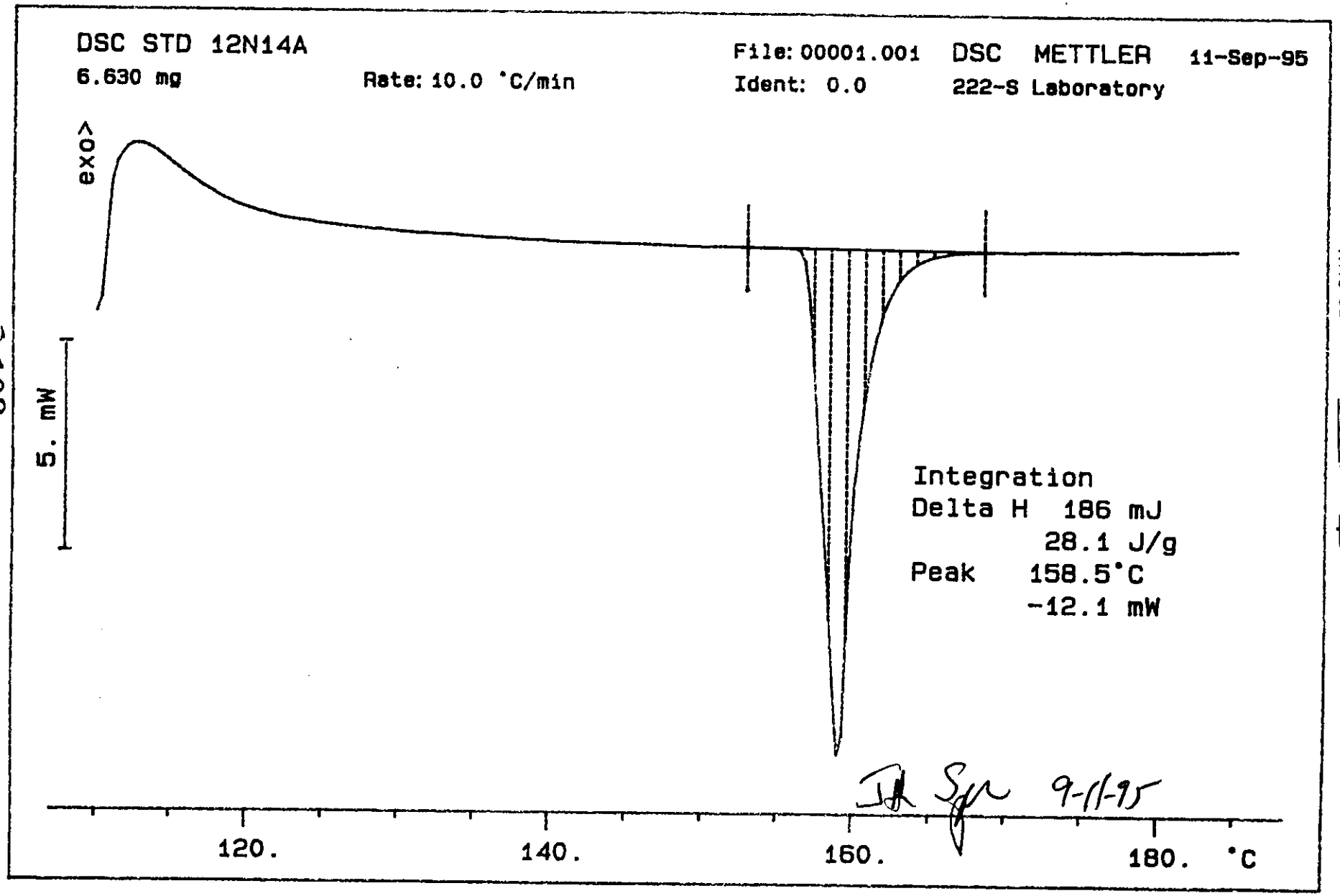
Data Entry Comments: Sample S95T001365 has not been released from the Hot Cells yet. JS 9-8-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

J-108

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2109 TO 2114.

BEST AVAILABLE COPY

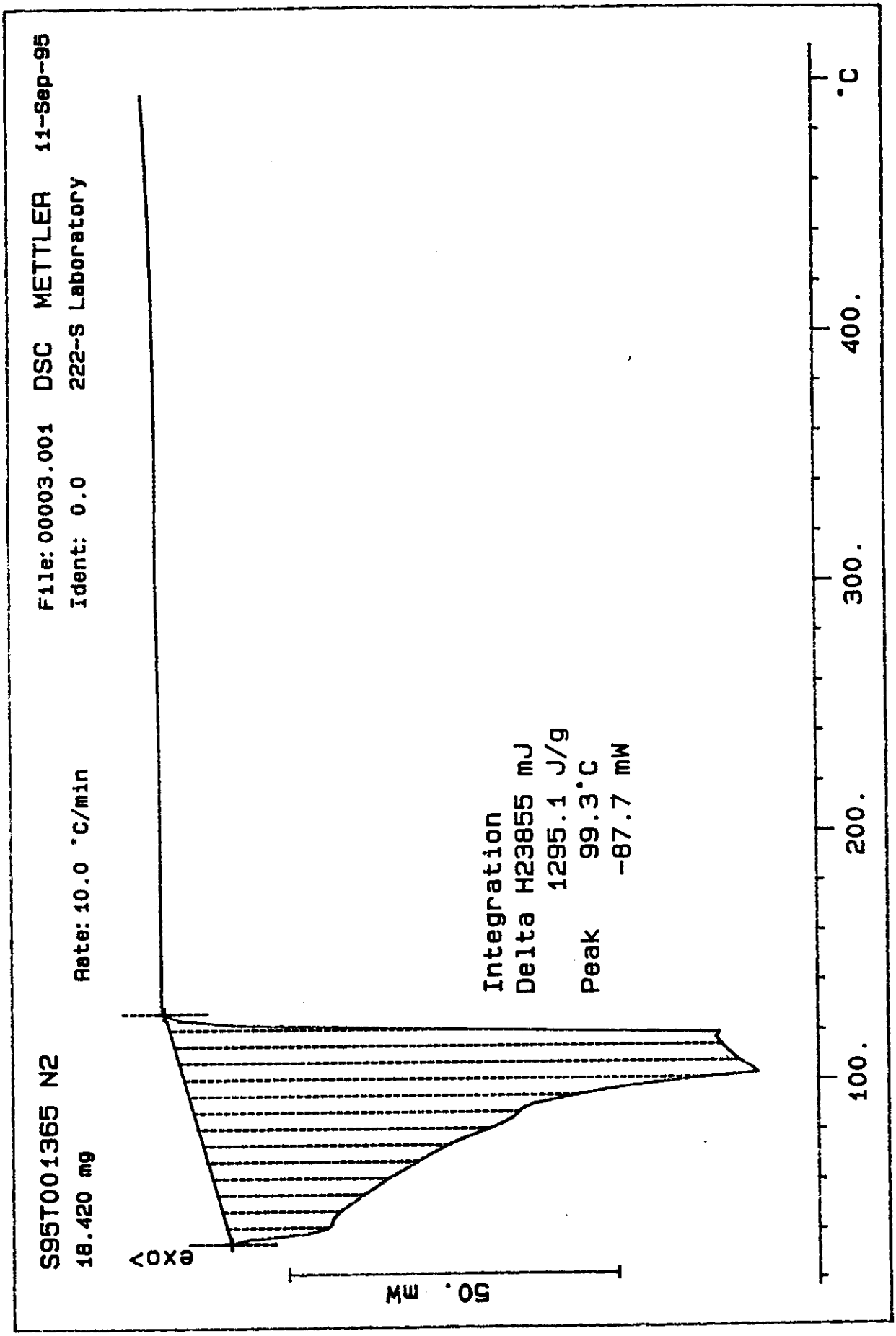


9-11-95

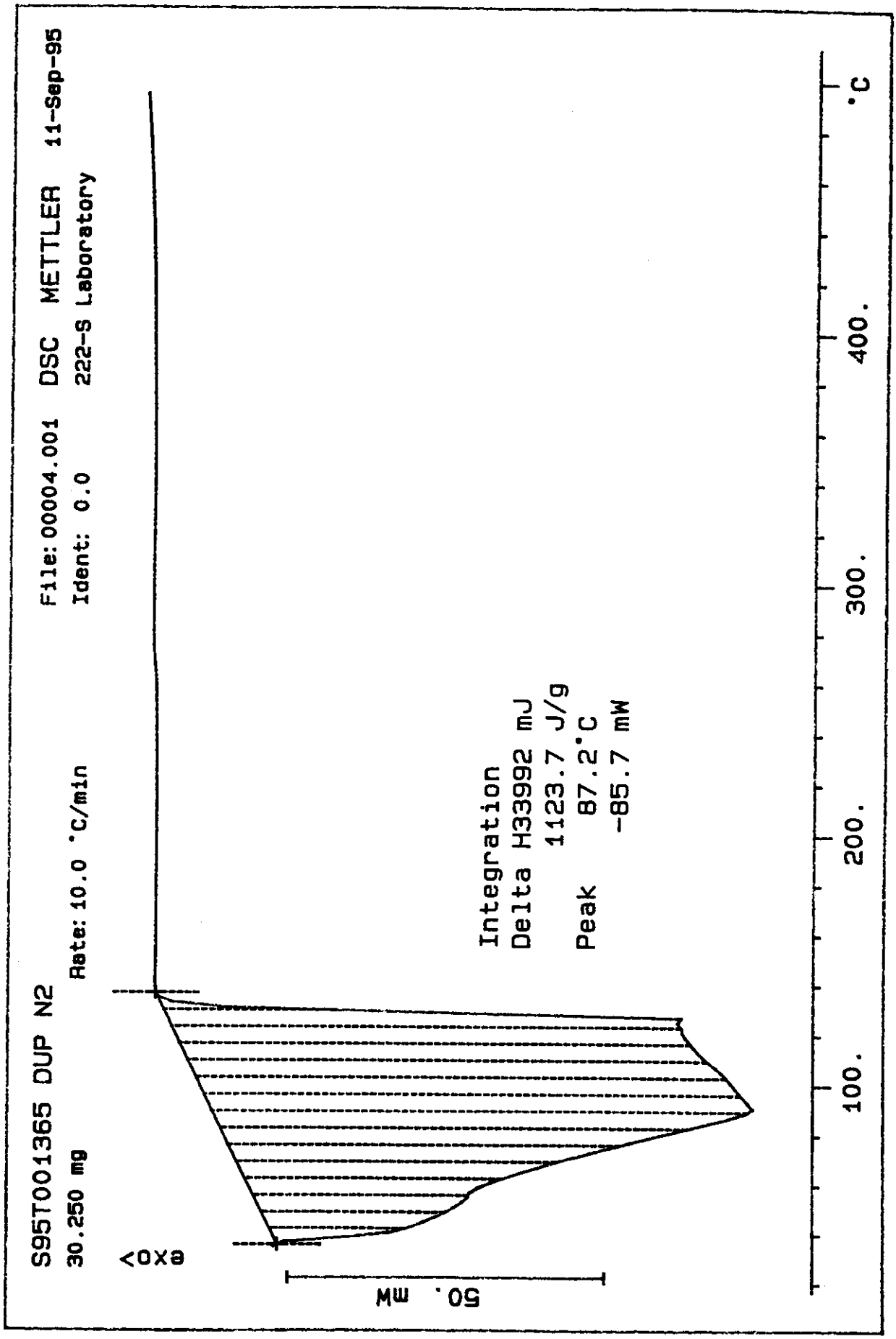
2-109

WHC-SD-WM-DP-145, REV 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



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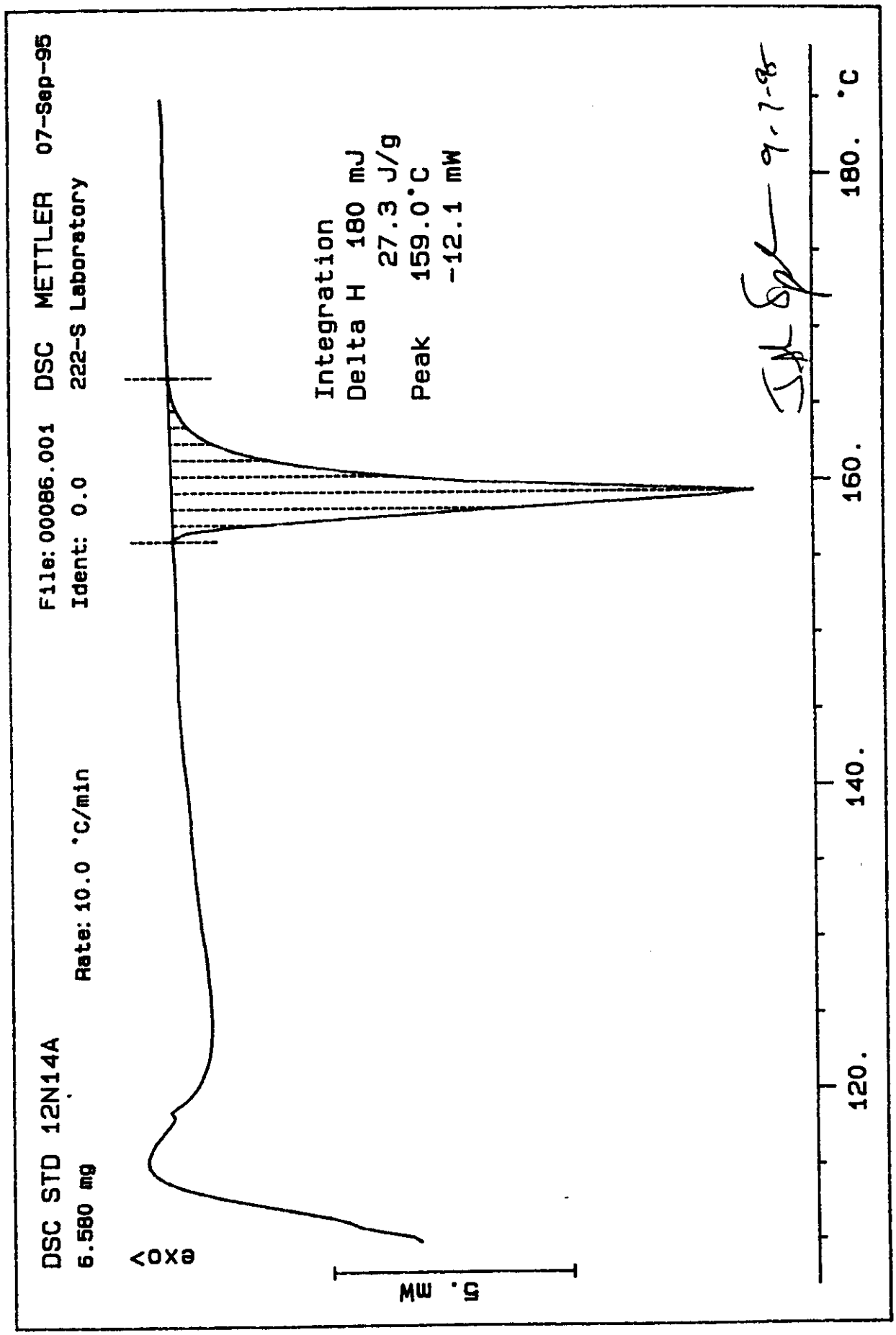
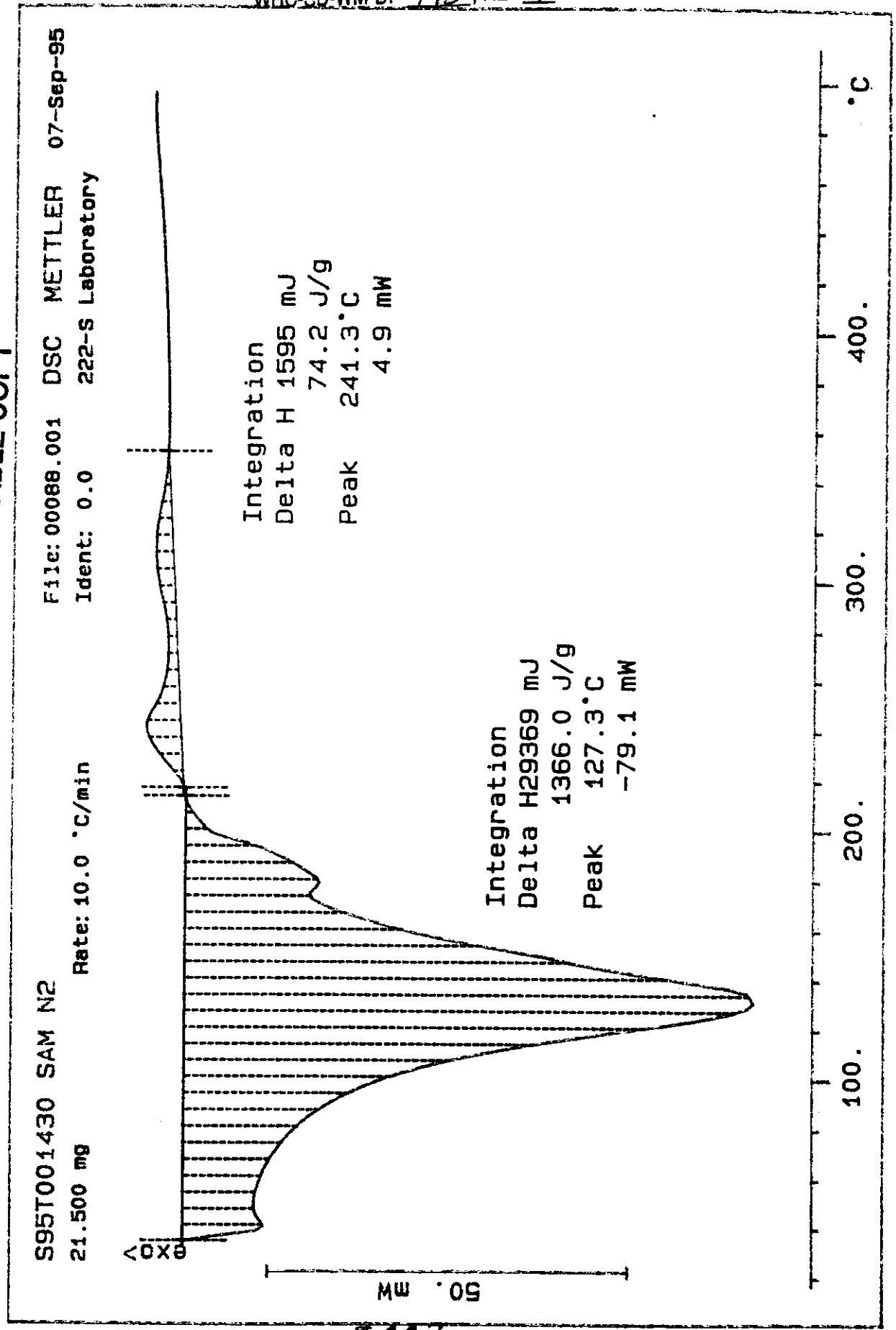
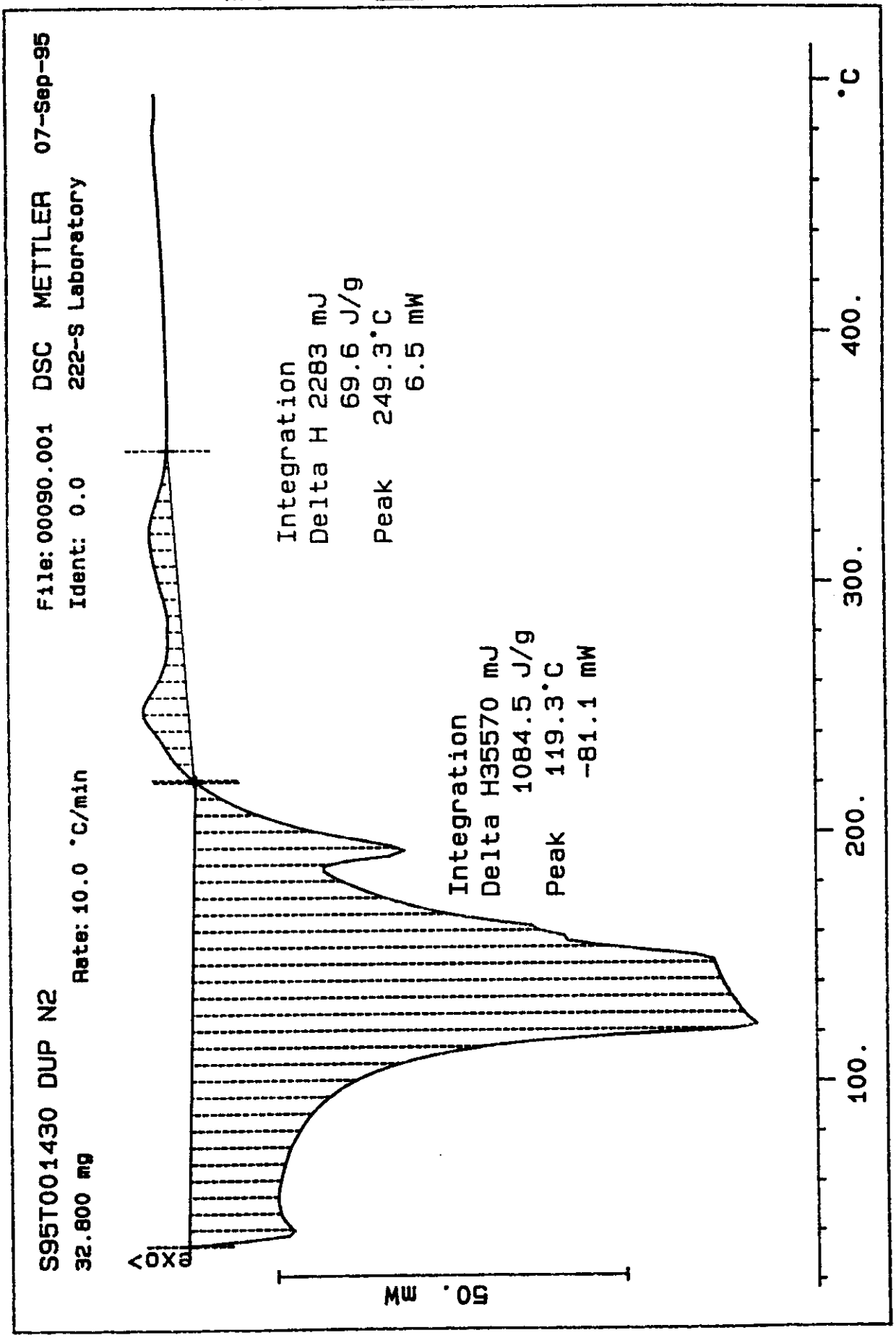


BEST AVAILABLE COPY



BEST AVAILABLE COPY



WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2273

Analyst: SMF **Instrument:** DSC01 3 9-11-95 BDV **Book #** 12N 14A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: BY-108 DSC, please run under N2. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	27.82	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001925	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001925	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2273

See attached for Signatures
Analyst Signature **Date** 9-11-95 BDV

Analyst Signature 9-14-95 **Date**

Verified 9/14/95. Jan M. Leye

Data Entry Comments: Sample produced three endothermic regions; one at 122.2°C with a delta H of 648.4 J/g, second at 284.2°C with a delta H of 7.2 J/g, and third at 319.7°C with a delta H of 65.2 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2273

Analyst: SMF **Instrument:** DSC01 _____ **Book #** 12 N14A

Method: ~~LA 514-113 Rev/Mod~~ LA-514-114 IC-0
SMF 9-8-95

Worklist Comment: BY-108 DSC, please run under N2. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	_____	_____	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001925	0		DSC-01	SOLID	N/A	_____	_____	Joules/g
95000118	BY-108 (R)	3 DUP	S95T001925	0		DSC-01	SOLID	_____	_____	N/A	Joules/g

Final page for worklist # 2273

SM Fulton 9-8-95
Analyst Signature Date

_____
Analyst Signature Date

Other instruments were used
9-11-95
BDV

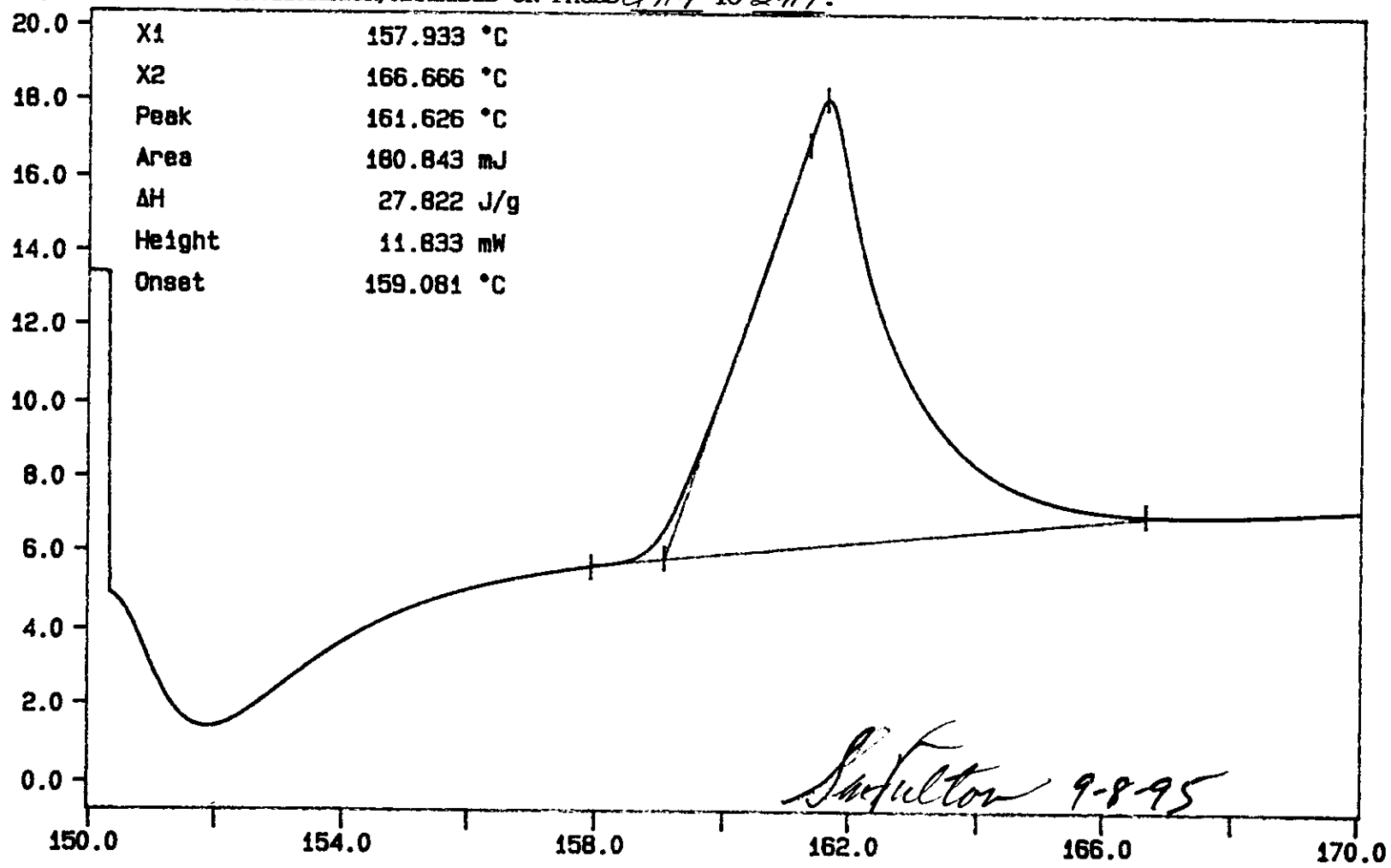
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND090801 Fri Sep 8 00:23:54 1995
Sample Weight: 6.500 mg
12N14A Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2117 TO 2119.

BEST AVAILABLE COPY



S. Fulton 9-8-95

N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

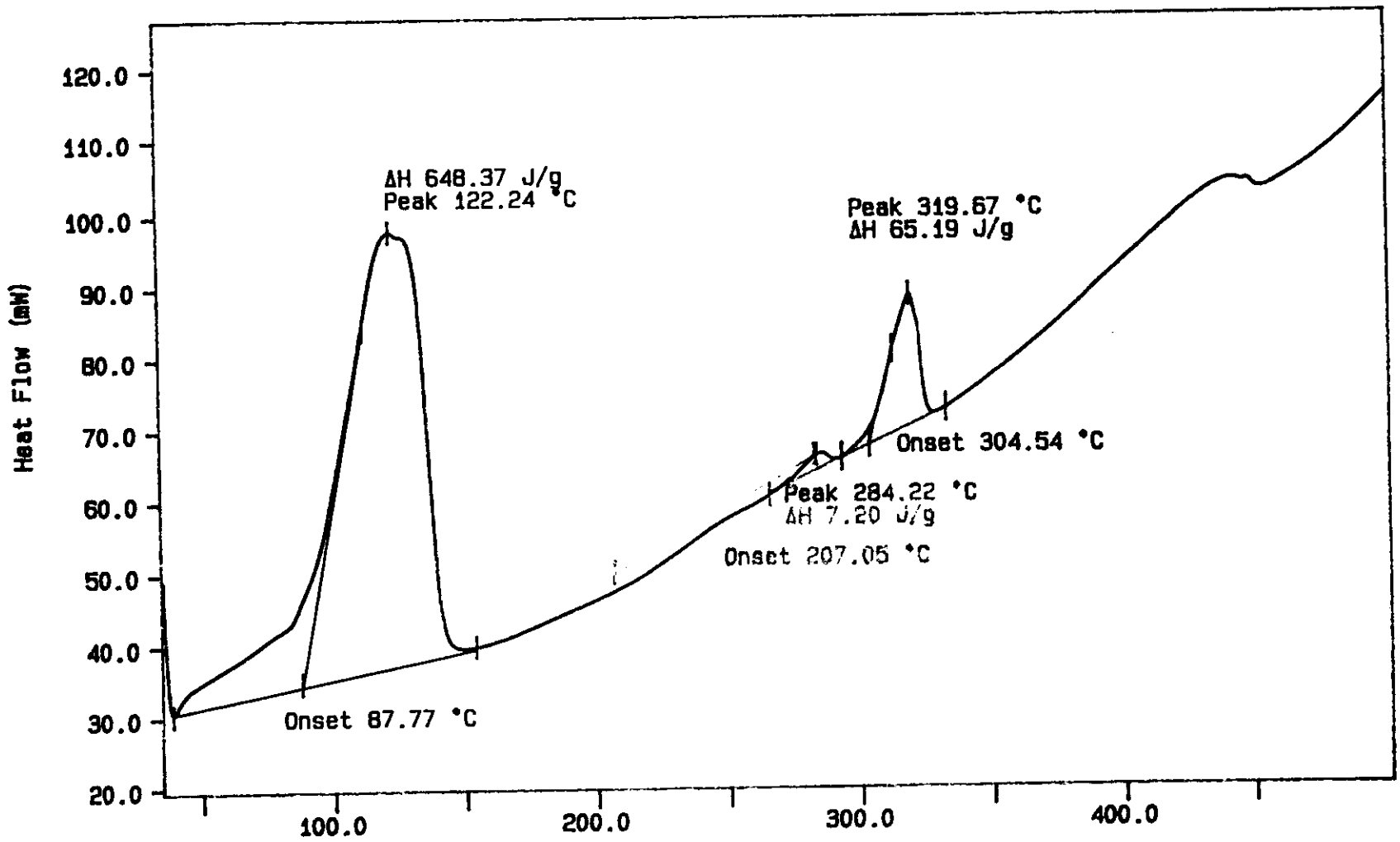
SM FULTON
PERKIN ELMER
222-S Lab
Fri Sep 8 03:28:32 1995

2-117

WHC-SD-WM-DP-142, REV. 1

Curve 1: DSC
File info: SAM090802 Fri Sep 8 04:03:19 1995
Sample Weight: 21.690 mg
S95T001925 at 10C/min

BEST AVAILABLE COPY



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

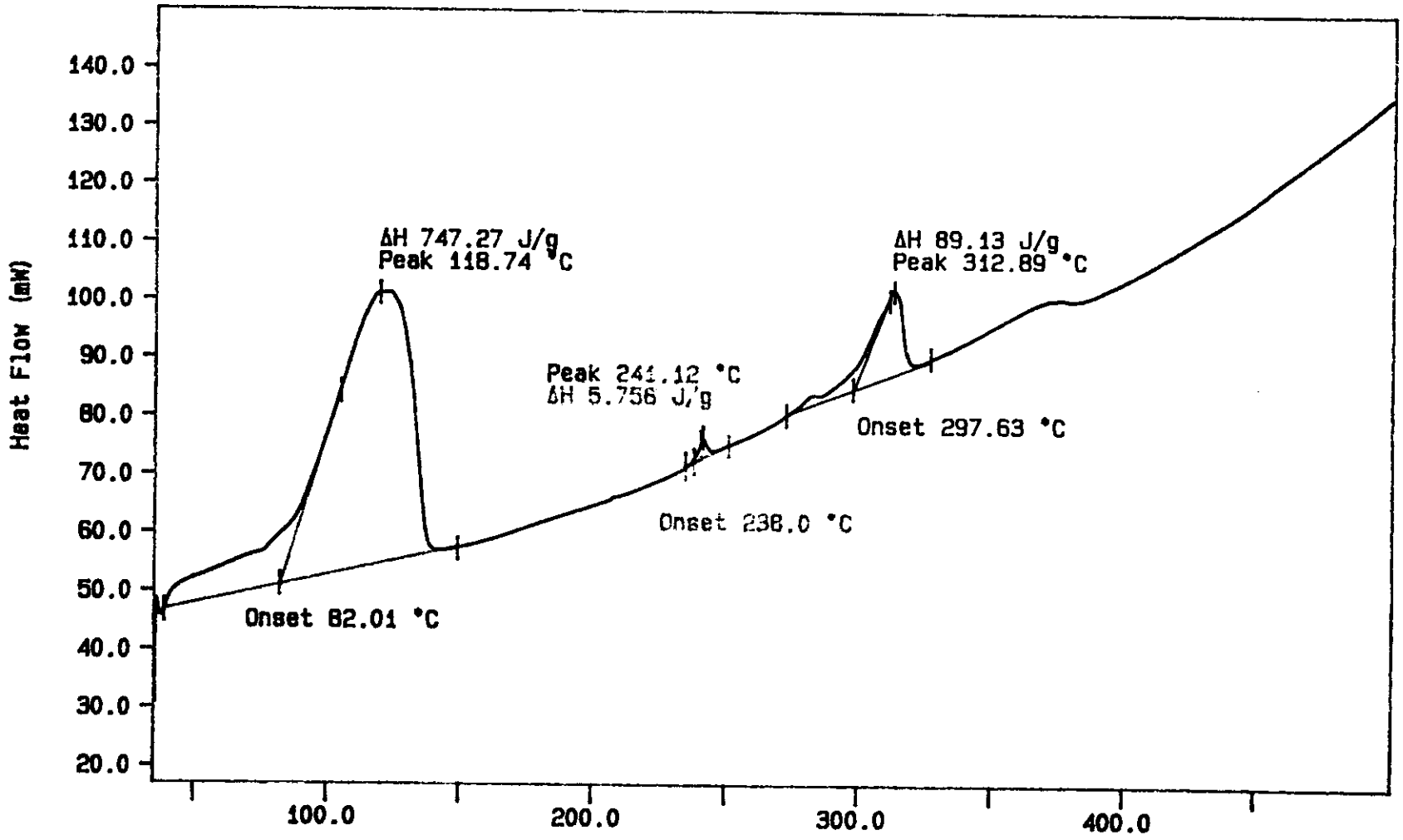
SM FULTON
PERKIN ELMER
222-S Lab
Fri Sep 8 05:25:06 1995

Q-118

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM0908003 Fri Sep 8 06:19:42 1995
Sample Weight: 14.760 mg
S95T001925 DUP at 10C/min

BEST AVAILABLE COPY



exotherm down, N2 purge gas

Temperature (°C)

TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 600.0 C

SM FULTON
PERKIN ELMER
222-S Lab
Fri Sep 8 06:32:16 1995

2-119

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2317

Analyst: RS **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	30.4	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001966	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001966	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001967	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	5 DUP	S95T001967	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2317

Rae Ann Green 9-29-95
Analyst Signature **Date**

Dany Hammett 10-5-95
Analyst Signature **Date**

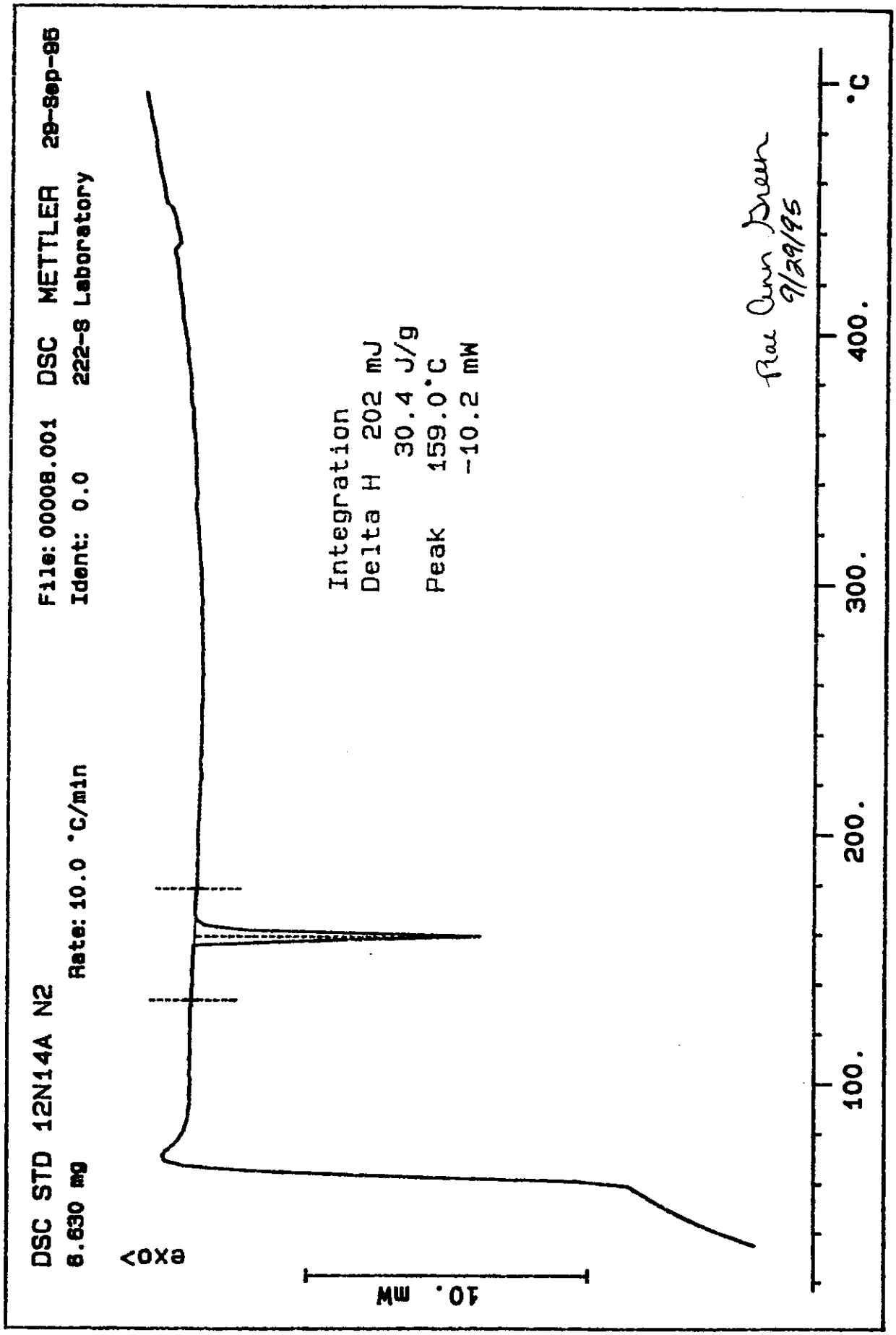
Verified by Blandina Valenzuela 10-5-95

S95T001966 produced two endotherms, one at 135.9°C with a delta H of 470.5 J/g and second at 274°with a delta H of 44.2 J/g.

Data Entry Comments: S95T001967 produced two endotherms, one at ~~108.0~~ BDV 10-2-95 108.0°C with a delta H of 596.0 J/g and second at 308.8°C with a delta H of 62.7 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BEST AVAILABLE COPY



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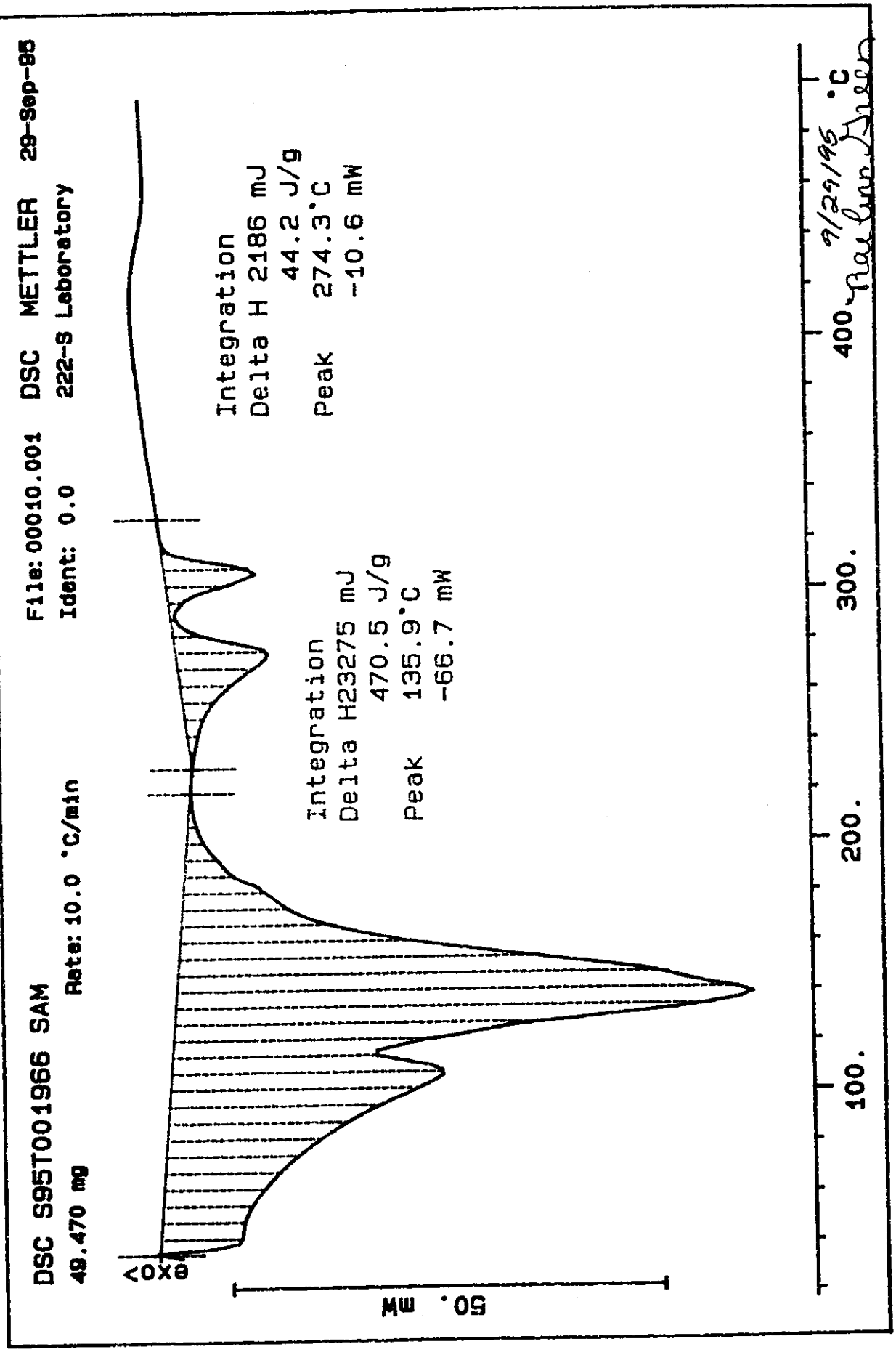
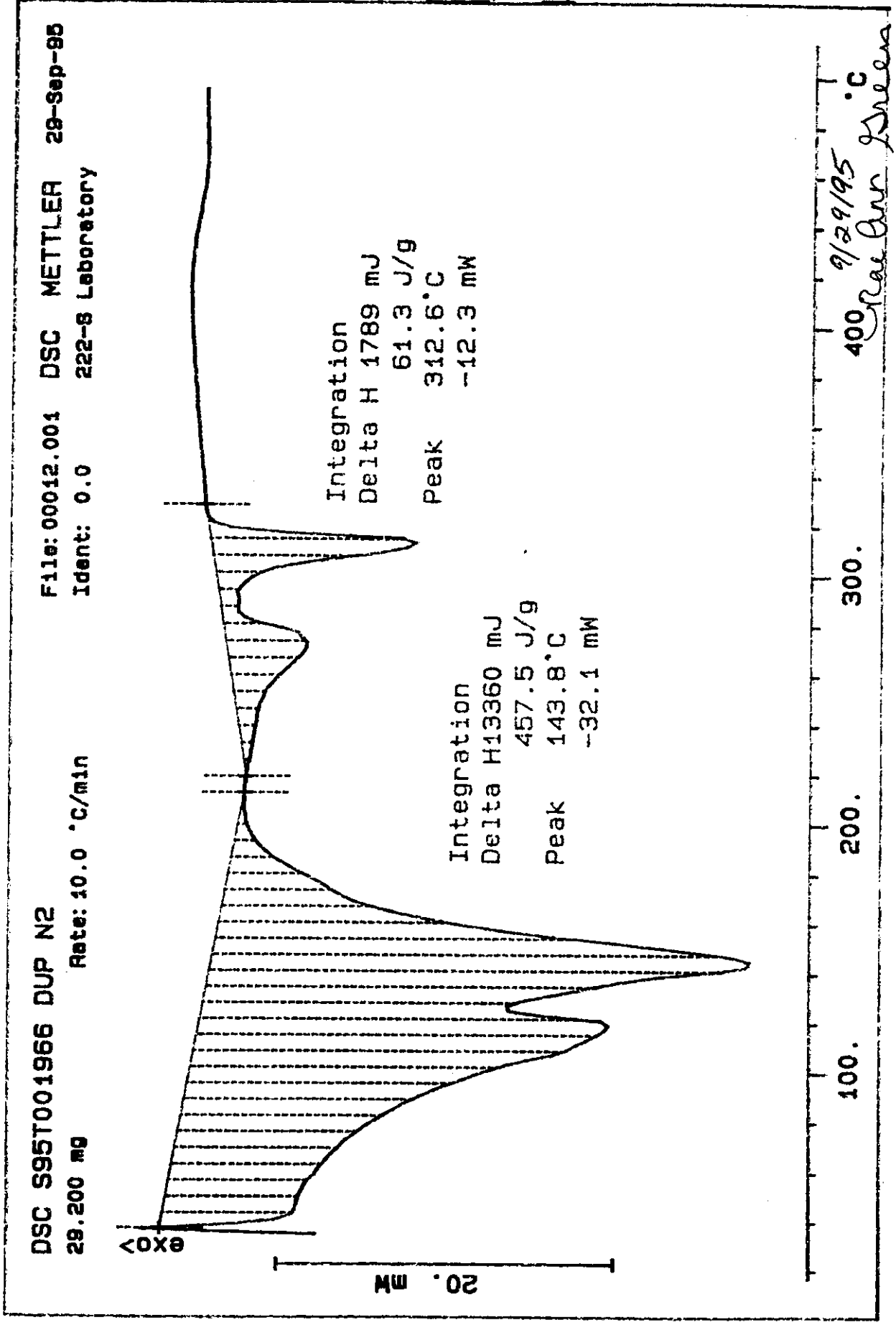
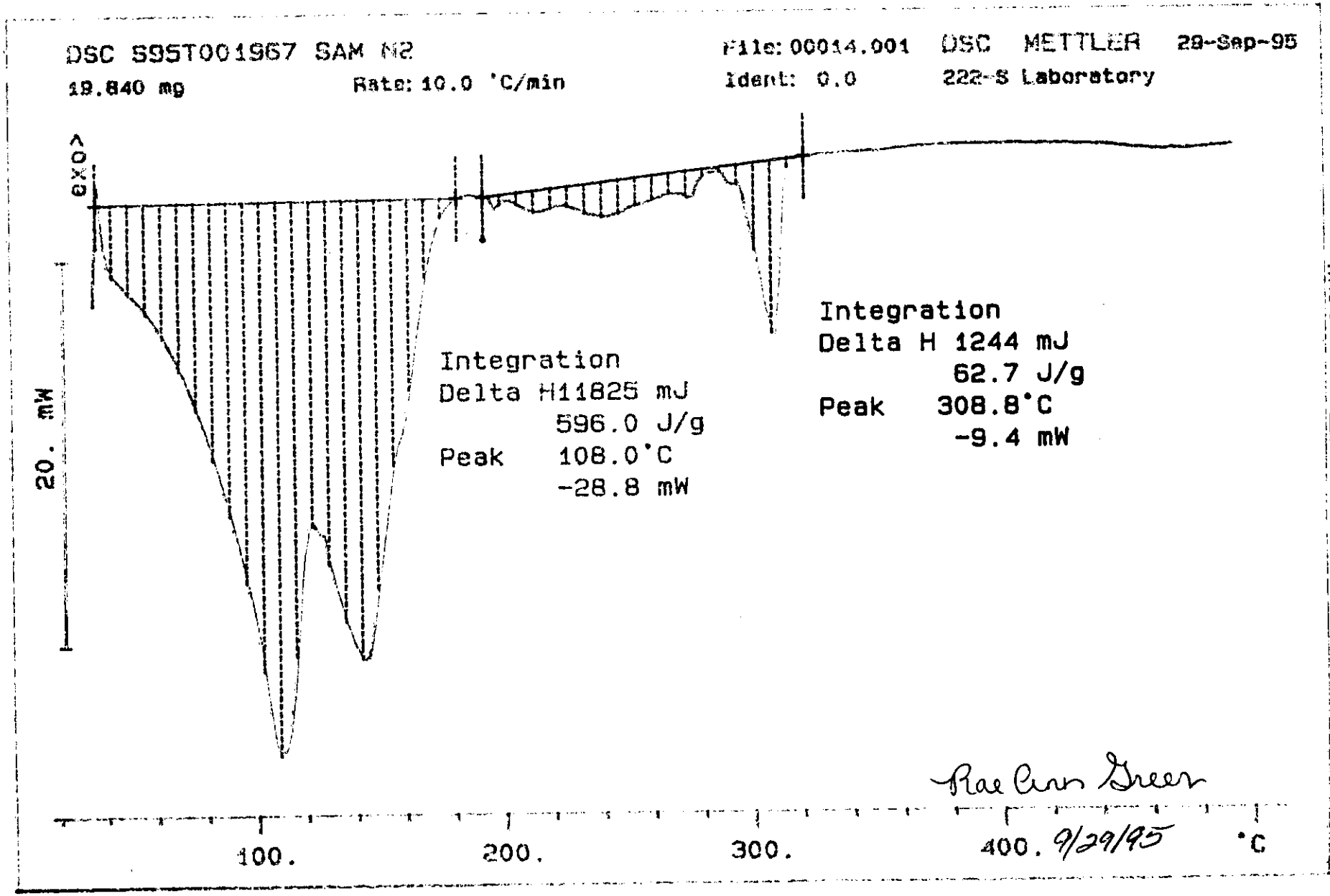


BEST AVAILABLE COPY



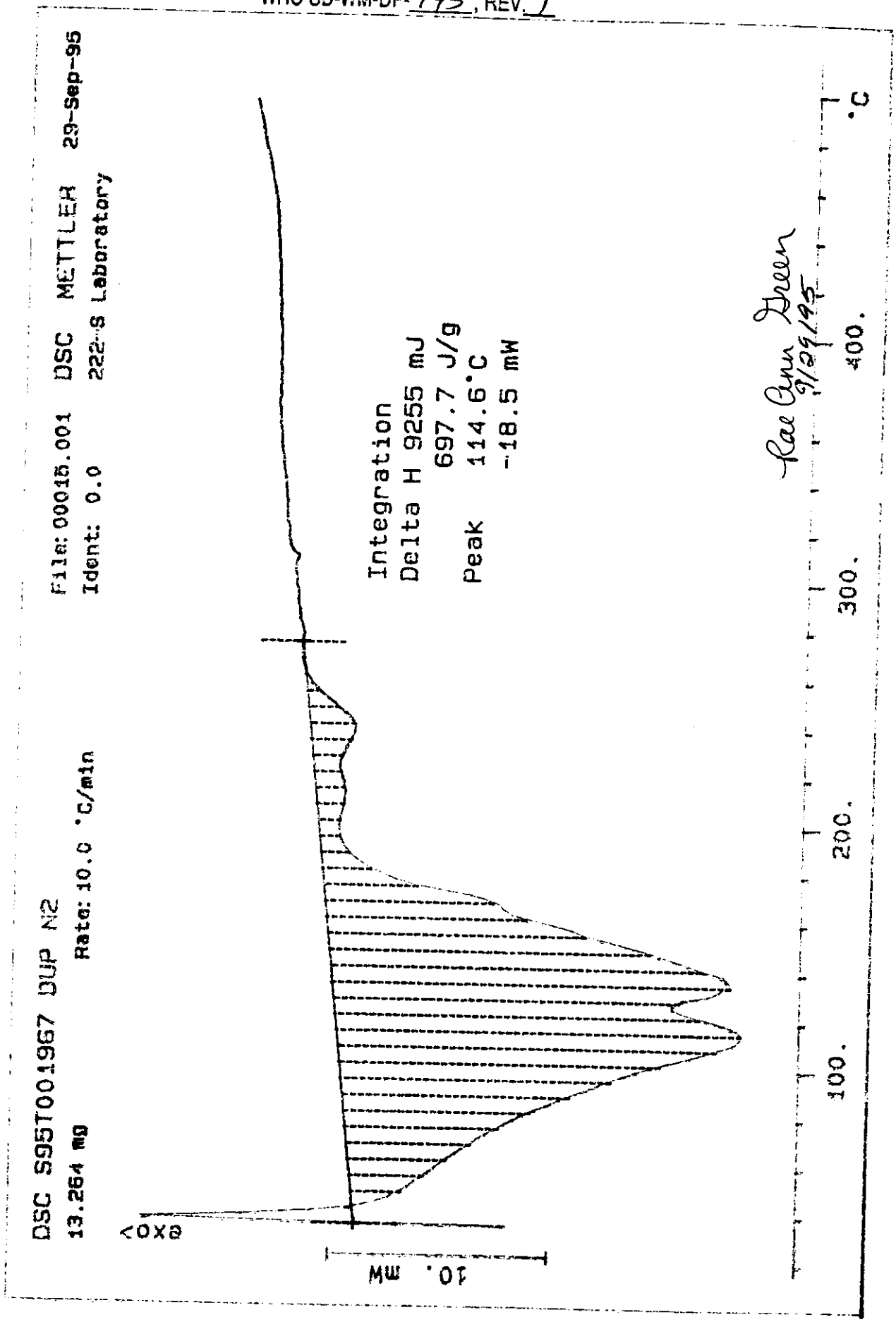
BEST AVAILABLE COPY



Rae Ann Greer 9/29/95

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2318

Analyst: PJM **Instrument:** DSC0 3 **Book #** 12N14A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	28.24	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001968	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001968	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		4 STD				DSC-03	SOLID	28.45	28.21	N/A	Joules/g
95000118	BY-108 (R)	5 SAMPLE	S95T001969	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	6 DUP	S95T001969	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2318

See attached for signatures
Analyst Signature Date

Analyst Signature 10-5-95
Analyst Signature Date

Verified by Blandina Valenzuela (10-5-95)

S95T001968 produced two endotherms: one at 110.54°C with a delta H of 741.5 J/g and second at 219.3°C with a delta H 15.1 J/g.

Data Entry Comments: S95T001969 produced one endotherm at 134.8 °C with a delta H of 812.2 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2318

Analyst: BF McCown 114 **Instrument:** DSC0 _____ **Book #** 12N14A

Method: LA-514-~~115~~ Rev/Mod C-0
Rev 9/30/95

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	2	SAMPLE	S95T001968	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	3	DUP	S95T001968	0		DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	4	SAMPLE	S95T001969	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	5	DUP	S95T001969	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2318

BF McCown 9/30/95
Analyst Signature **Date**

Analyst Signature **Date**

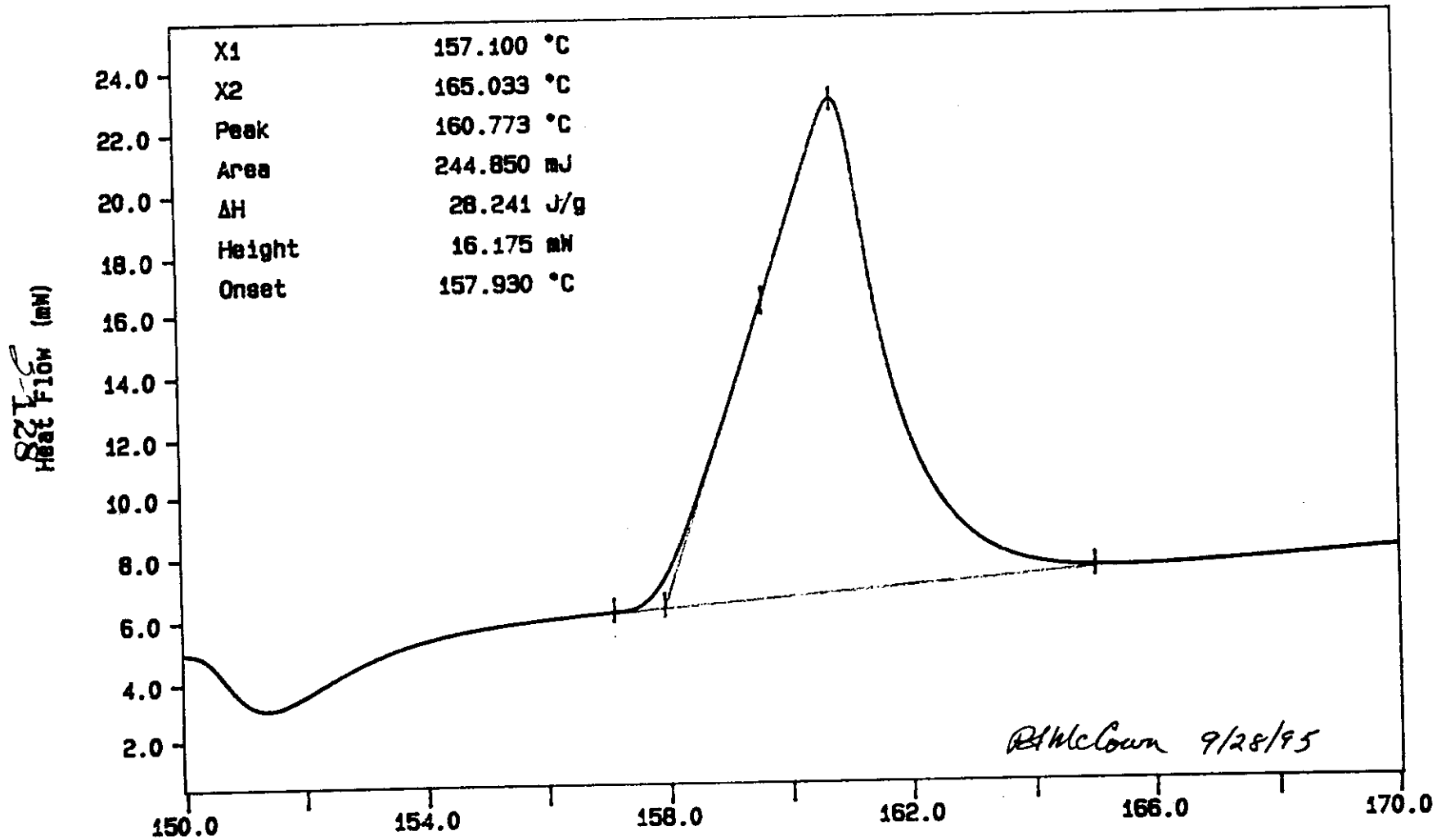
Other instrument was used.
10-5-95
BDV

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND092802 Thu Sep 28 16:37:00 1995
Sample Weight: 8.670 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY



N2, EXOTHERM DOWN
TEMP1: 100.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

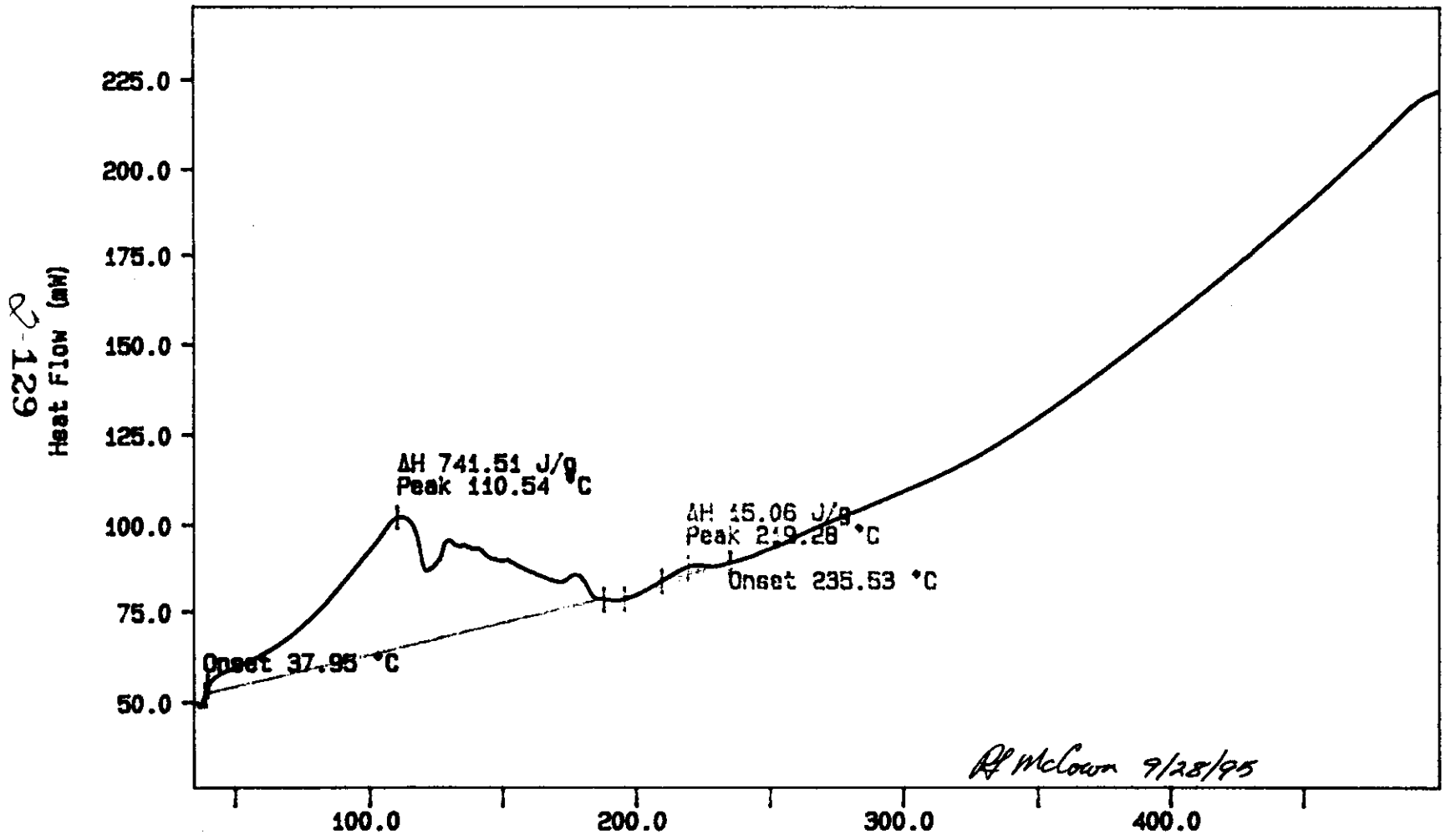
PJ MCCOWN
PERKIN ELMER
222-S Lab
Thu Sep 28 16:42:20 1995

WHC-SD-WM-DP-145, REV. 1

3-128

Curve 1: DSC
File info: SAM092808 Thu Sep 28 19:40:00 1995
Sample Weight: 19.760 mg
~~696T001831~~ RLM 9/28/95
595T001968

BEST AVAILABLE COPY

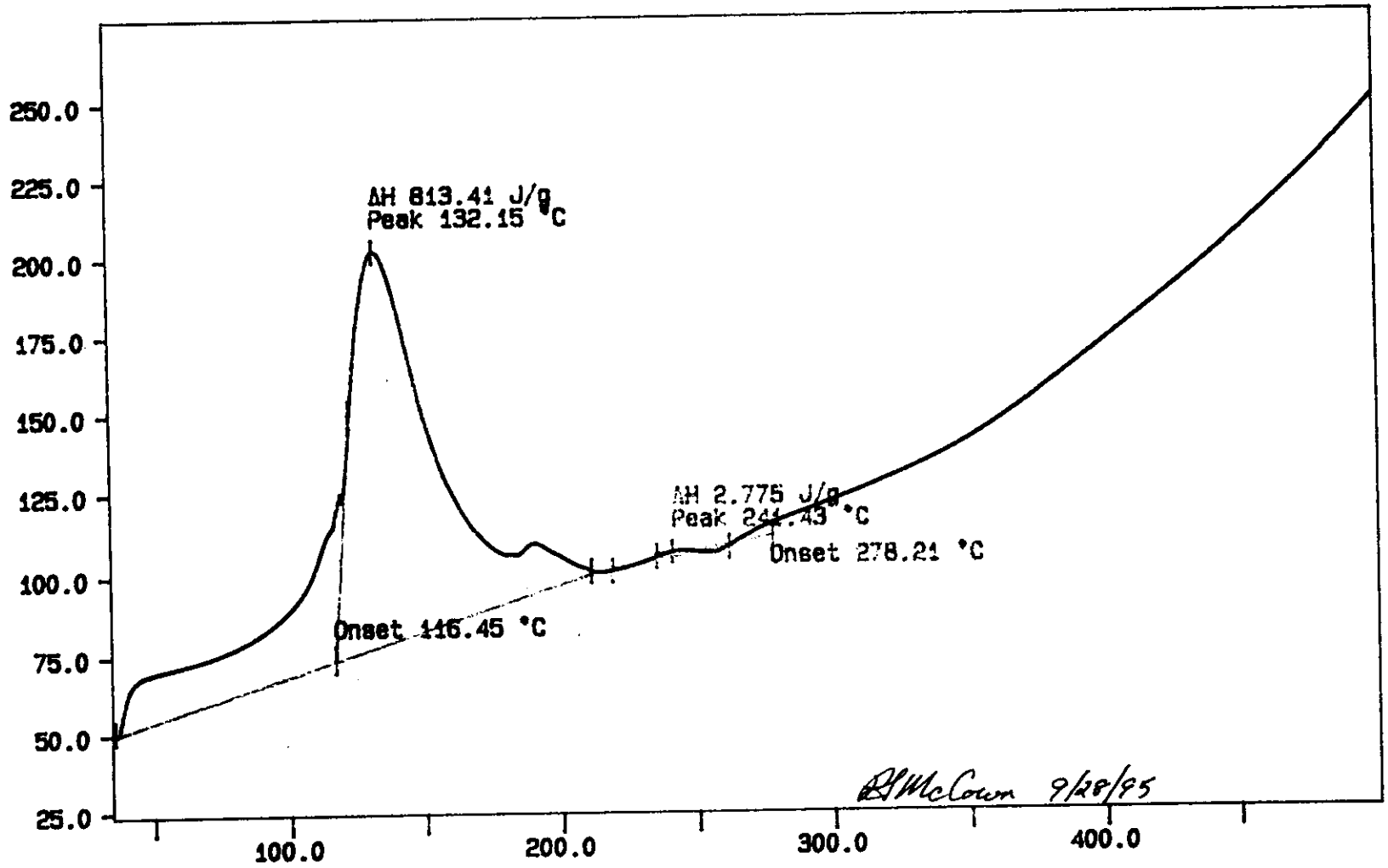


2-129

WHC-CD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM092809 Thu Sep 28 21:04:33 1995
Sample Weight: 43.400 mg
~~S95T001831 DUP~~ RLM 9/28/95
S95T001968 DUP

BEST AVAILABLE COPY



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

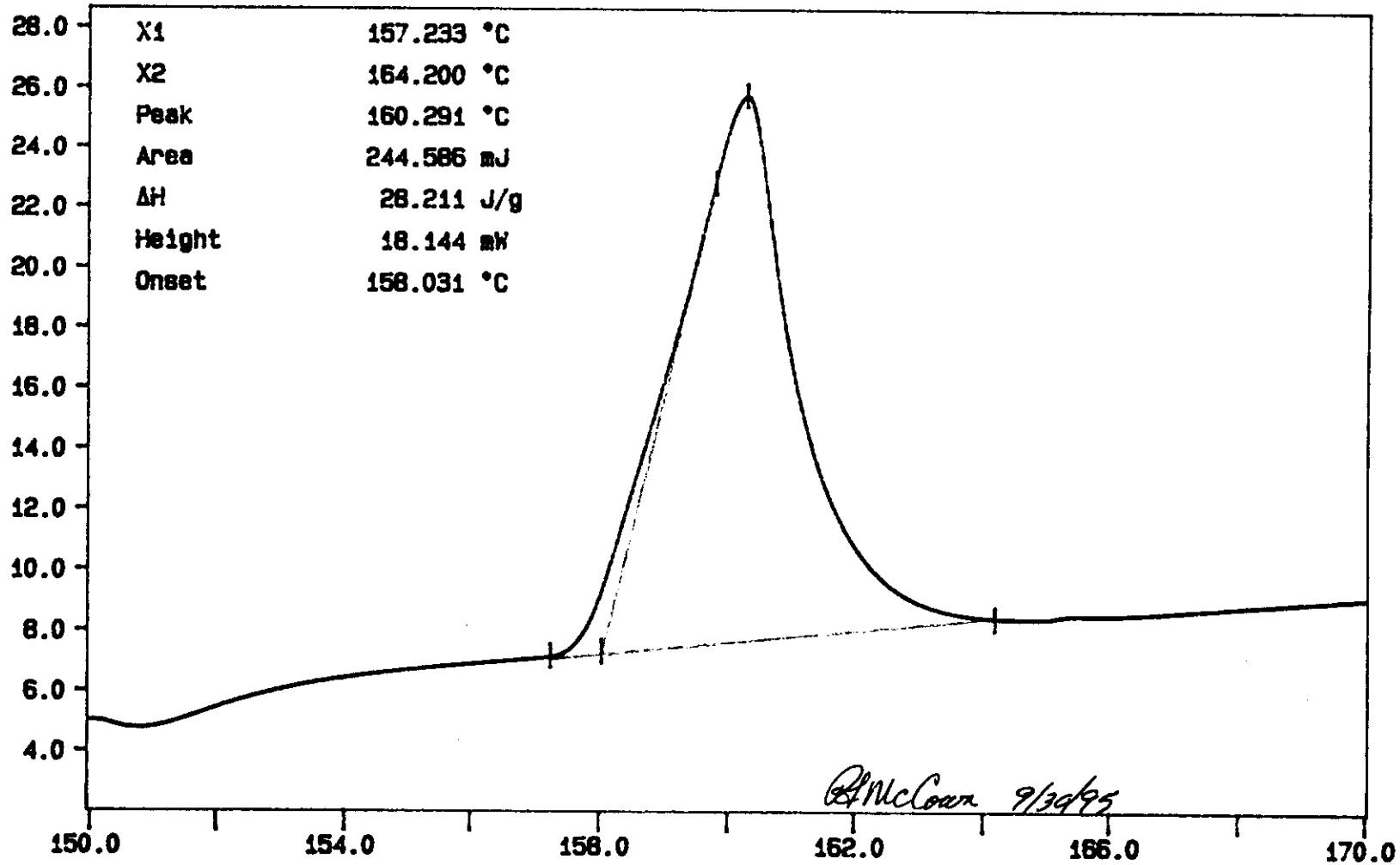
PJ MCCOWN
PERKIN ELMER
222-S Lab
Thu Sep 28 21:38:09 1995

B-130

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: IND093001 Sat Sep 30 18:05:39 1995
Sample Weight: 8.670 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY



N2, EXOTHERM DOWN
TEMP1: 180.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

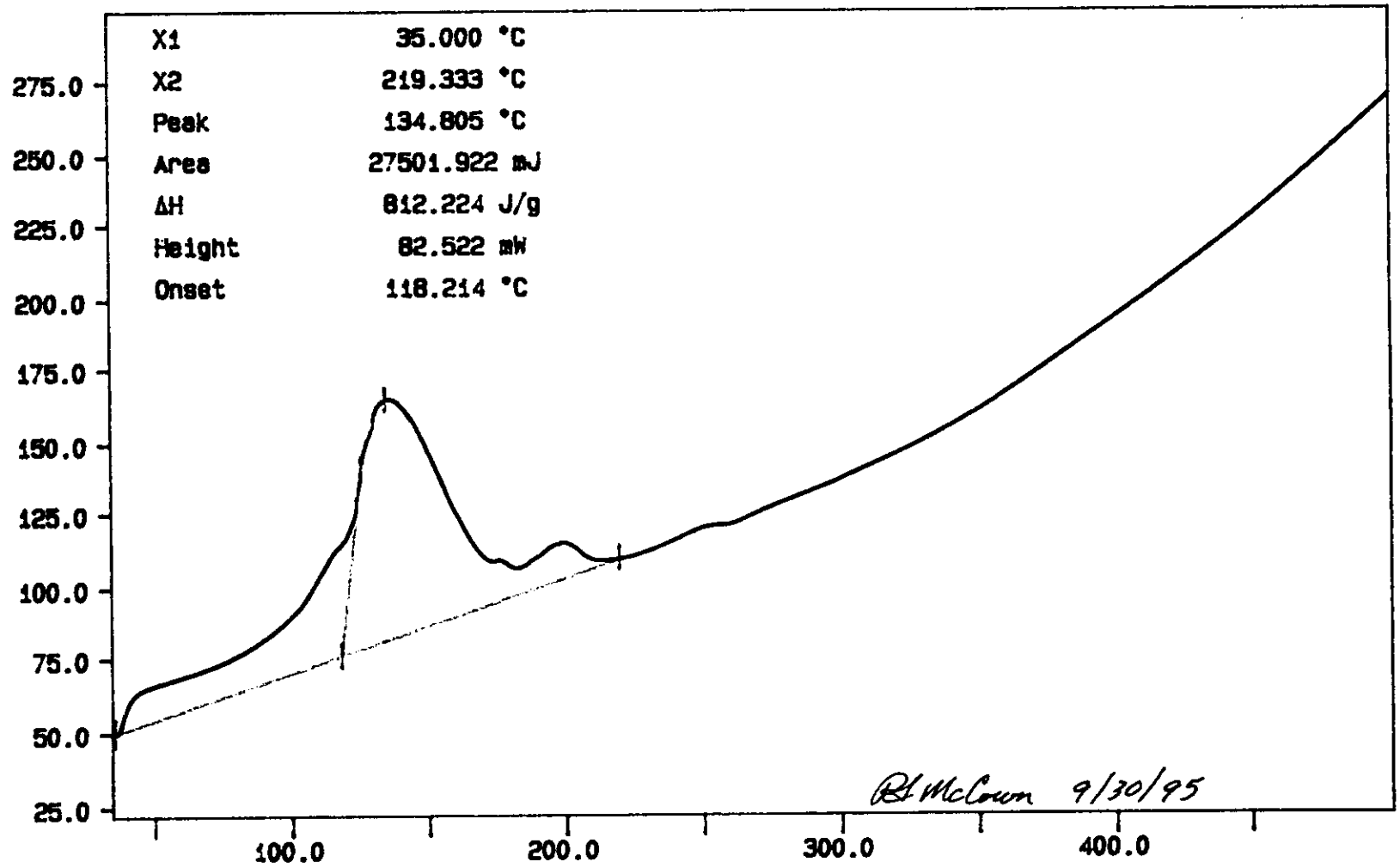
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sat Sep 30 18:17:43 1995

J-131

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM093001 Sat Sep 30 19:29:16 1995
Sample Weight: 33.860 mg
S95T001969 SAM

BEST AVAILABLE COPY



exotherm down, N2 purge gas
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

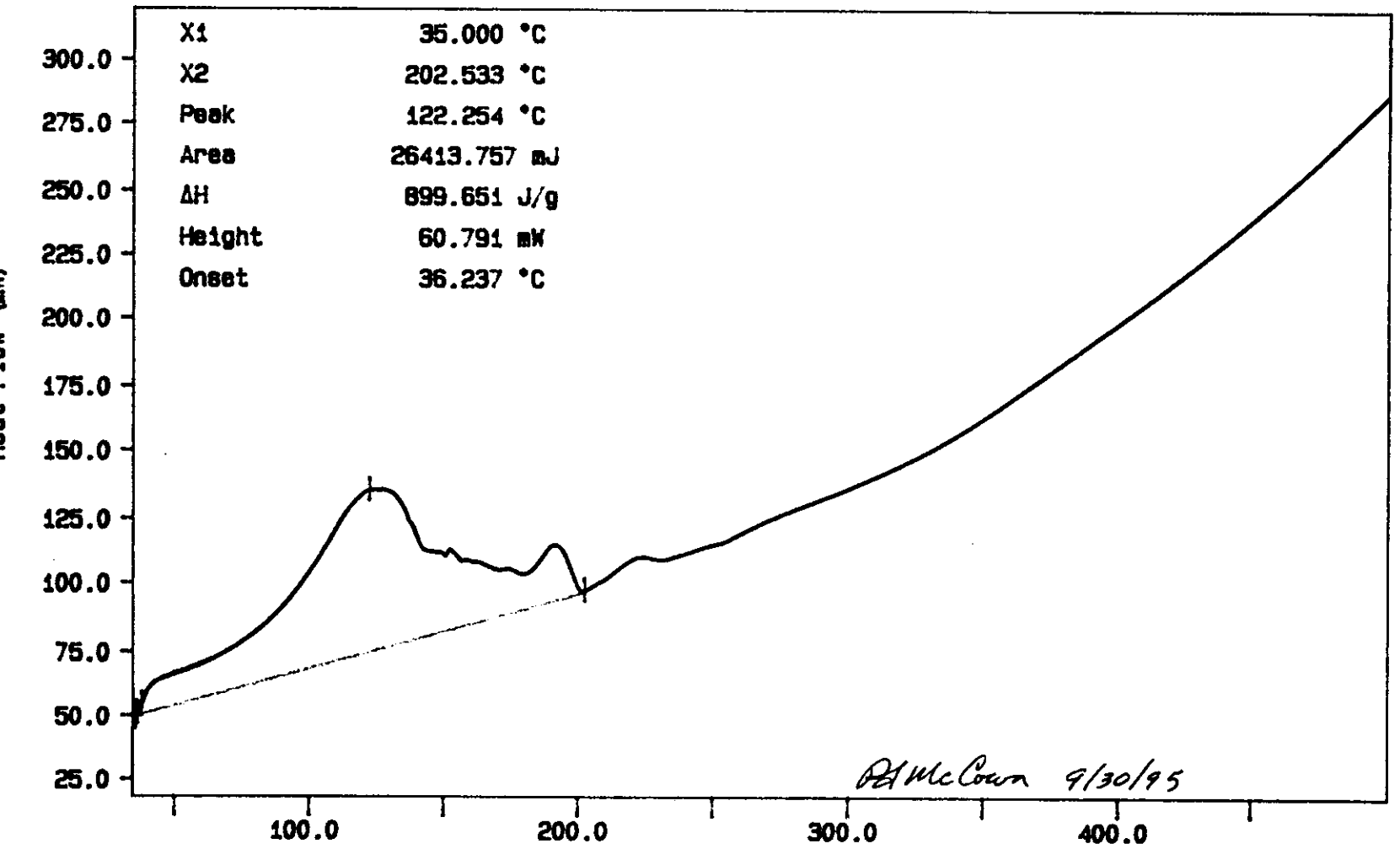
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sat Sep 30 19:55:44 1995

WHC-SD-WM-DP-145, REV. 1

5-132

Curve 1: DSC
File info: SAM093002 Sat Sep 30 20:51:36 1995
Sample Weight: 29.360 mg
S95T001969 DUP

BEST AVAILABLE COPY



P.J. McCown 9/30/95

3-133

WHC-SD-WM-DP-145, REV. 1

worklistrpt Version 2.1 05/15/95
10/04/95 14:59

LABCORE Data Entry Template for Worklist# 2320

Analyst: ADP **Instrument:** DSC0 3 **Book #** 12 N14A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	28.39	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001970	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001970	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001971	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	5 DUP	S95T001971	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2320

See attached for signatures
Analyst Signature **Date**

Dary Hammett 10-5-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 10-5-95

S95T001970 produced one endotherm at 102.7°C with a delta H 473.2 J/g.

Data Entry Comments: S95T001971 produced one endotherm at 133.3°C with a delta H of 611.4 J/g.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2320

Analyst: ADP **Instrument:** DSC0 _____ **Book #** 12N14A

Method: LA-514-113 Rev/Mod CO

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001970	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	3 DUP	S95T001970	0		DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001971	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	5 DUP	S95T001971	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2320

Anthony Punato 9-29-95
Analyst Signature **Date**

_____
Analyst Signature **Date**

Other instrument was used.
10-5-95
BDV

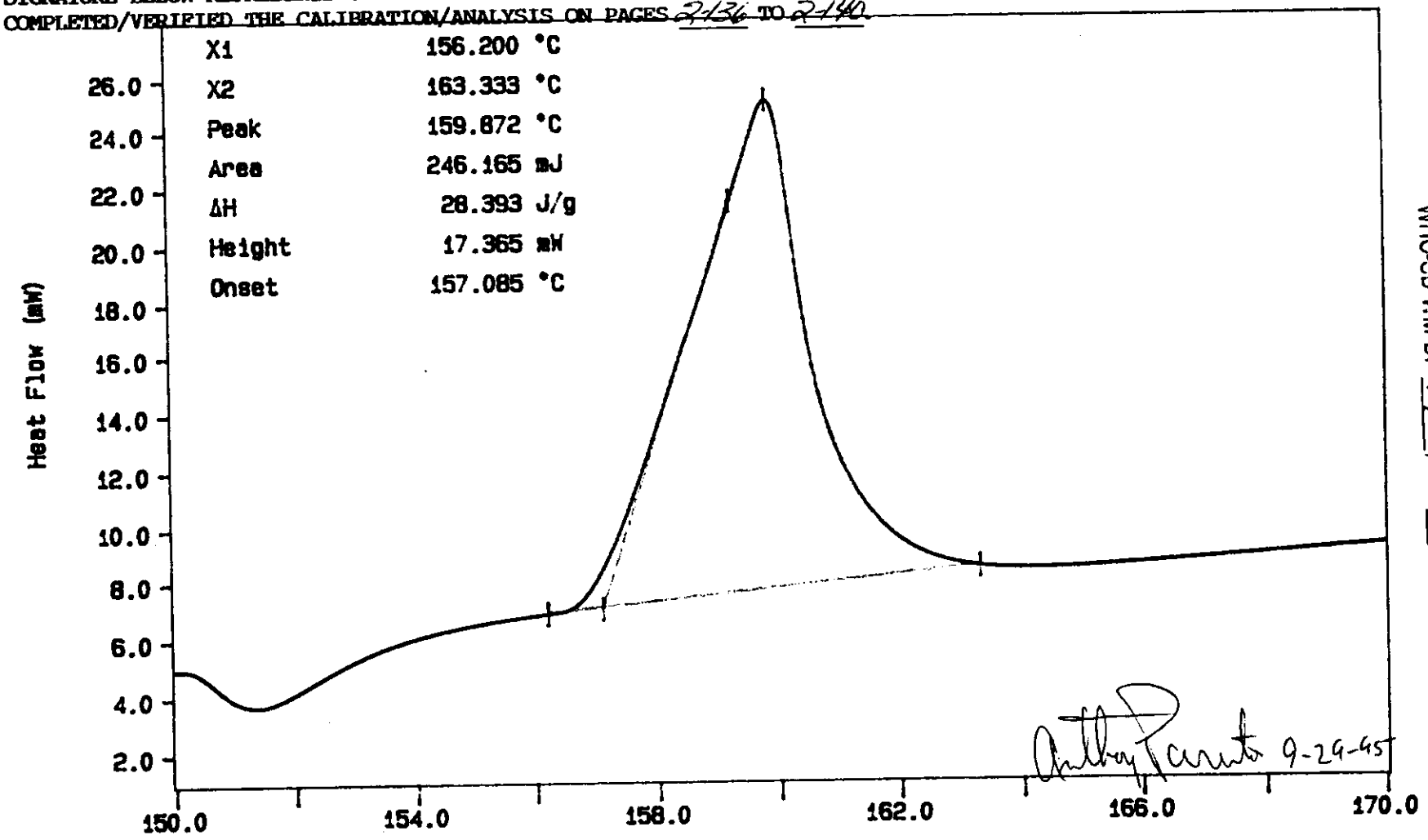
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND092902 Fri Sep 29 01:32:29 1995
Sample Weight: 8.670 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-136 TO 2-140.



Anthony Parente 9-29-95

N2, EXOTHERM DOWN
TEMP1: 180.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

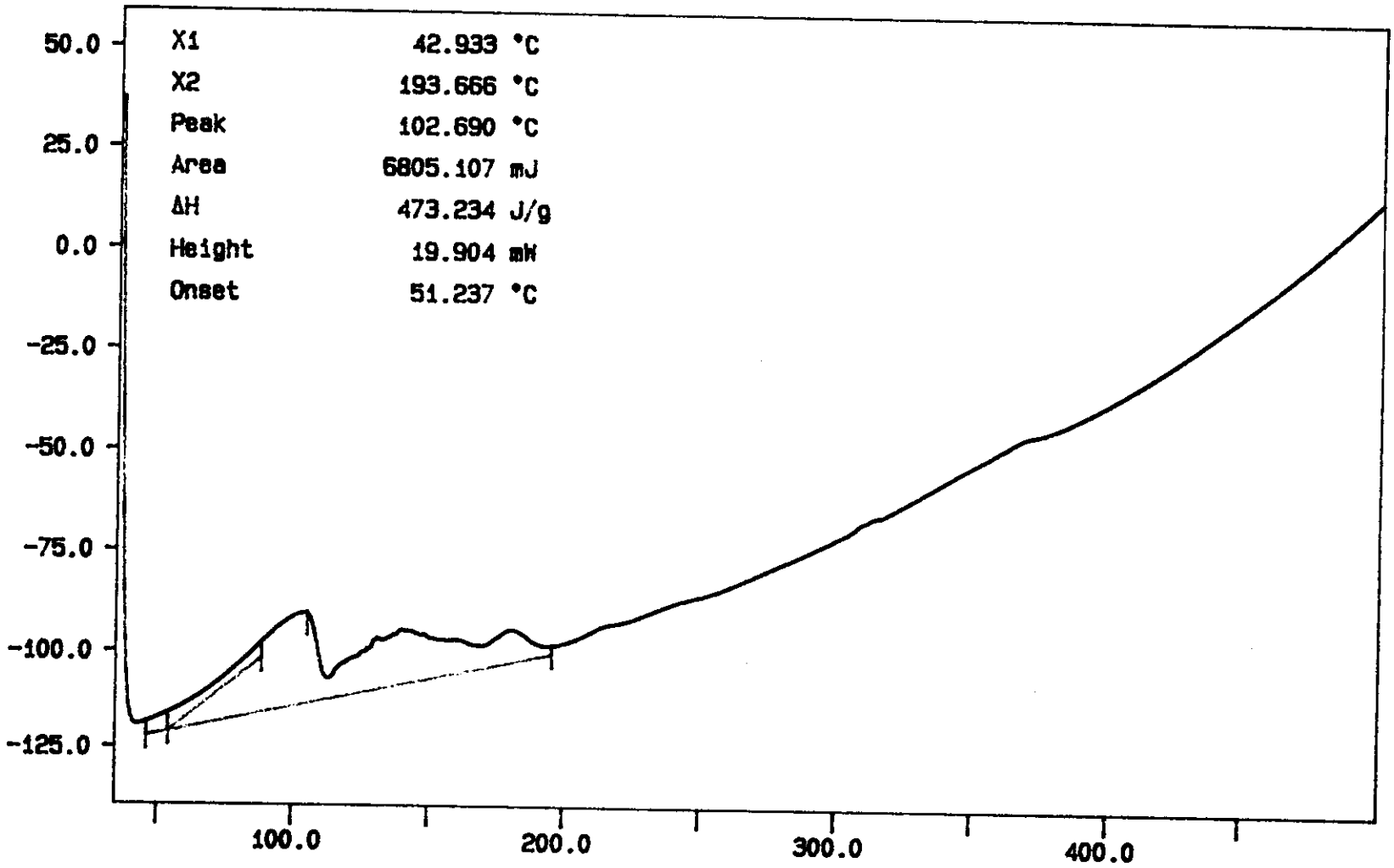
AD PURINTON
PERKIN ELMER
222-S Lab
Fri Sep 29 01:38:14 1995

2-136

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM092901 Fri Sep 29 02:35:58 1995
Sample Weight: 14.380 mg
S95T001970

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

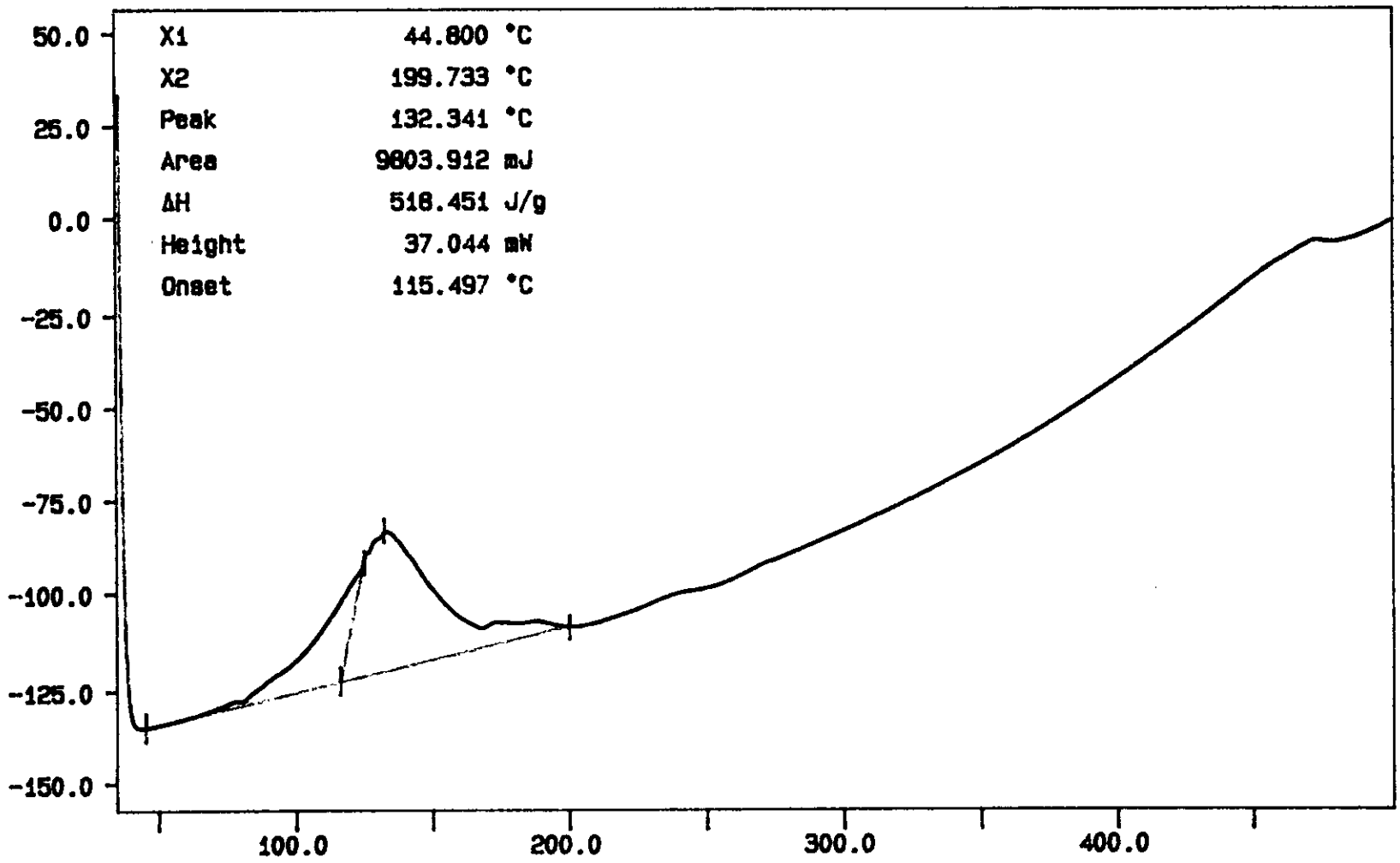
AD PURINTON
PERKIN ELMER
222-S Lab
Fri Sep 29 02:37:10 1995

8-137

WHC-CD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM092902 Fri Sep 29 03:28:30 1995
Sample Weight: 18.910 mg
S95T001970 DUP

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

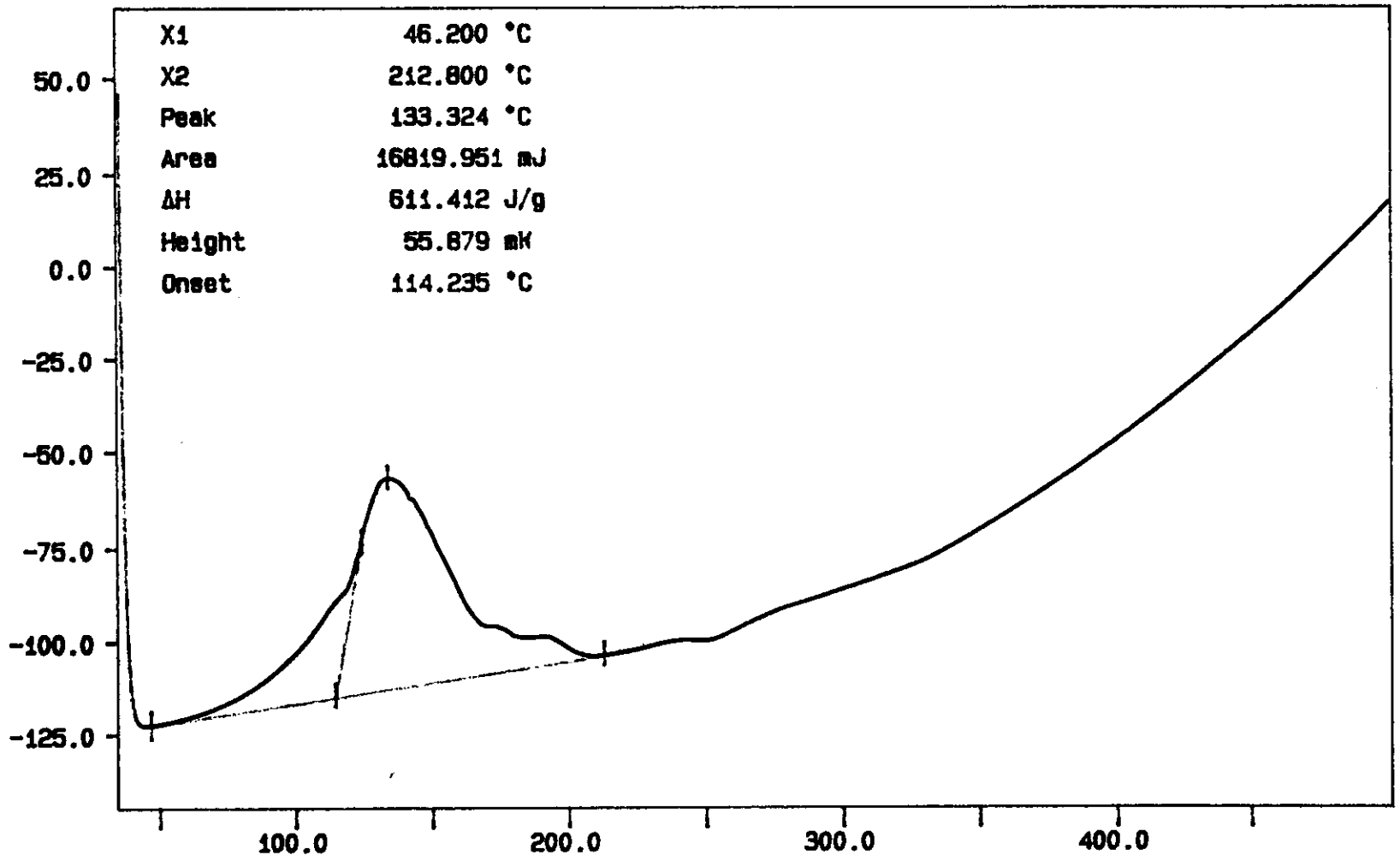
AD PURINTON
PERKIN ELMER
222-S Lab
Fri Sep 29 03:34:58 1995

2-138

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM092903 Fri Sep 29 04:29:04 1995
Sample Weight: 27.510 mg
S95T001971 SAM

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 400.0 C

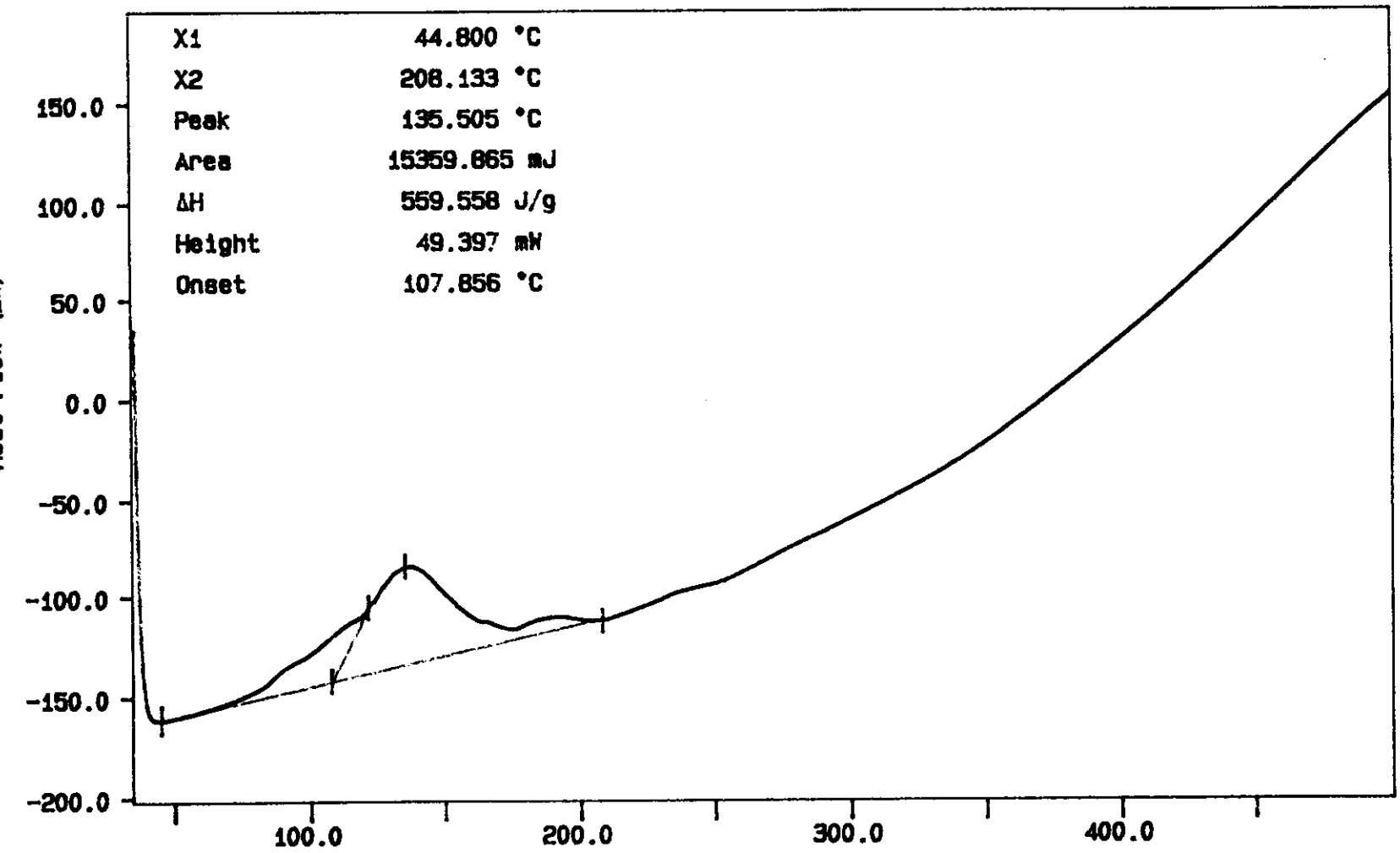
AD PURINTON
PERKIN ELMER
222-S Lab
Fri Sep 29 04:30:16 1995

7-139

WHC-SD-WM-DP-146, REV. 1

Curve 1: DSC
File info: SAM092904 Fri Sep 29 05:23:04 1995
Sample Weight: 27.450 mg
S95T001971 DUP

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP: 400.0 C

AD PURINTON
PERKIN ELMER
222-S Lab
Fri Sep 29 05:28:46 1995

2-140

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2321

Analyst: DCD **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	29.9	N/A	Joules/g
95000118	BY-108-(R)	2 SAMPLE	S95T001972	0		DSC-01	SOLID	N/A	41.4		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001972	0		DSC-01	SOLID	41.4	Ø	N/A	Joules/g
95000118	BY-108 (R)	4 TRIPL	S95T001972	0		DSC-01	SOLID	~~40.5~~ 41.1 10-5-95 BDV	40.5	N/A	Joules/g
95000118	BY-108 (R)	5 SAMPLE	S95T001973	0		DSC-01	SOLID	N/A	106.1		Joules/g
95000118	BY-108 (R)	6 DUP	S95T001973	0		DSC-01	SOLID	106.1	114.5	N/A	Joules/g

Final page for worklist # 2321

See attached for signatures
Analyst Signature **Date** 10-2-95 BDV

Analyst Signature **Date**

Verified by Blandina Valenzuela 10-4-95

Data Entry Comments: S95T001972 produced one endotherm at 131.9°C with a delta H of 945.6 J/g. The sample was run in triplicate due ~~Ø~~ to high RPD's, the sample and triplicate results were close. S95T001973 produced one endotherm at 108.3°C with a delta H of 972.8 J/g, this endothermic peak has two distinct peaks within it.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2321

Analyst: DCD **Instrument:** DSC0 _____ **Book #** 12 N14 A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	_____	_____	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001972	0		DSC-01	SOLID	N/A	_____	_____	Joules/g
95000118	BY-108 (R)	3 DUP	S95T001972	0		DSC-01	SOLID	_____	_____	N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001973	0		DSC-01	SOLID	N/A	_____	_____	Joules/g
95000118	BY-108 (R)	5 DUP	S95T001973	0		DSC-01	SOLID	_____	_____	N/A	Joules/g

Final page for worklist # 2321

David C Dunham 10-1-95
Analyst Signature **Date**

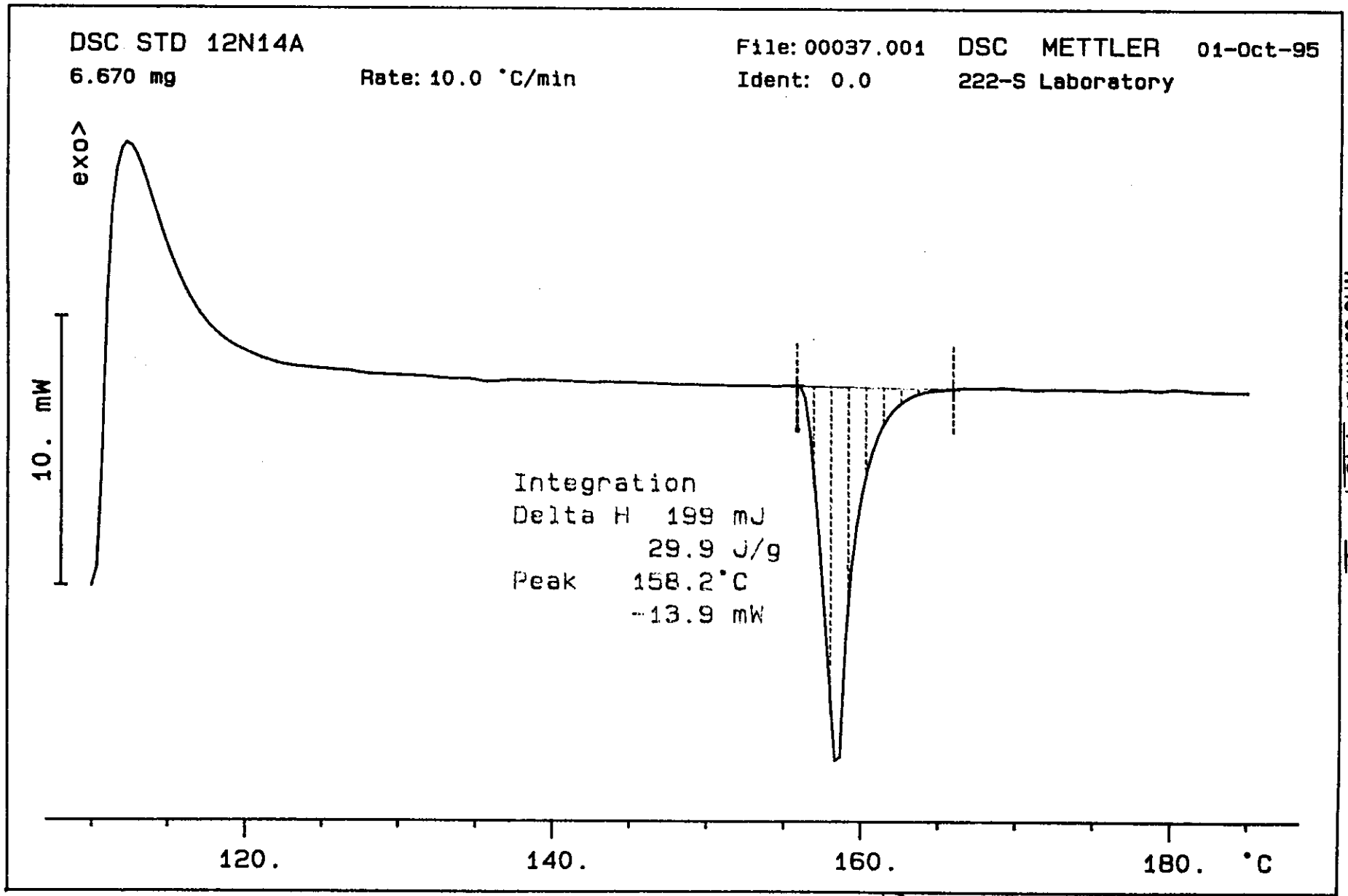
_____
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

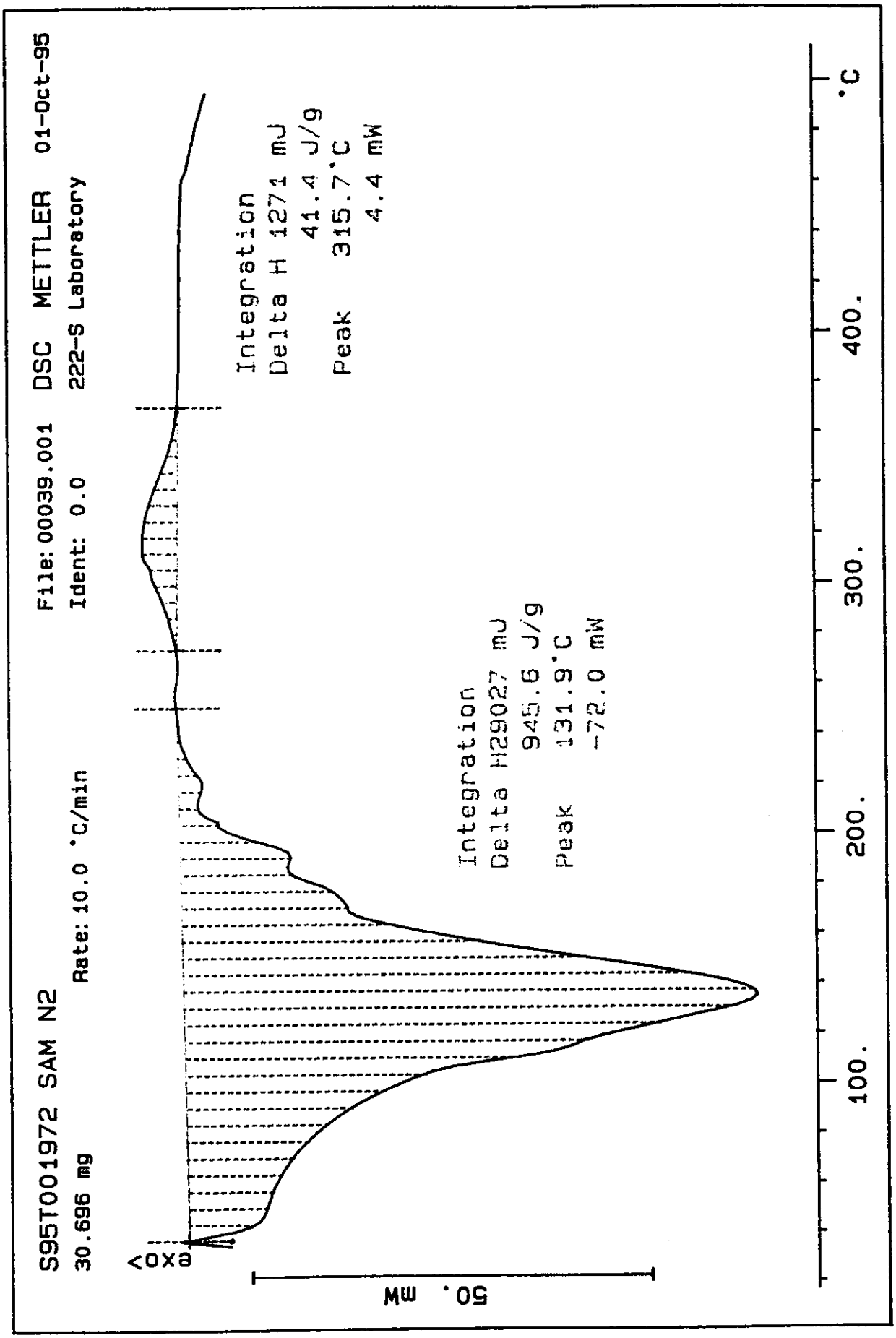
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-143 TO 2-148.

BEST AVAILABLE COPY



David C Dunham 10-15

BEST AVAILABLE COPY



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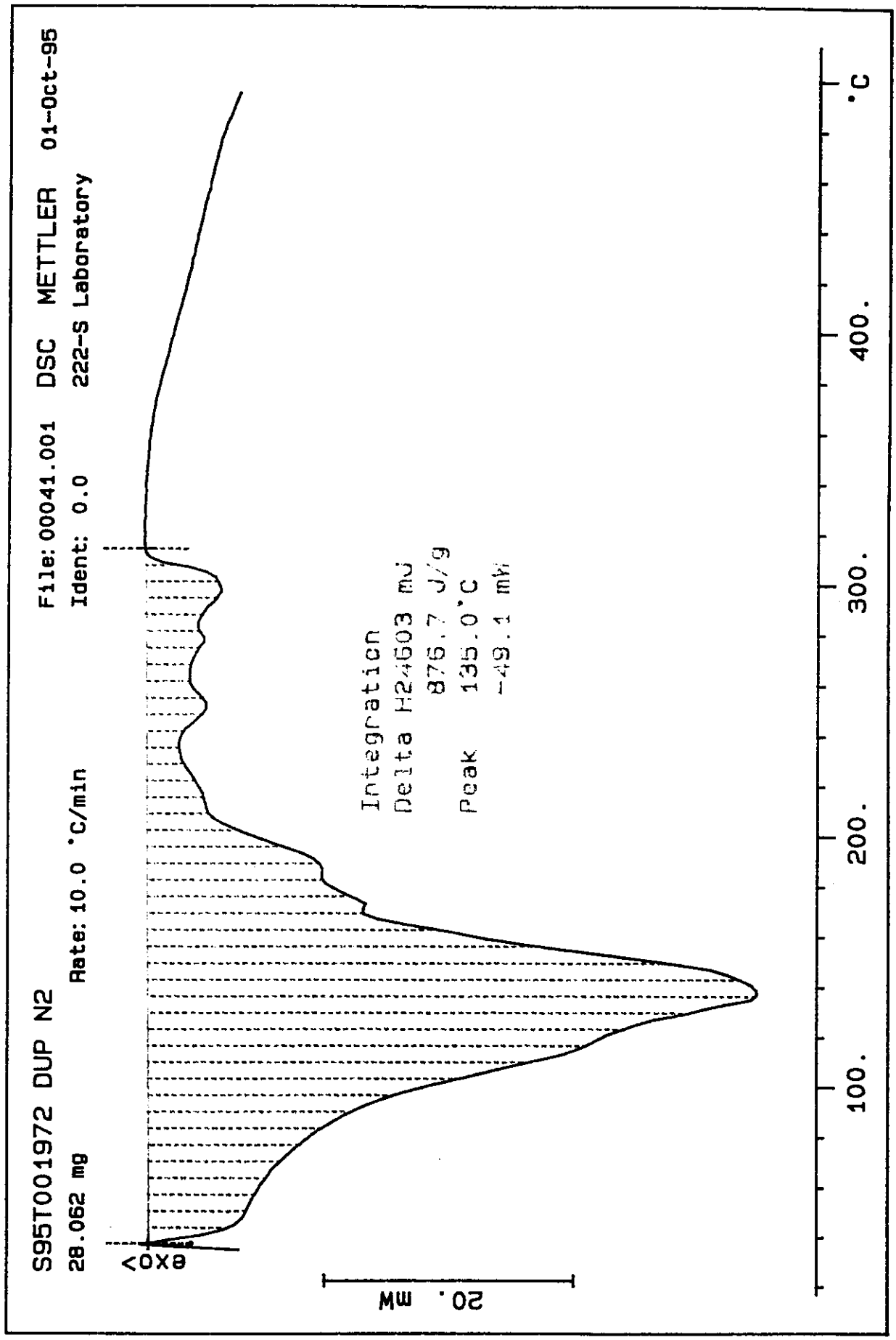

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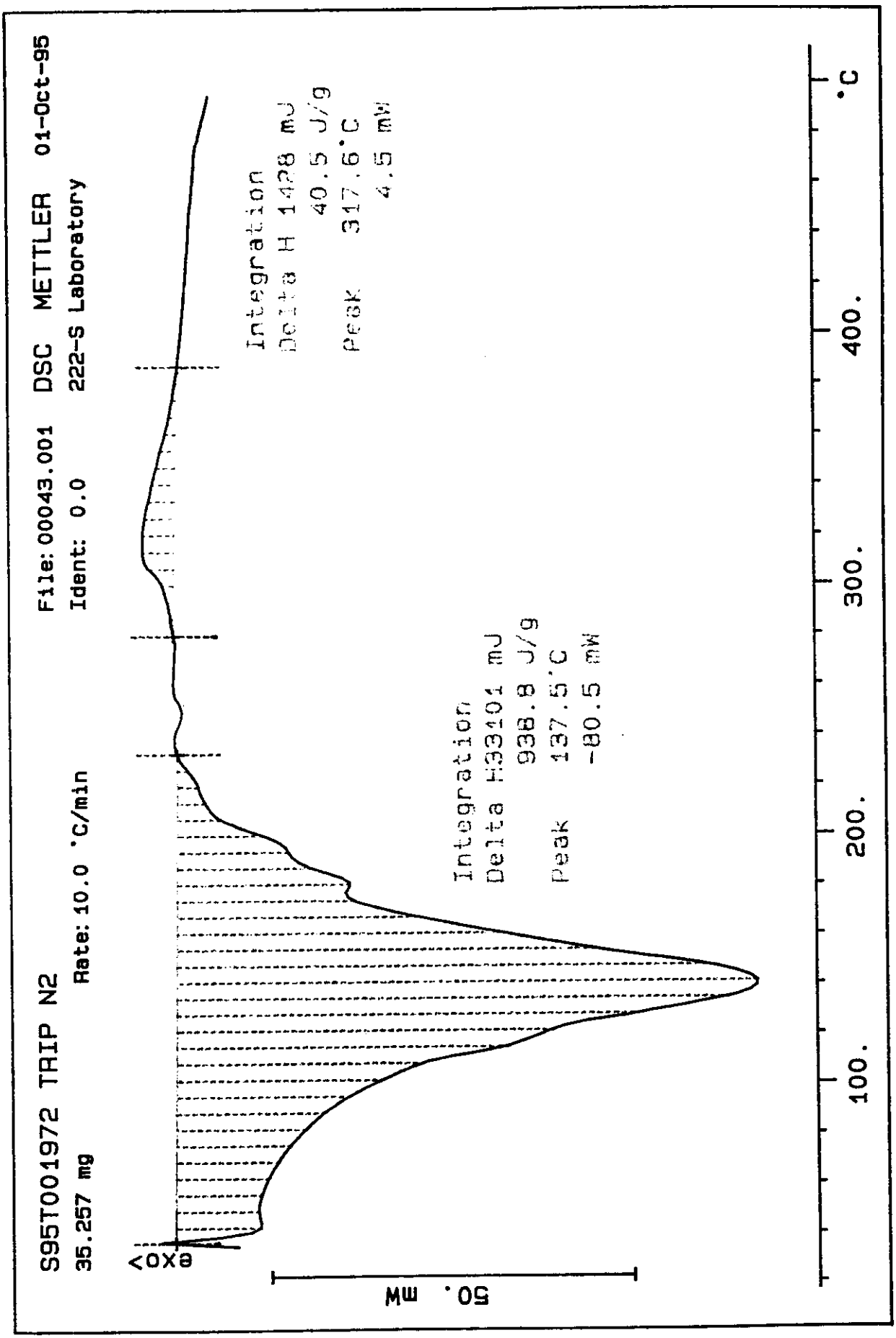
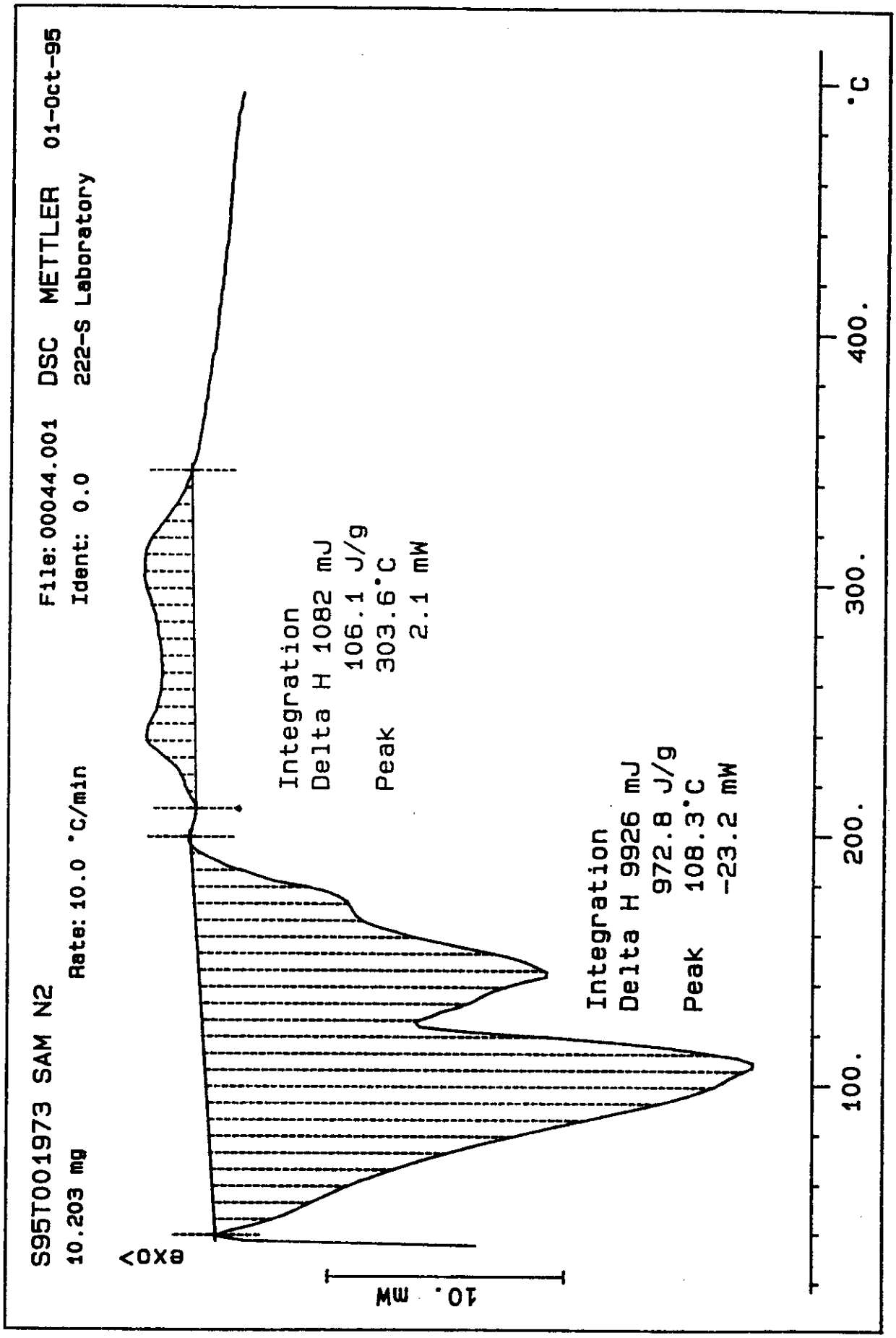
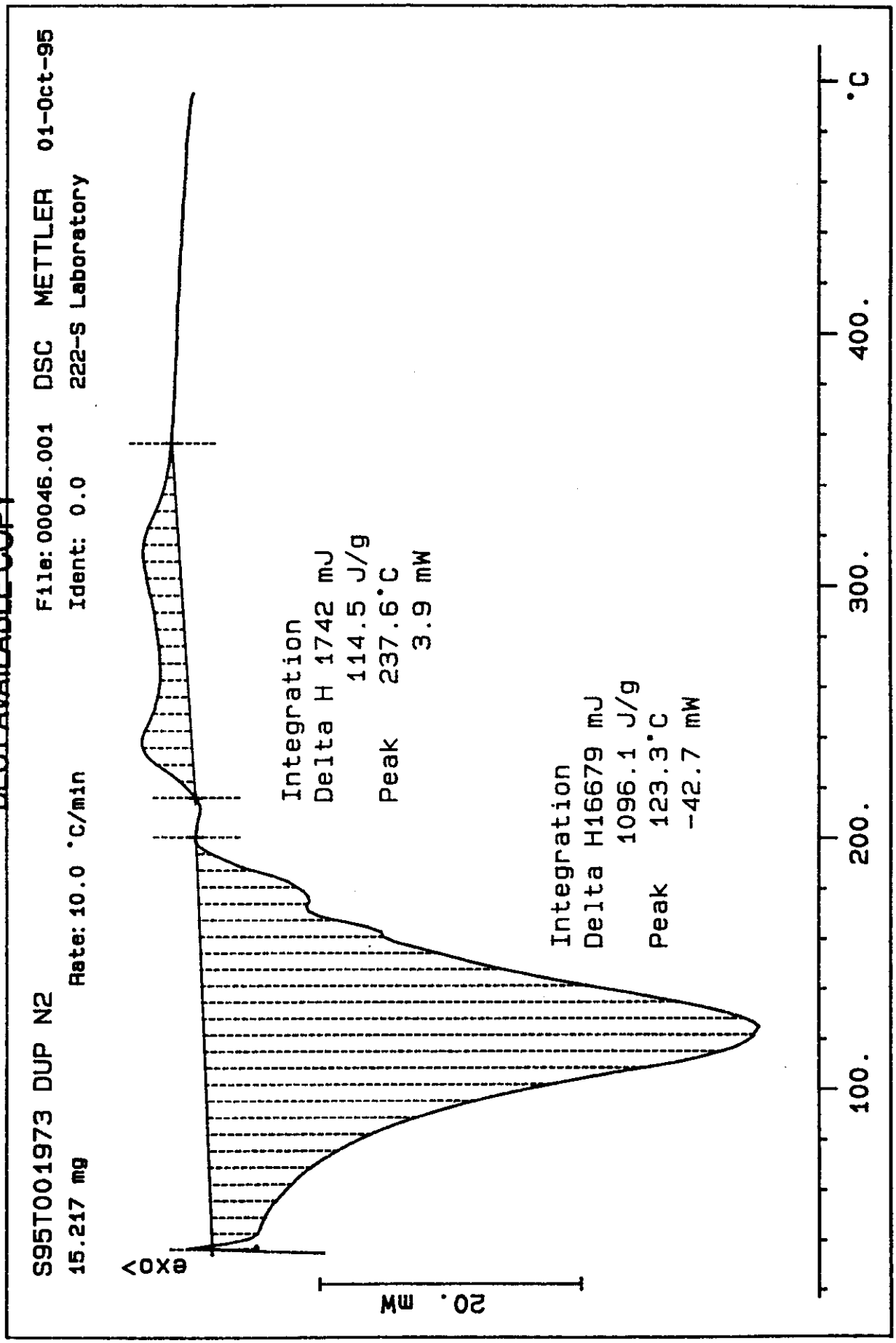


BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2322

Analyst: PJM **Instrument:** DSC0 3 **Book #** 12N14A

Method: LA-514-114 Rev/Mod CO

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	28.41	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001974	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001974	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001975	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	5 DUP	S95T001975	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2322

See attached for signatures
Analyst Signature Date 10-1-95

Analyst Signature Date 10-4-95

Verified by Blandina Valenzuela 10-5-95

S95T001974 produced one endotherm at 112.7°C with a delta H of 742.1 J/g 10-4 D

Data Entry Comments: S95T001975 produced one endotherm at ~~112.7°C~~ 146.6°C with a delta H of 718.5 J/g
10-2-95 BDV
DH/10/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2322

Analyst: RJ McCown **Instrument:** DSC0 **Book #** 12N14A

Method: LA-514-~~113~~ 114 Rev/Mod C-0 (Rev 10/1/95)

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	2	SAMPLE	S95T001974	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	3	DUP	S95T001974	0		DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	4	SAMPLE	S95T001975	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	5	DUP	S95T001975	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2322

RJ McCown 10/1/95
Analyst Signature **Date**

Analyst Signature **Date**

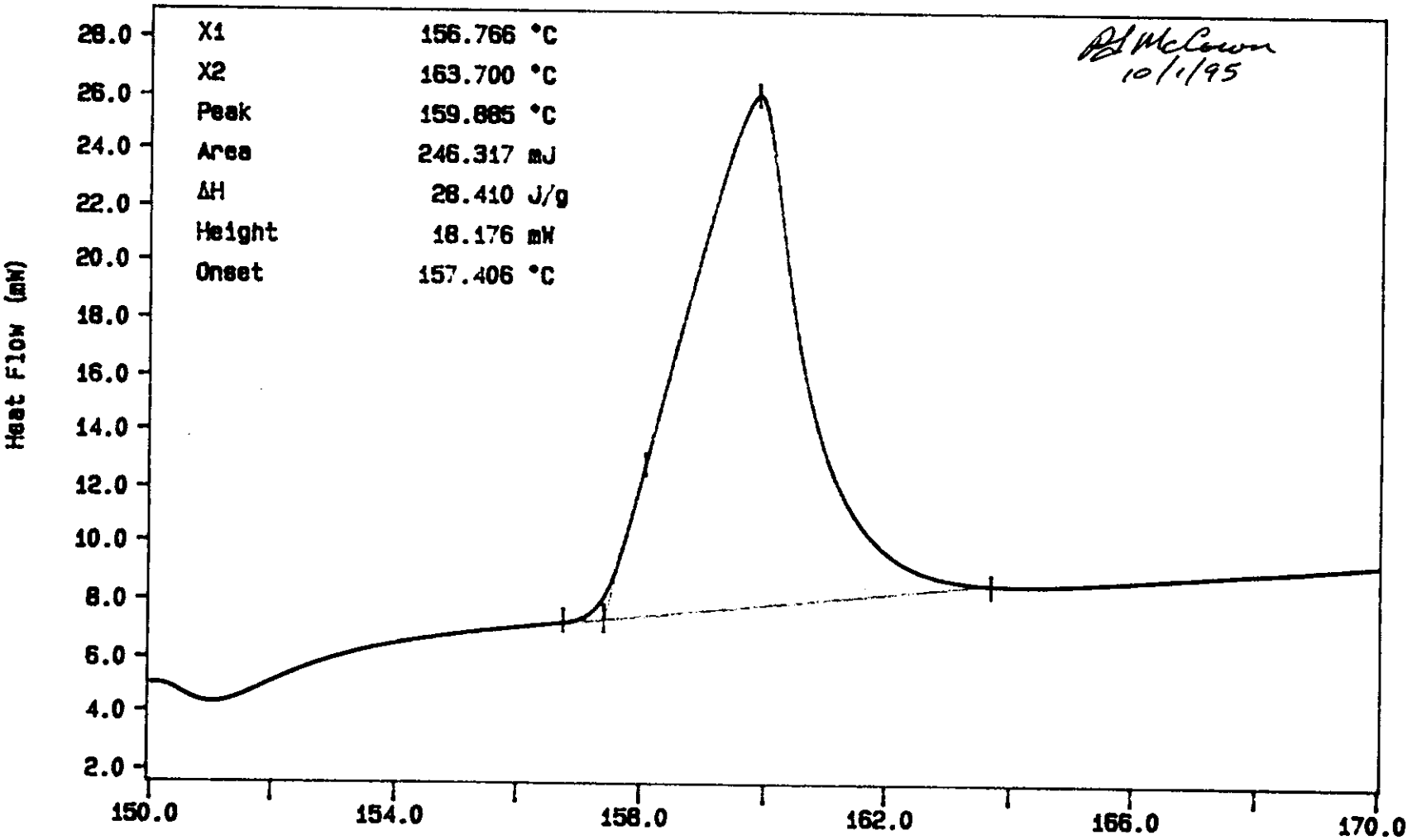
Other instrument
was used
10-5-95
RJM

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND100101 Sun Oct 1 00:07:50 1995
Sample Weight: 8.670 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY



N2, EXOTHERM DOWN
TEMP1: 150.8 °C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 176.8 °C

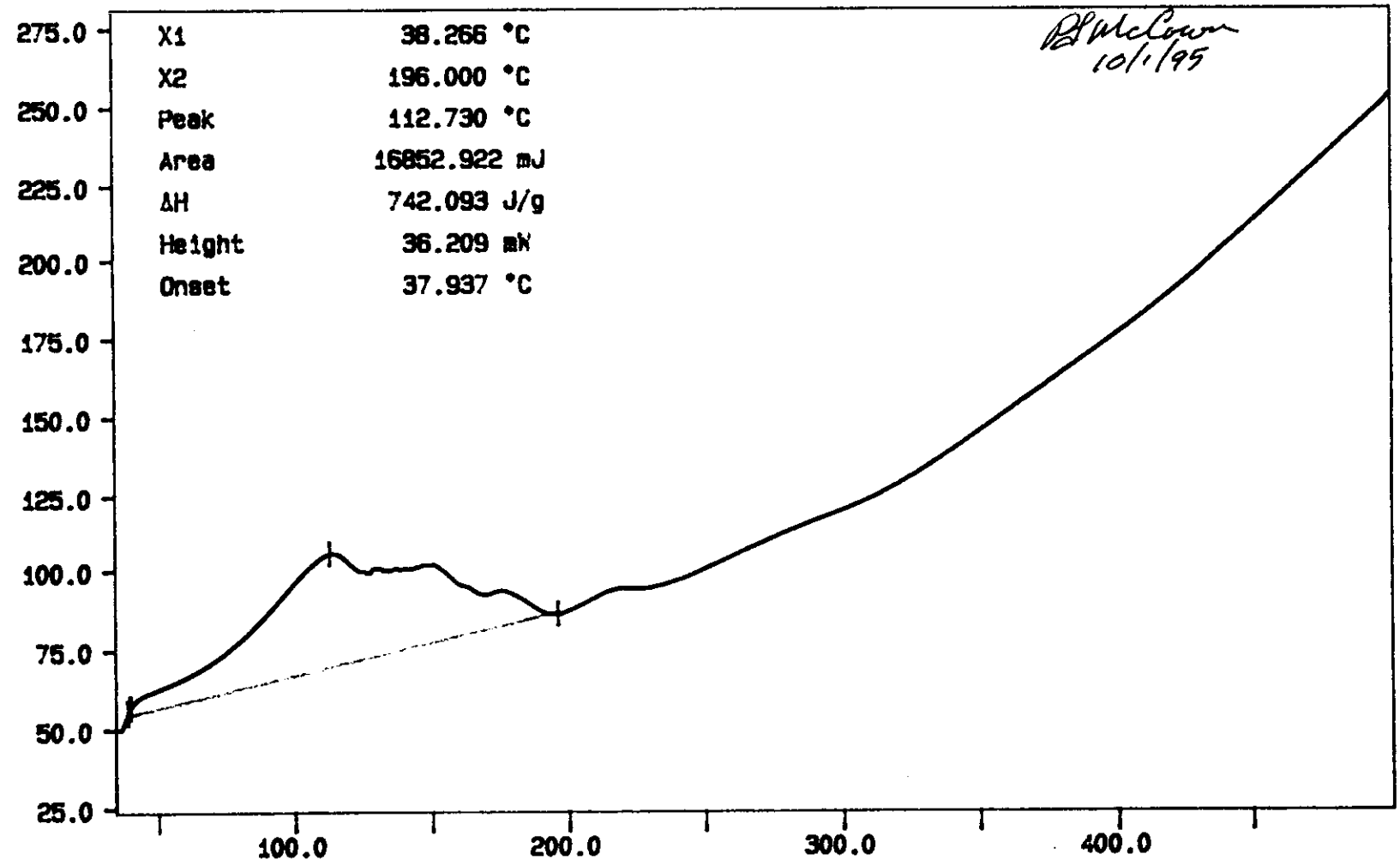
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 00:33:38 1995

2-151

WHC-CD-WM-DP-146, REV. 1

Curve 1: DSC
File info: SAM100103 Sun Oct 1 04:52:42 1995
Sample Weight: 22.710 mg
S95T001974 SAM

BEST AVAILABLE COPY



exotherm down, N2 purge gas

TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 400.0 C

PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 04:54:44 1995

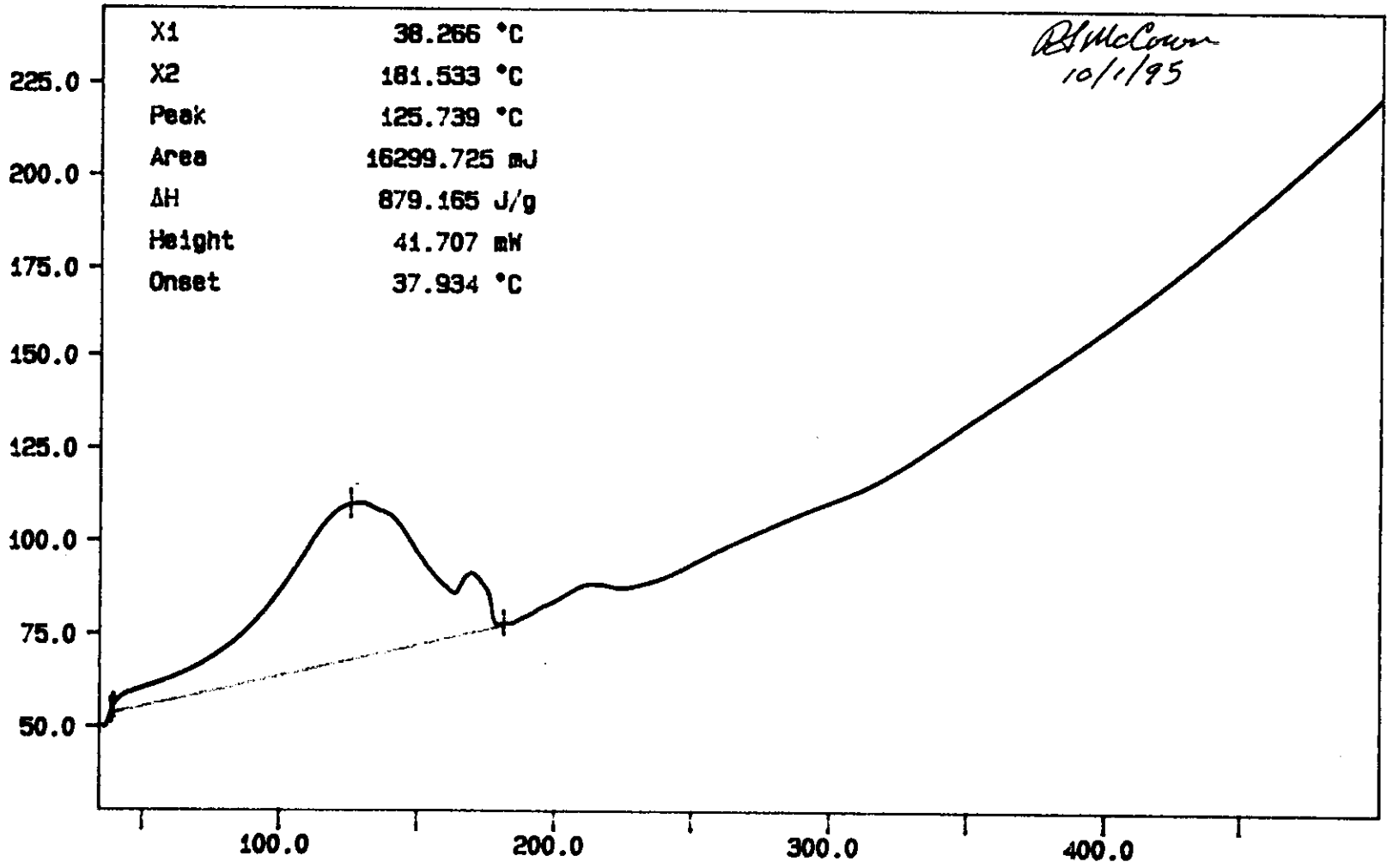
P.J. McCown 10/1/95

2-152

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM100104 Sun Oct 1 06:03:33 1995
Sample Weight: 18.540 mg
S95T001974 DUP

BEST AVAILABLE COPY



RJ McCown 10/1/95

exotherm down, N2 purge gas
TIME: 0.0 min RATE: 10.0 C/min

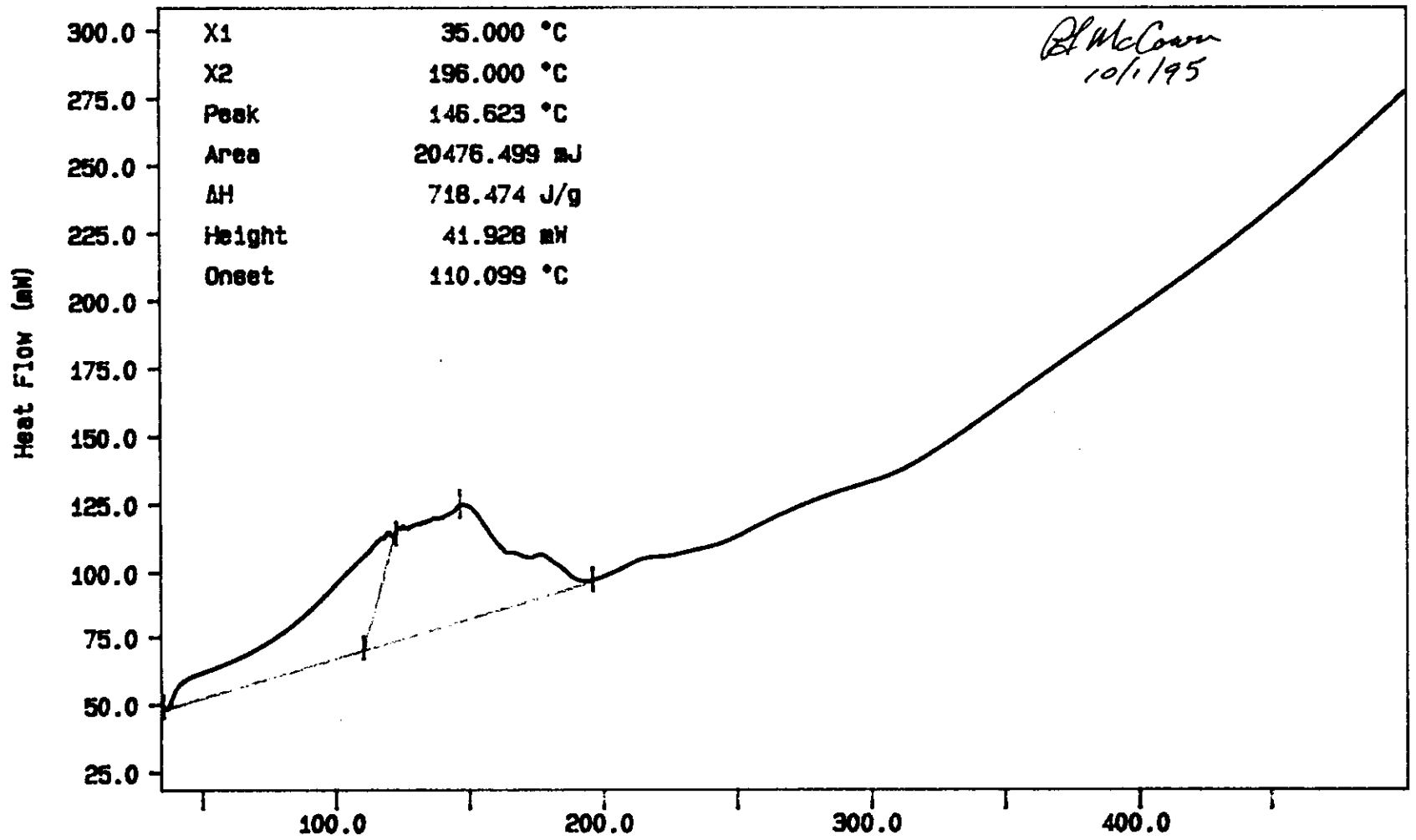
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 06:19:03 1995

WHC-CD-WM-DP-145, REV. 1

2-153

Curve 1: DSC
File info: SAM100101 Sun Oct 1 01:44:17 1995
Sample Weight: 28.500 mg
~~S95T004969~~ SAM
10/1/95 595T001975

BEST AVAILABLE COPY



BL McCown 10/1/95

exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 400.0 C

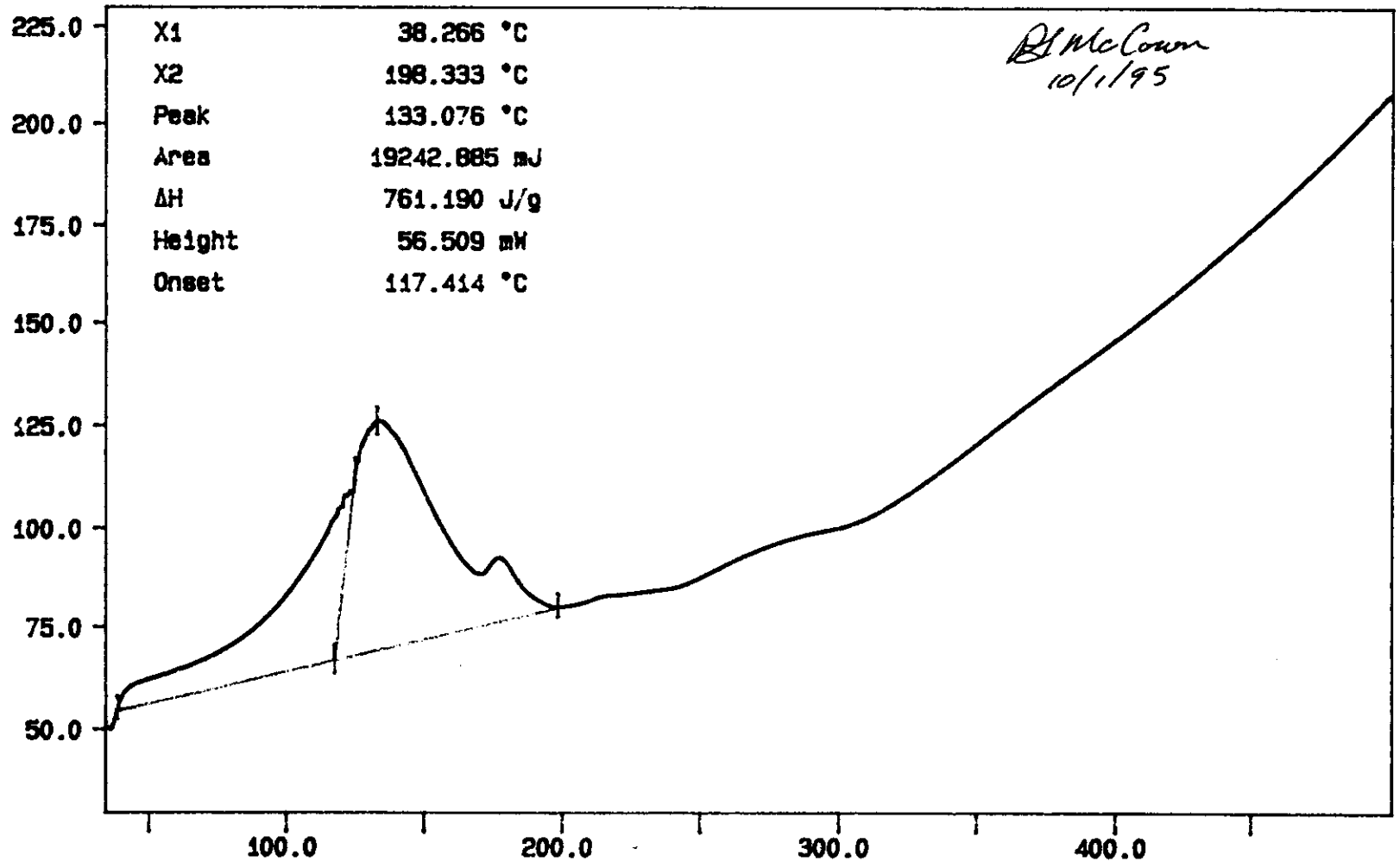
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 01:45:40 1995

WHC-SD-WM-DP-146, REV 1

2-154

Curve 1: DSC
File info: SAM100102 Sun Oct 1 02:42:55 1995
Sample Weight: 25.280 mg
S95T001975 DUP

BEST AVAILABLE COPY



DJ McCown 10/1/95

exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 400.0 C

PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 03:38:00 1995

WHC-CD-WM-DP-146, REV. 1

2-155

LABCORE Data Entry Template for Worklist# 2323

Analyst: RJ McCown **Instrument:** DSC0 1 **Book #** 12N14A

Method: LA-514-113 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID	28.45	26.6	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001976	0		DSC-01	SOLID	N/A	375.9		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001976	0		DSC-01	SOLID	375.9	350.0	N/A	Joules/g
95000118	BY-108 (R)	4 SAMPLE	S95T001977	0		DSC-01	SOLID	N/A	353.9		Joules/g
95000118	BY-108 (R)	5 DUP	S95T001977	0		DSC-01	SOLID	353.9	327.6	N/A	Joules/g

Final page for worklist # 2323

RJ McCown 10/1/95
Analyst Signature Date

Verified by Blandina Valenzuela 10-4-95

Tom D. McElhaney 10/2/95
Analyst Signature Date

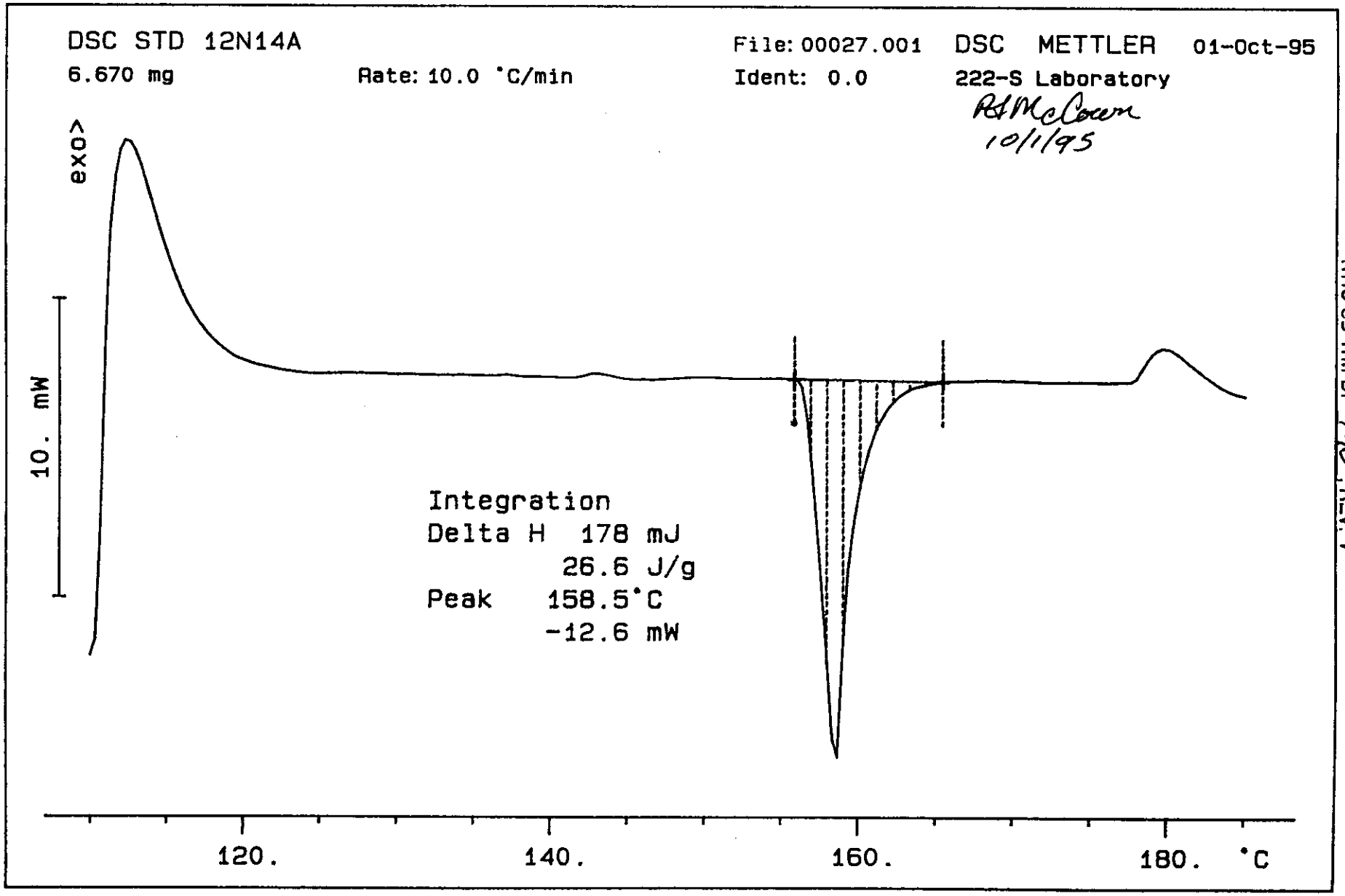
S95T001976 produced one endotherm at 118.2°C with a delta H of 888.8 J/g.

Data Entry Comments: S95T001977 produced one endotherm at 134.0°C with a delta H of ~~932.3~~ 10-5-95 BDV J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2157 TO 2161.

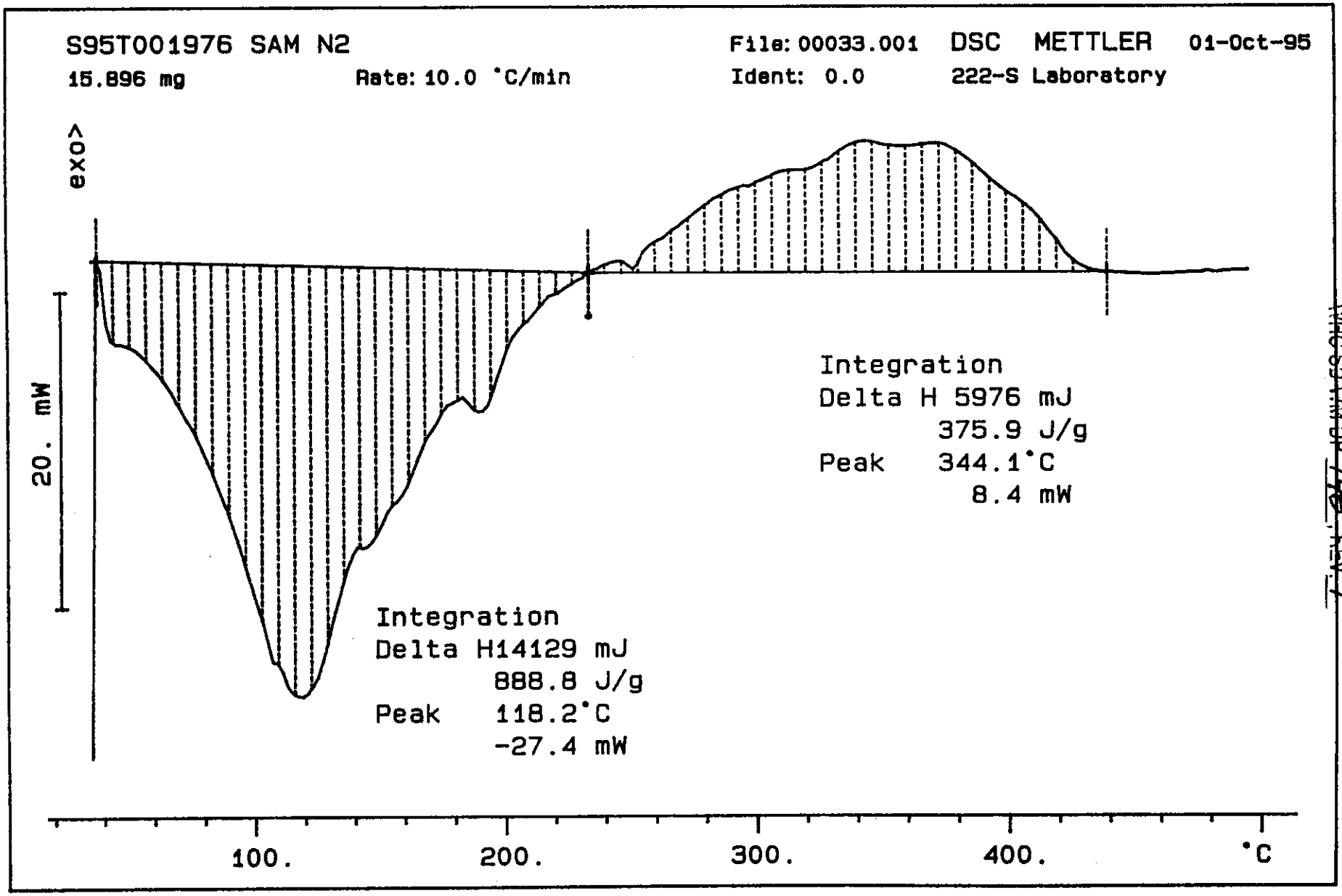
BEST AVAILABLE COPY



2157

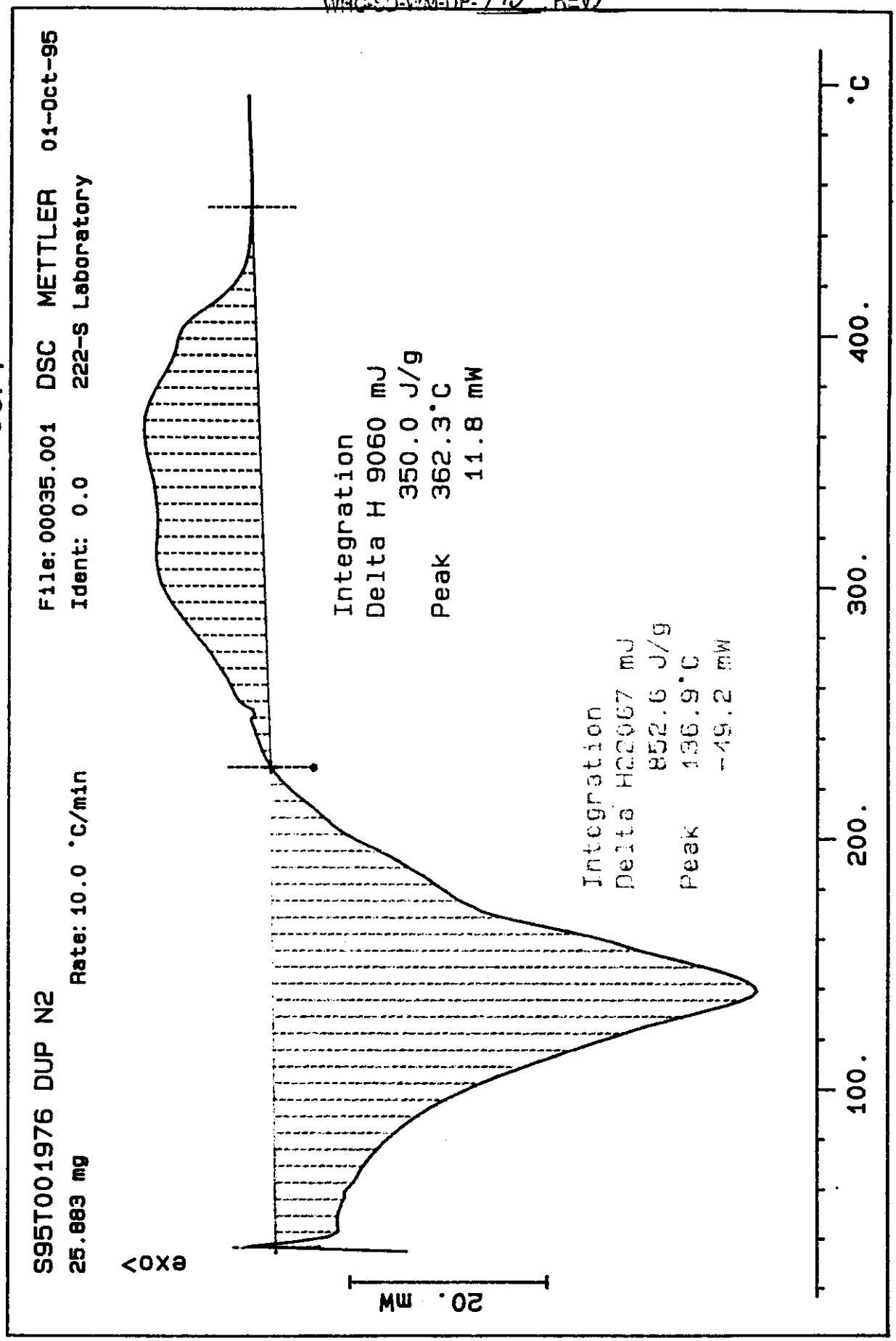
WHC-SD-WM-DP-146, REV. 1

BEST AVAILABLE COPY

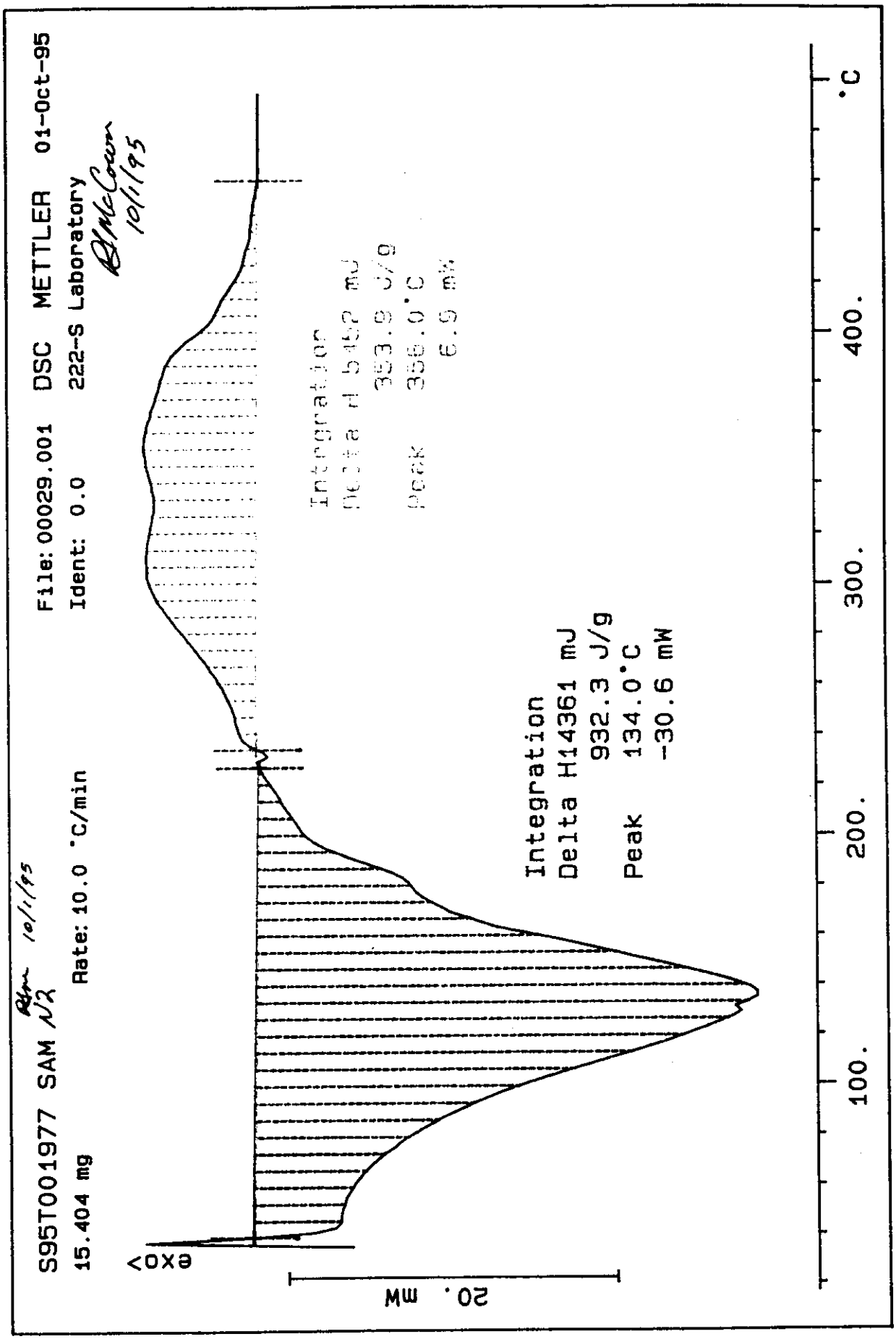


WHC-SD-WM-DP-146, REV. 1

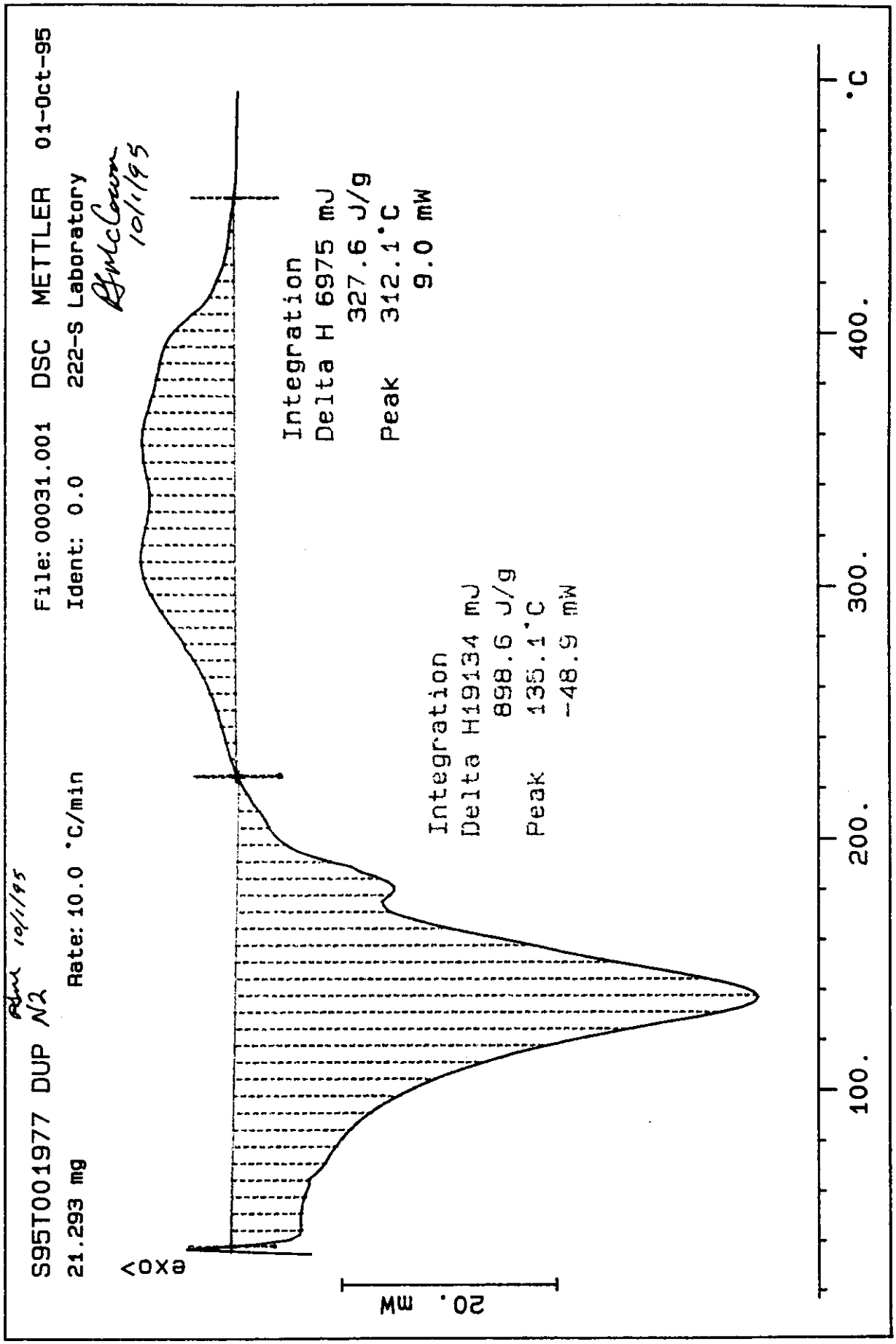
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2324

Analyst: PJM **Instrument:** DSC0 3 **Book #** 12N14A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-03	SOLID	28.45	28.65	N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001978	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000118	BY-108 (R)	3 DUP	S95T001978	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 2324

See attached for signatures
Analyst Signature Date 10/1/95

Verified by Blandina Valenzuela 10-4-95

Analyst Signature Date 10-04-95

Data Entry Comments: Sample produced one endotherm at 133.9°C with a delta H of 786.9 J/g

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2324

Analyst: RJ McCown **Instrument:** DSC0 _____ **Book #** 12N14A

Method: LA-514-~~113~~ 114 Rev/Mod C-0 RJM 10/1/95

Worklist Comment: Please run BY-108 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				DSC-01	SOLID			N/A	Joules/g
95000118	BY-108 (R)	2 SAMPLE	S95T001978	0		DSC-01	SOLID	N/A			Joules/g
95000118	BY-108 (R)	3 DUP	S95T001978	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 2324

RJ McCown 10/1/95
Analyst Signature Date

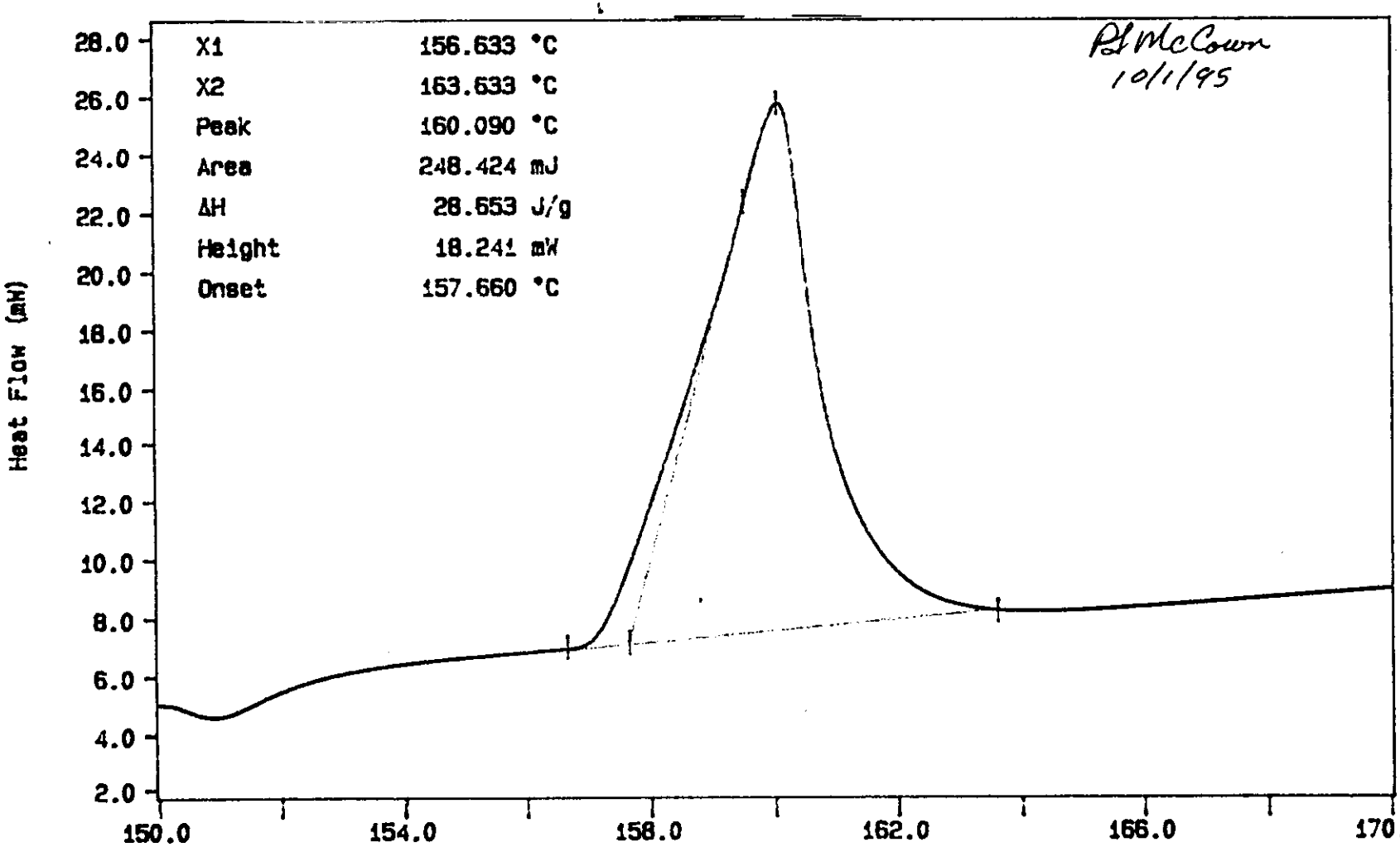
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: DSC
File info: IND100102 Sun Oct 1 16:18:22 1995
Sample Weight: 8.670 mg
12N14A Indium at 10C/min

BEST AVAILABLE COPY



PJ McCown
10/1/95

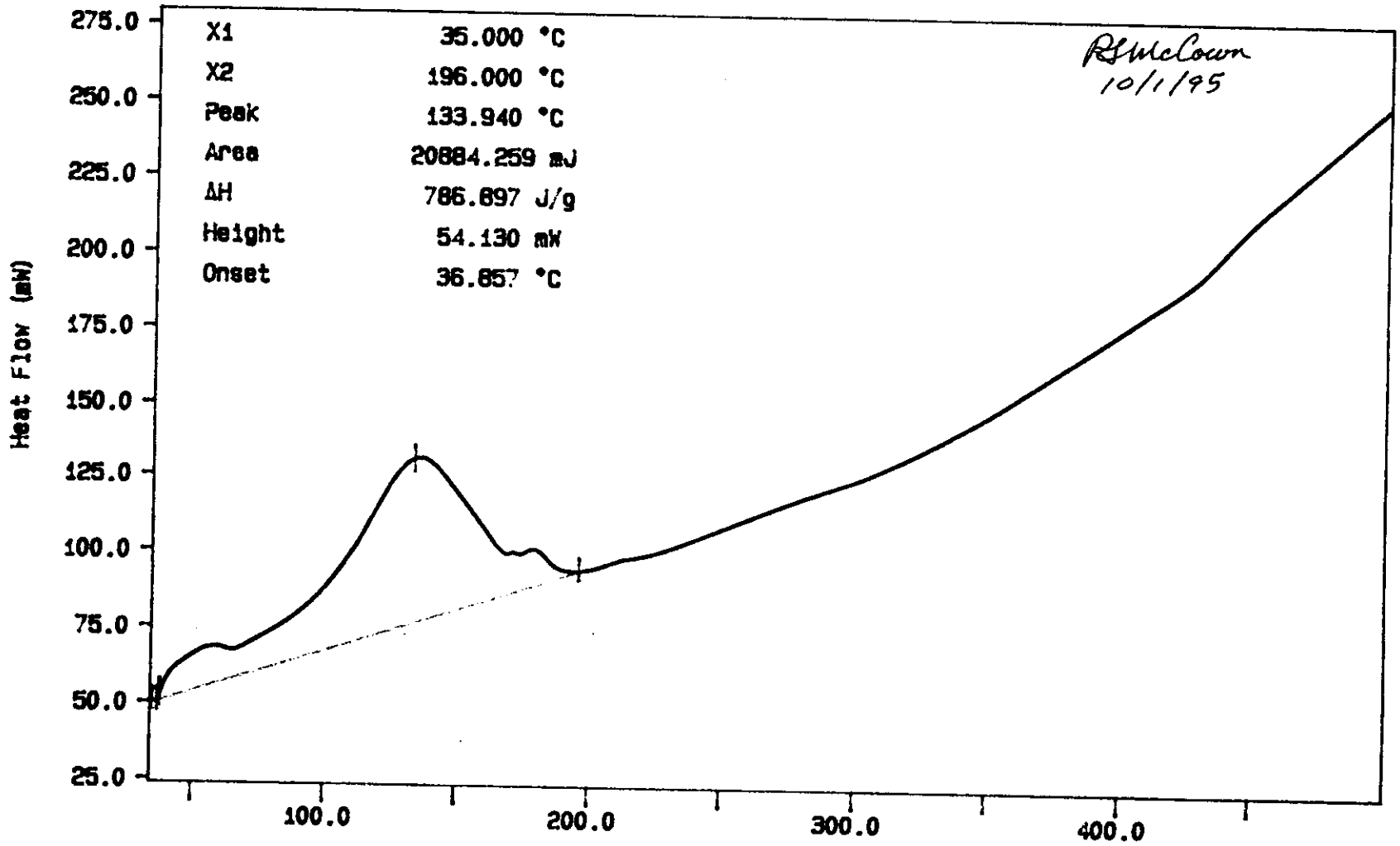
WHC-SD-WM-DP-145, REV. 1

2-164

N2, EXOTHERM DOWN
TEMP1: 150.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 170.0 C

PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 16:26:48 1995

Curve 1: DSC
File info: SAM100105 Sun Oct 1 18:00:08 1995
Sample Weight: 26.540 mg
S95T001978 SAM



exotherm down, N2 purge gas

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 350.0 C

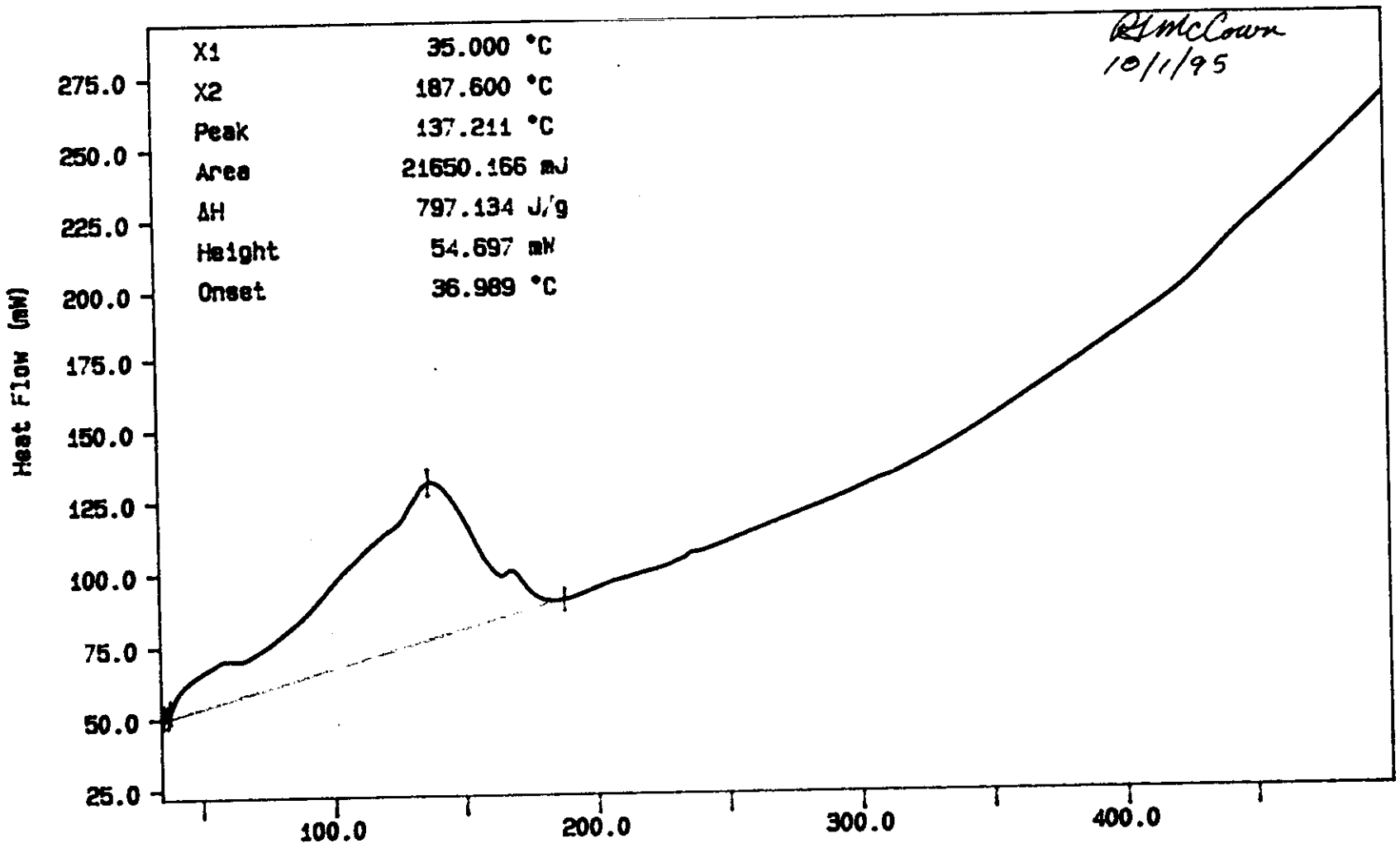
PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 18:03:59 1995

2-165

WHC-SD-WM-DP-145, REV. 1

Curve 1: DSC
File info: SAM100106 Sun Oct 1 19:12:38 1995
Sample Weight: 27.160 mg
S95T001978 DUP

BEST AVAILABLE COPY



RJ McCown
10/1/95

WHC-SD-WM-DP-145, REV. 1

2-166

exotherm down, N2 purge gas
TEMP: 30.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 400.0 C

PJ MCCOWN
PERKIN ELMER
222-S Lab
Sun Oct 1 19:57:44 1995

LABCORE Data Entry Template for Worklist# 2002

Analyst: bdv **Instrument:** TGA0 1 **Book #** 65N84

Method: LA-560-112 Rev/Mod A.2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	58.13	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001419	0		TGA-01	SOLID	N/A	28.88		%
95000104	BY-108 (R)	3	DUP	S95T001419	0		TGA-01	SOLID	28.88	36.23	N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001420	0		TGA-01	SOLID	N/A	35.41		%
95000104	BY-108 (R)	5	DUP	S95T001420	0		TGA-01	SOLID	35.41	35.81	N/A	%

Final page for worklist # 2002

Analyst Signature 8-16-95 Date

Analyst Signature 8-22-95 Date

Verified by Blandina Valenzuela 8-28-95

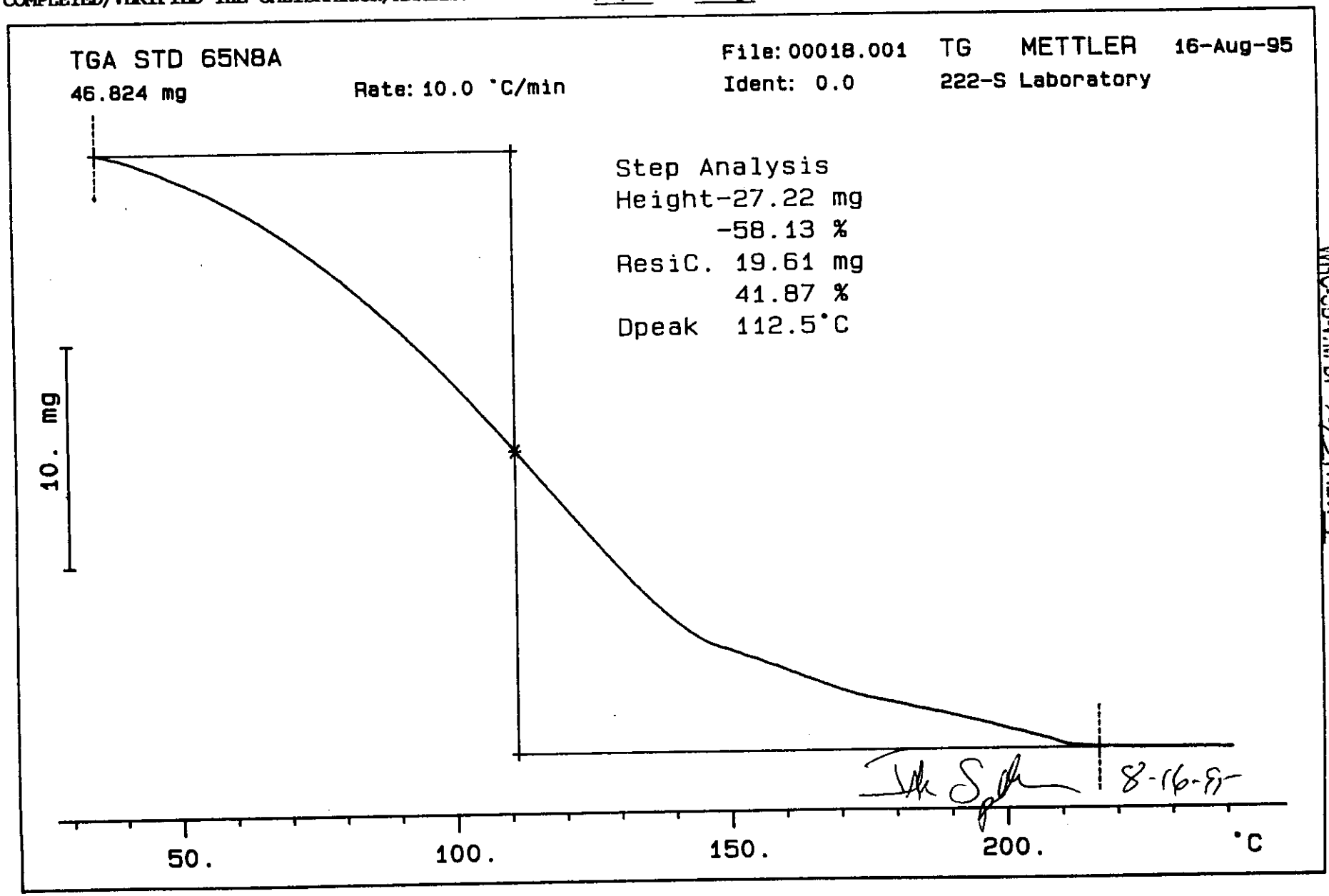
S95T001419 produced a second weight loss step ~~at~~ BDV 8-17-95 of 6.22% at approximately 335°C. Sample will be rerun due to high RPD's.

Data Entry Comments: S95T001420 produced a second weight loss step of 9.09% at approximately 320°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

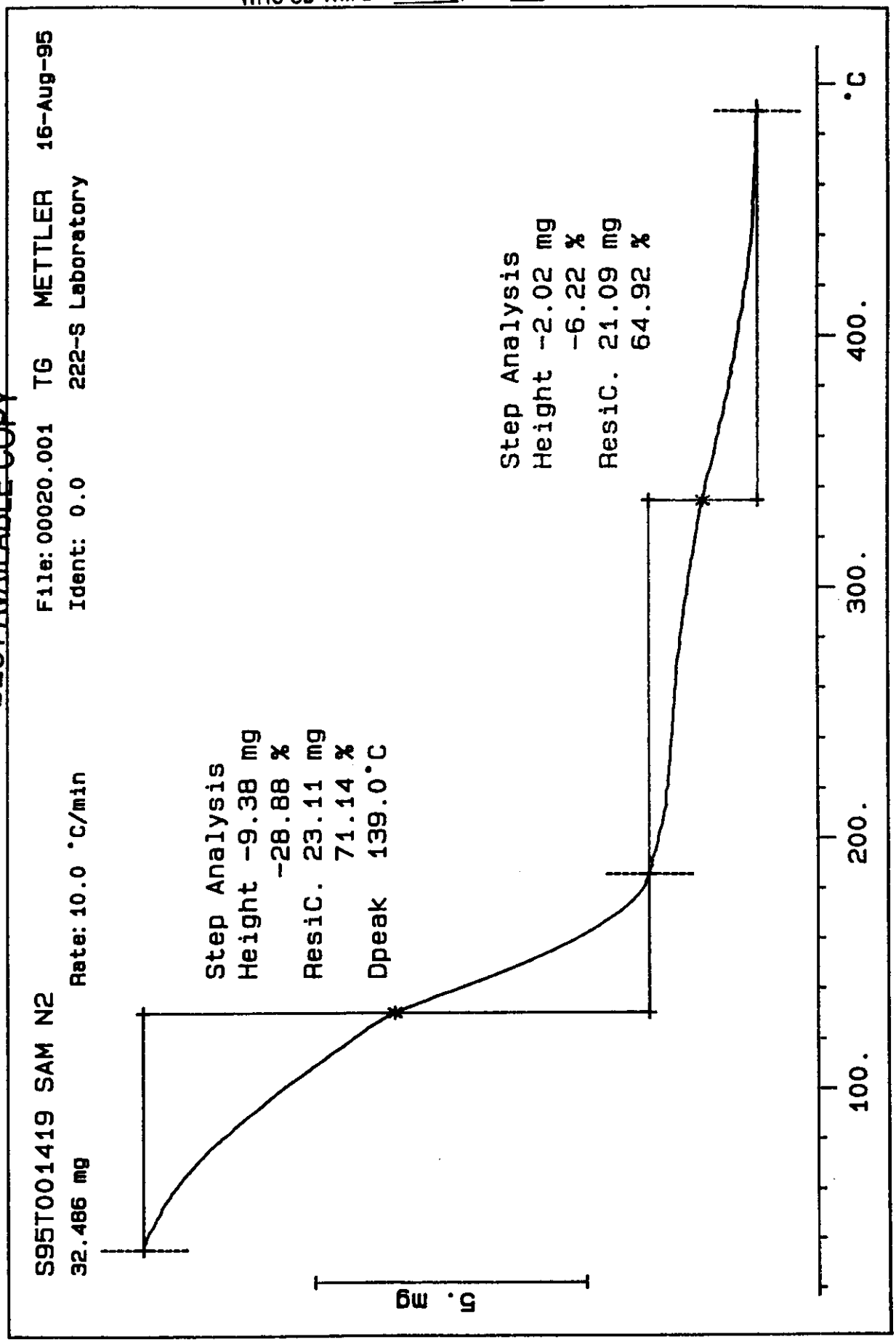
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-168 TO 2-172.

BEST AVAILABLE COPY

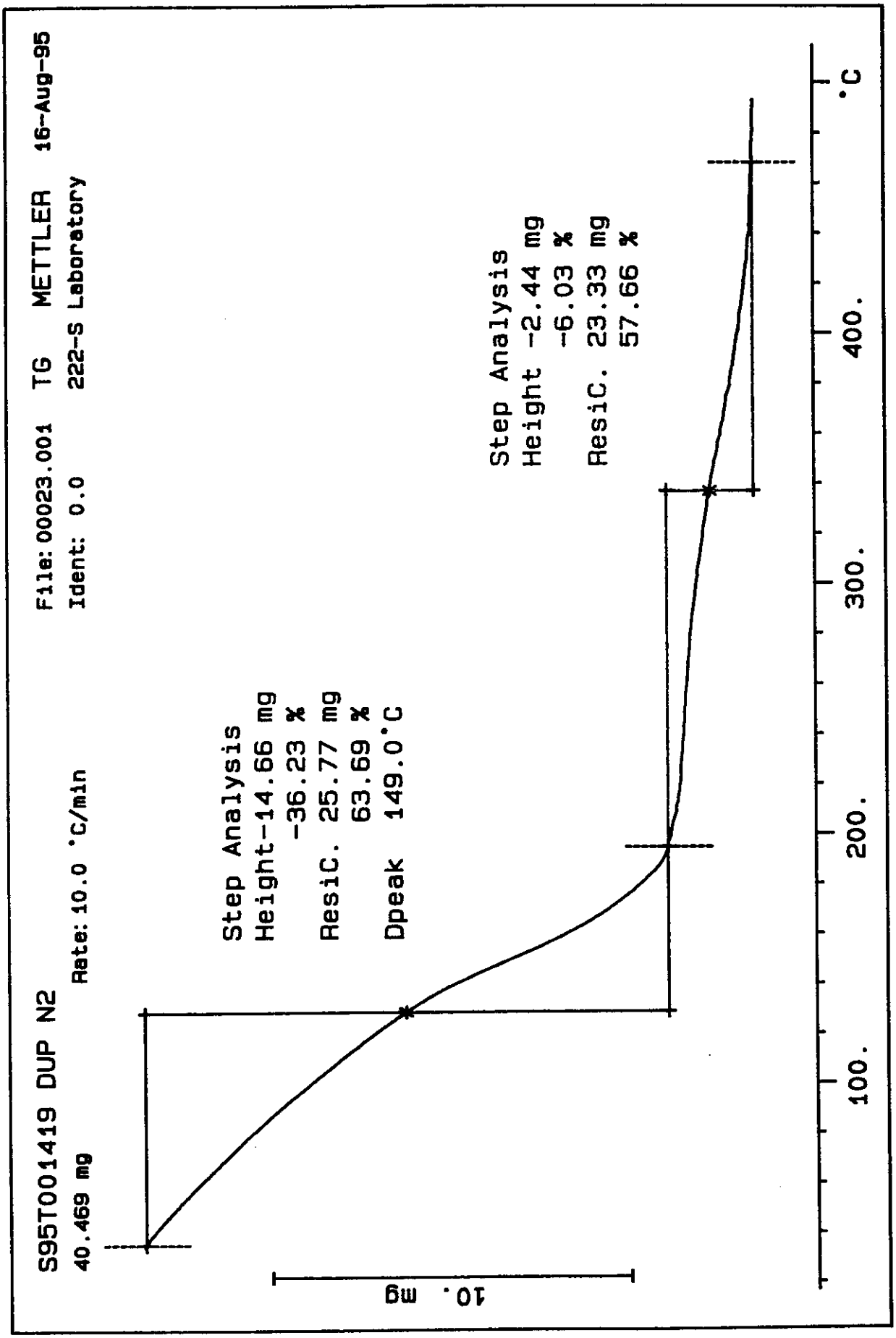


2-168

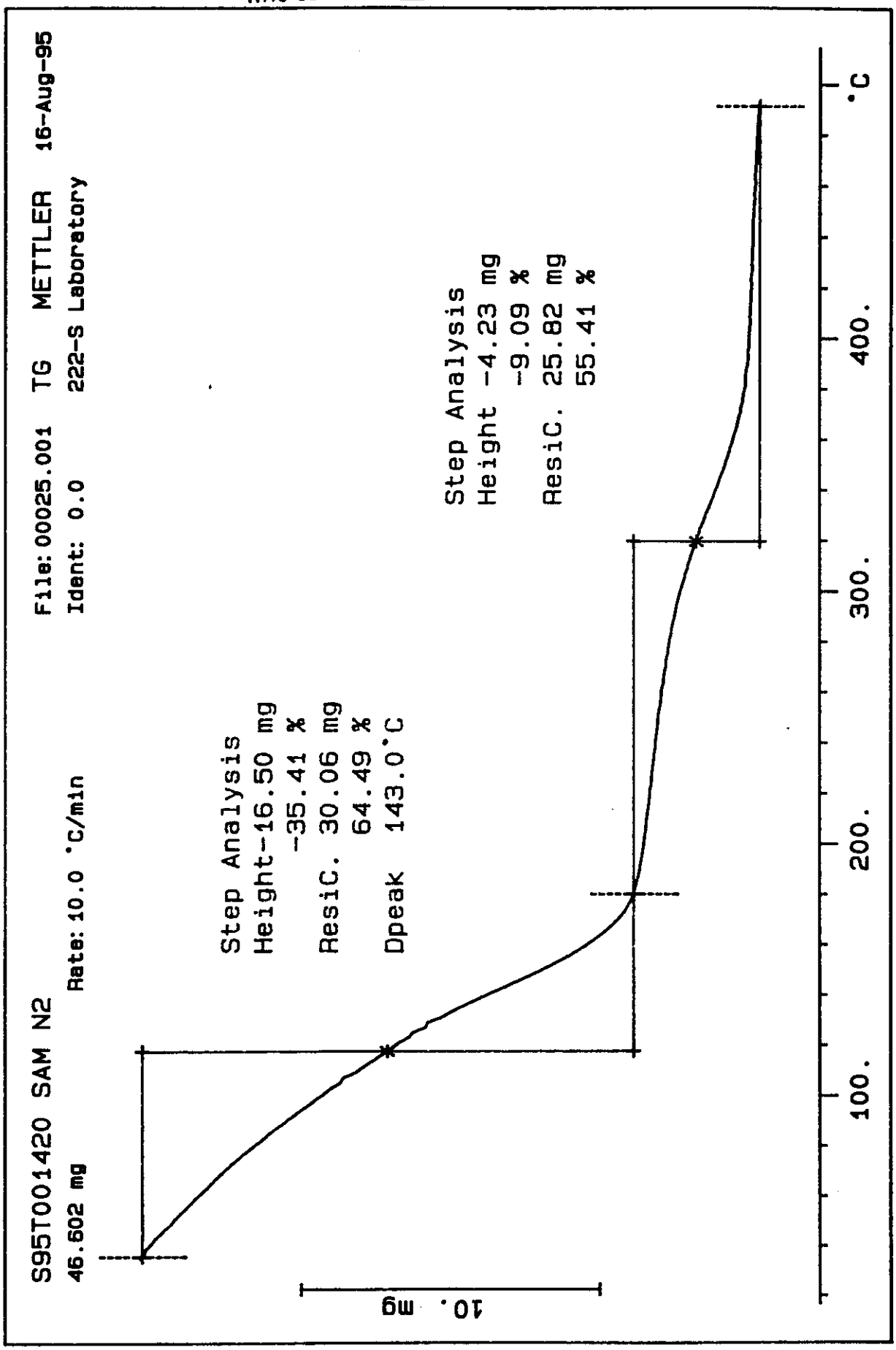
BEST AVAILABLE COPY



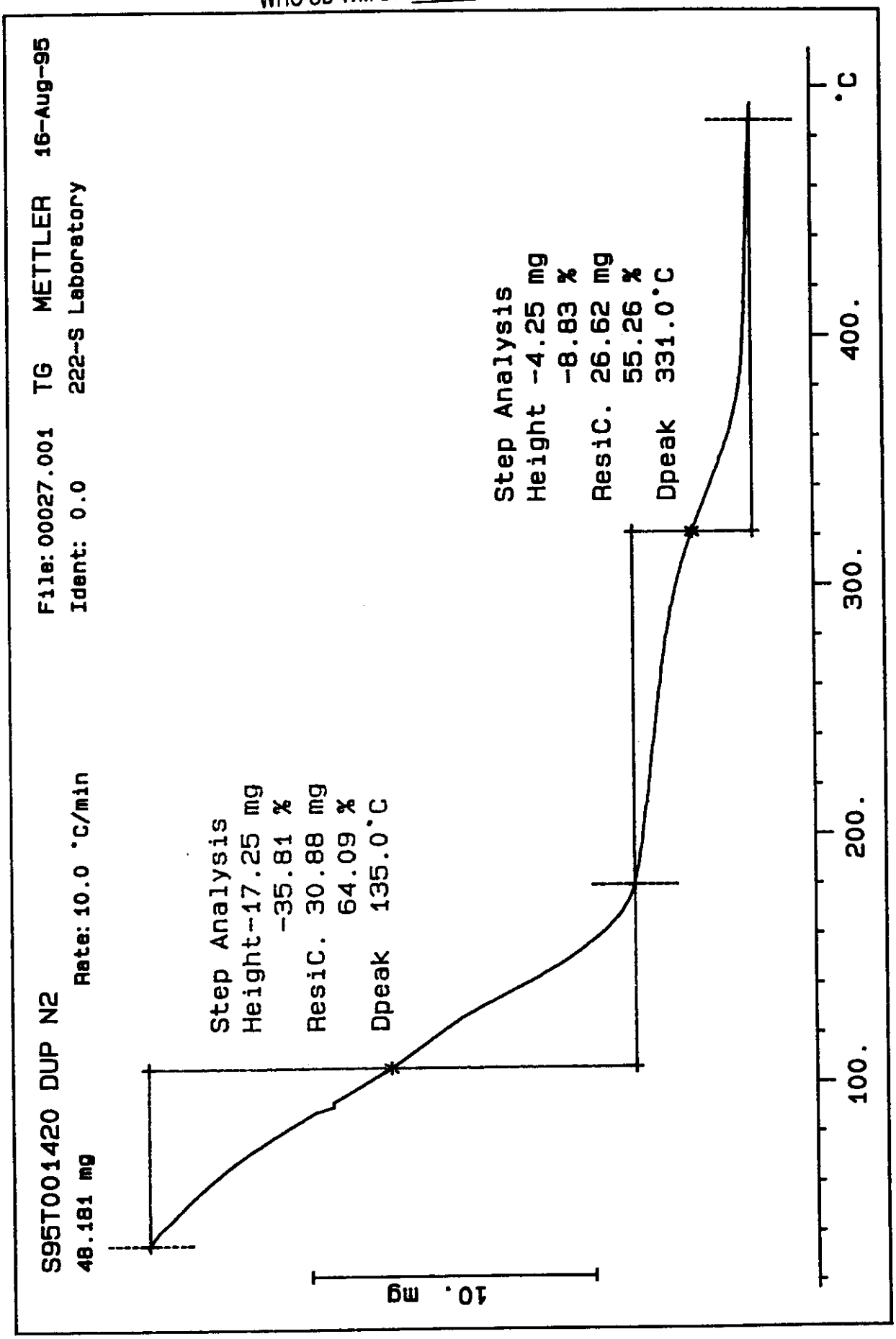
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2028

Analyst: RDM **Instrument:** TGA0 **Book #** 65NB-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdb

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.44	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001419	1		TGA-01	SOLID	N/A	36.64		%
95000104	BY-108 (R)	3	DUP	S95T001419	1		TGA-01	SOLID	36.64	36.69	N/A	%

Final page for worklist # 2028

[signature] 8/22/95
Analyst Signature **Date**

[signature] 8-22-95
Analyst Signature **Date**

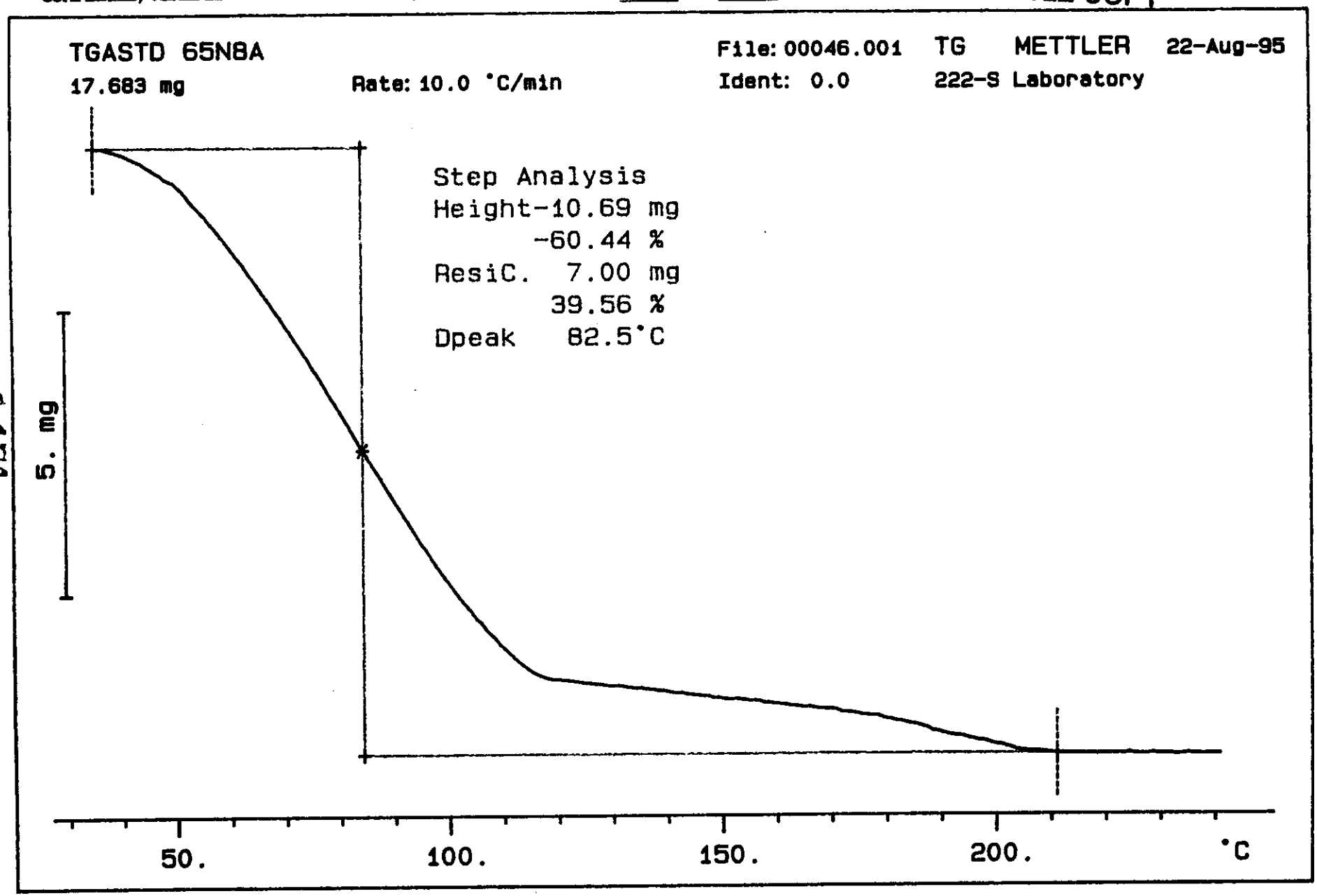
Verified by Blandina Valenzuela
8-28-95

Data Entry Comments: The sample and duplicate were run to an upper temp. limit of 250°C, since ~~we~~ 8-28-95 BDV we are concerned with the RPDS of the water weight loss the chemist did not run to upper temperature limit of 500°C due to ALARA concerns.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-174 TO 2-176.

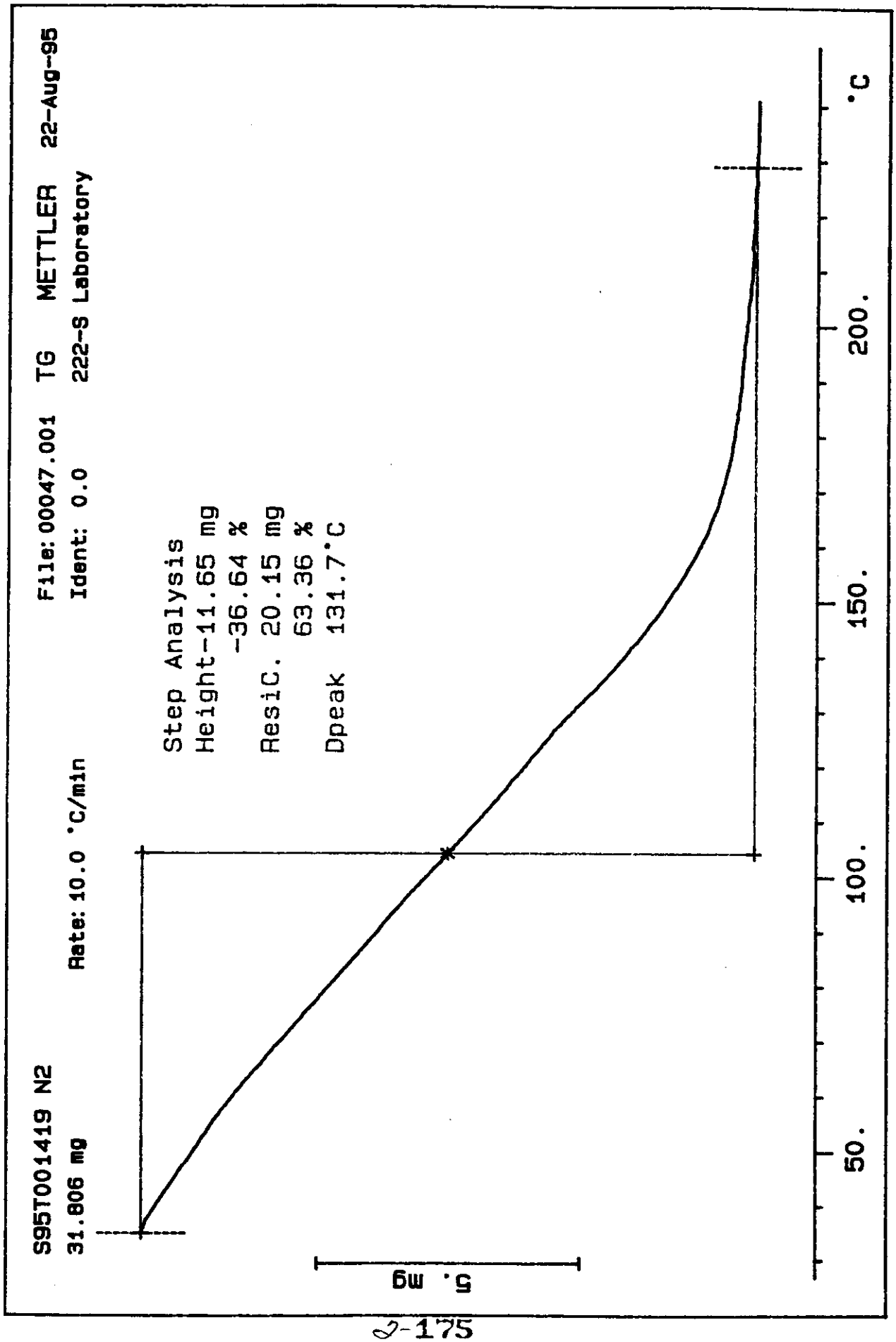
BEST AVAILABLE COPY



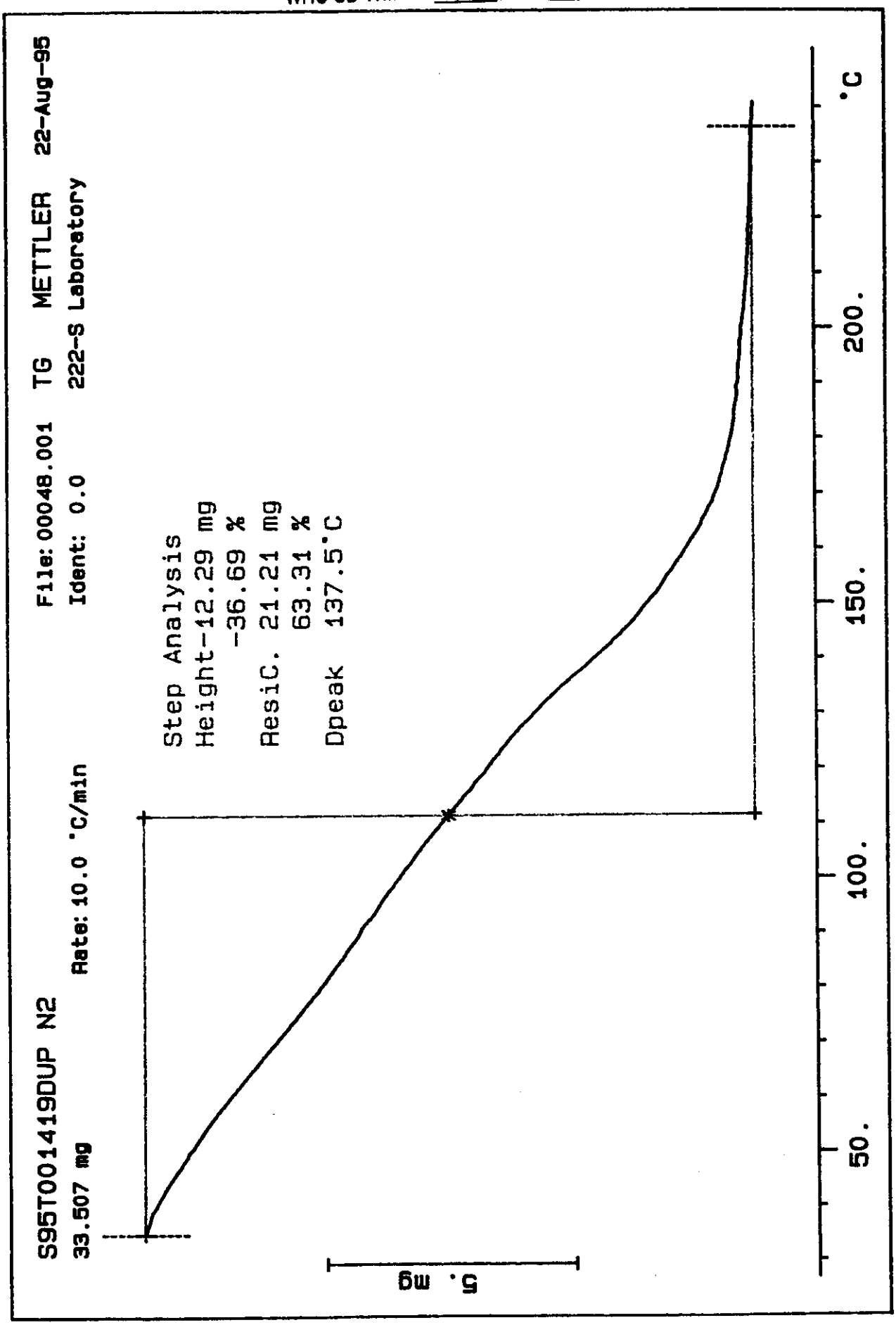
2-174

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2029

Analyst: SMF **Instrument:** TGA0 3 **Book #** 65N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.74	60.41	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001380	0		TGA-03	SOLID	N/A	~~38.17~~ 15.74	gmf 9/5/95	%
95000104	BY-108 (R)	3 DUP	S95T001380	0		TGA-03	SOLID	gmf 9/5/95 ~~38.17~~ 15.74	15.92 ~~39.61~~	gmf 9/5/95 N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001381	0		TGA-03	SOLID	N/A	15.18 ~~42.35~~	gmf 9/5/95	%
95000104	BY-108 (R)	5 DUP	S95T001381	0		TGA-03	SOLID	gmf 9/5/95 ~~42.35~~ 15.18	16.82 ~~43.19~~	gmf 9/5/95 N/A	%

Final page for worklist # 2029

See attached for signatures
Analyst Signature Date 8-21-95 BDV

Analyst Signature Date 8-23-95

Corrected & Verified 9/5/95 J. M. Luye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2029

Analyst: SMF **Instrument:** TGA0 _____ **Book #** 65N87

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001380	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	3 DUP	S95T001380	0		TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001381	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	5 DUP	S95T001381	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2029

Susie M. Fulton 8-19-95

Analyst Signature **Date**

Analyst Signature **Date**

Other instrument was used.

8-21-95

BDV

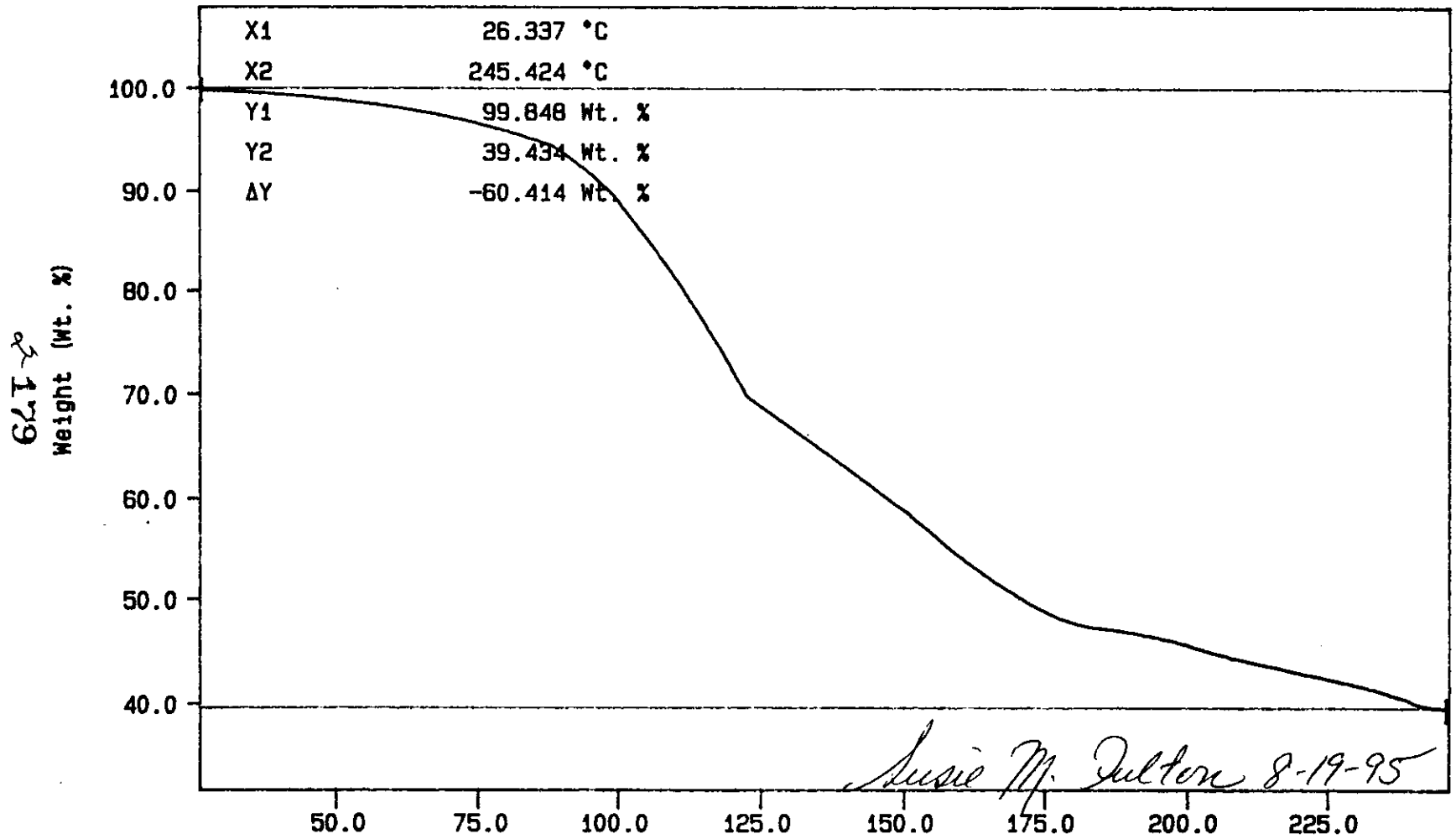
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER081901 Sat Aug 19 08:57:31 1995
Sample Weight: 14.556 mg

65N8-A Terlig
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-179 TO 2-183.

BEST AVAILABLE COPY



Susie M. Fulton 8-19-95

2-179

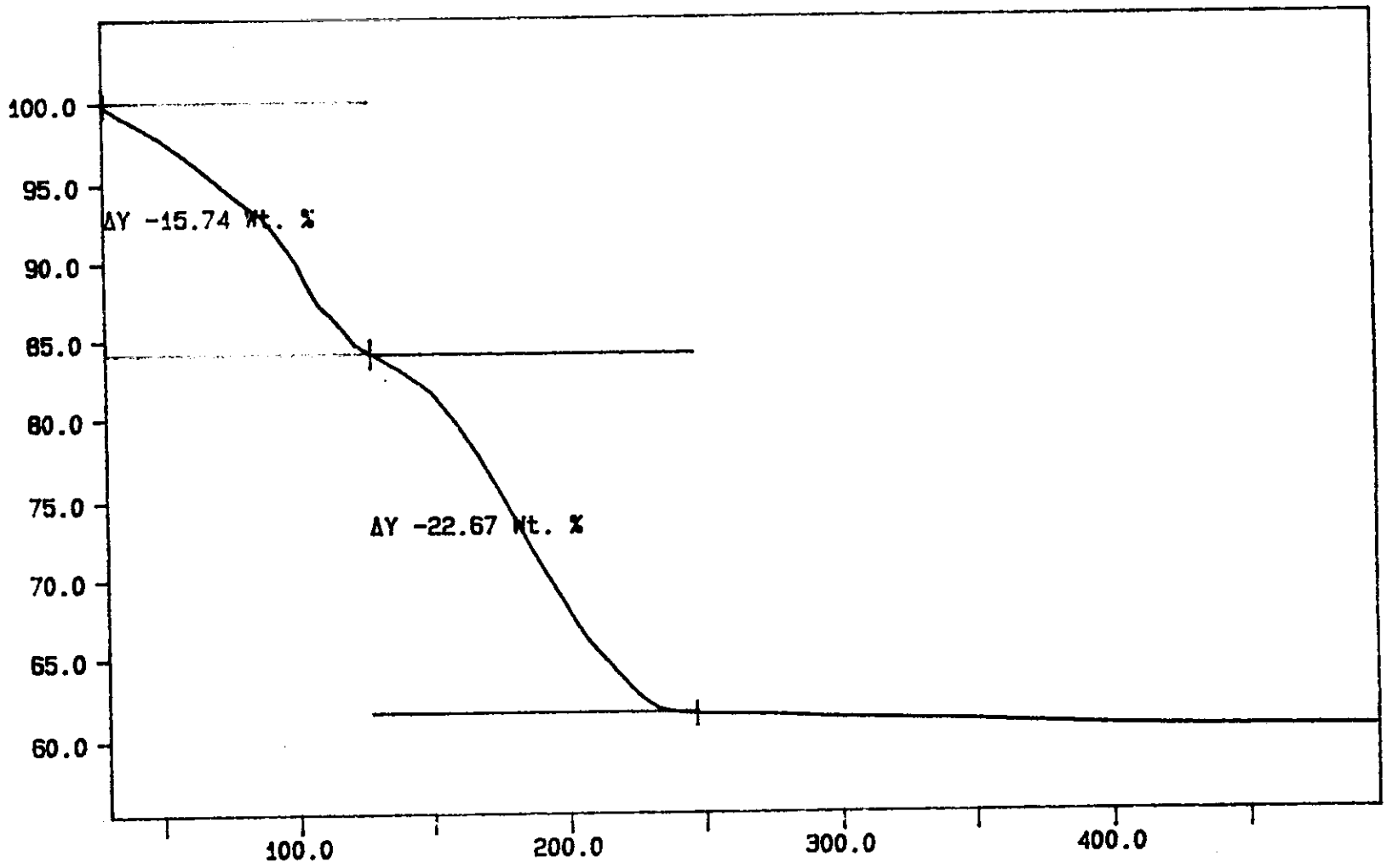
WHC-SD-WM-DP-145, REV. 1

N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Aug 19 09:01:03 1995

Curve 1: TGA
File info: SAM081901 Sat Aug 19 11:10:26 1995
Sample Weight: 14.827 mg
S95T001380 10C/min

BEST AVAILABLE COPY



N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

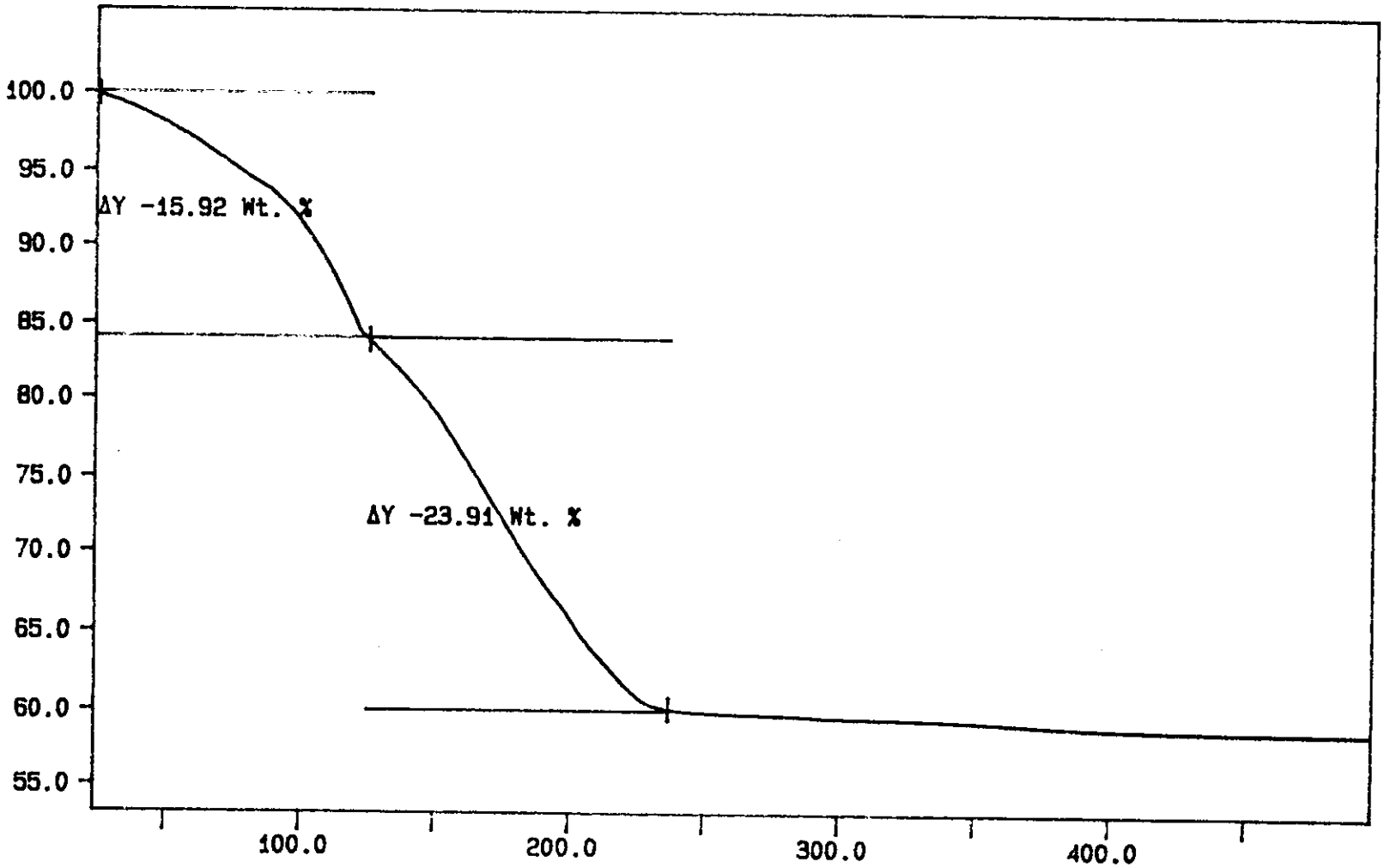
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 10:26:52 1995

2-180

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM081902 Sat Aug 19 12:24:43 1995
Sample Weight: 18.051 mg
S95T001380DUP 10C/min

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

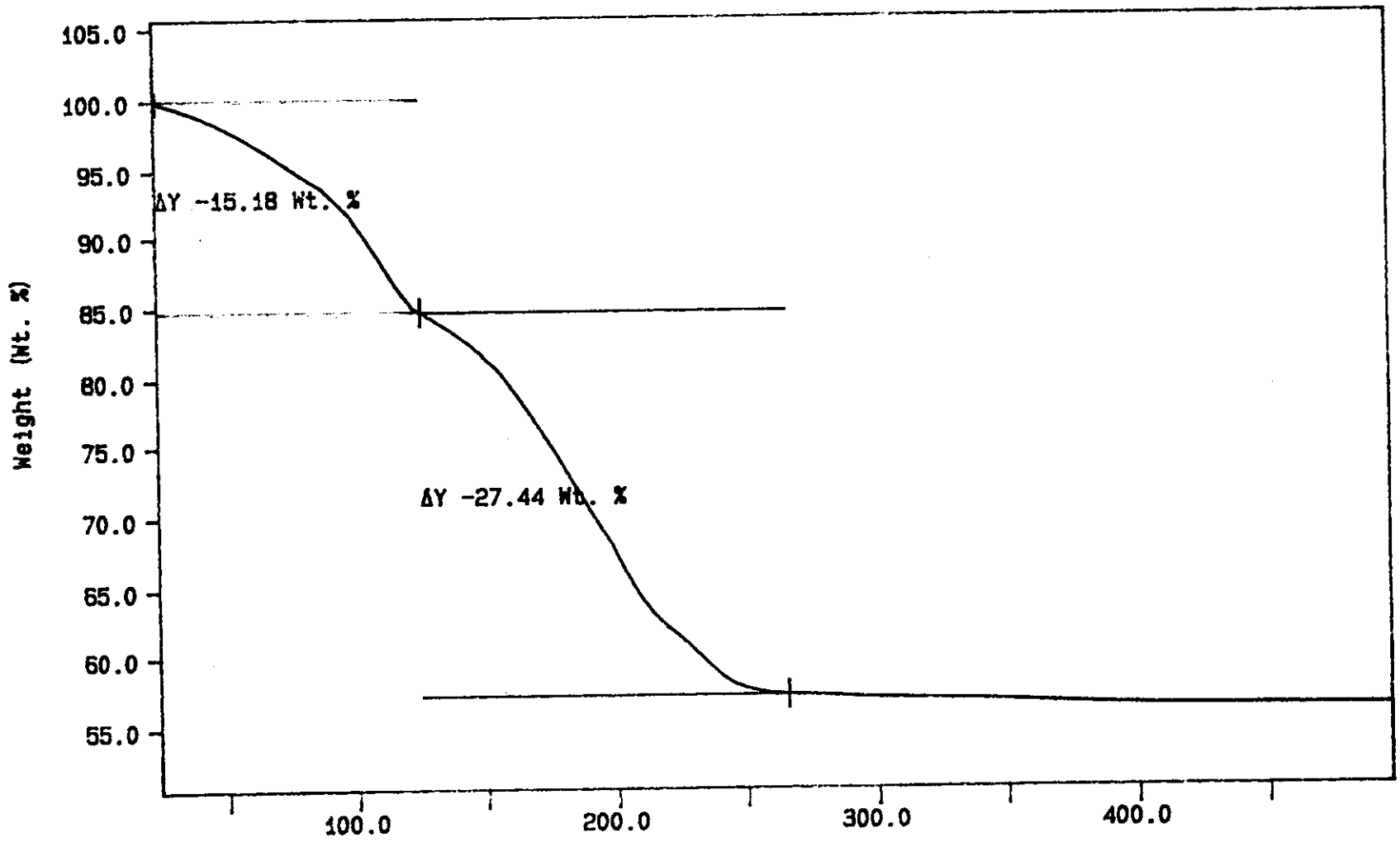
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 10:39:16 1995

C-181

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM081903 Sat Aug 19 14:10:05 1995
Sample Weight: 17.864 mg
S95T001381 10C/min

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

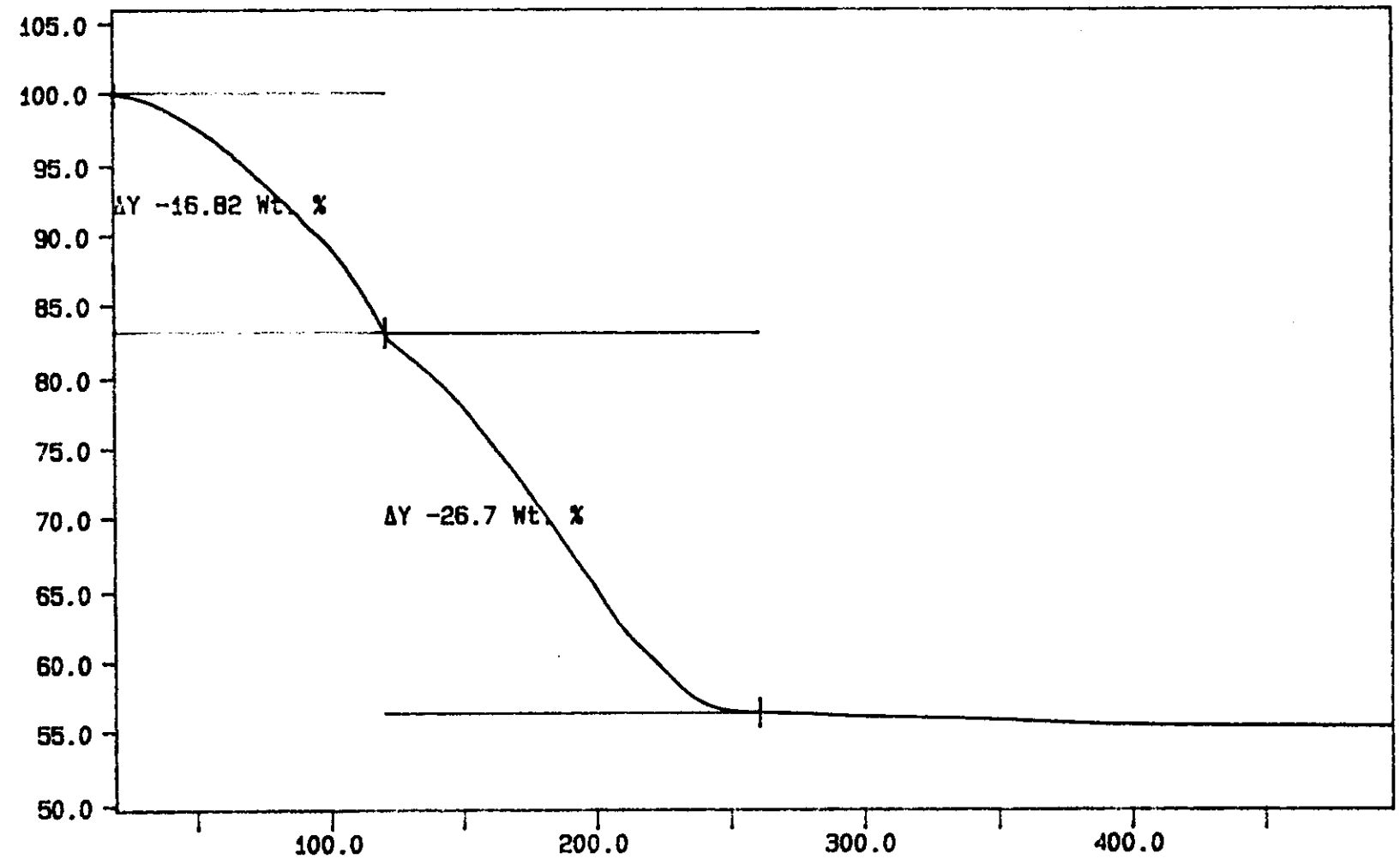
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 13:43:26 1995

2-182

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM081904 Sat Aug 19 15:25:27 1995
Sample Weight: 15.711 mg
S95T001381DUP 10C/min

BEST AVAILABLE COPY



2-183

N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 13:50:07 1995

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2030

Analyst: SMF **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	8-21-95 59.74 ~~60.~~	60.23	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001382	0		TGA-01	SOLID	N/A	39.16		%
95000104	BY-108 (R)	3 DUP	S95T001382	0		TGA-01	SOLID	39.16	39.44	N/A	%

Final page for worklist # 2030

Susie M. Fulton 8/19/95
Analyst Signature **Date**

Analyst Signature **Date** 8-21-95

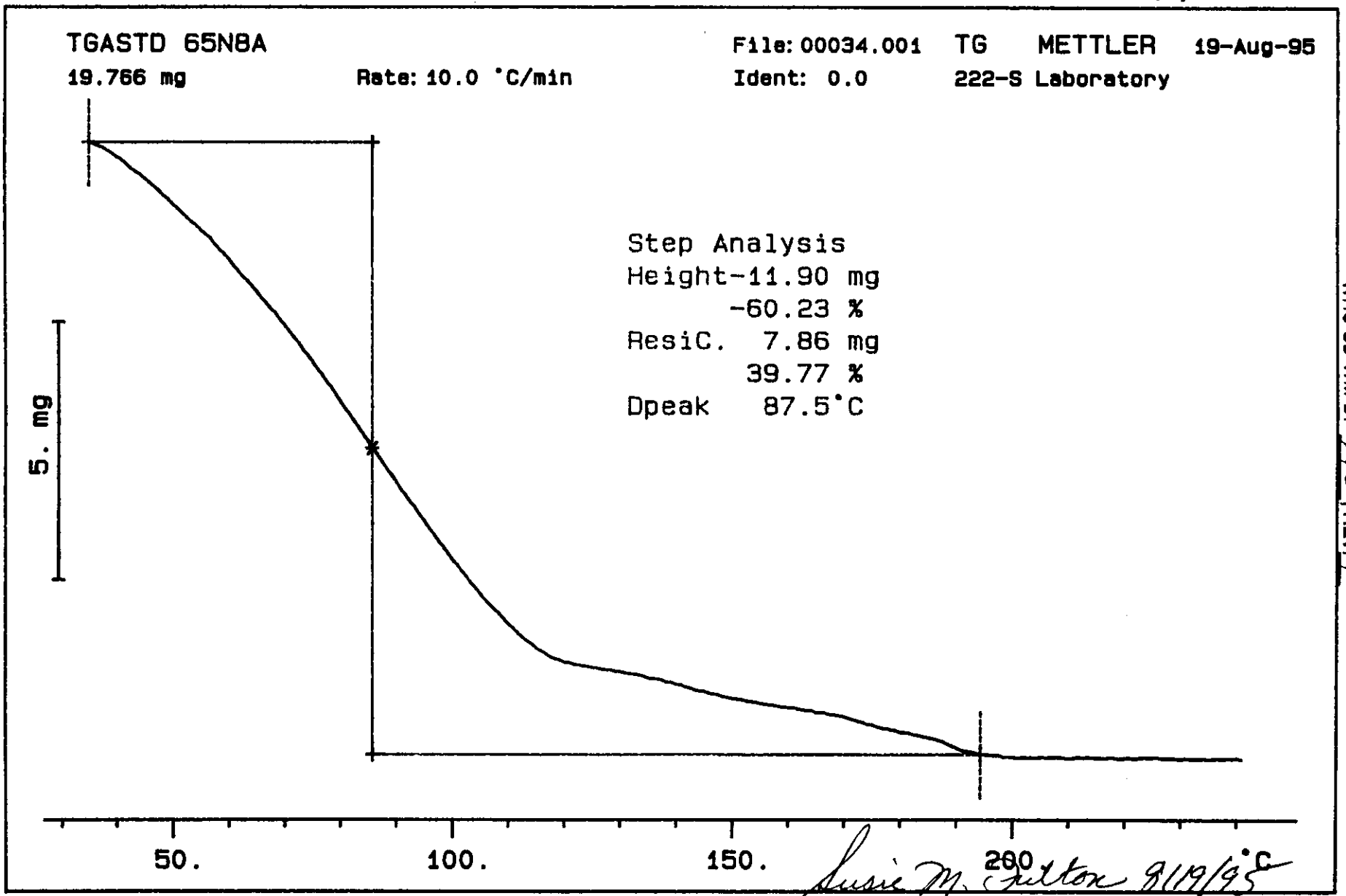
Verified by Blandina Valenzuela 8-21-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

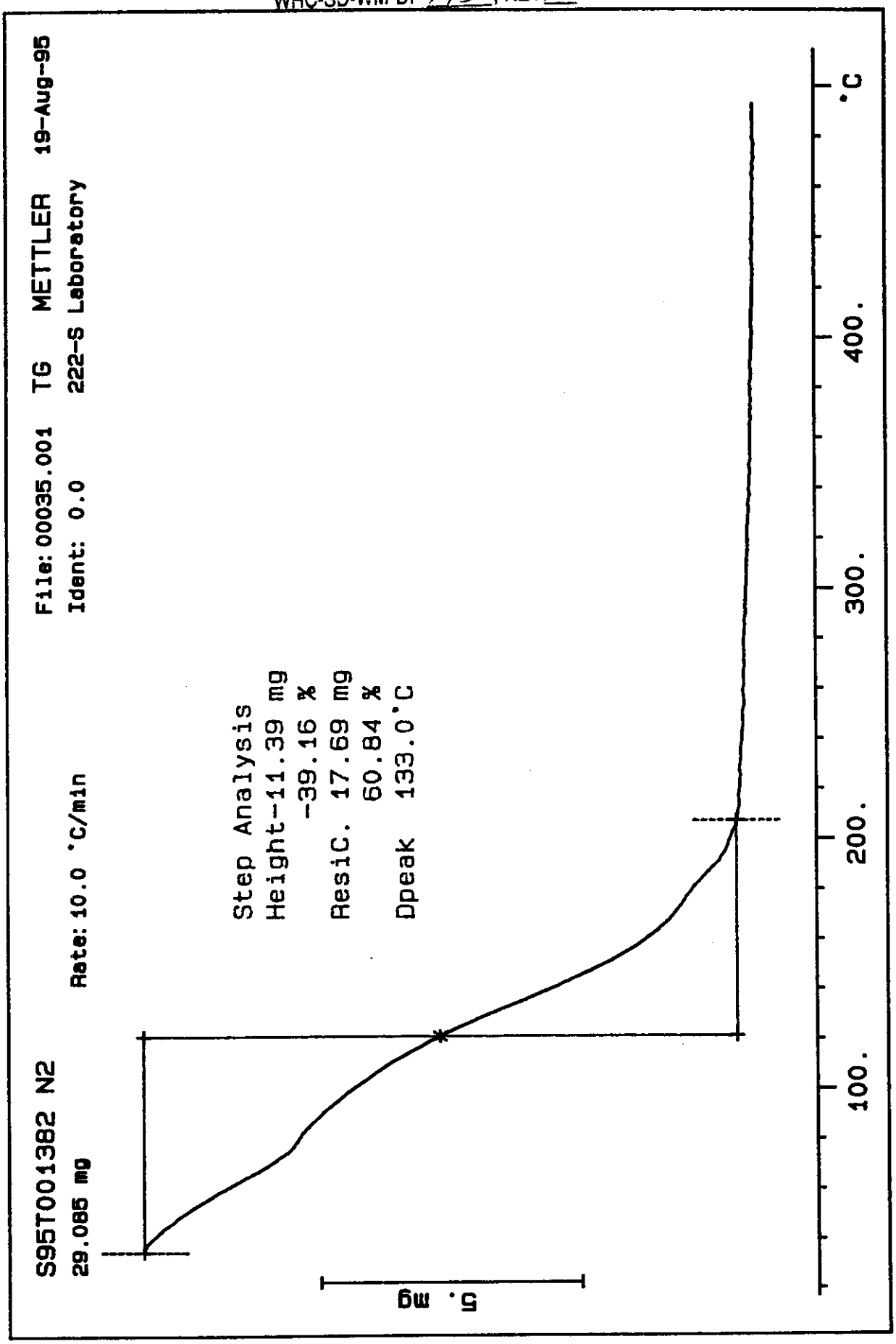
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-185 TO 2-187.

BEST AVAILABLE COPY

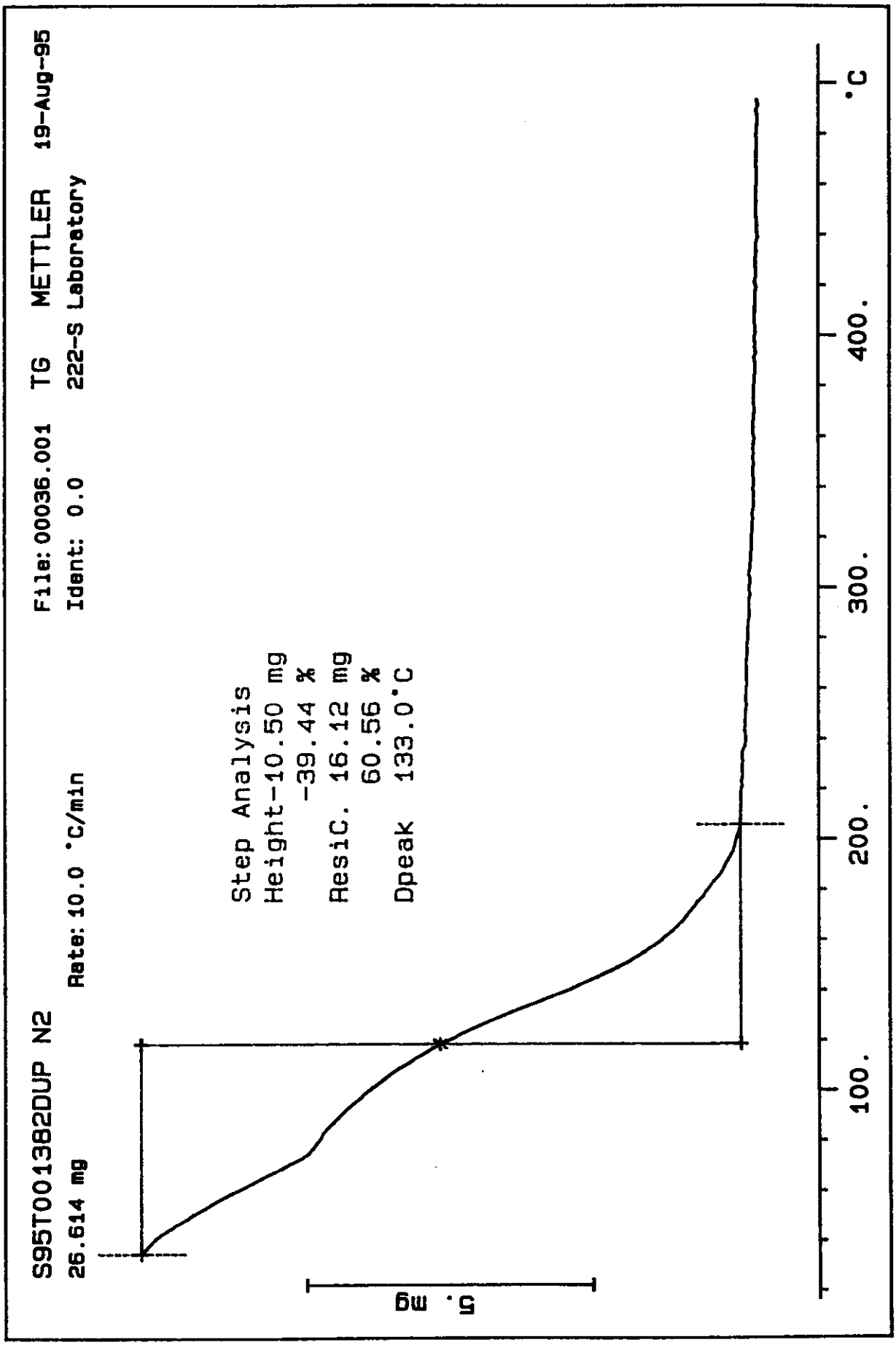


Susie M. Fulton 8/19/95

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2033

Analyst: JDS **Instrument:** TGA0 3 **Book #** 65N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.74	57.60	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001390	0		TGA-03	SOLID	N/A	21.85		%
95000104	BY-108 (R)	3 DUP	S95T001390	0		TGA-03	SOLID	21.85	19.76	N/A	%
		4 STD				TGA-03	SOLID	59.74	57.56	8-24-95 BDV N/A	%
95000104	BY-108 (R)	5 SAMPLE	S95T001407	0		TGA-03	SOLID	N/A	16.31		%
95000104	BY-108 (R)	6 DUP	S95T001407	0		TGA-03	SOLID	16.31	17.58	N/A	%

Final page for worklist # 2033

See attached for signatures
Analyst Signature Date 8-24-95

Verified by Blandina Valenzuela BDV 8-28-95

[signature] 8-24-95
Analyst Signature Date

S95T001390 produced two additional weight loss steps of 16.77% and 13.45% before 250°C

Data Entry Comments: S95T001407 produced one additional weight loss step of 22.45% before 250°C

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2033

Analyst: JDS **Instrument:** TGA0 _____ **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	_____	_____	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001390	0		TGA-01	SOLID	N/A	_____	_____	%
95000104	BY-108 (R)	3	DUP	S95T001390	0		TGA-01	SOLID	_____	_____	N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001407	0		TGA-01	SOLID	N/A	_____	_____	%
95000104	BY-108 (R)	5	DUP	S95T001407	0		TGA-01	SOLID	_____	_____	N/A	%

Final page for worklist # 2033

JDS 8-23-95
Analyst Signature Date

Analyst Signature Date

Other instrument was used 8-24-95 BDV

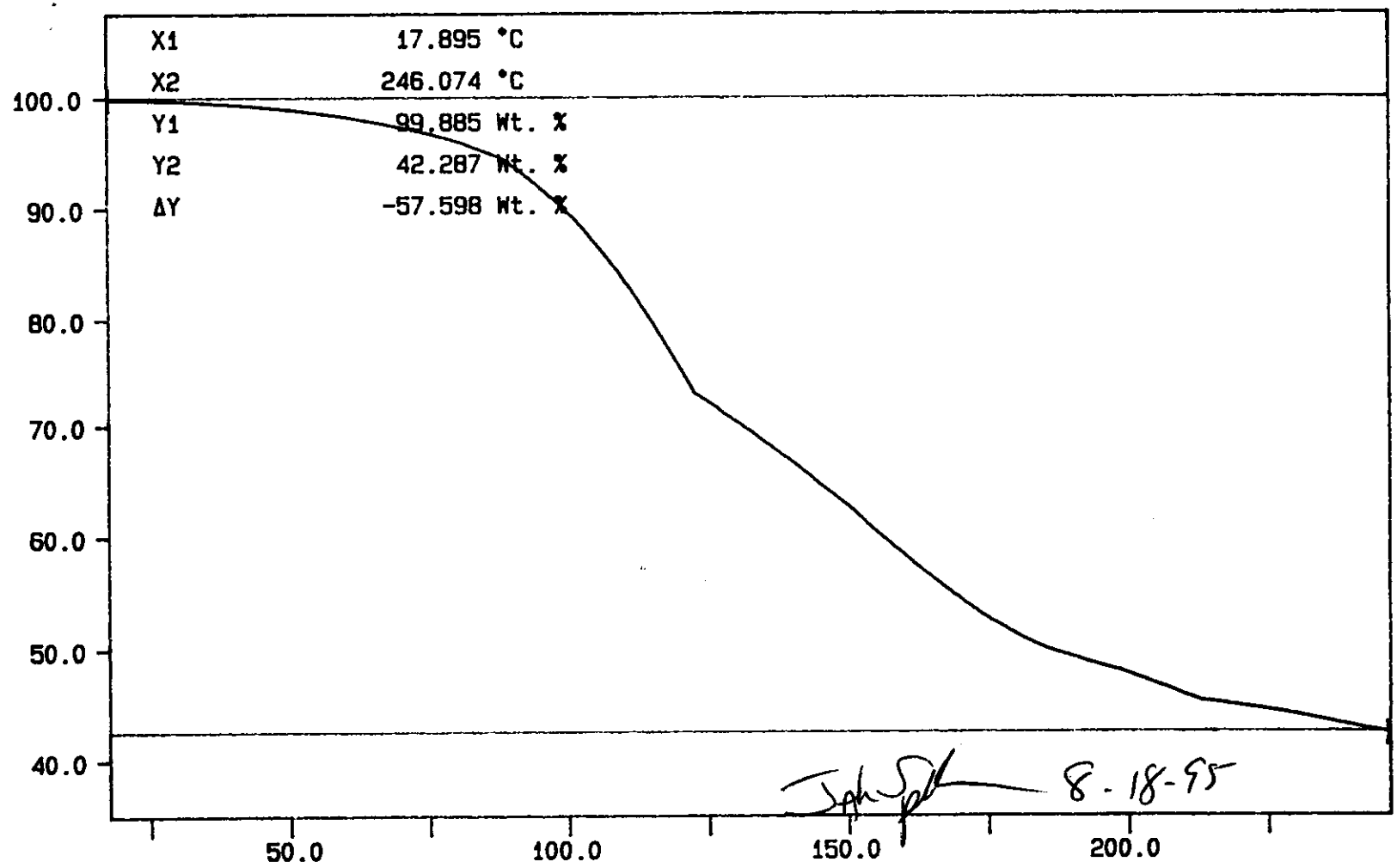
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER081801 Fri Aug 18 09:43:05 1995
Sample Weight: 16.603 mg
65N8-A Teclig

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-190 TO 2-195.

BEST AVAILABLE COPY



8-18-95

N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

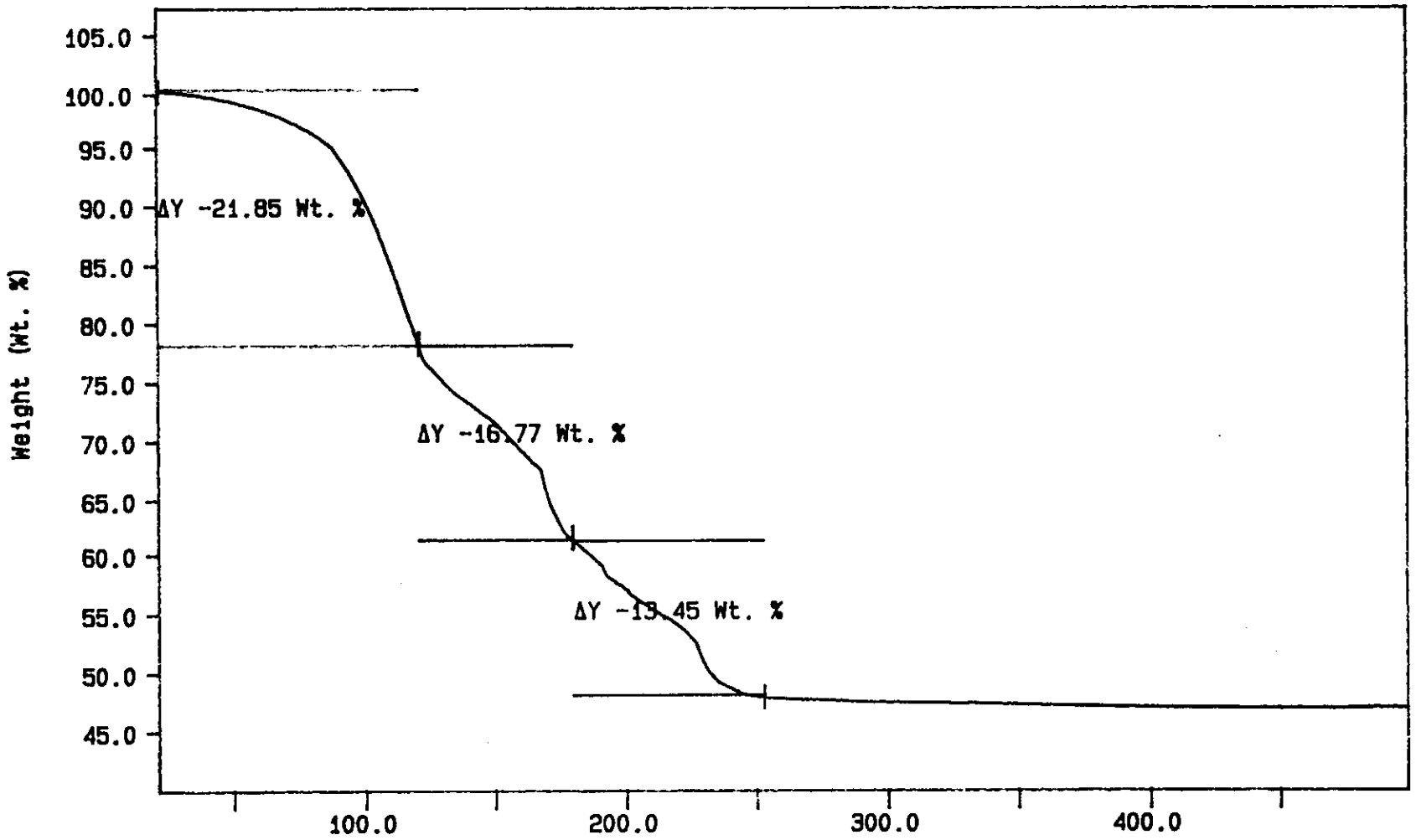
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Aug 18 10:25:43 1995

2-190

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM081801 Fri Aug 18 11:21:19 1995
Sample Weight: 15.720 mg
S95T001390 SAM N2

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

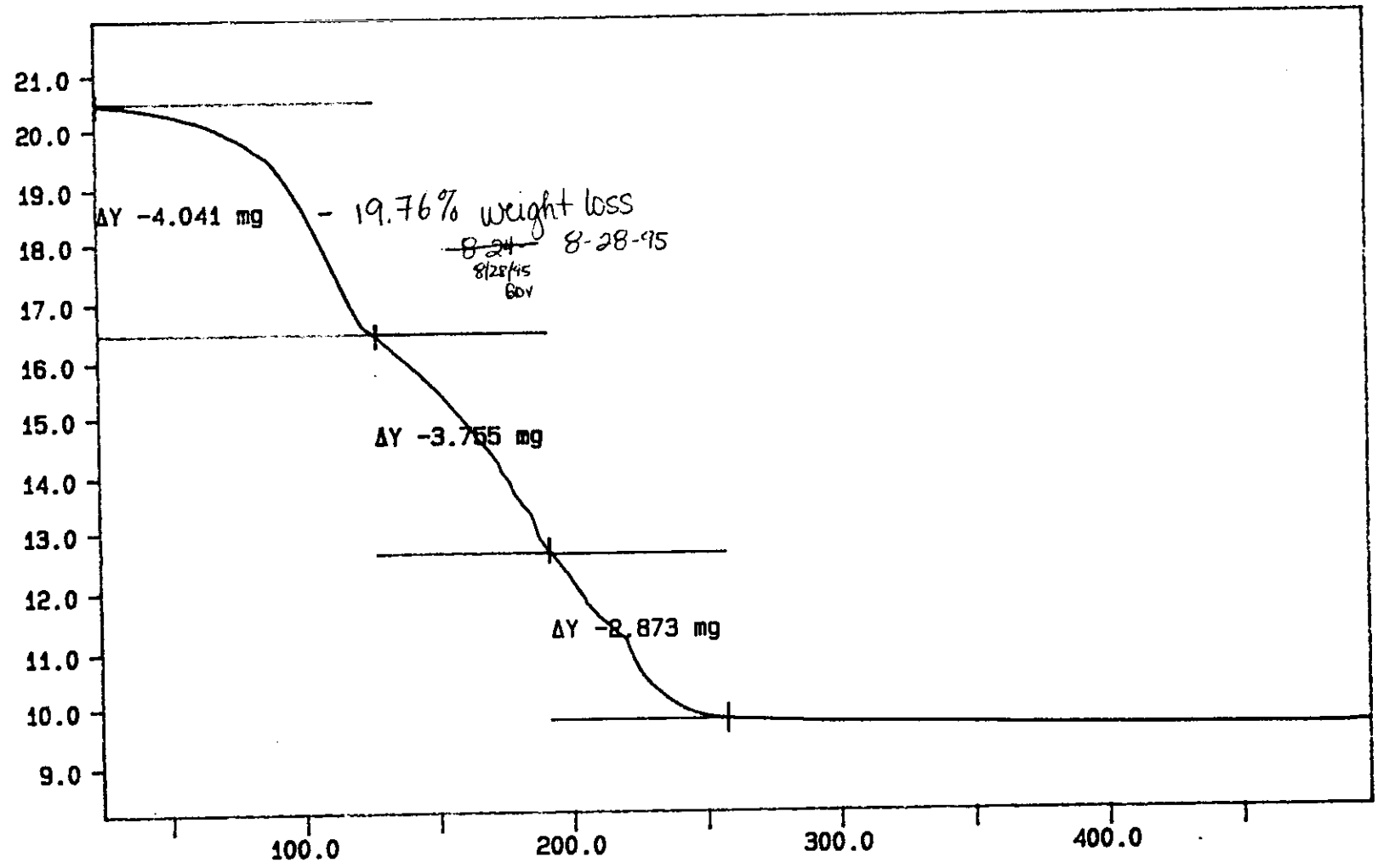
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 24 11:50:05 1995

2-191

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM081802 Fri Aug 18 13:49:37 1995
Sample Weight: 20.453 mg
S95T001390 DUP

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

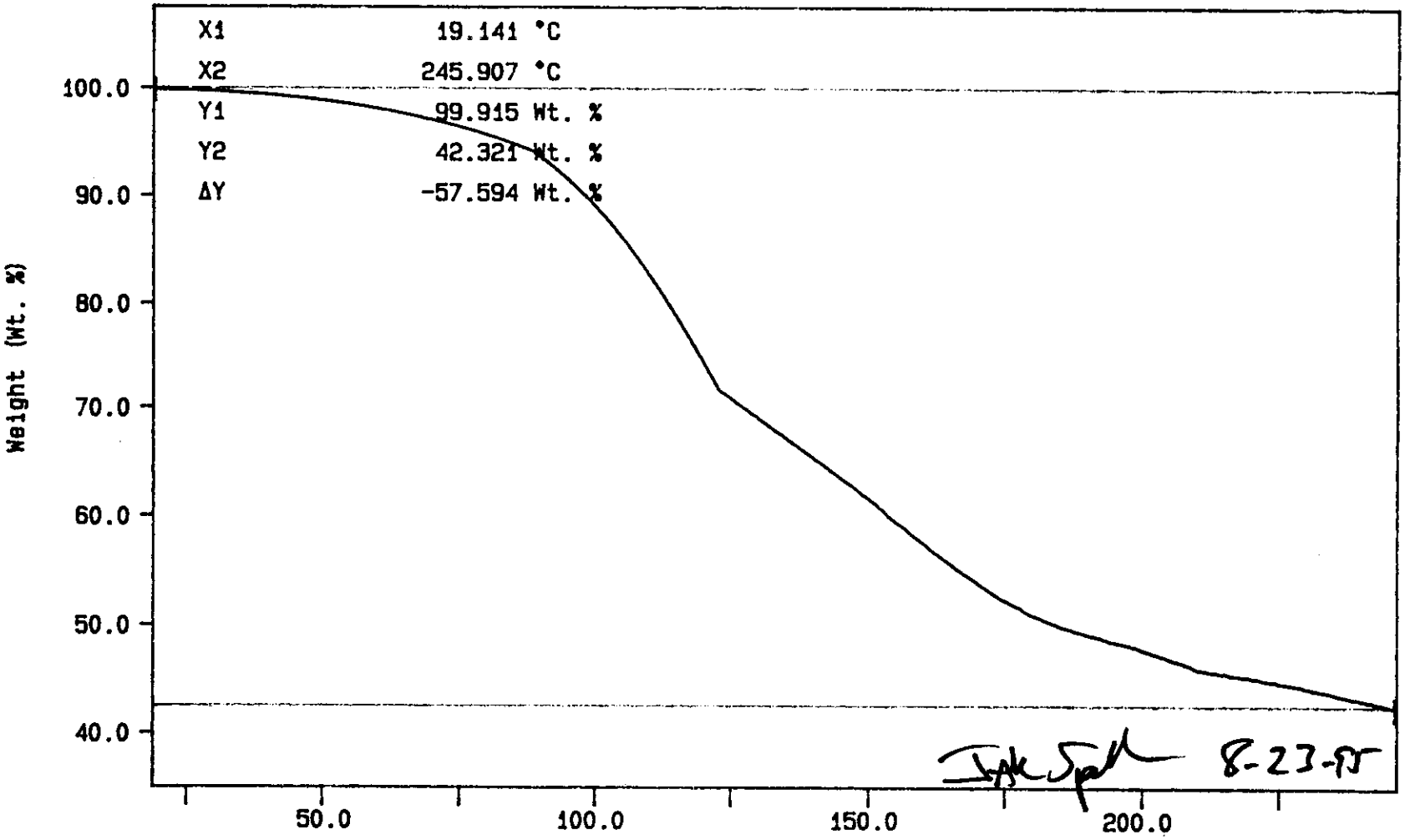
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 24 12:14:28 1995

2-192

WHC-SD-WM-DP-142, REV. 1

Curve 1: TGA TER082301
File info: ~~IND082301~~ Wed Aug 23 08:54:21 1995
Sample Weight: 17.856 mg
65N8-A Terliq

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 250.0 C

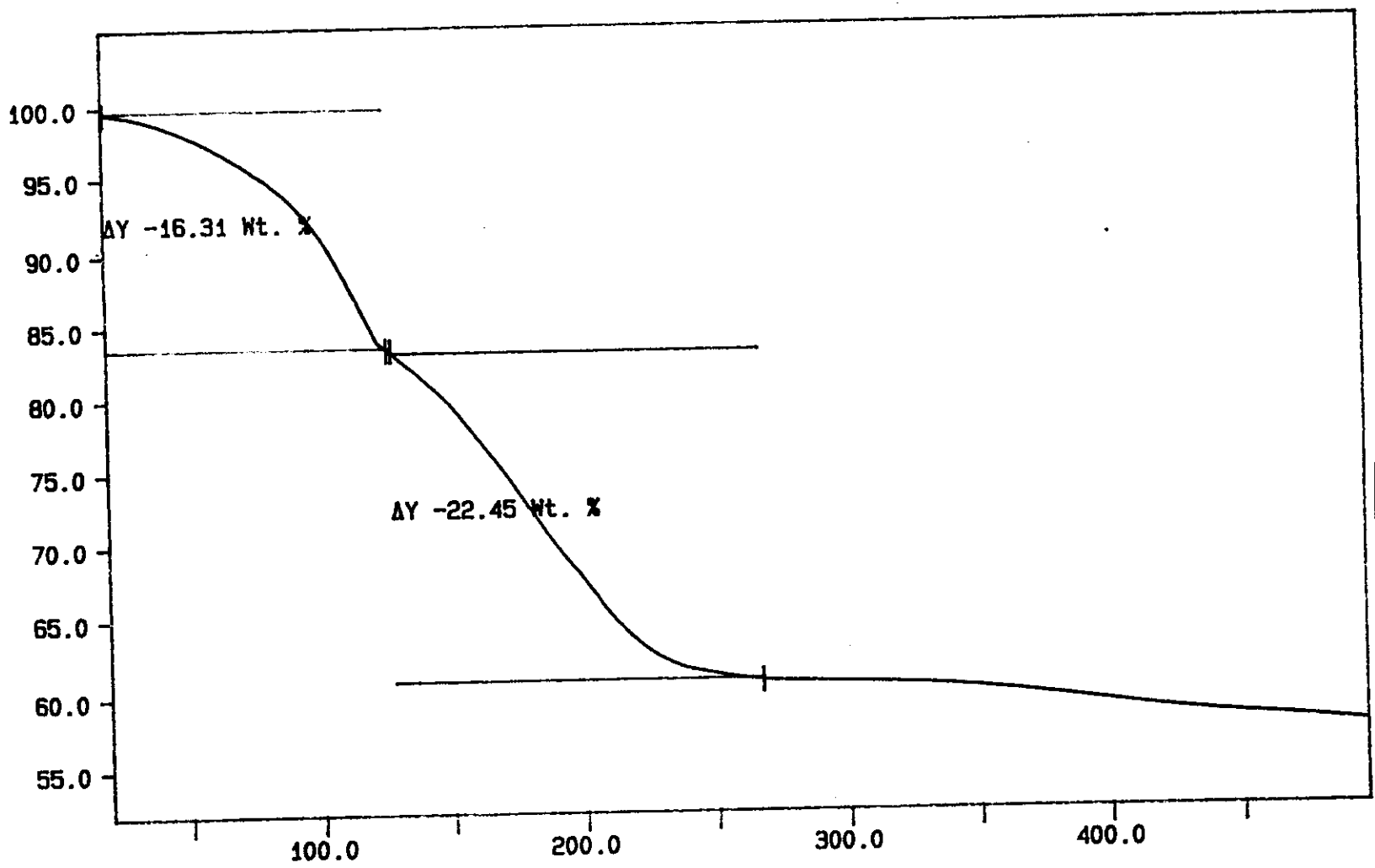
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 23 11:02:17 1995

WHC-SD-WM-DP-145, REV. 1

2-193

Curve 1: TGA
File info: SAM082301 Wed Aug 23 13:03:23 1995
Sample Weight: 19.261 mg
S95T001407 SAM

BEST AVAILABLE COPY



2194

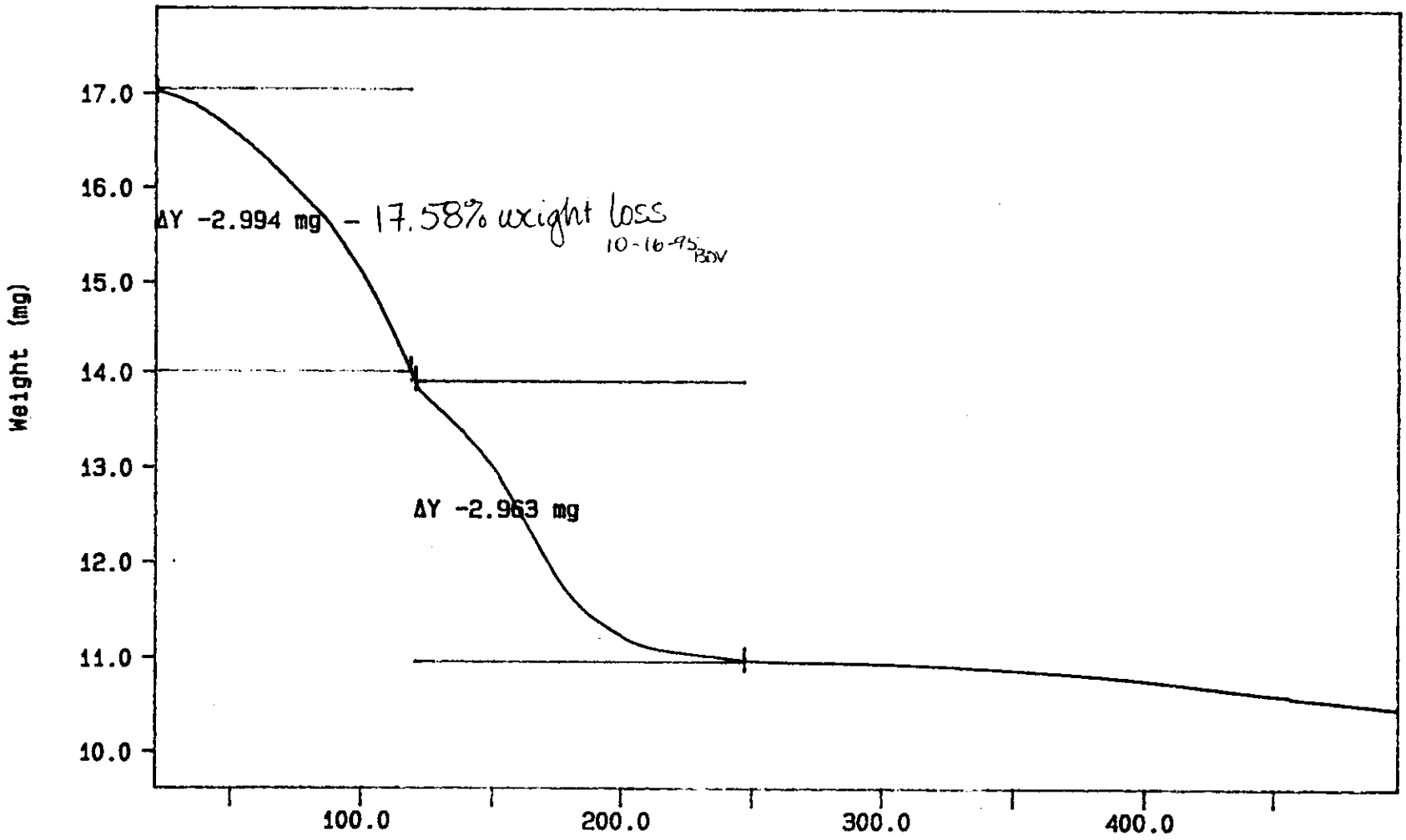
WHC-SD-WM-DP-145, REV. 1

N2 10C/MIN
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 24 12:56:52 1995

Curve 1: TGA
File info: SAM082302 Wed Aug 23 14:44:21 1995
Sample Weight: 17.046 mg
S95T001407 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 24 12:51:51 1995

3-195

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2034

Analyst: SMF **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.51	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001408	0		TGA-01	SOLID	N/A	37.28	8-21-95 BDV	%
95000104	BY-108 (R)	3	DUP	S95T001408	0		TGA-01	SOLID	37.28	36.093	N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001409	0		TGA-01	SOLID	N/A	37.47		%
95000104	BY-108 (R)	5	DUP	S95T001409	0		TGA-01	SOLID	37.47	37.91	N/A	%

Final page for worklist # 2034

S M Fulton 8-20-95
Analyst Signature **Date**

Verified by for Blandina Valenzuela 8-21-95 8-21-95 BDV

L J James 8-21-95
Analyst Signature **Date**

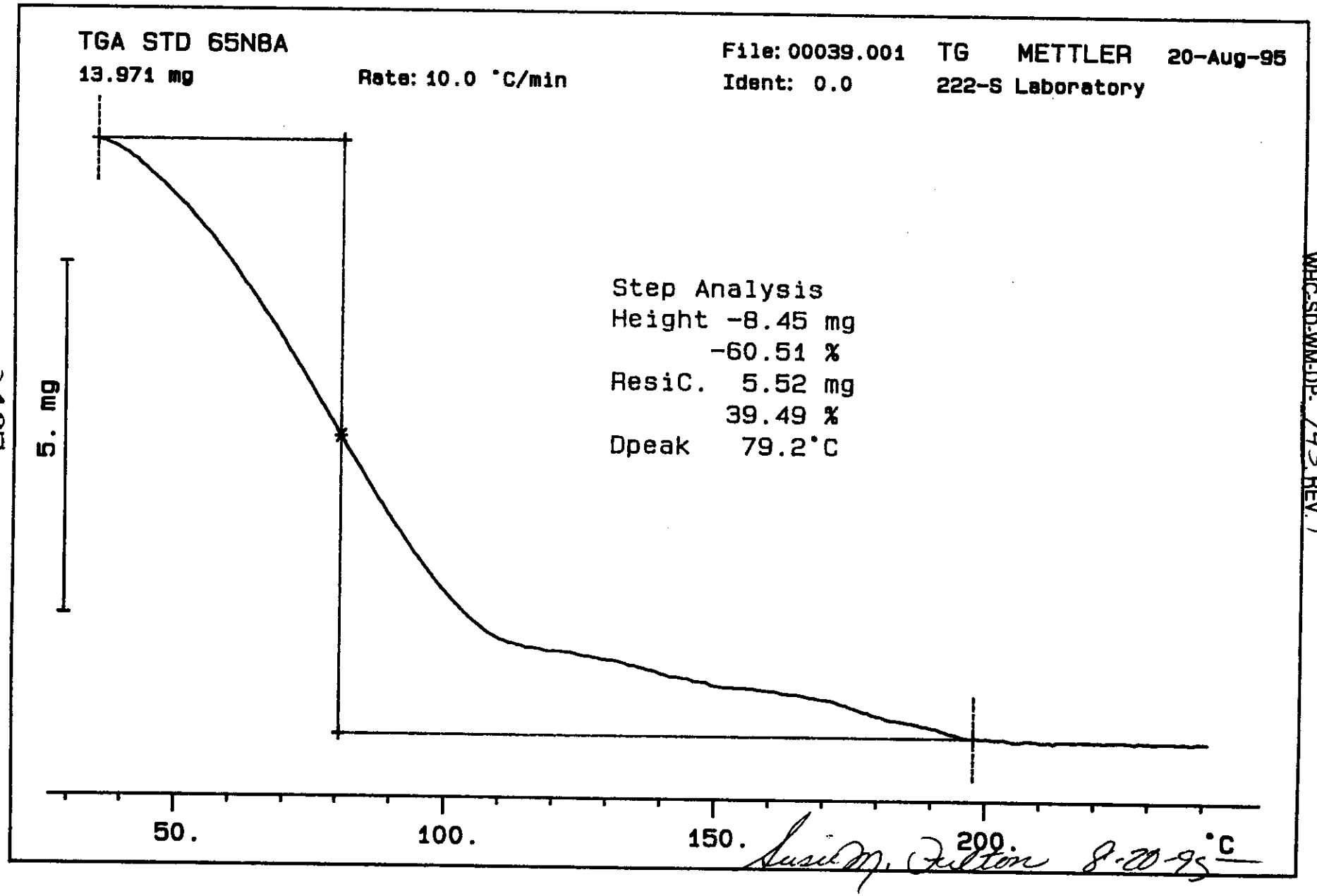
S95T001408 produced a second weight loss step of 5.26% at approximately 340°C

Data Entry Comments: ~~S95T001409 produced a~~ 8-20-95 BDV

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-197 TO 2-201.

BEST AVAILABLE COPY

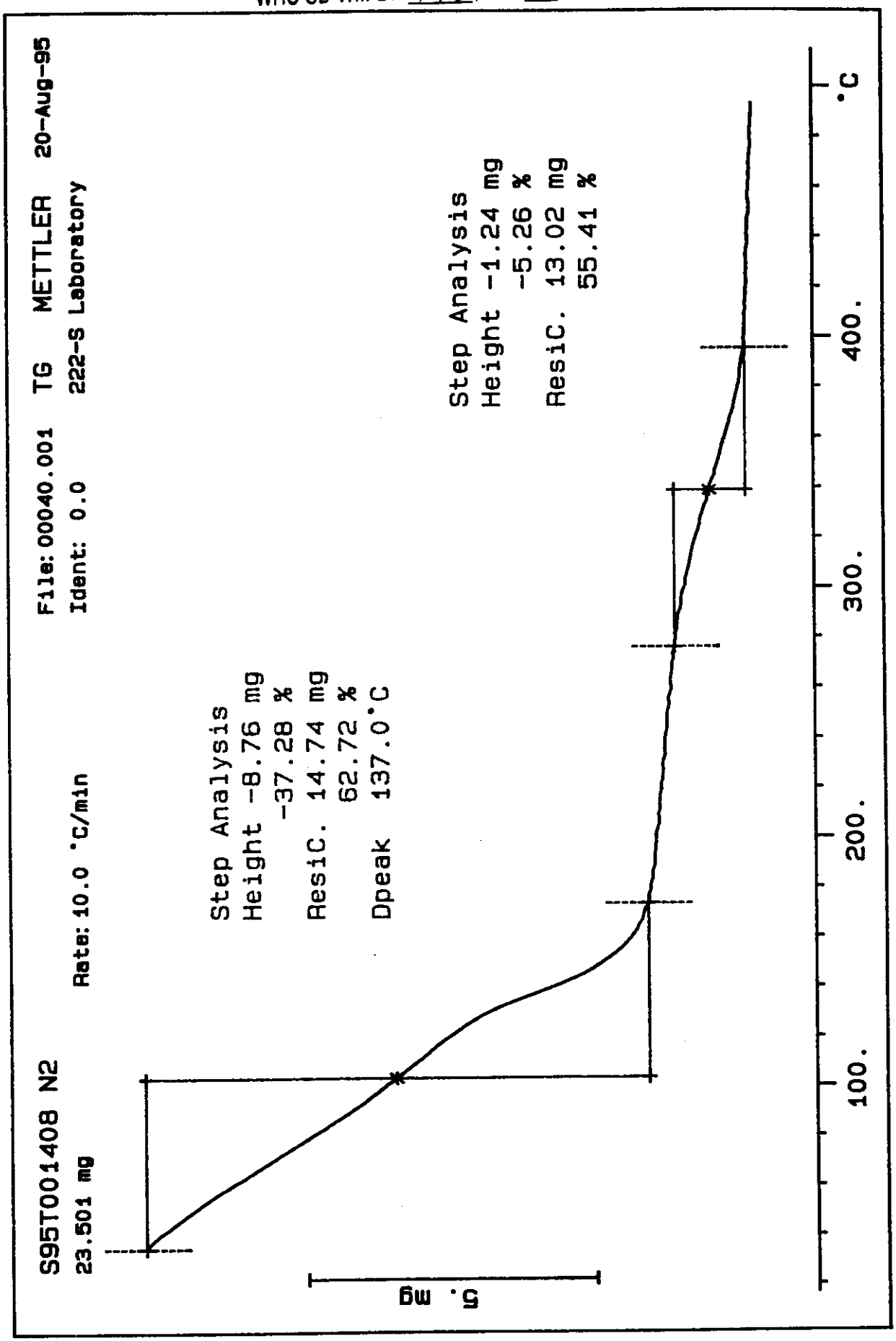


Susie M. Fulton 8-20-95

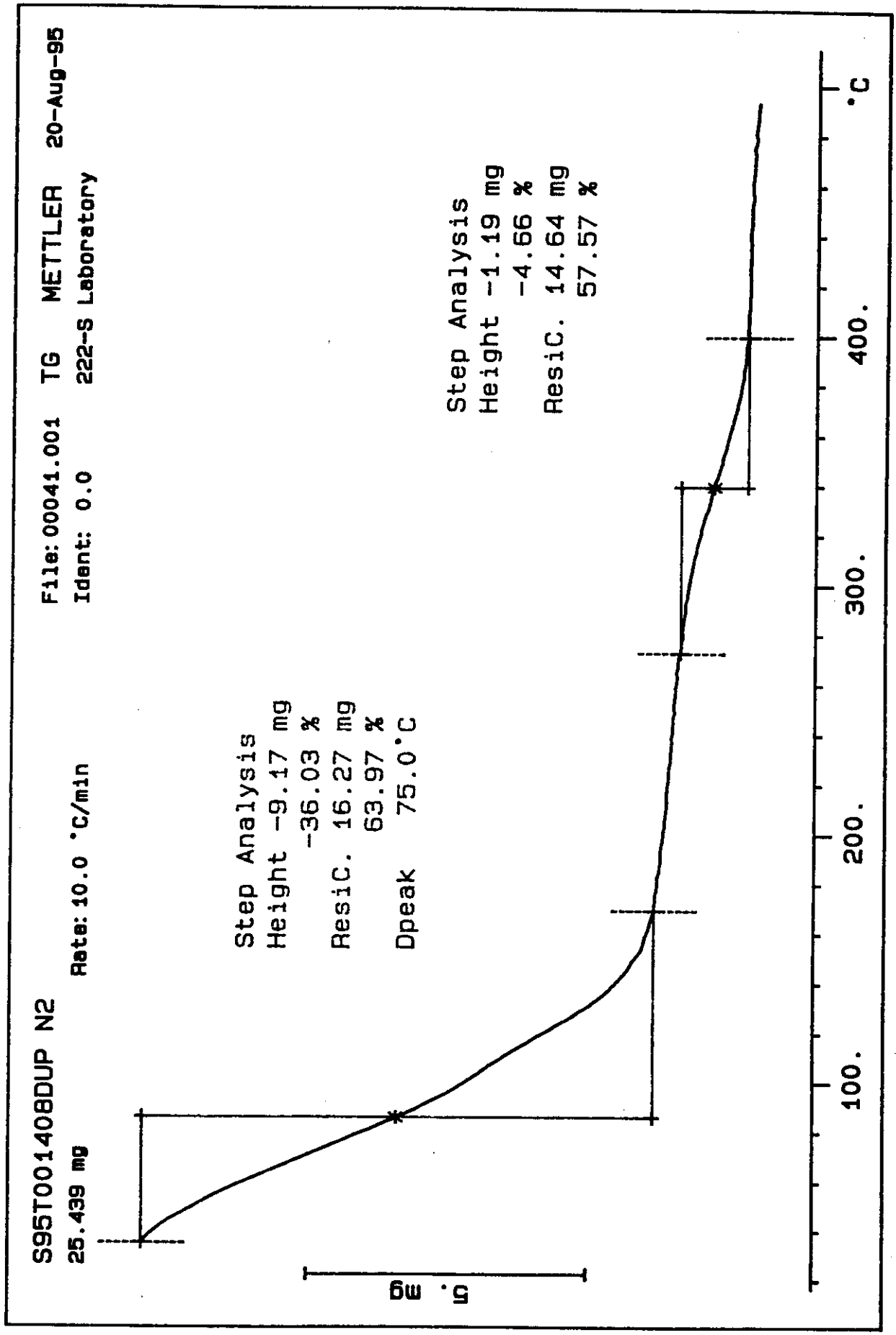
2-197

WHC-SD-WM-DP-145, REV. 1

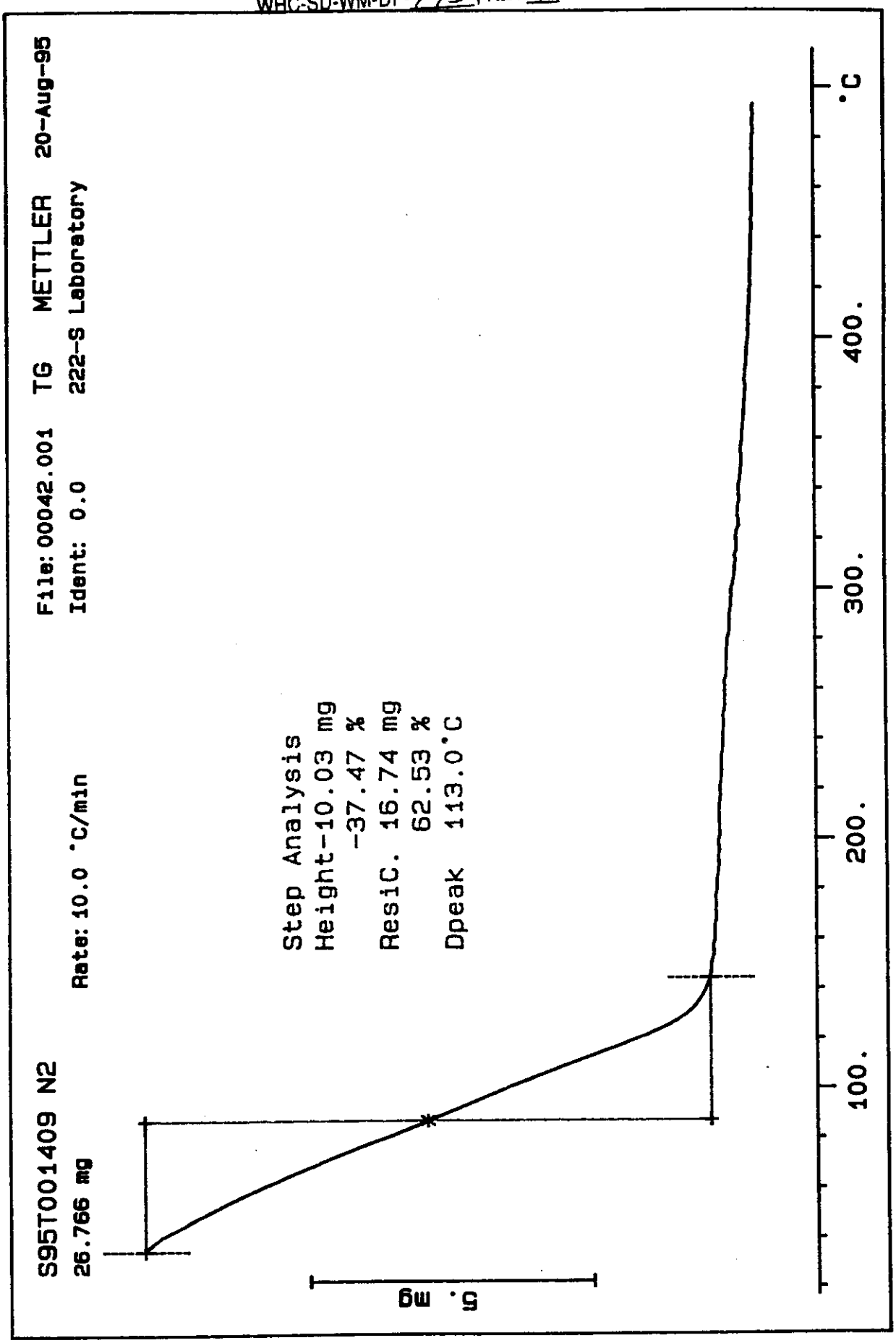
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



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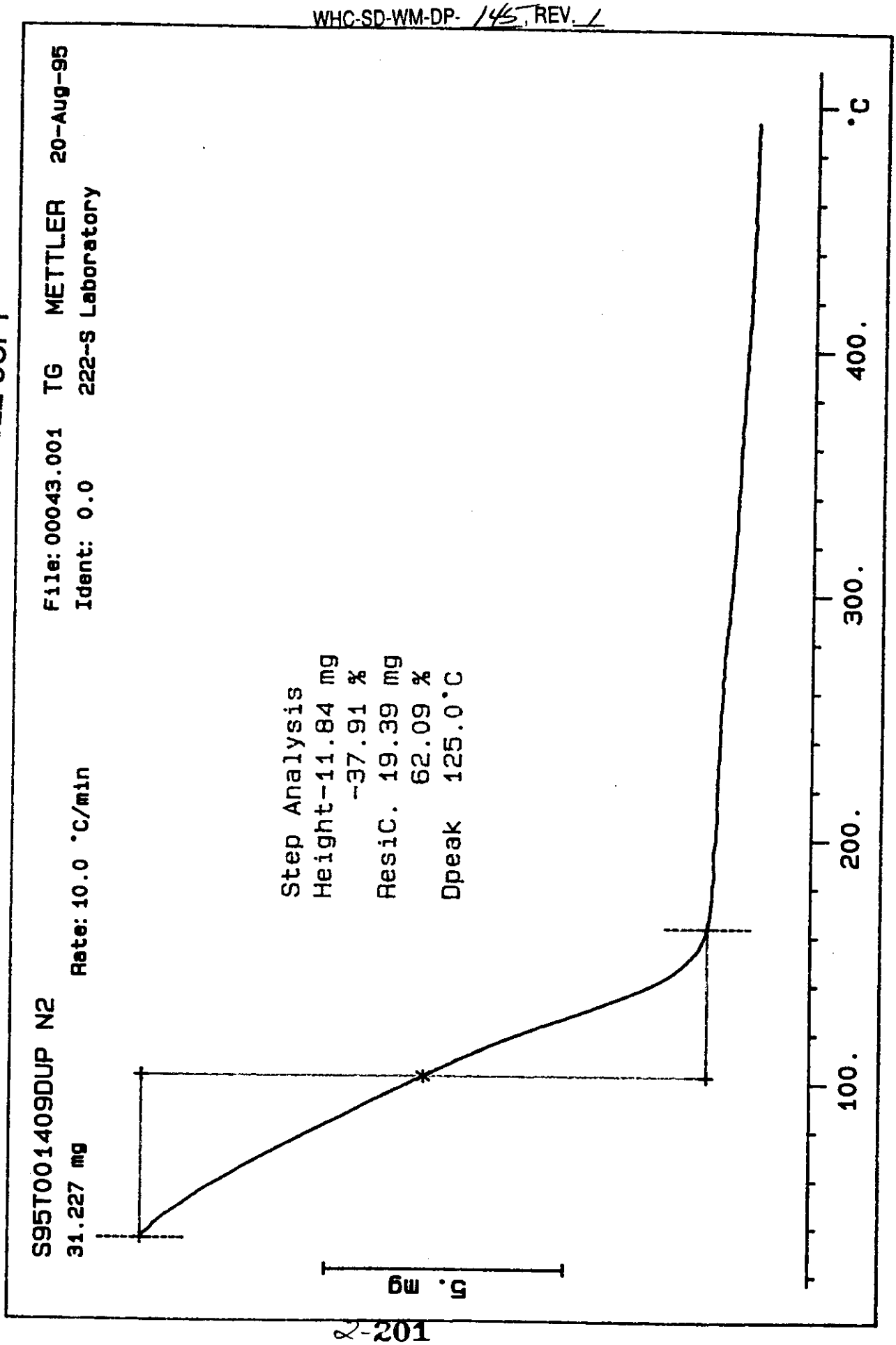

THE FOLLOWING ANALYSES ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

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WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2035

Analyst: RDM **Instrument:** TGA0 A-2 RDM 8-23-95 **Book #** 65N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.73	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001410	0		TGA-01	SOLID	N/A	35.32		%
95000104	BY-108 (R)	3 DUP	S95T001410	0		TGA-01	SOLID	35.32	39.45	N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001396	0		TGA-01	SOLID	N/A	40.98		%
95000104	BY-108 (R)	5 DUP	S95T001396	0		TGA-01	SOLID	40.98	44.12	N/A	%

Final page for worklist # 2035

RDMeyer 8/23/95
Analyst Signature **Date**

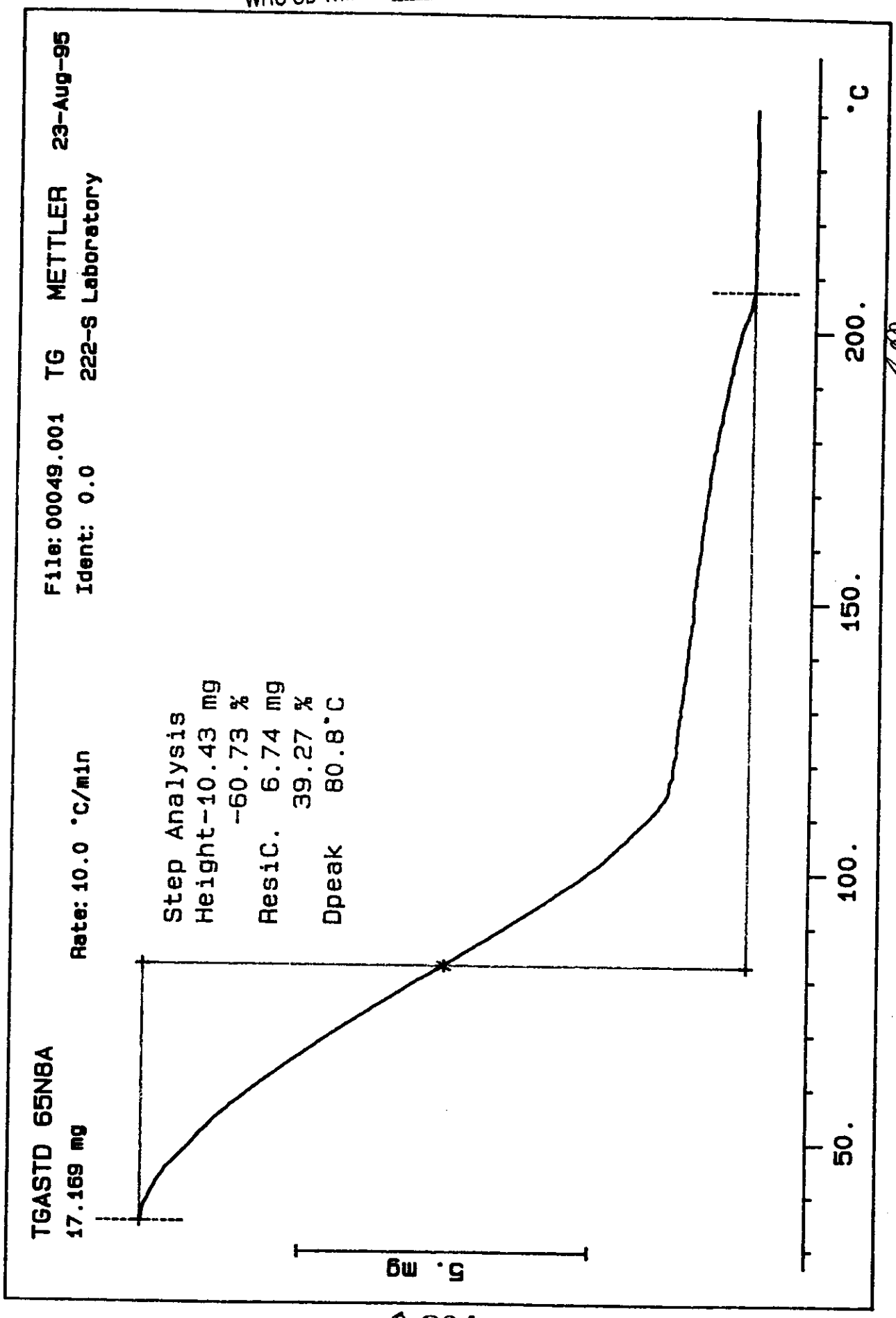
Analyst Signature 8-24-95 **Date**

Verified & put out for review
Dawn M. Lege
9/6/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BEST AVAILABLE COPY



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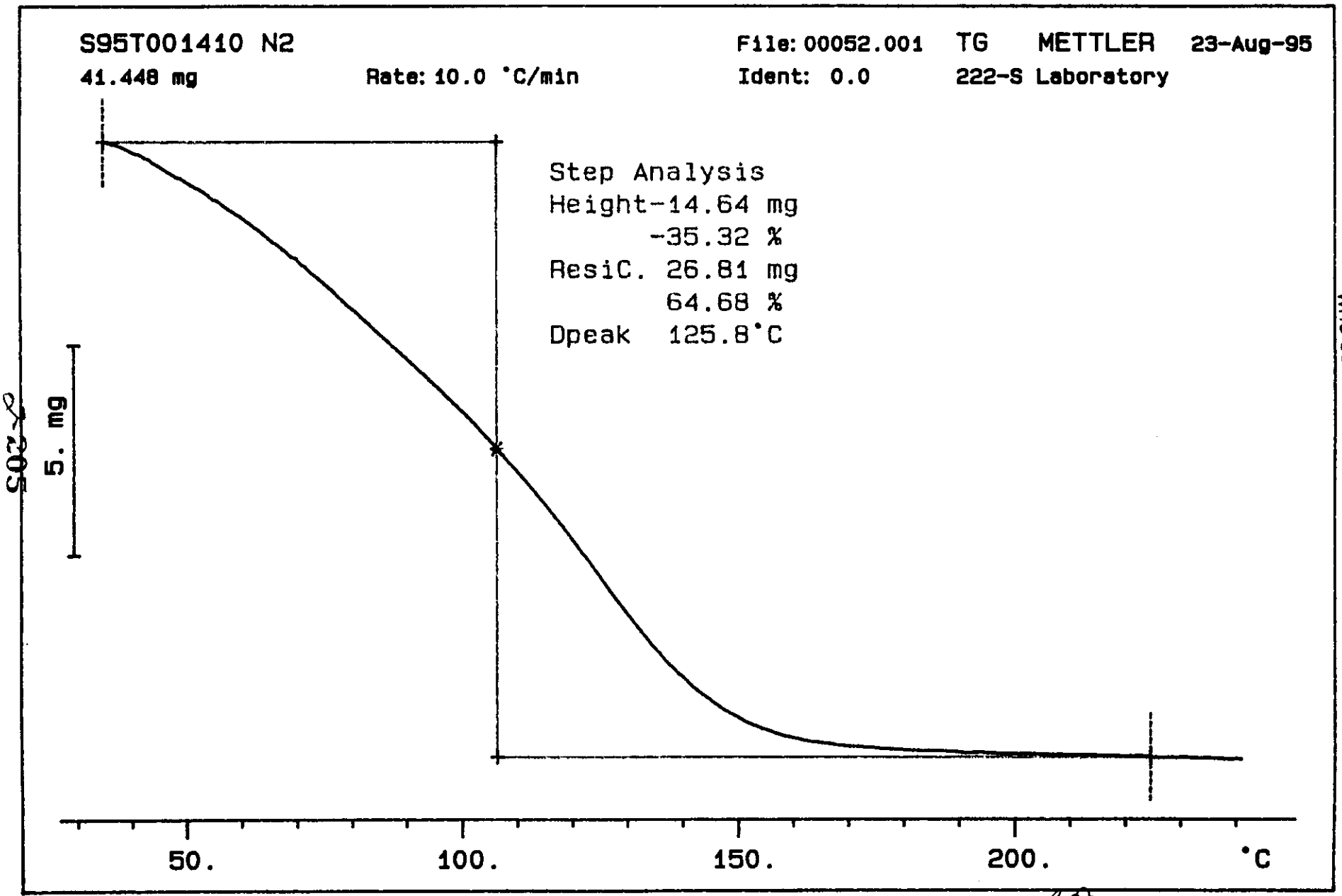
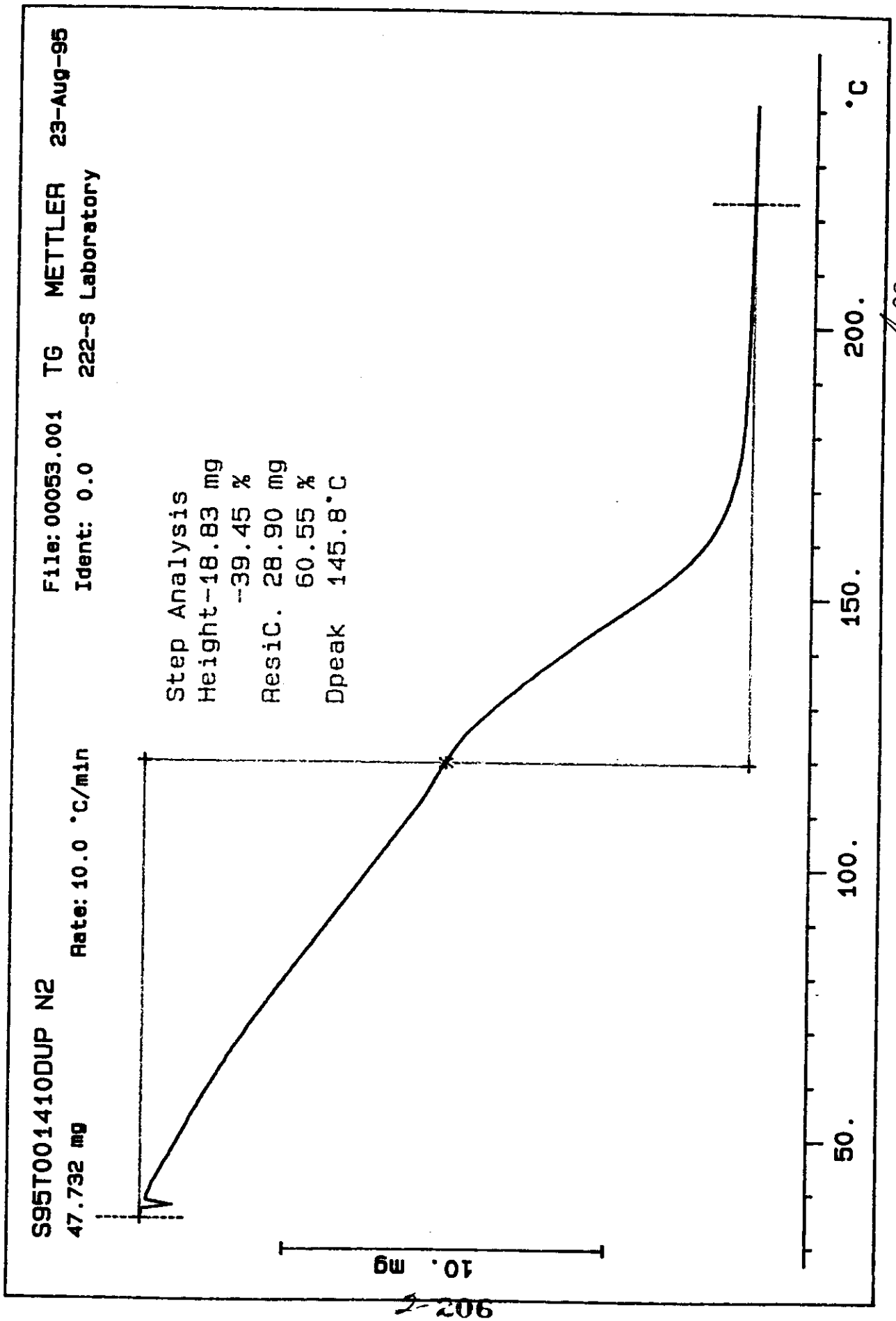


~205

WHC-SD-WM-DP-[illegible] REV. 1

BEST AVAILABLE COPY



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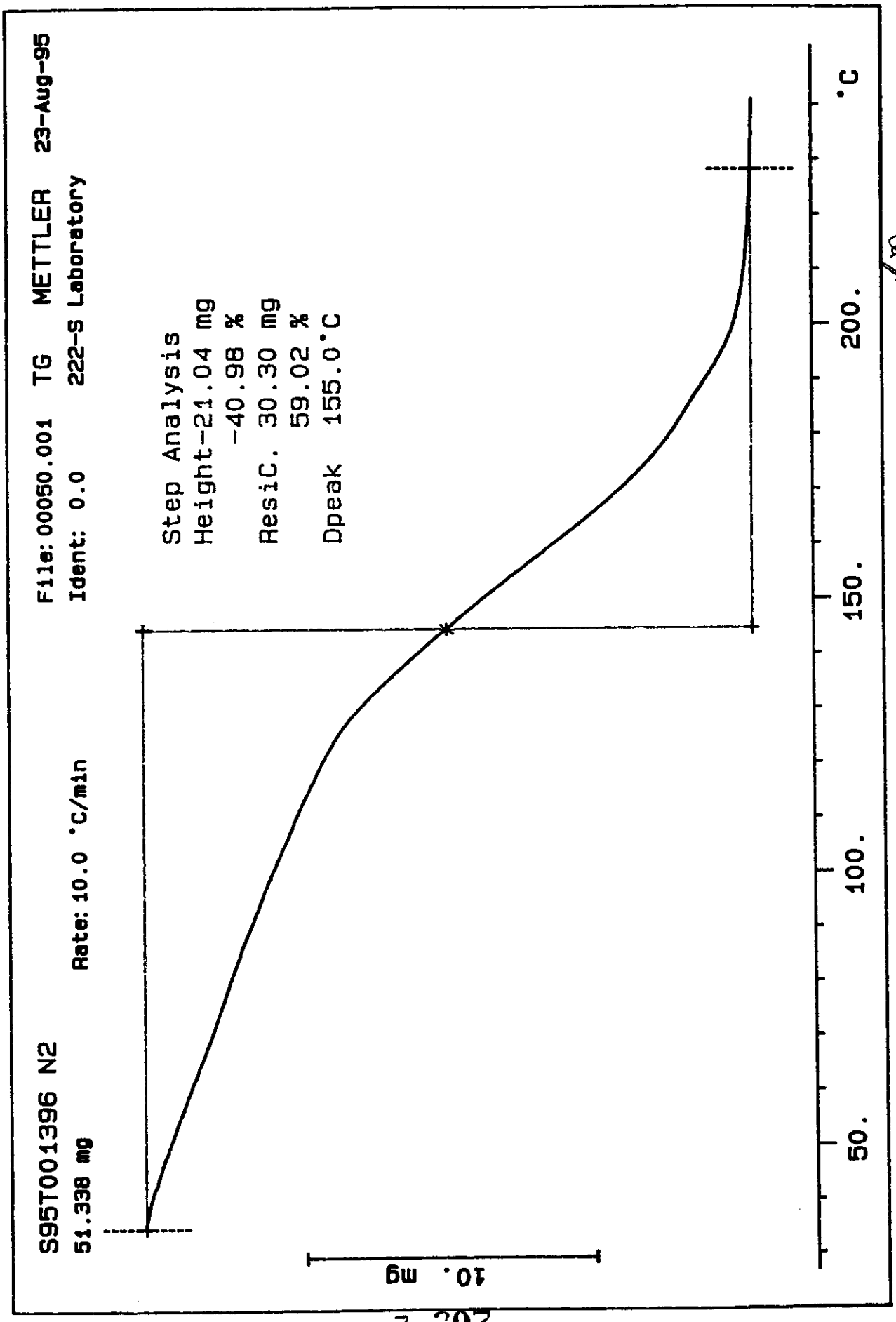
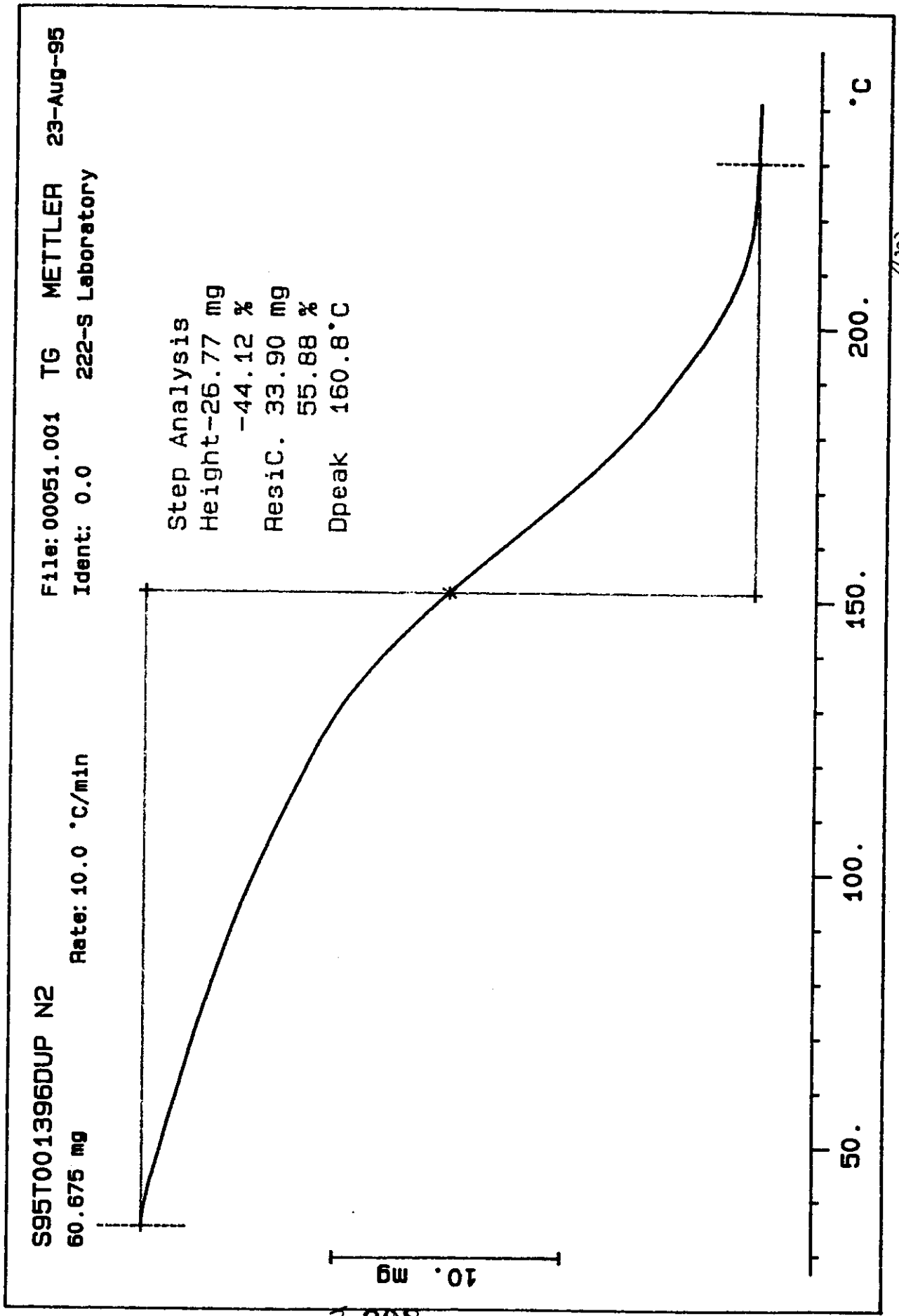
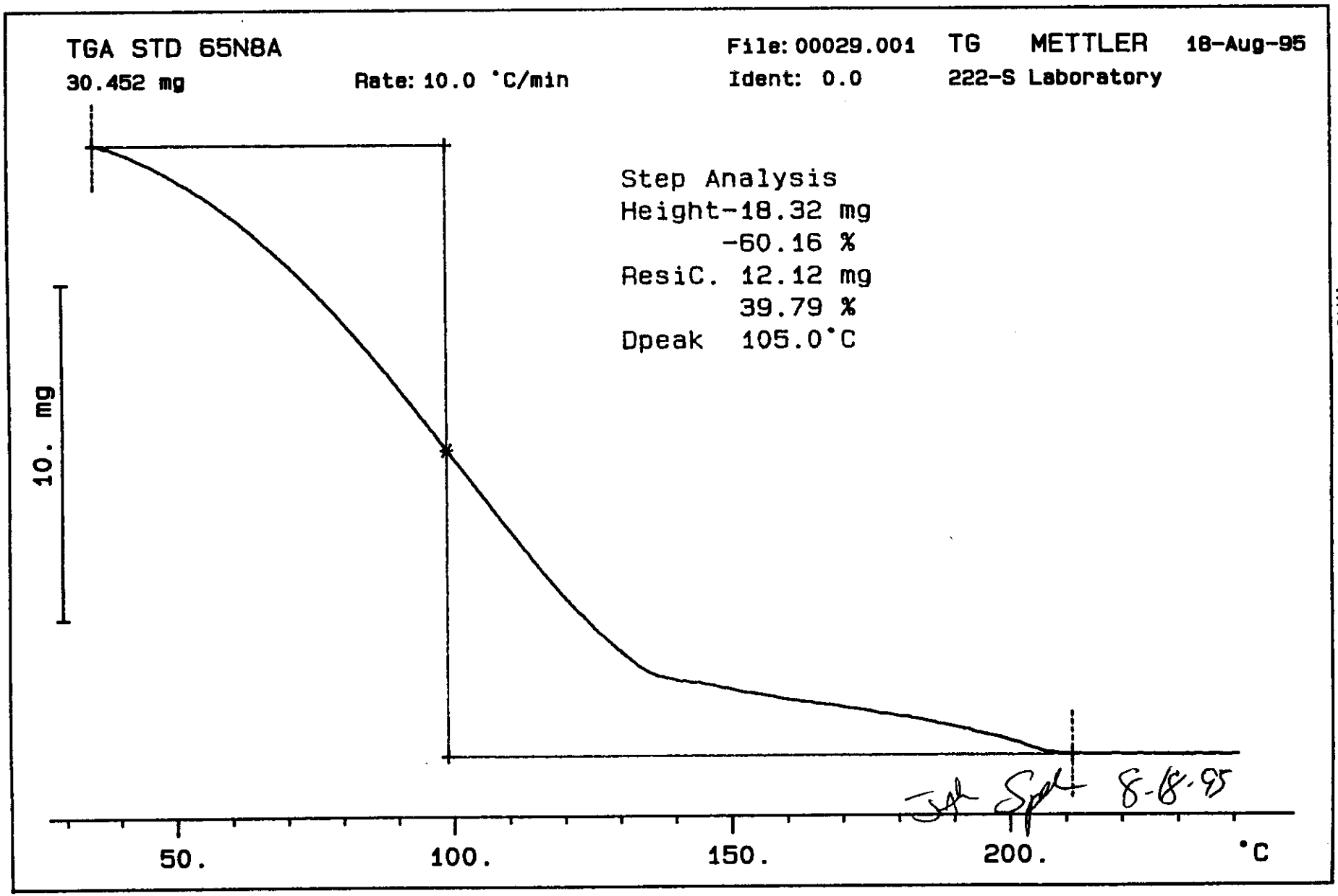


BEST AVAILABLE COPY

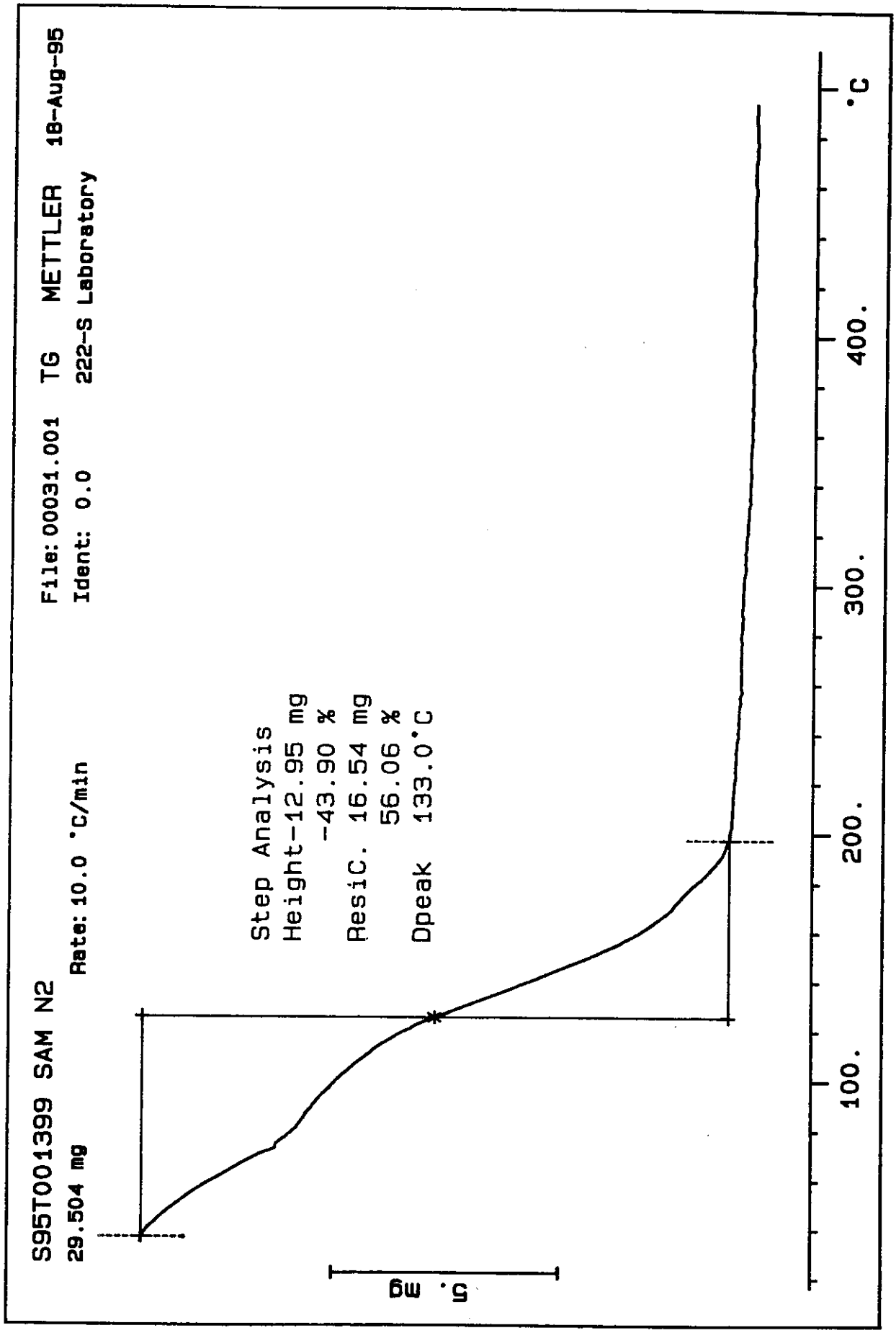


SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2211 TO 2213.

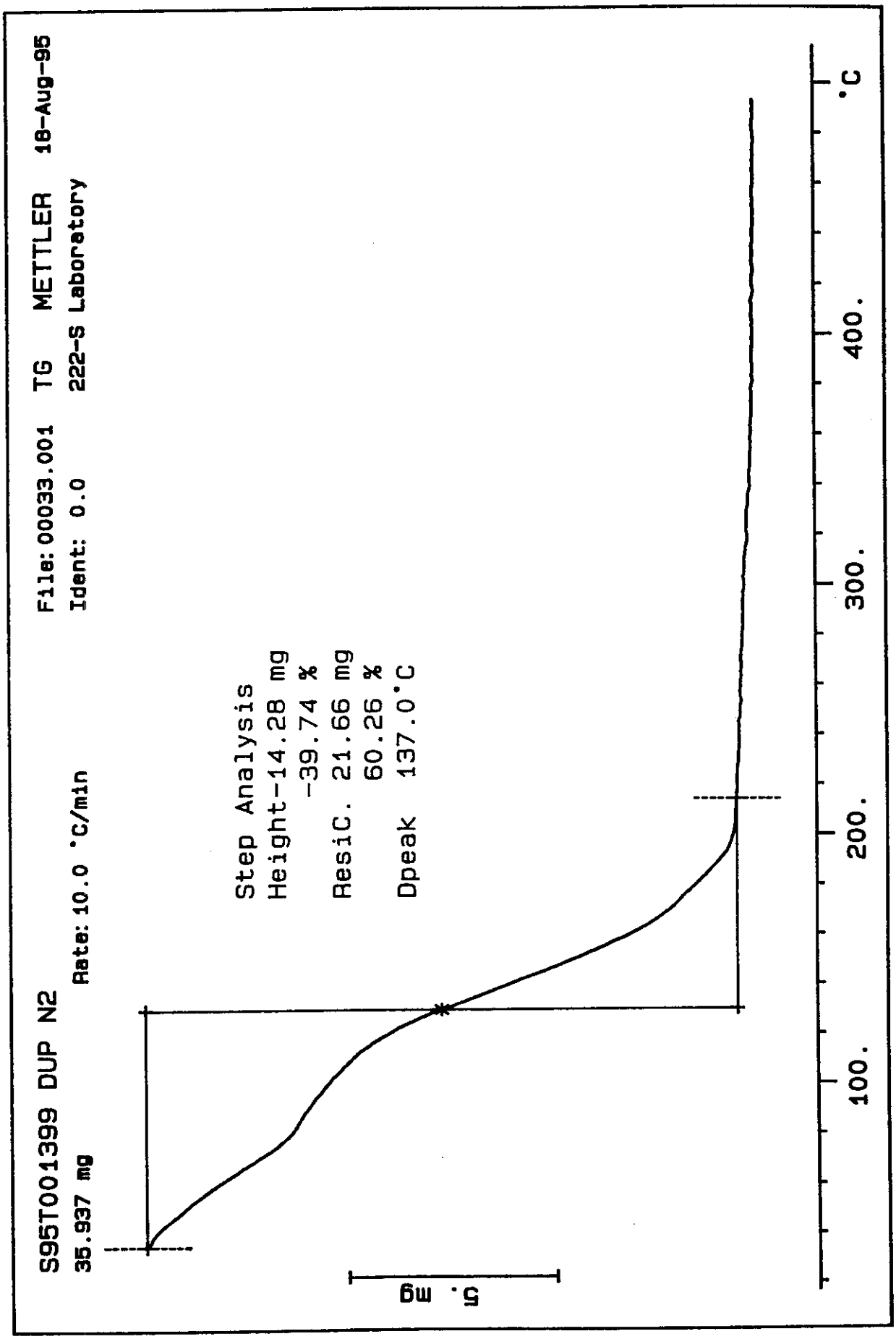
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2037

Analyst: JDS **Instrument:** TGA0 3 **Book #** 65N8A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	59.74	60.39	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001373	0	TGA-03	LIQUID	N/A	31.9		%
95000104	BY-108 (R)	3 DUP	S95T001373	0	TGA-03	LIQUID	31.9	34.04	N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001427	0	TGA-03	LIQUID	N/A	27.11		%
95000104	BY-108 (R)	5 DUP	S95T001427	0	TGA-03	LIQUID	27.11	25.03	N/A	%

Final page for worklist # 2037

See attached for signatures
Analyst Signature Date 8-31-95

Entered + verified Jann Lye 9/6/95

Analyst Signature Date

Data Entry Comments:
S95T00137B SAM has second wt loss step of 20.91% finishing by 250°C; DuP has 18.7%. S95T001427 SAM has a second step of 25.62% ending by 250°C; duplicate has 27.62%.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2037

Analyst: SdS **Instrument:** TGA0 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	LIQUID			N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001427	0		TGA-01	LIQUID	N/A			%
95000104	BY-108 (R)	3 DUP	S95T001427	0		TGA-01	LIQUID			N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001373	0		TGA-01	LIQUID	N/A			%
95000104	BY-108 (R)	5 DUP	S95T001373	0		TGA-01	LIQUID			N/A	%

Final page for worklist # 2037

Analyst Signature 8-29-95 Date

Analyst Signature Date

Other instrument was used.
8-31-95
BDV

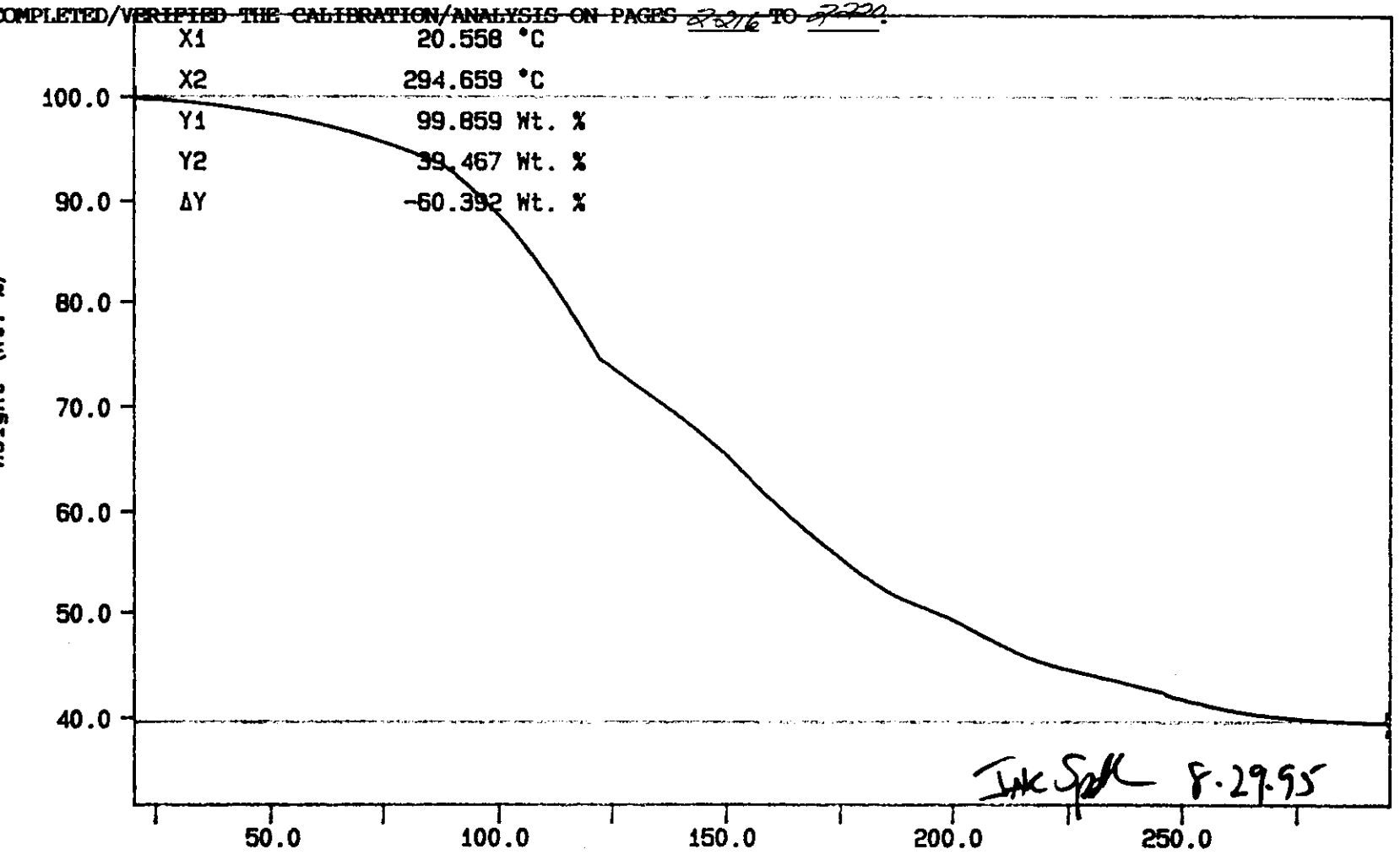
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: ter082901 Tue Aug 29 08:24:03 1995
Sample Weight: 26.716 mg
65N8-A Terliq

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-216 TO 2-220.



2-216

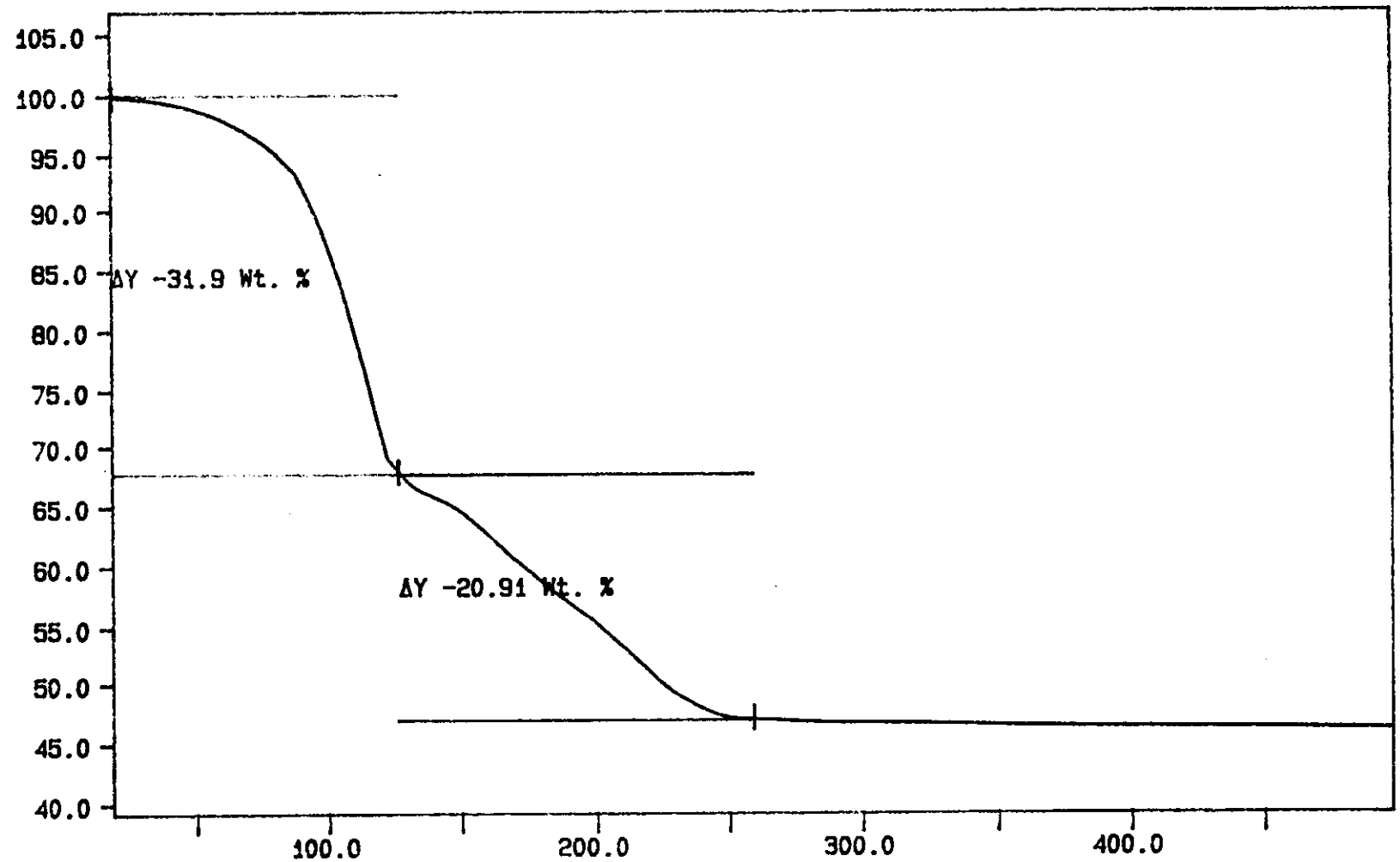
WHC-SD-WM-DP-145, REV. 1

N2 10C/MIN
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Aug 29 08:24:24 1995

Curve 1: TGA
File info: SAM082903 Tue Aug 29 13:56:54 1995
Sample Weight: 12.024 mg
S95T001373 SAM

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

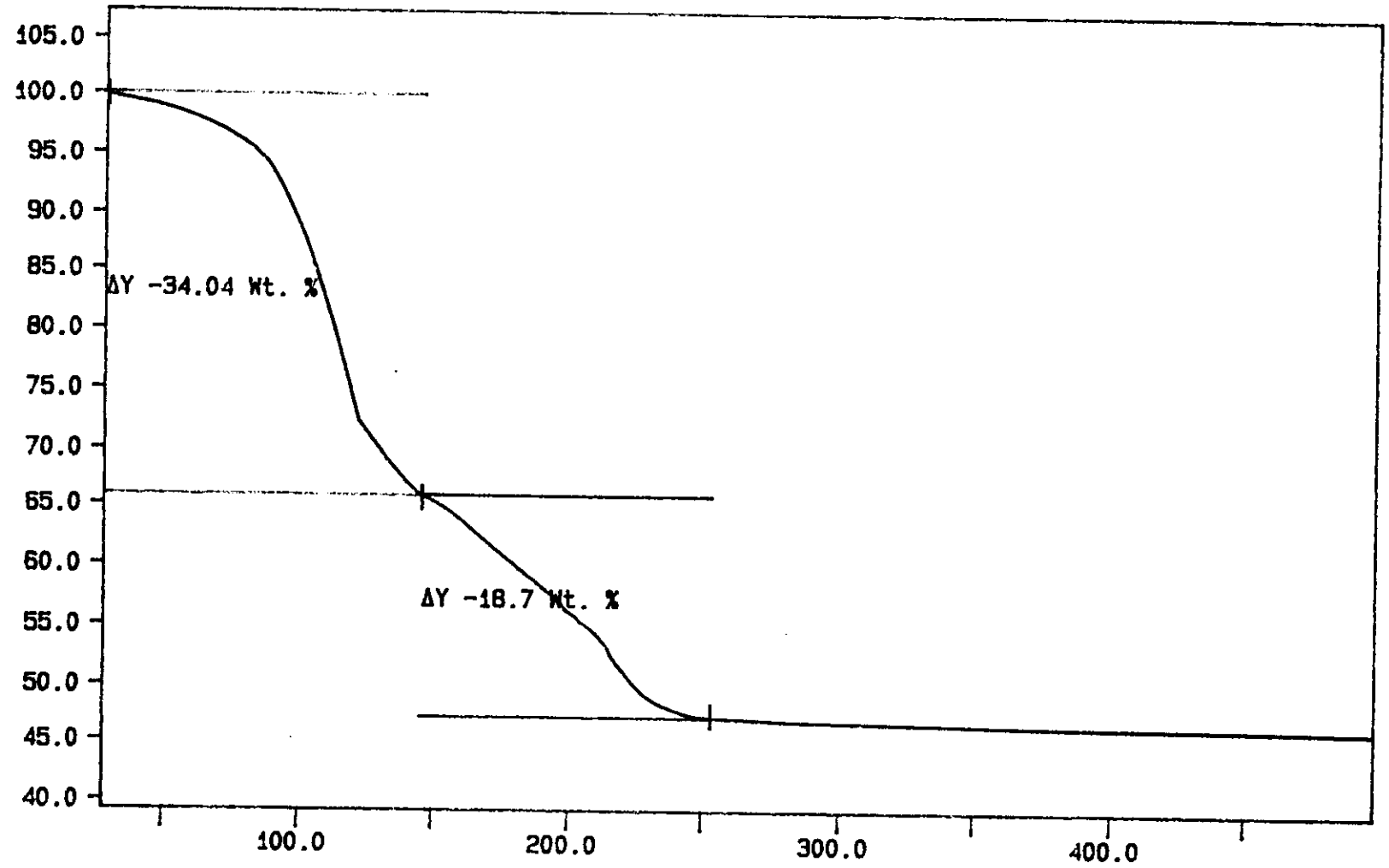
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 09:20:39 1995

2-217

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAN082904 Tue Aug 29 15:05:31 1995
Sample Weight: 14.372 mg
S95T001373 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

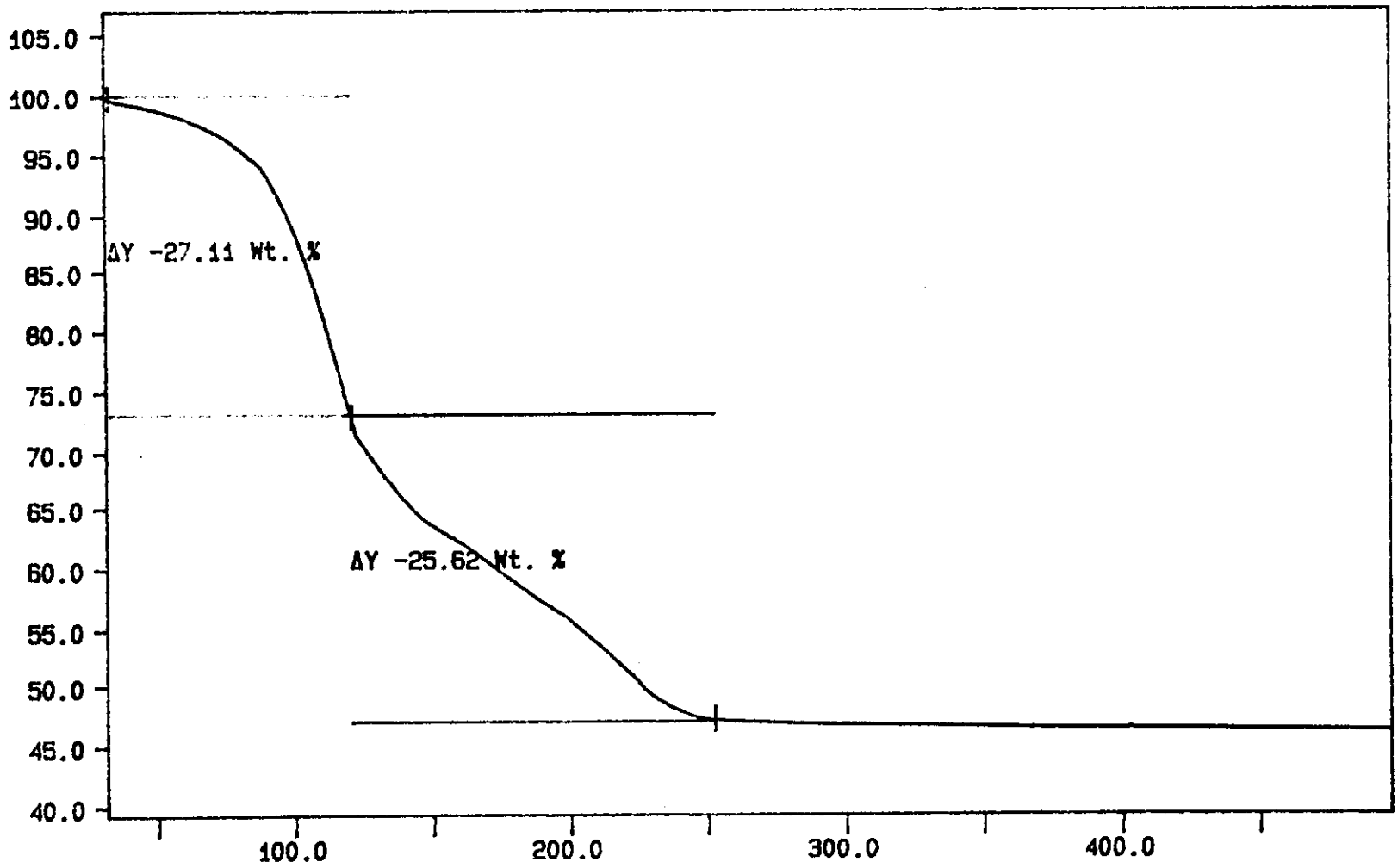
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 09:34:19 1995

WHC-SD-WM-DP-145, REV. 1

A-218

Curve 1: TGA
File info: SAM082901 Tue Aug 29 09:27:54 1995
Sample Weight: 12.247 mg
S95T001427 SAM

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

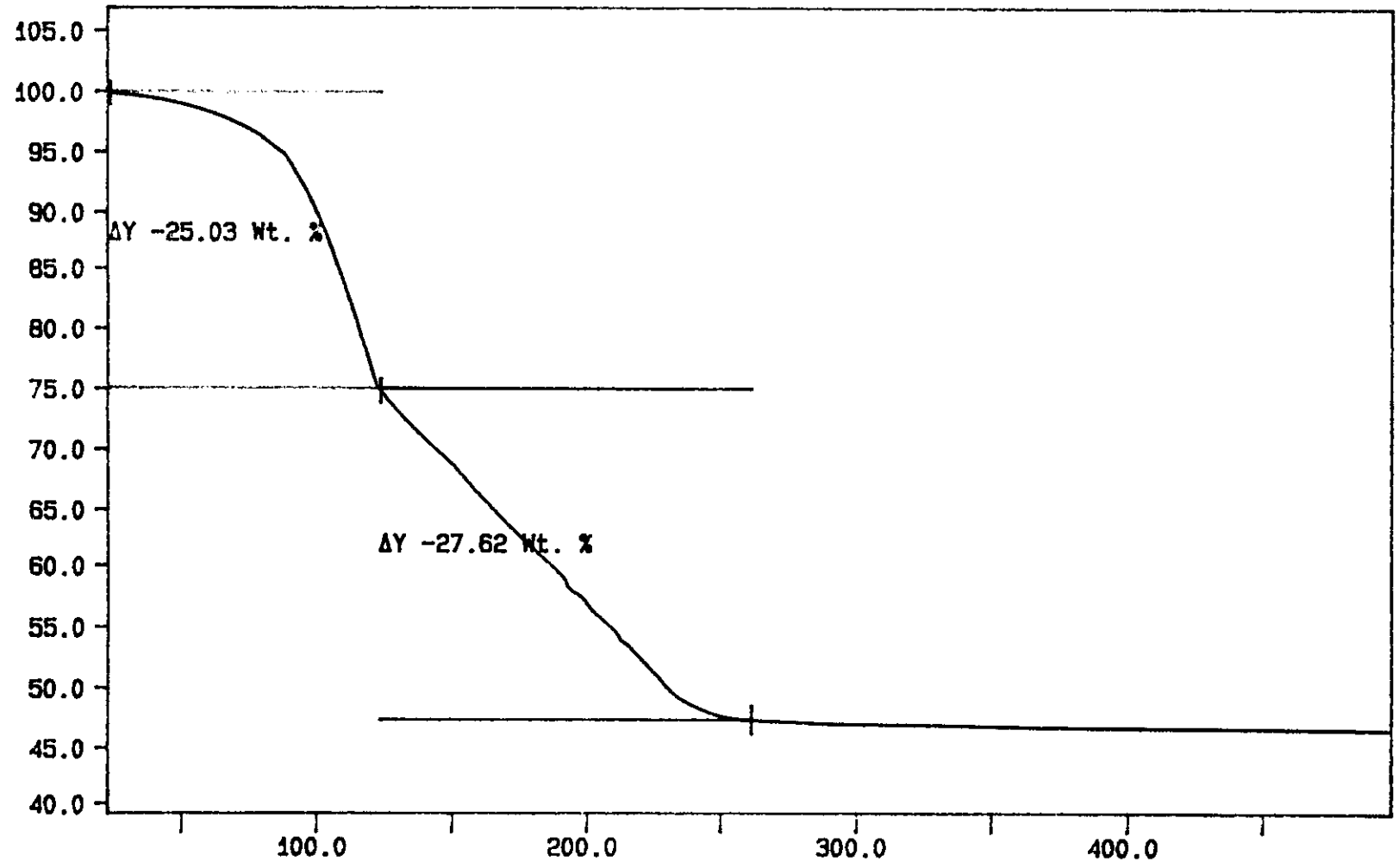
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 10:13:03 1995

WHC-SD-WM-DP-145, REV. 1

3-219

Curve 1: TGA
File info: SAM082902 Tue Aug 29 11:55:45 1995
Sample Weight: 15.783 mg
S95T001427 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 10:00:03 1995

2-220

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2155

Analyst: SMF **Instrument:** TGA0 8-30-95 BDV 3/1 **Book #** 65N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.65	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001421	0		TGA-01	SOLID	N/A	38.31		%
95000104	BY-108 (R)	3	DUP	S95T001421	0		TGA-01	SOLID	38.31	39.82	N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001422	0		TGA-01	SOLID	N/A	36.49		%
95000104	BY-108 (R)	5	DUP	S95T001422	0		TGA-01	SOLID	36.49	36.40	N/A	%

Final page for worklist # 2155

Susie M. Dalton 8-29-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 8-31-95

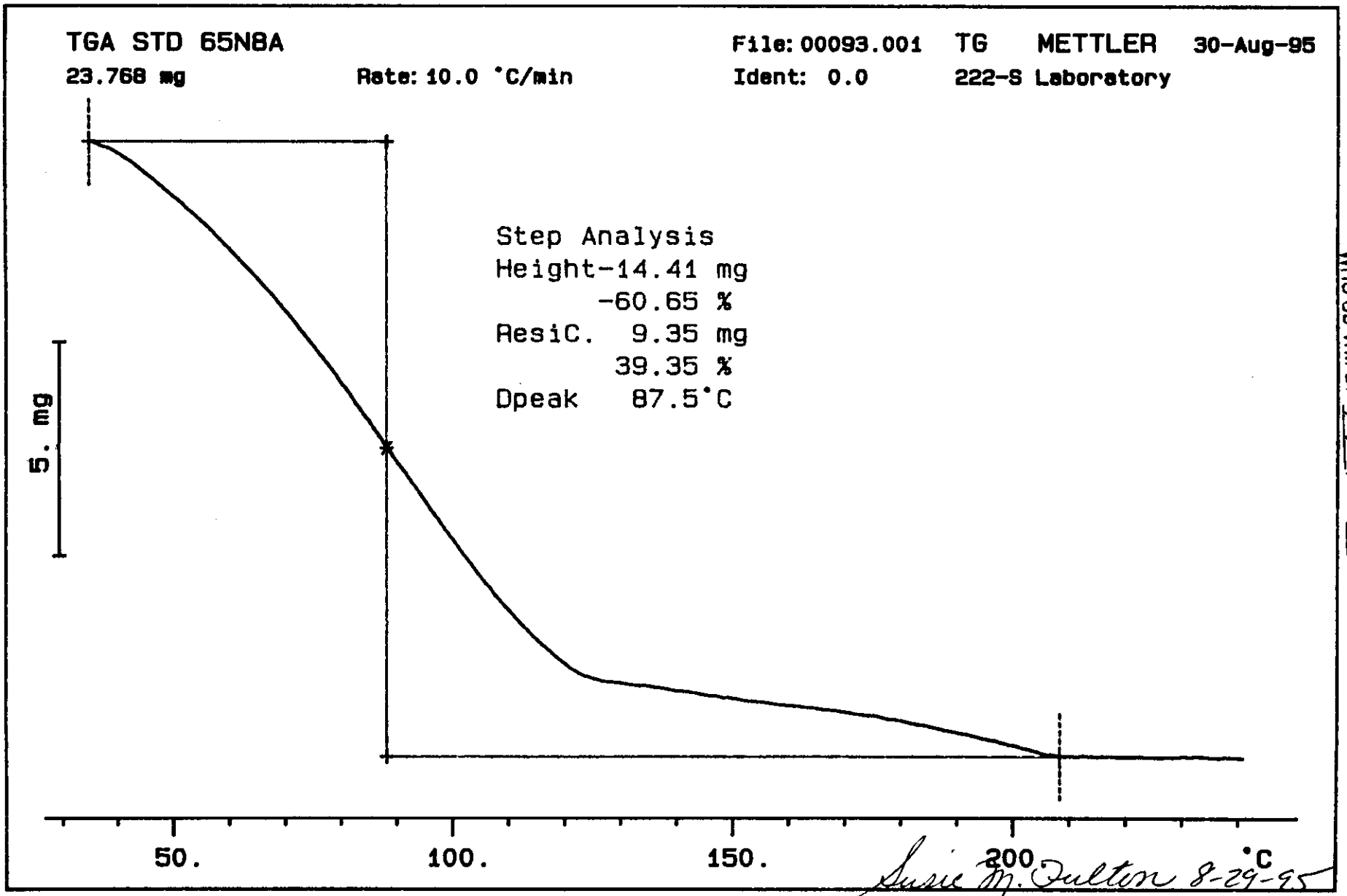
Gary Hammond 8-30-95
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2222 TO 2226.

BEST AVAILABLE COPY

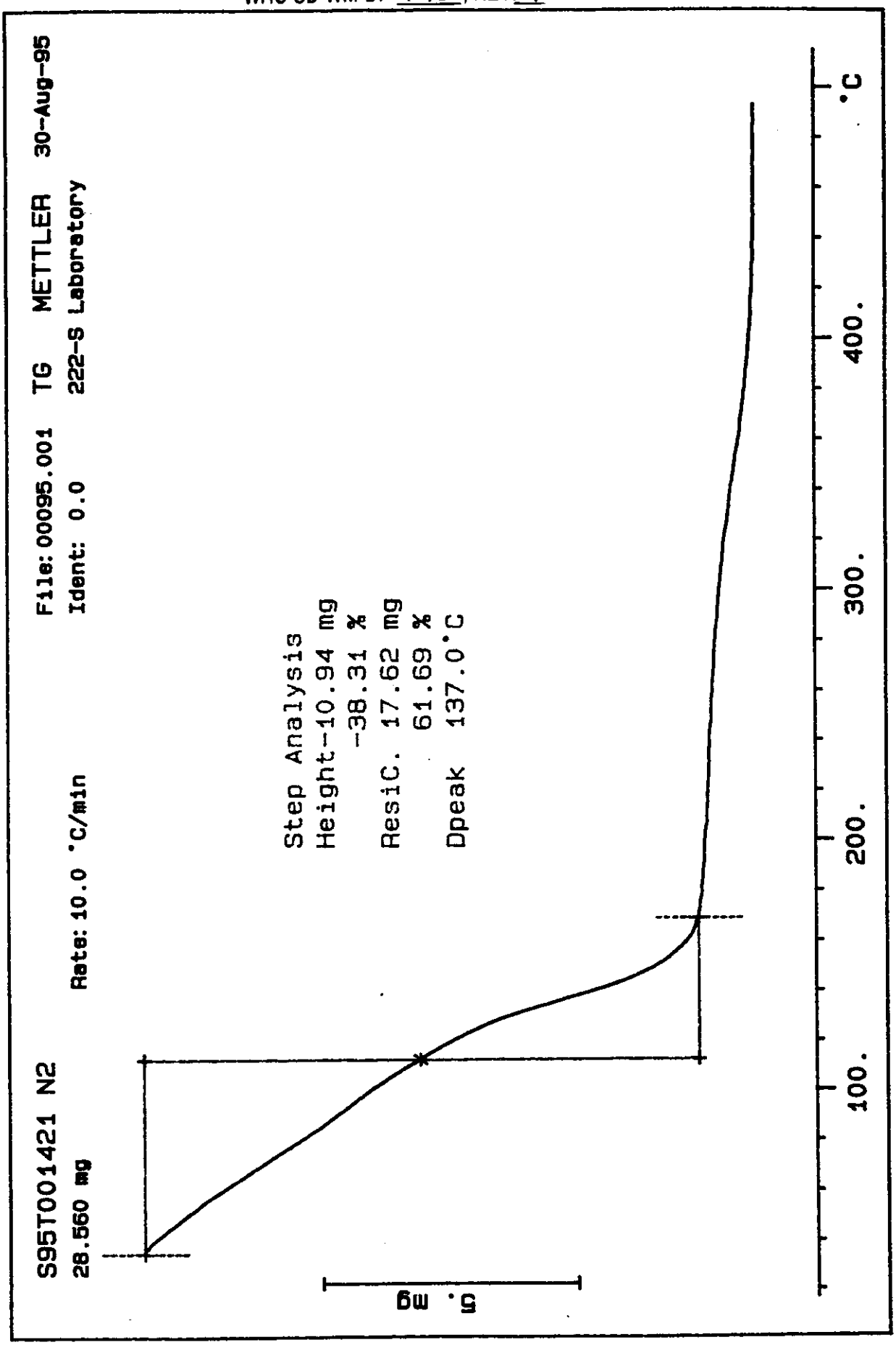


Susie M. Dalton 8-29-95

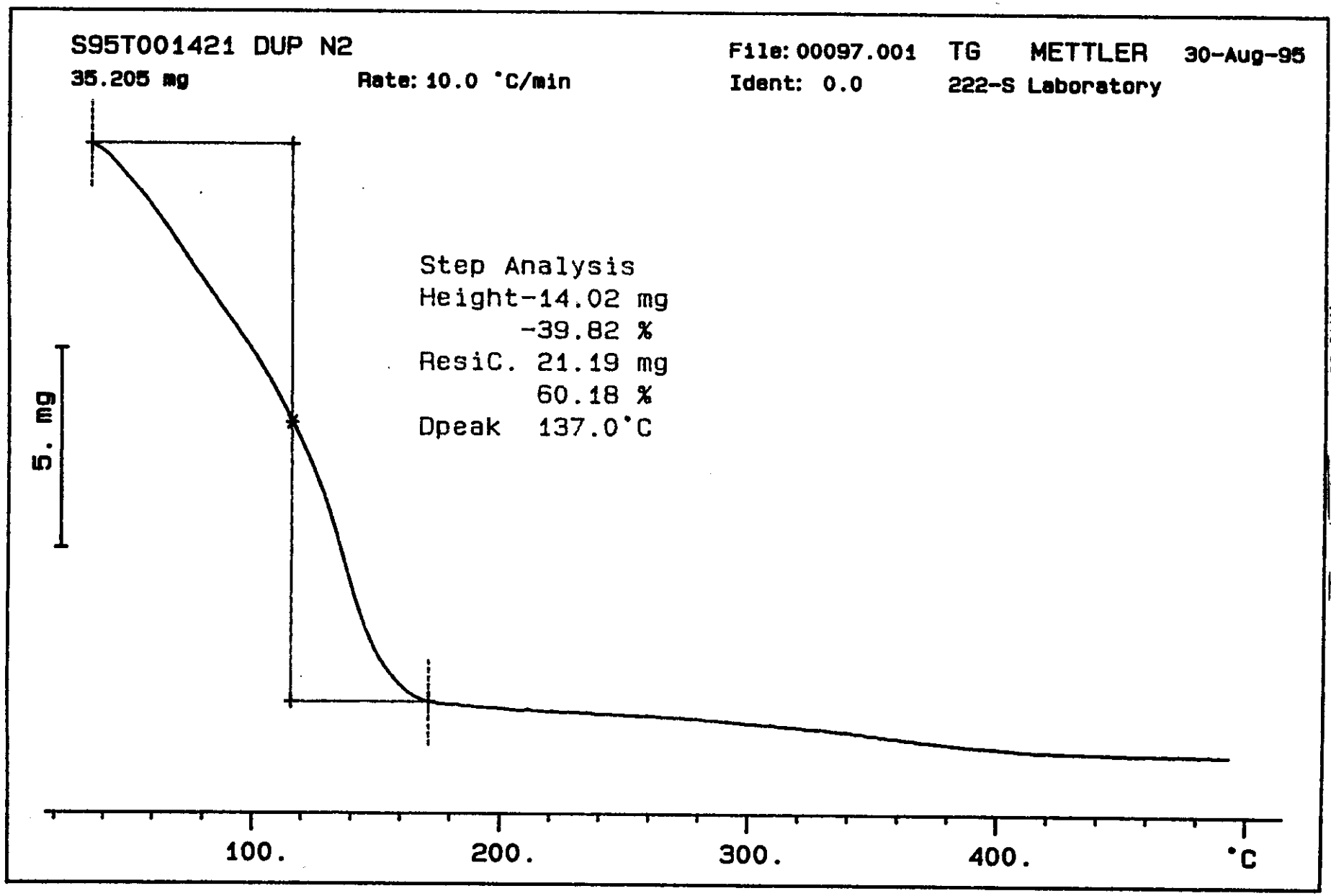
222

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY

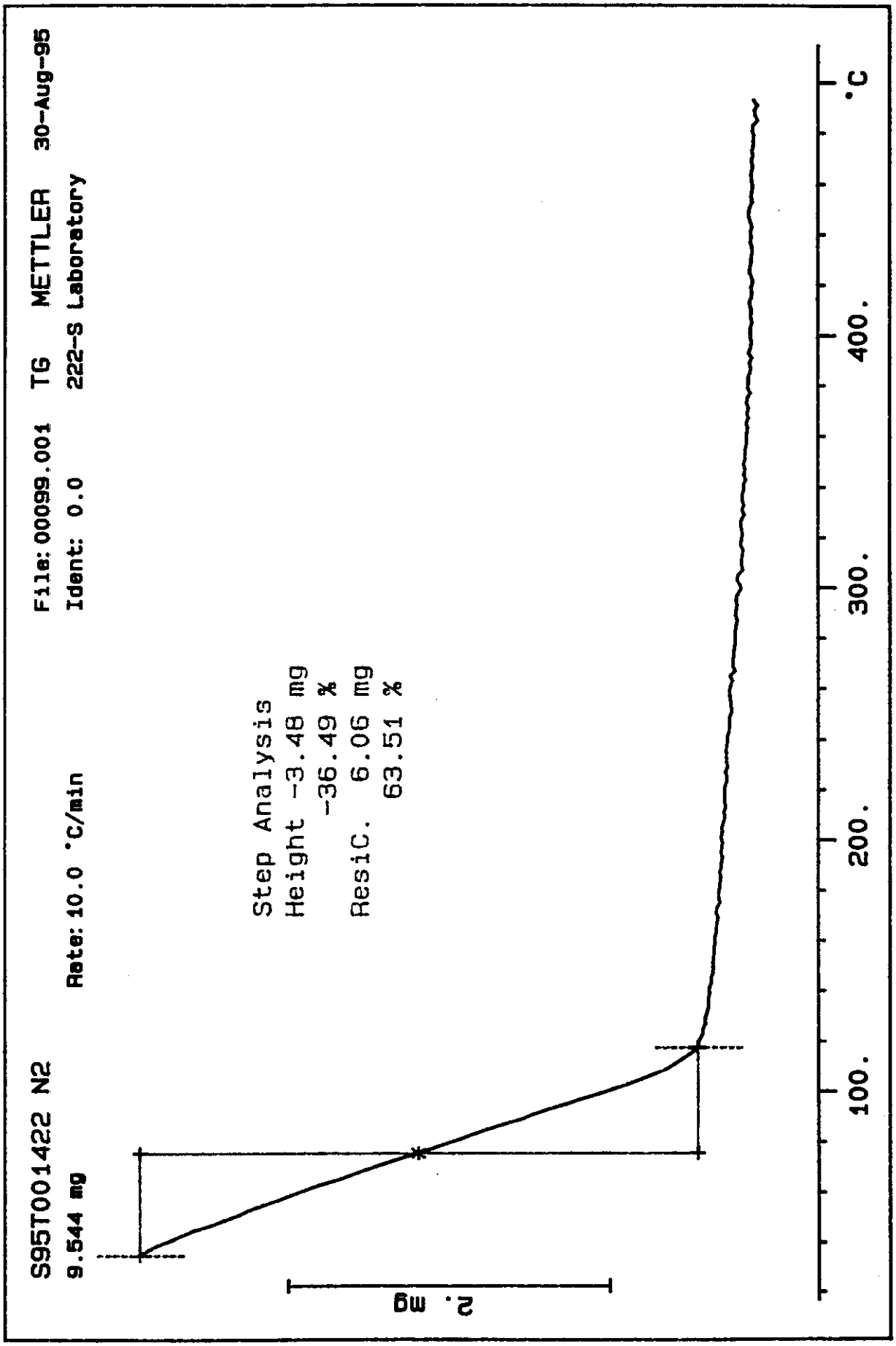


BEST AVAILABLE COPY



WHC-SD-WM-DP-145 REV. 1

BEST AVAILABLE COPY



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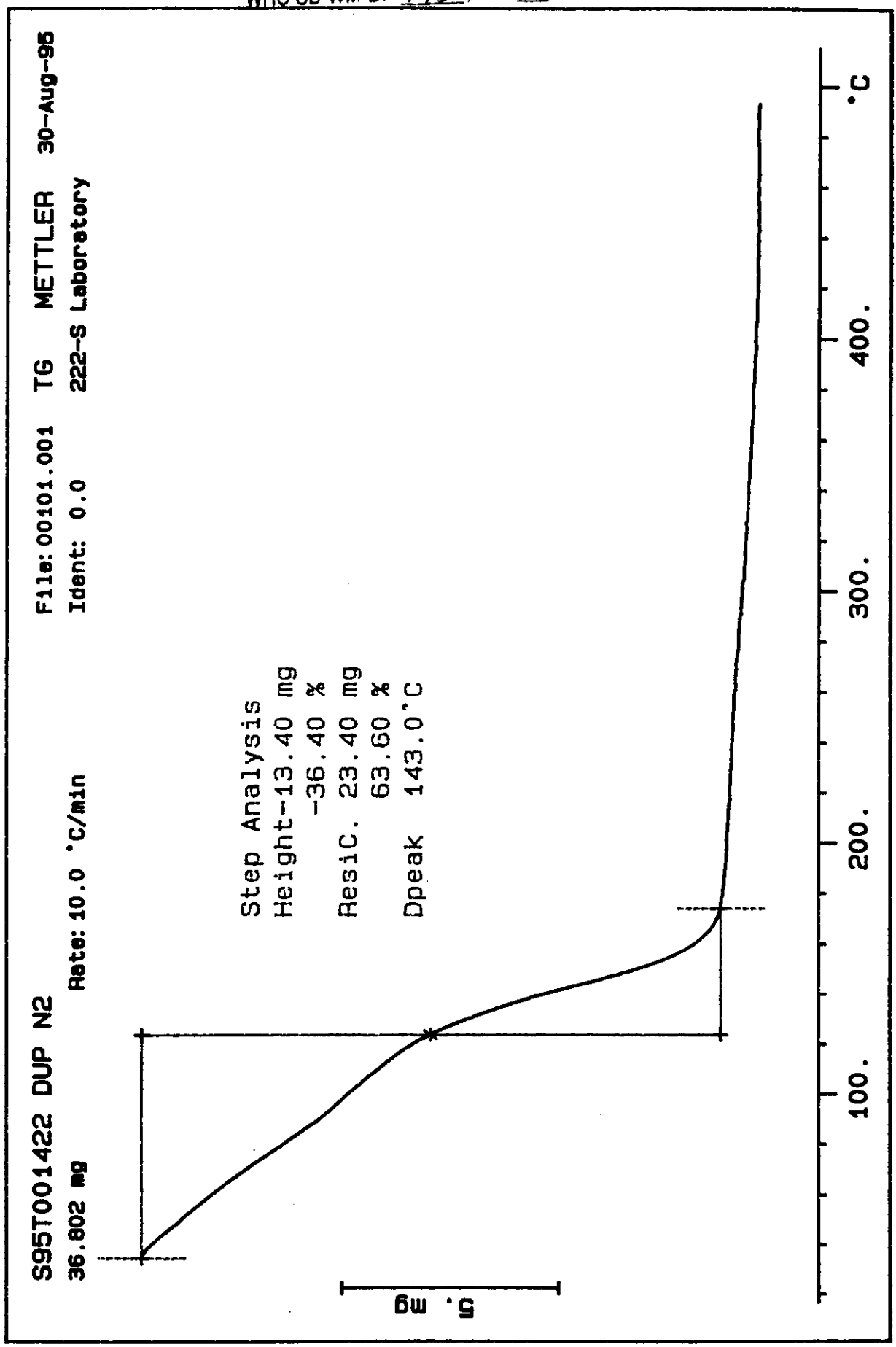


LABCORE Data Entry Template for Worklist# 2157

Analyst: JdS **Instrument:** TGA0 1 **Book #** 65N81

Method: LA-560-112 Rev/Mod A2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.82	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001433	0		TGA-01	SOLID	N/A	34.52		%
95000104	BY-108 (R)	3	DUP	S95T001433	0		TGA-01	SOLID	34.52	38.56	N/A	%

Final page for worklist # 2157

JdS 8-30-95
Analyst Signature **Date**

[signature] 8-30-95
Analyst Signature **Date**

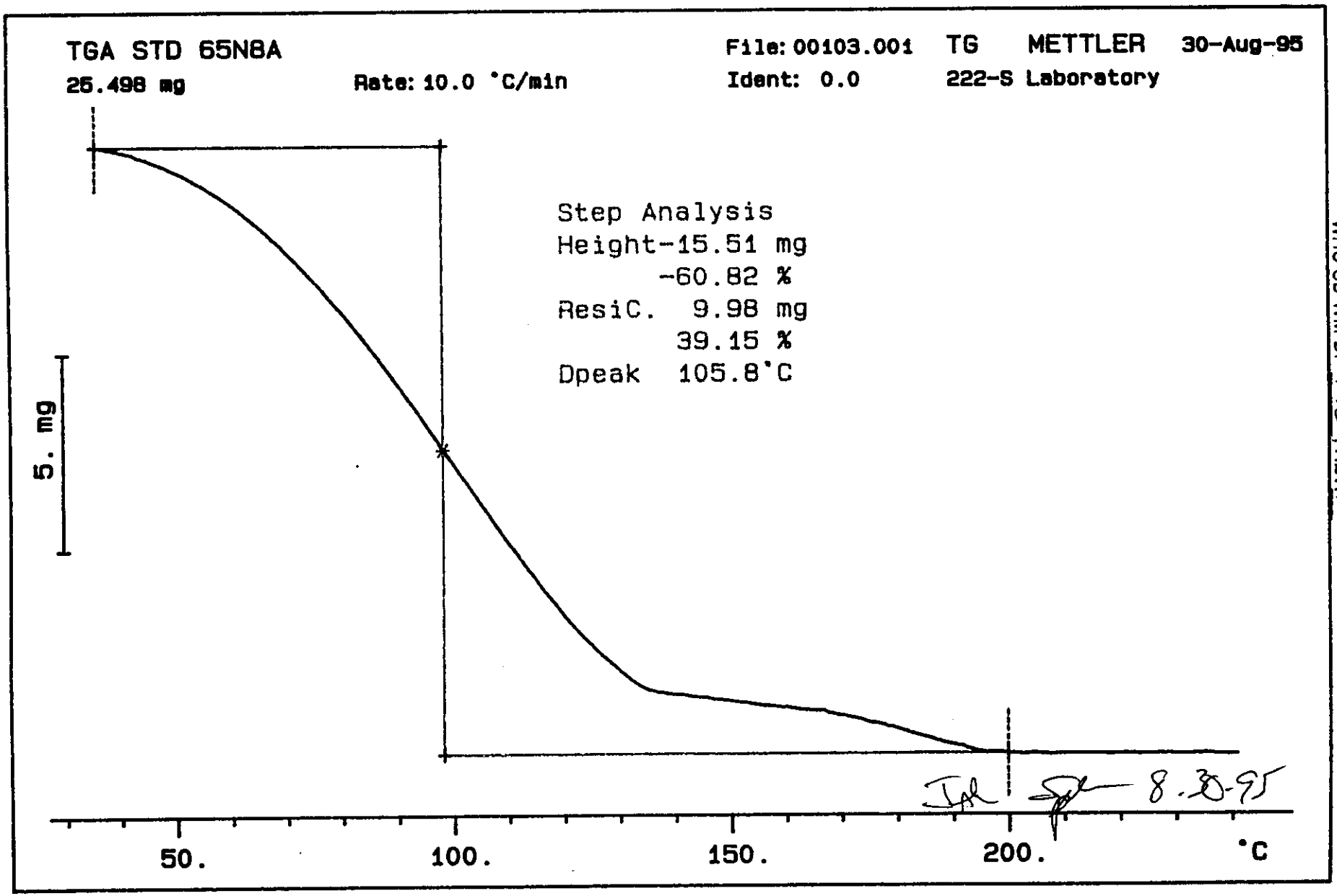
Verified by Blandina Valenzuela 8-31-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2228 TO 2230.

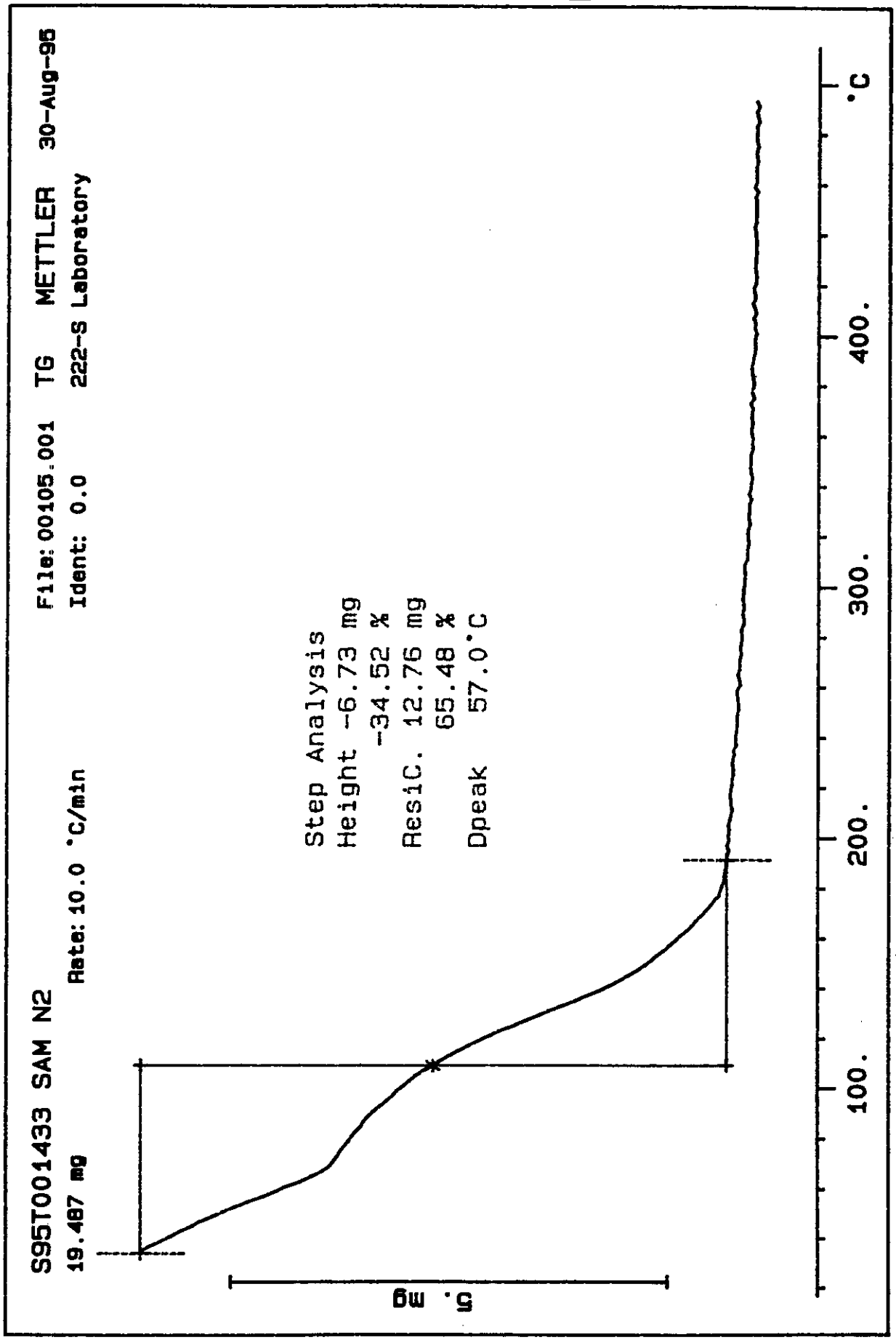
BEST AVAILABLE COPY



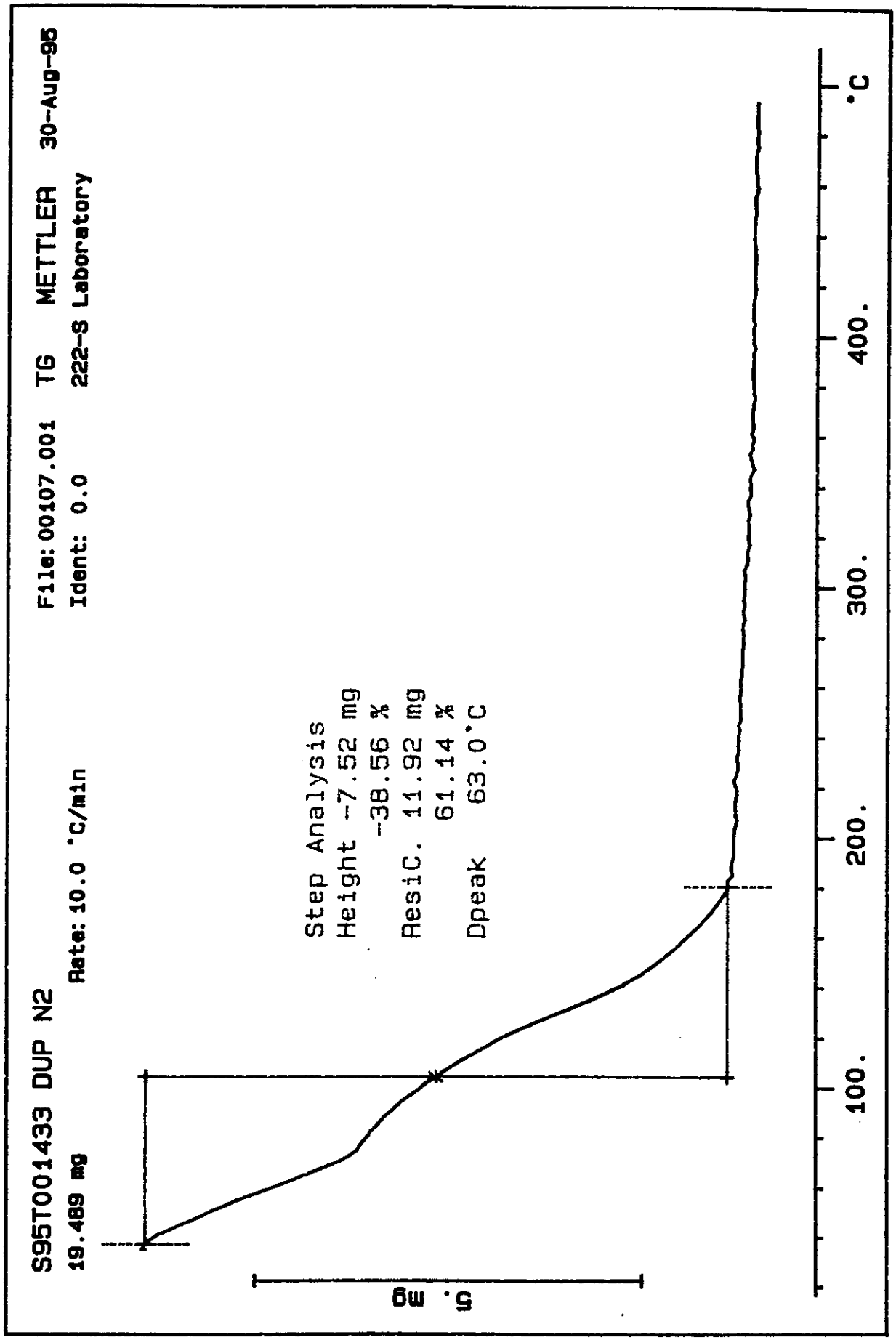
2228

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2158

Analyst: JDS **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.37	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001389	0		TGA-01	SOLID	N/A	37.72		%
95000104	BY-108 (R)	3	DUP	S95T001389	0		TGA-01	SOLID	37.72	36.28	N/A	%
		4	STD				TGA-01	SOLID	59.~~05~~ 74 BW 9-11-95	59.05	N/A	%
95000104	BY-108 (R)	5	SAMPLE	S95T001393	0		TGA-01	SOLID	N/A	38.92		%
95000104	BY-108 (R)	6	DUP	S95T001393	0		TGA-01	SOLID	38.92	36.38	N/A	%

Final page for worklist # 2158

See attached
Analyst Signature Date

[signature] 9-14-95
Analyst Signature Date

Verified 9/14/95 Jean M. Leye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2158

Analyst: JDS **Instrument:** TGA0 **Book #** 65 N84

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001389	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	3 DUP	S95T001389	0		TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001393	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	5 DUP	S95T001393	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2158

JDS Spek 9-8-95

Analyst Signature **Date**

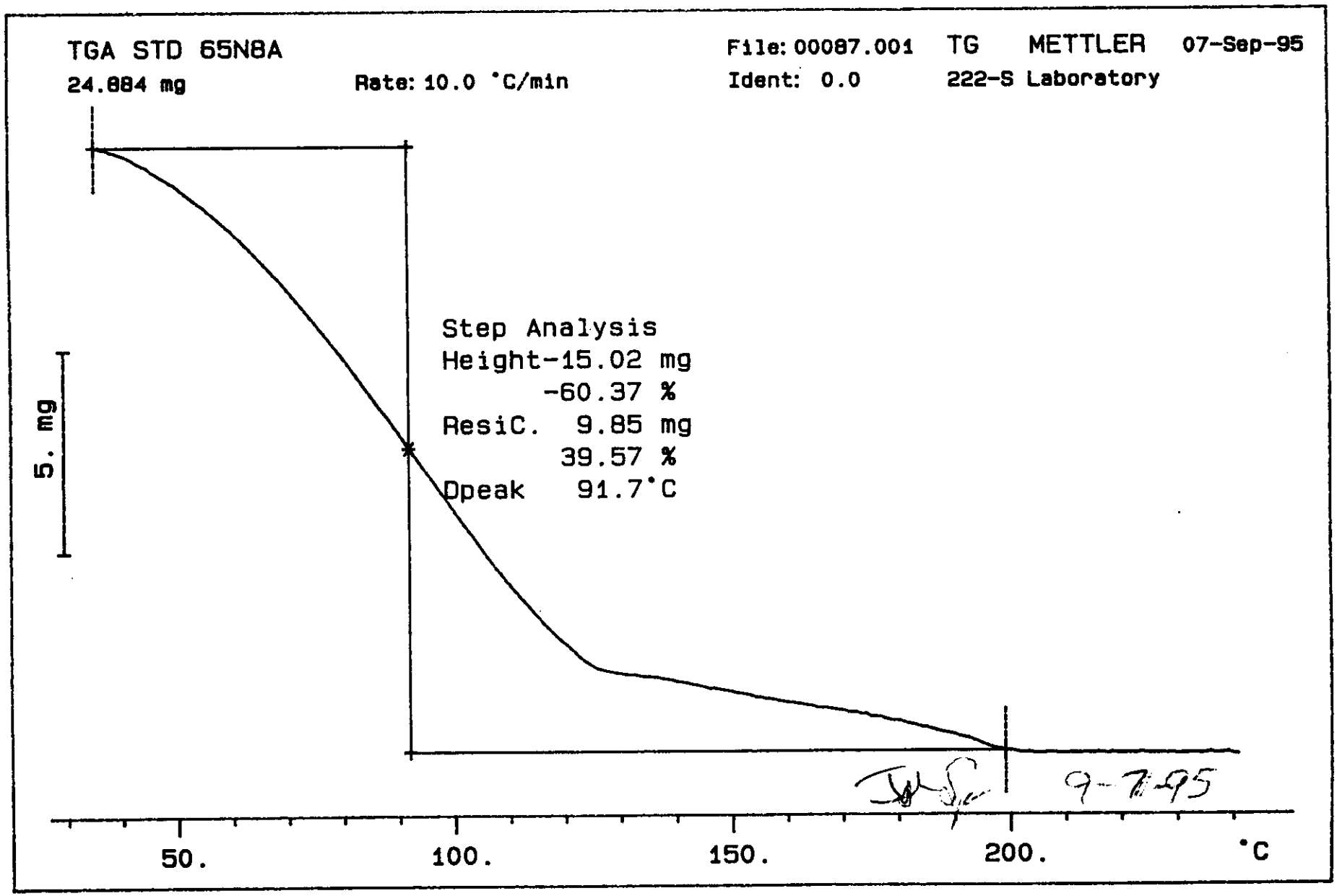
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-233 TO 2-238.

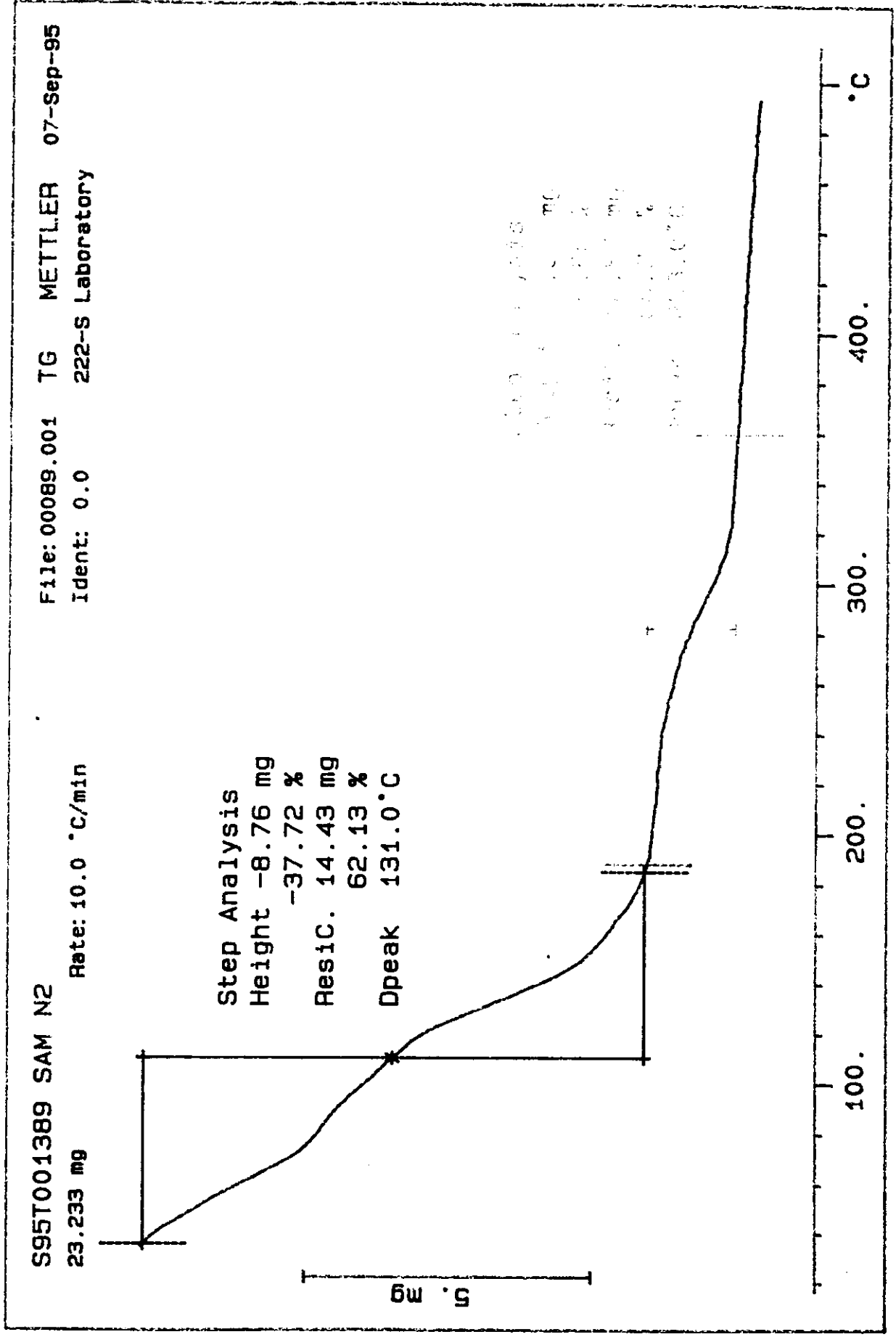
BEST AVAILABLE COPY



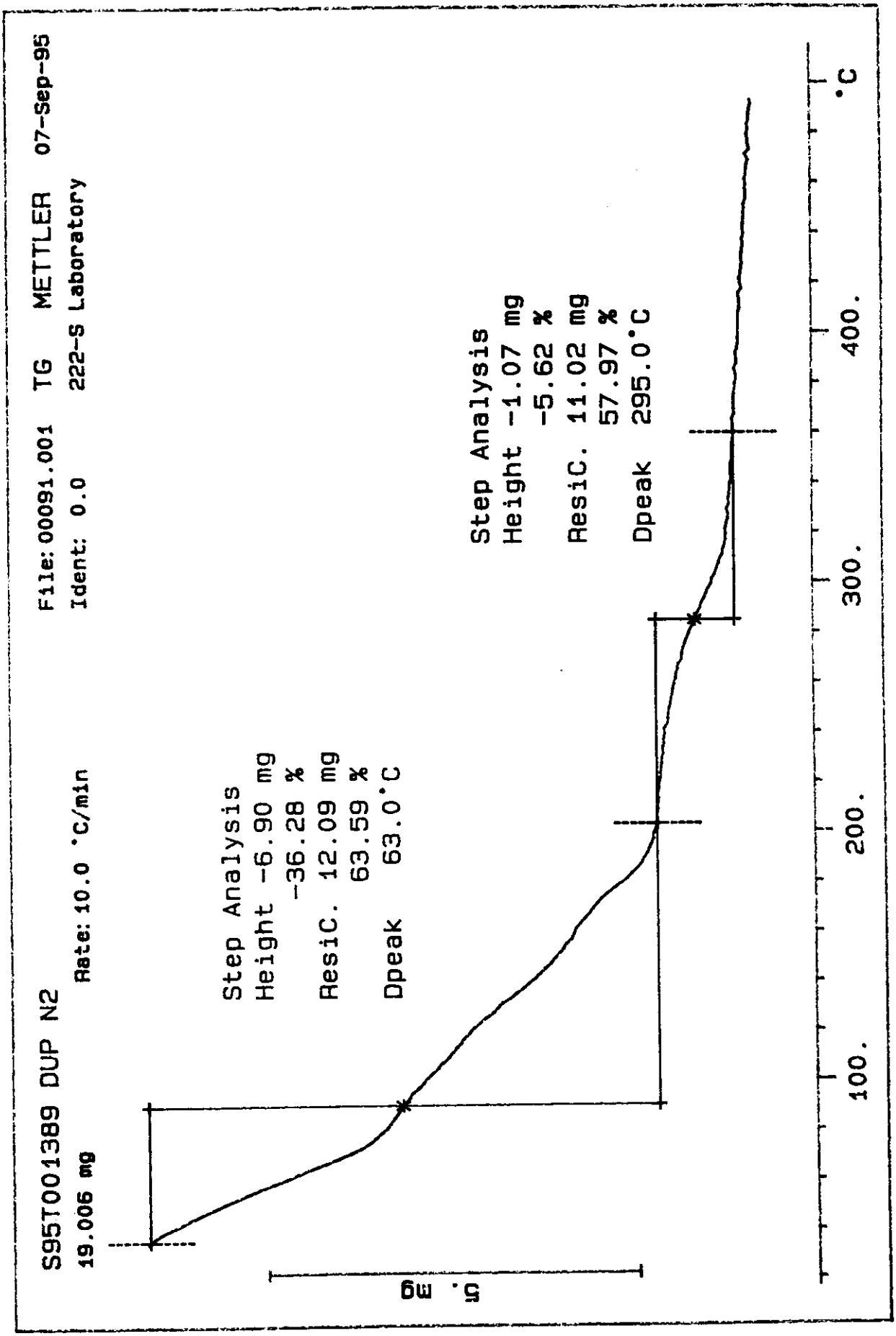
2-233

WHC-SD-WM-DP-145, REV. 1

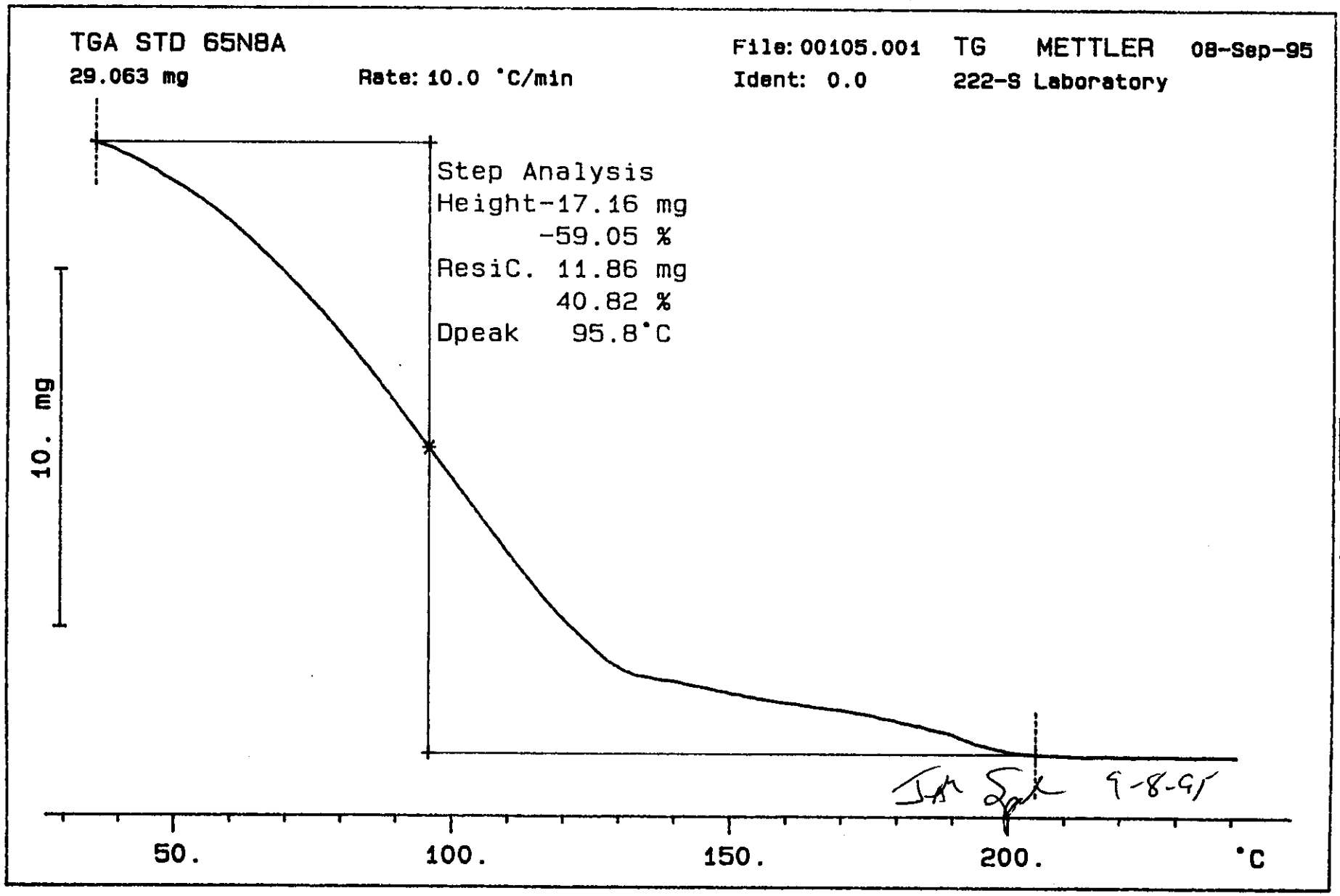
BEST AVAILABLE COPY



BEST AVAILABLE COPY

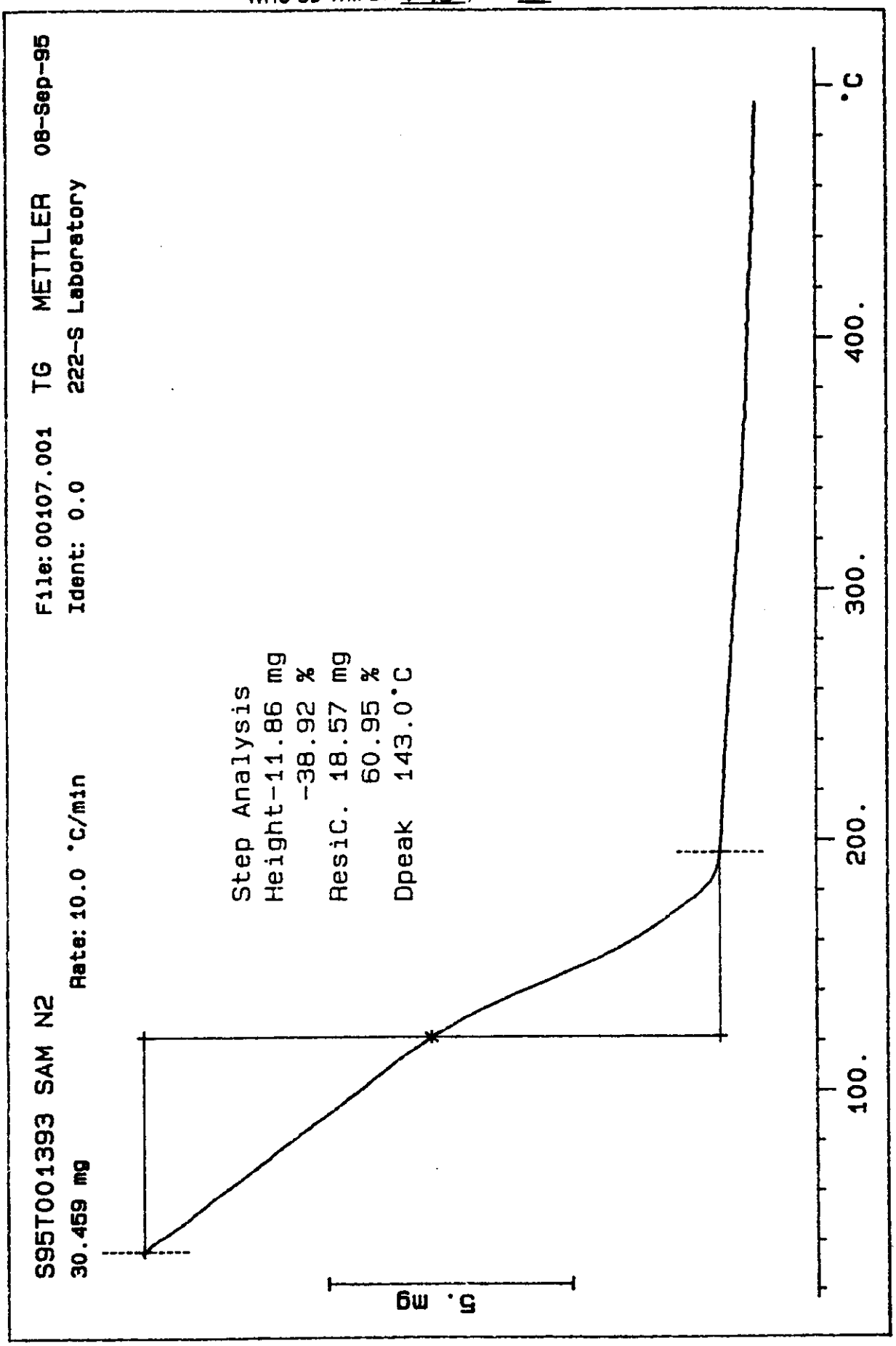


BEST AVAILABLE COPY

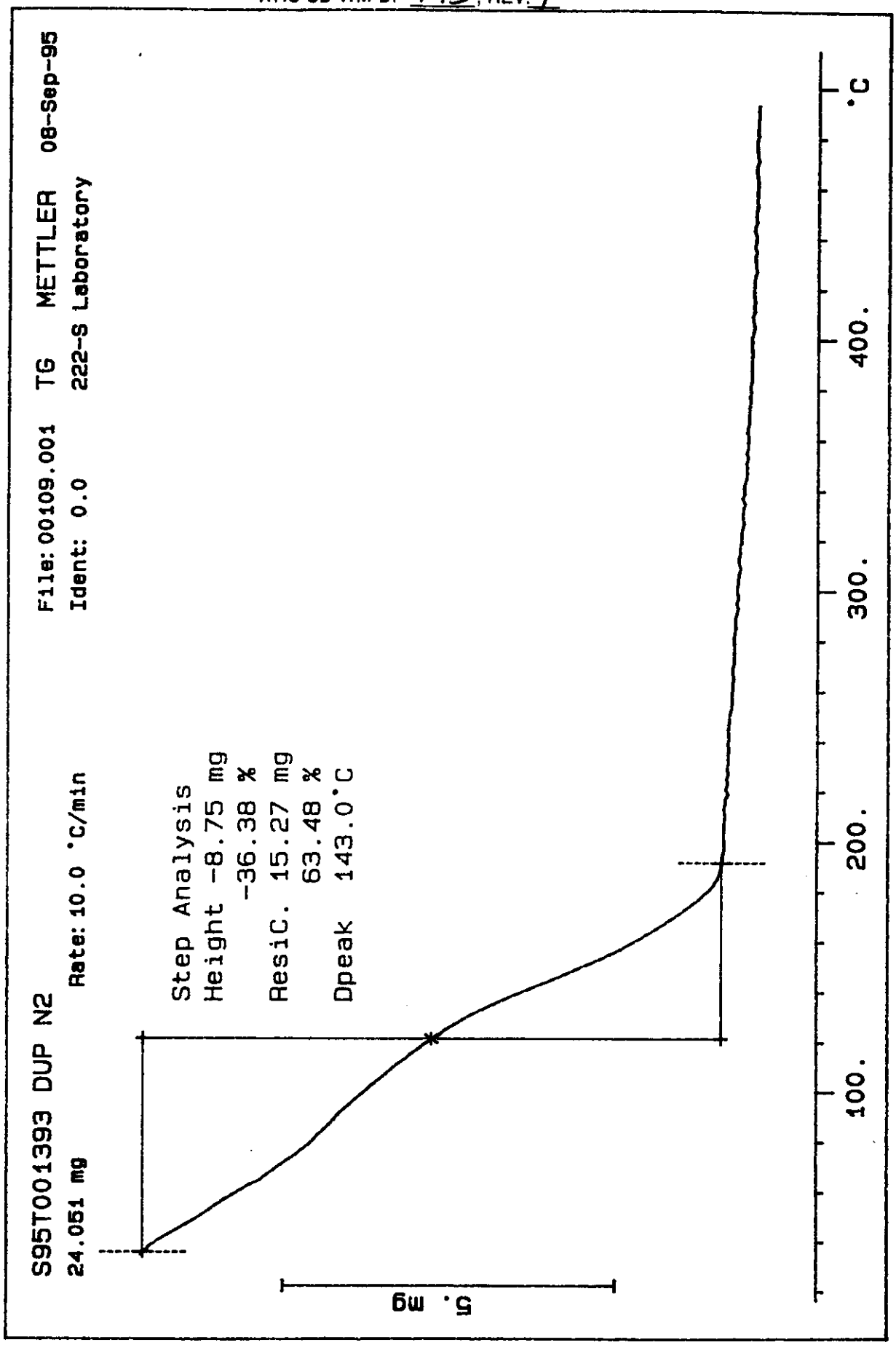


WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2159

Analyst: JDS **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.28	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001432	0		TGA-01	SOLID	N/A	41.31		%
95000104	BY-108 (R)	3 DUP	S95T001432	0		TGA-01	SOLID	41.31	38.53	N/A	%

Final page for worklist # 2159

See Attached for Signature
Analyst Signature **Date** 9/7/95

Verified by Blandina Valenzuela 9-28-95

LS
Analyst Signature 9-26-95 **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2159

Analyst: JLS **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.28	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001432	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	3	DUP	S95T001432	0		TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001431	0		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	5	DUP	S95T001431	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2159

JLS 9-5-95
Analyst Signature **Date**

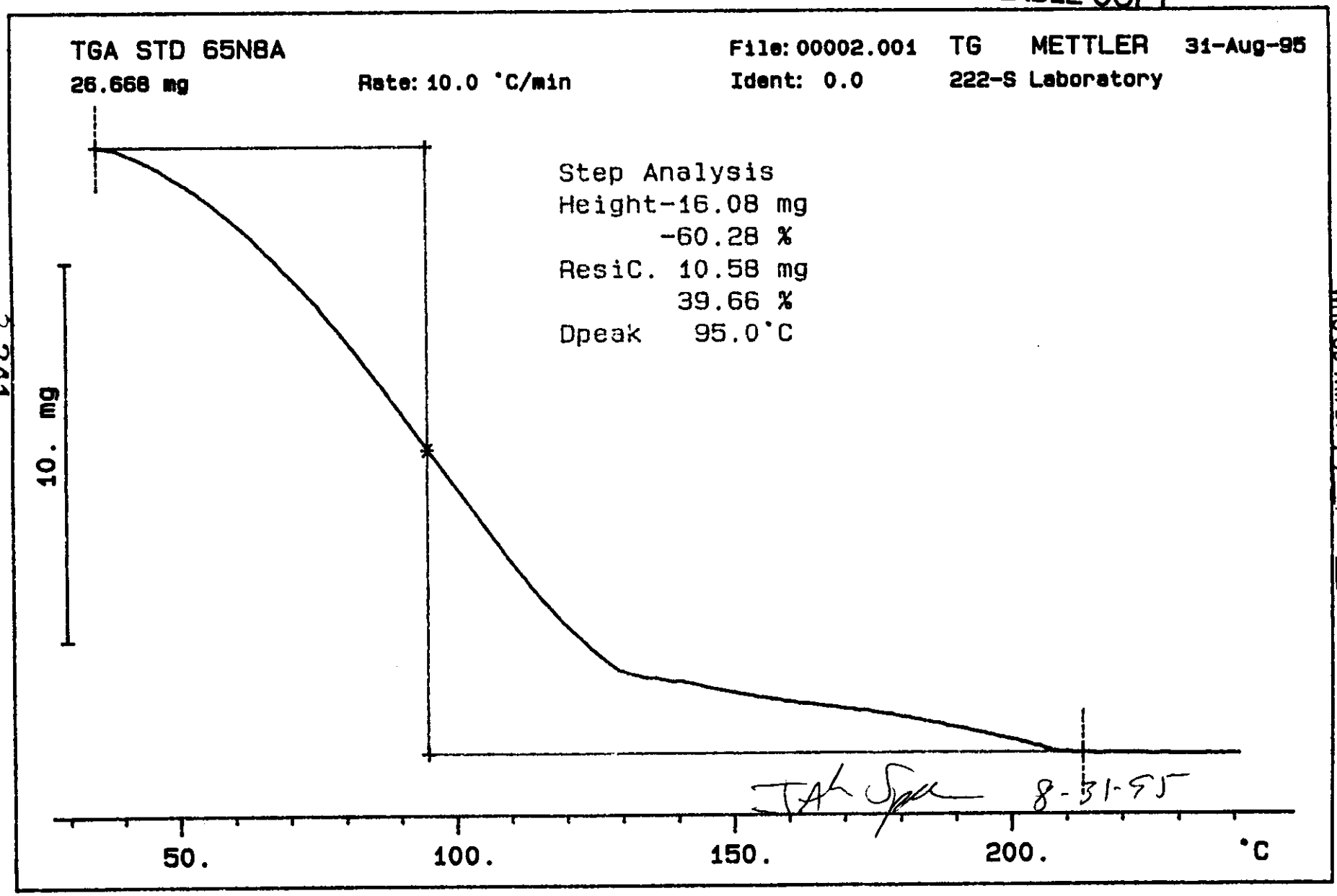
Analyst Signature **Date**

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2214 TO 2213.

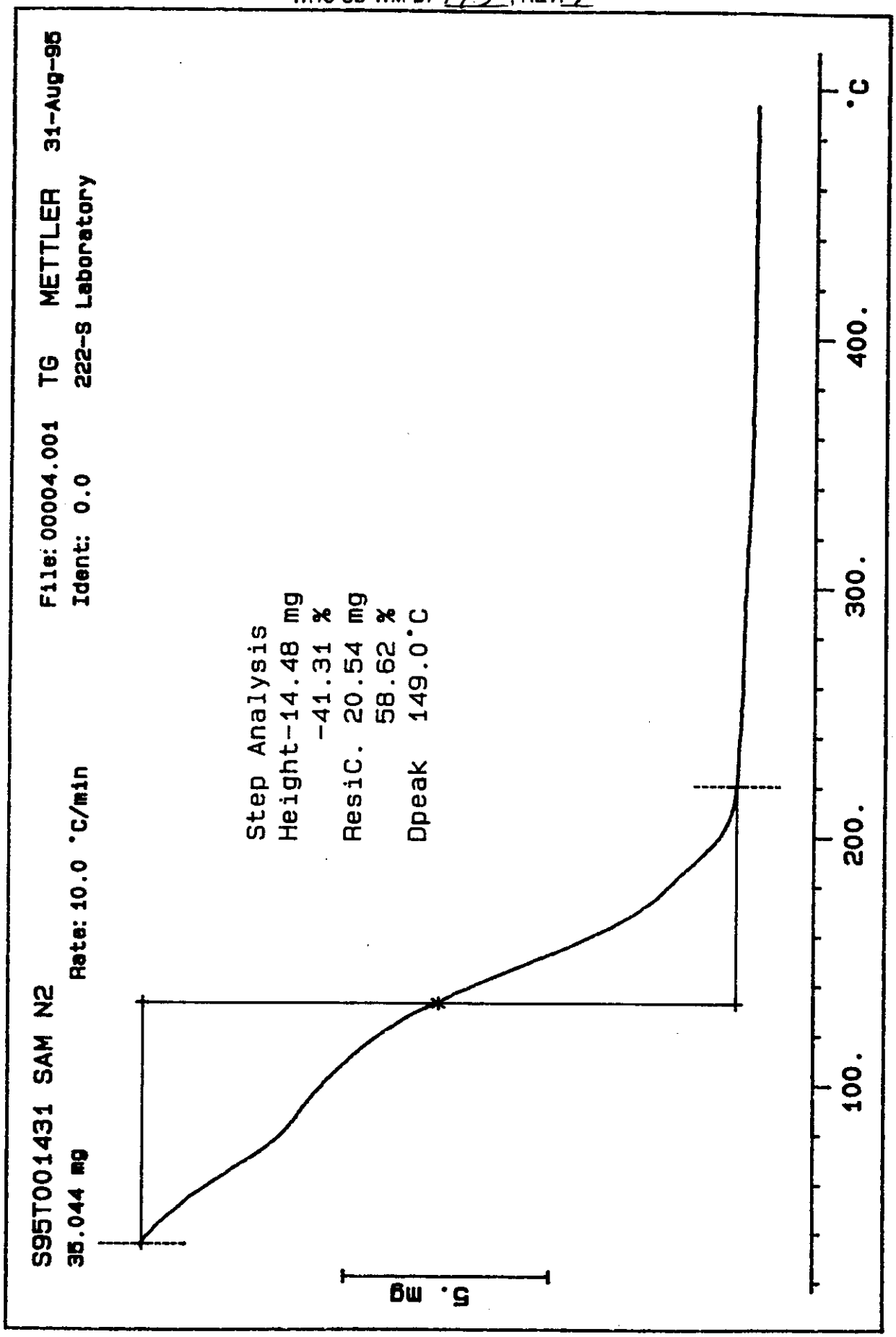
BEST AVAILABLE COPY



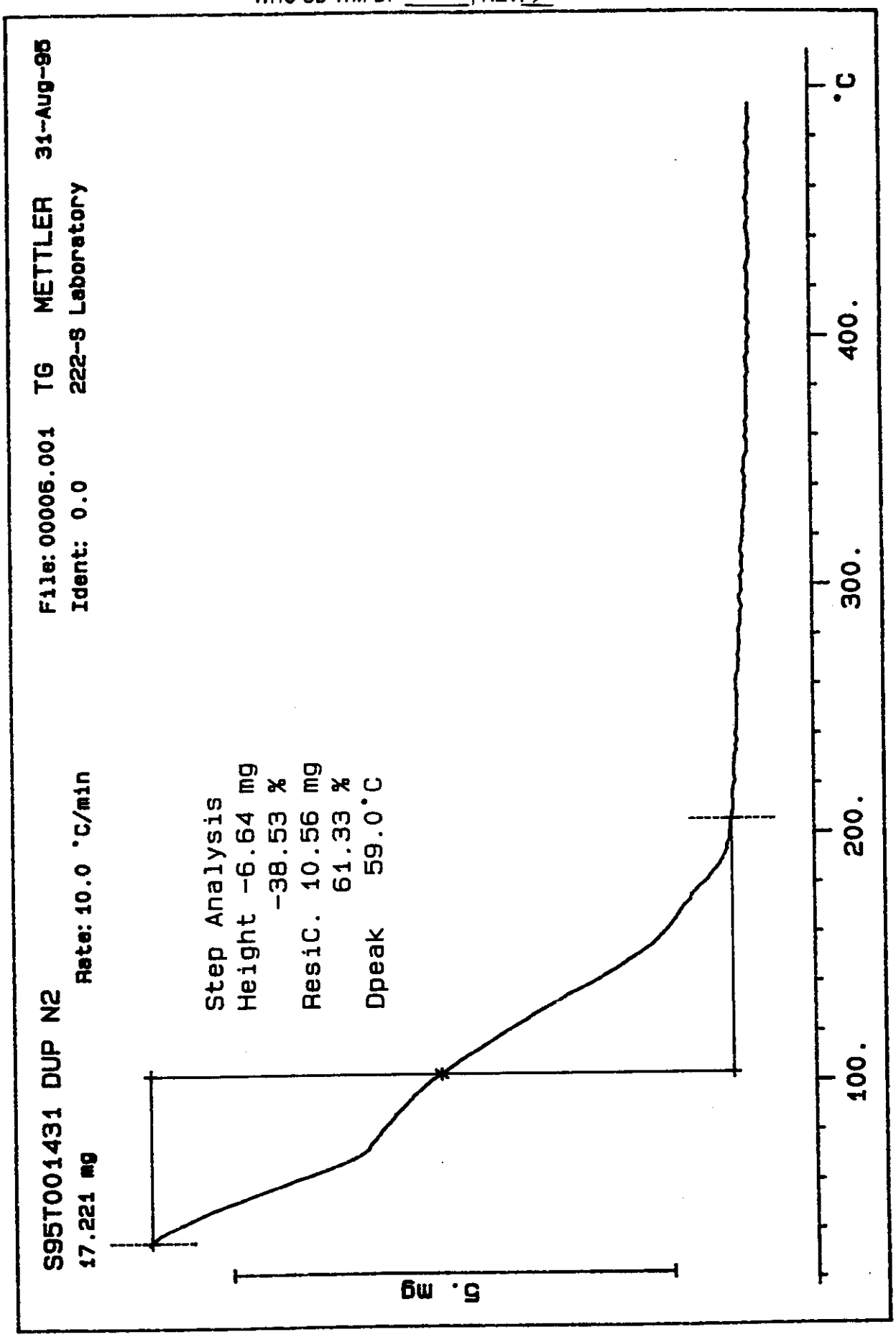
2-241

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2160

Analyst: SMF **Instrument:** TGA0 3 **Book #** 65N8-A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.74	60.00	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001586	0		TGA-03	SOLID	N/A	15.74		%
95000118	BY-108 (R)	3 DUP	S95T001586	0		TGA-03	SOLID	15.74	15.02	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001587	0		TGA-03	SOLID	N/A	10.41		%
95000118	BY-108 (R)	5 DUP	S95T001587	0		TGA-03	SOLID	10.41	12.77	N/A	%
95000118	BY-108 (R)	6 TRIPL	S95T001587	0		TGA-03	SOLID	10.41	13.00	N/A	%

Final page for worklist # 2160

See attached for signatures
Analyst Signature Date 8-31-95

Verified by Blandina Valenzuela BDV 8-31-95

Analyst Signature Date 8-31-95

Data Entry Comments: S95T001587 produced a second weight loss step of 25.41% at approximately 175°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2160

Analyst: SMF **Instrument:** TGA0 _____ **Book #** 65N8-A

Method: ~~LA-560-112 Rev/Mod~~ LA-514-1141/B0
SMF 8-30-95

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	_____	_____	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001586	0		TGA-01	SOLID	N/A	_____	_____	%
95000118	BY-108 (R)	3 DUP	S95T001586	0		TGA-01	SOLID	_____	_____	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001587	0		TGA-01	SOLID	N/A	_____	_____	%
95000118	BY-108 (R)	5 DUP	S95T001587	0		TGA-01	SOLID	_____	_____	N/A	%

Final page for worklist # 2160

S Sutherland 8-30-95
Analyst Signature **Date**

_____
Analyst Signature **Date**

Other instrument was used
8-31-95
BDV

Data Entry Comments:

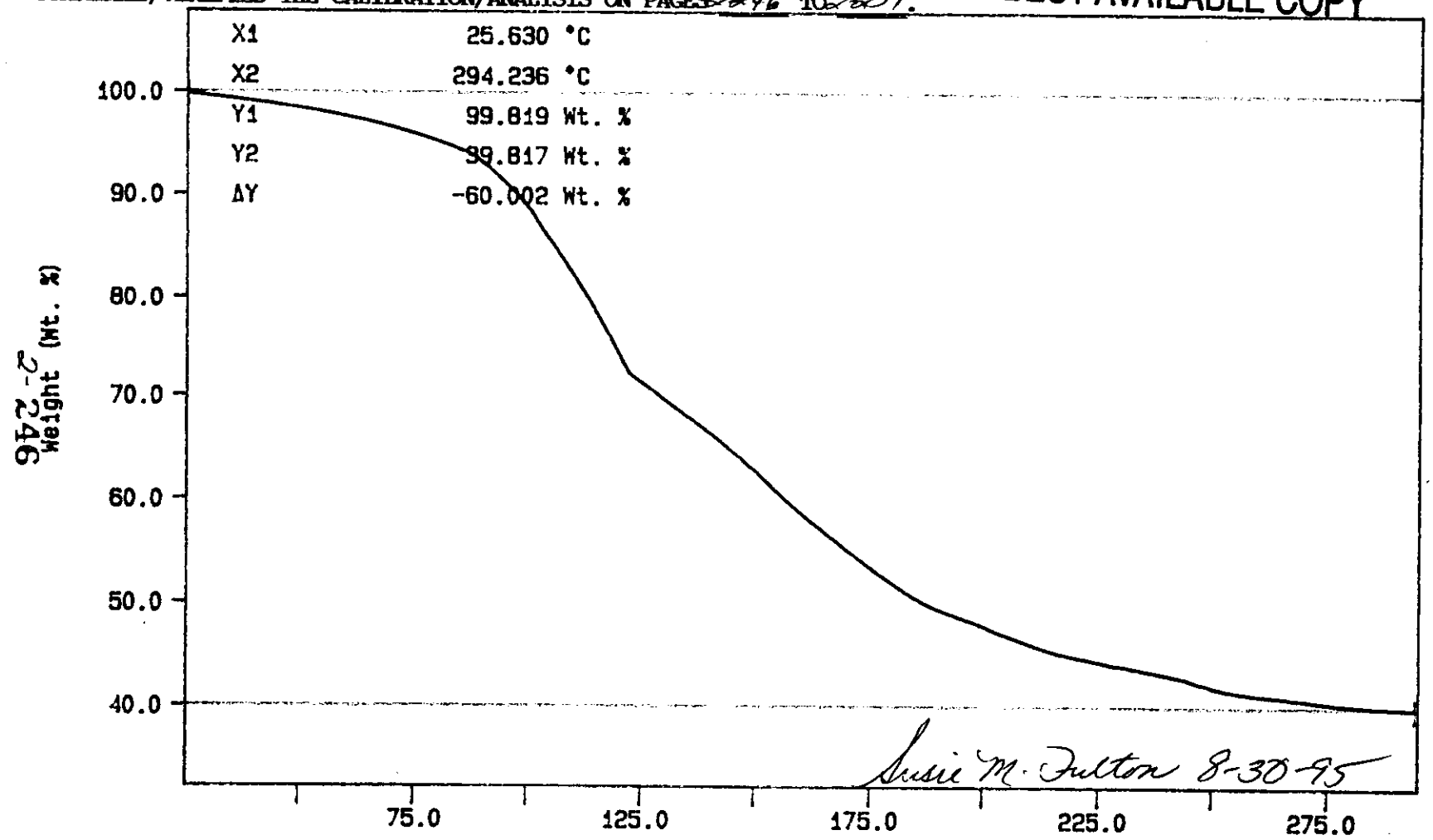
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

2-245

Curve 1: TGA
File info: TER083001 Wed Aug 30 16:42:54 1995
Sample Weight: 20.662 mg
65N8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2246 TO 2251.

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

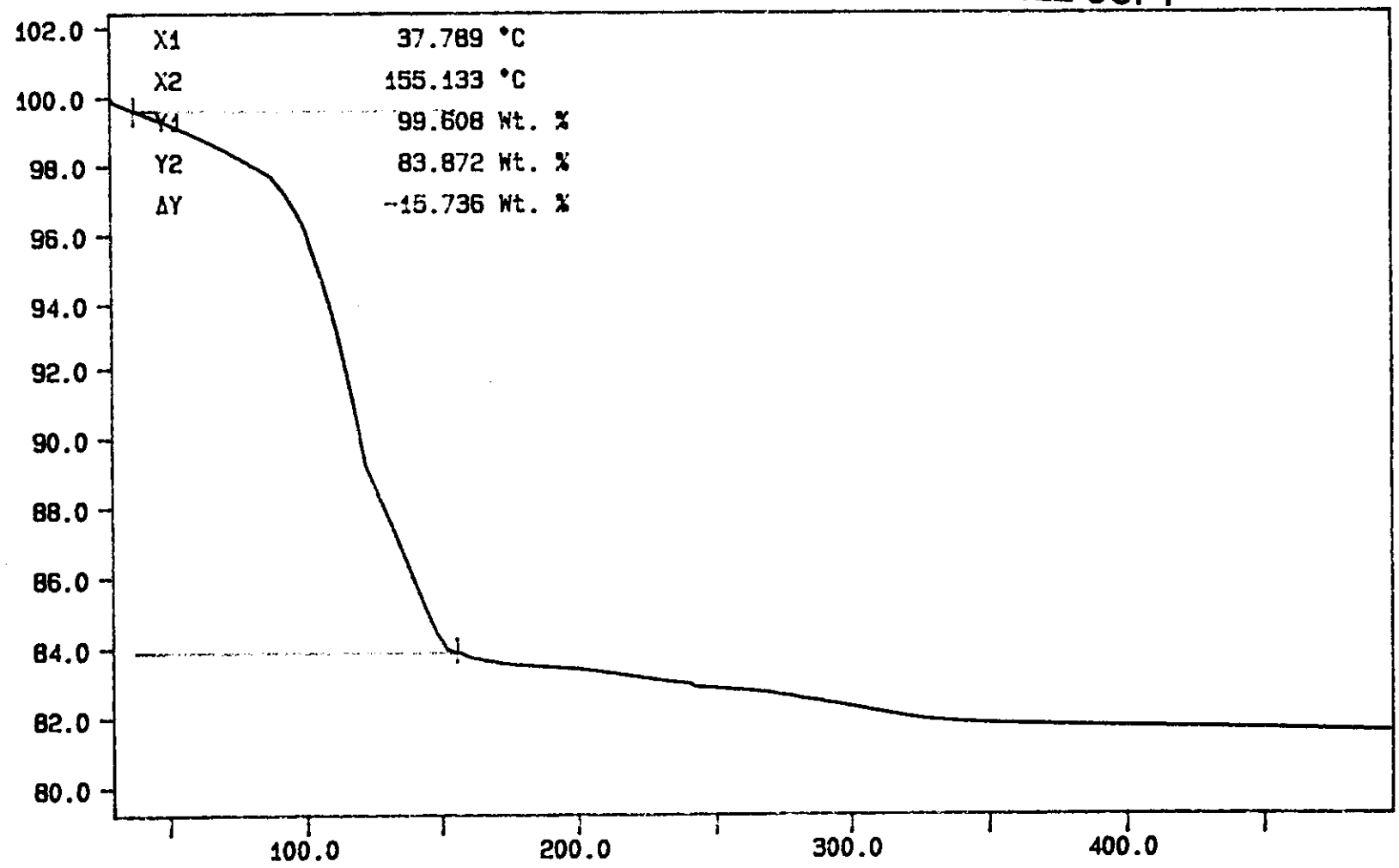
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 16:46:35 1995

2246

WHC-SD-WM-DP-145, REV 1

Curve 1: TGA
File info: SAM083001 Wed Aug 30 17:46:11 1995
Sample Weight: 21.617 mg
S95T001586

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

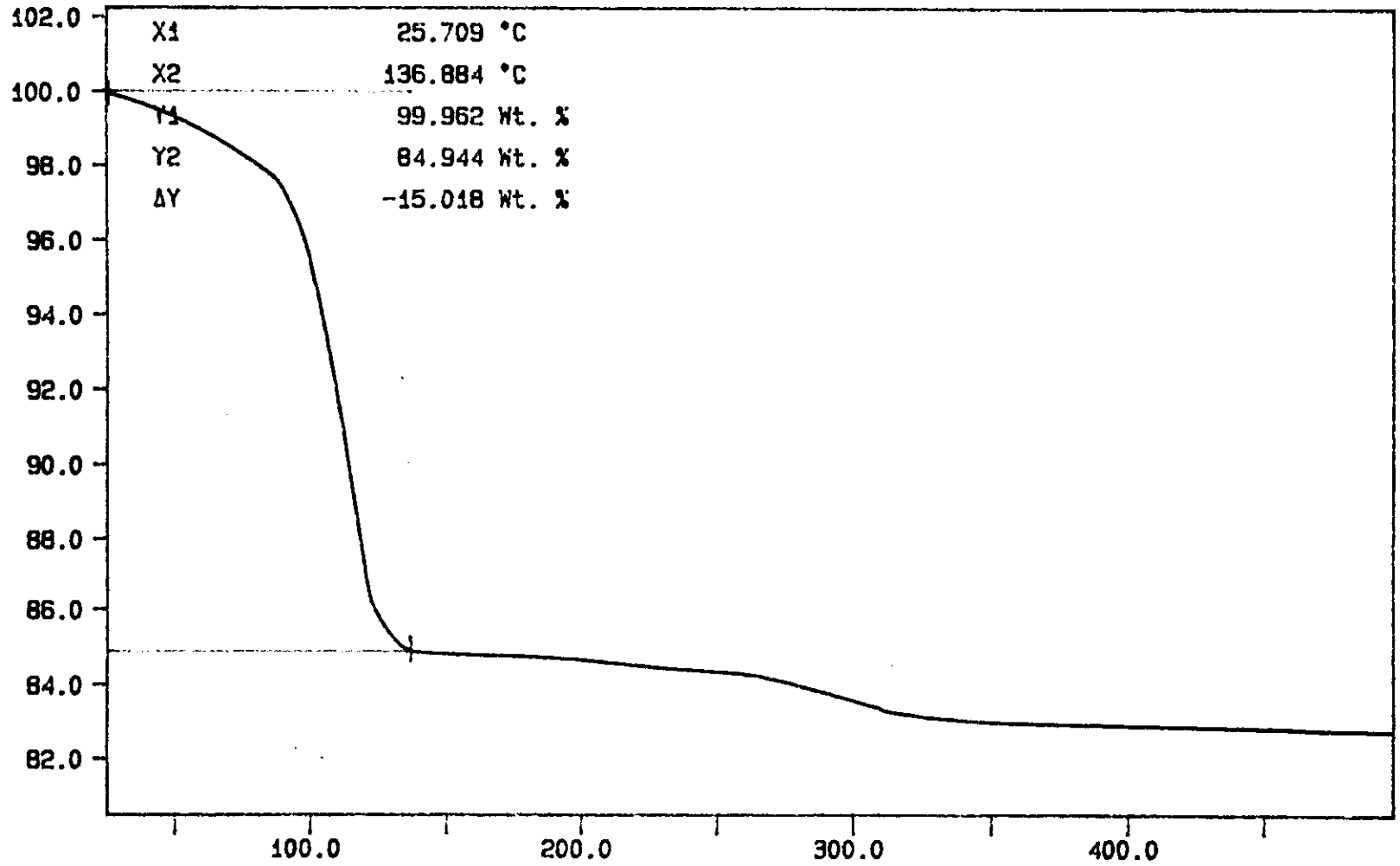
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 18:16:32 1995

WHC-SD-WM-DP-145, REV. 1

2-247

Curve 1: TGA
File info: SAM083002 Wed Aug 30 19:09:47 1995
Sample Weight: 16.559 mg
S95T001586 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

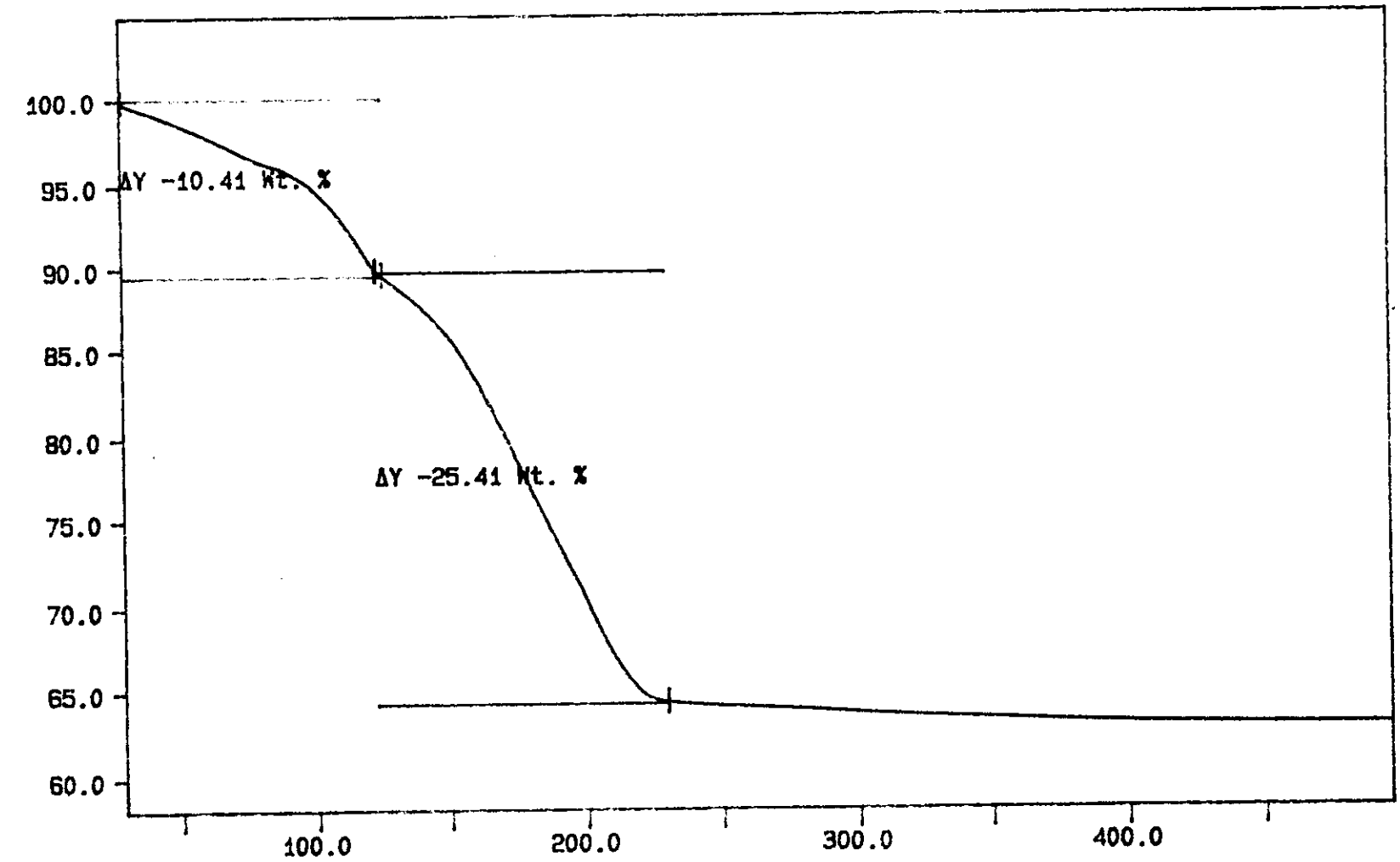
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Aug 30 19:22:54 1995

2-248

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM083003 Wed Aug 30 20:18:32 1995
Sample Weight: 29.059 mg
S95T001587

BEST AVAILABLE COPY



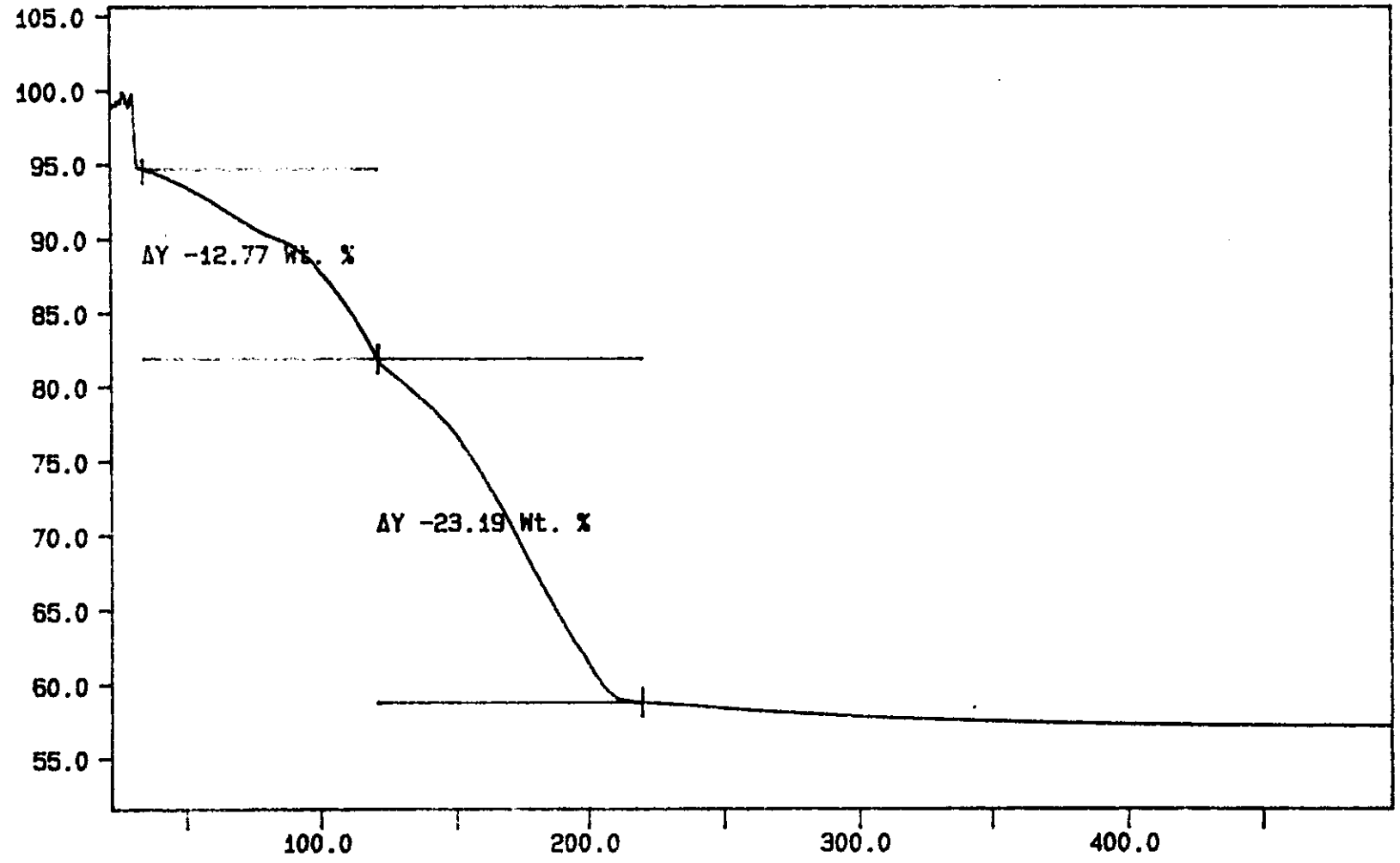
N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 800.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 10:42:08 1995

WHC-SD-WM-DP-[illegible], REV. 7

Curve 1: TGA
File info: SAM083004 Wed Aug 30 22:10:07 1995
Sample Weight: 20.160 mg
S95T001587 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

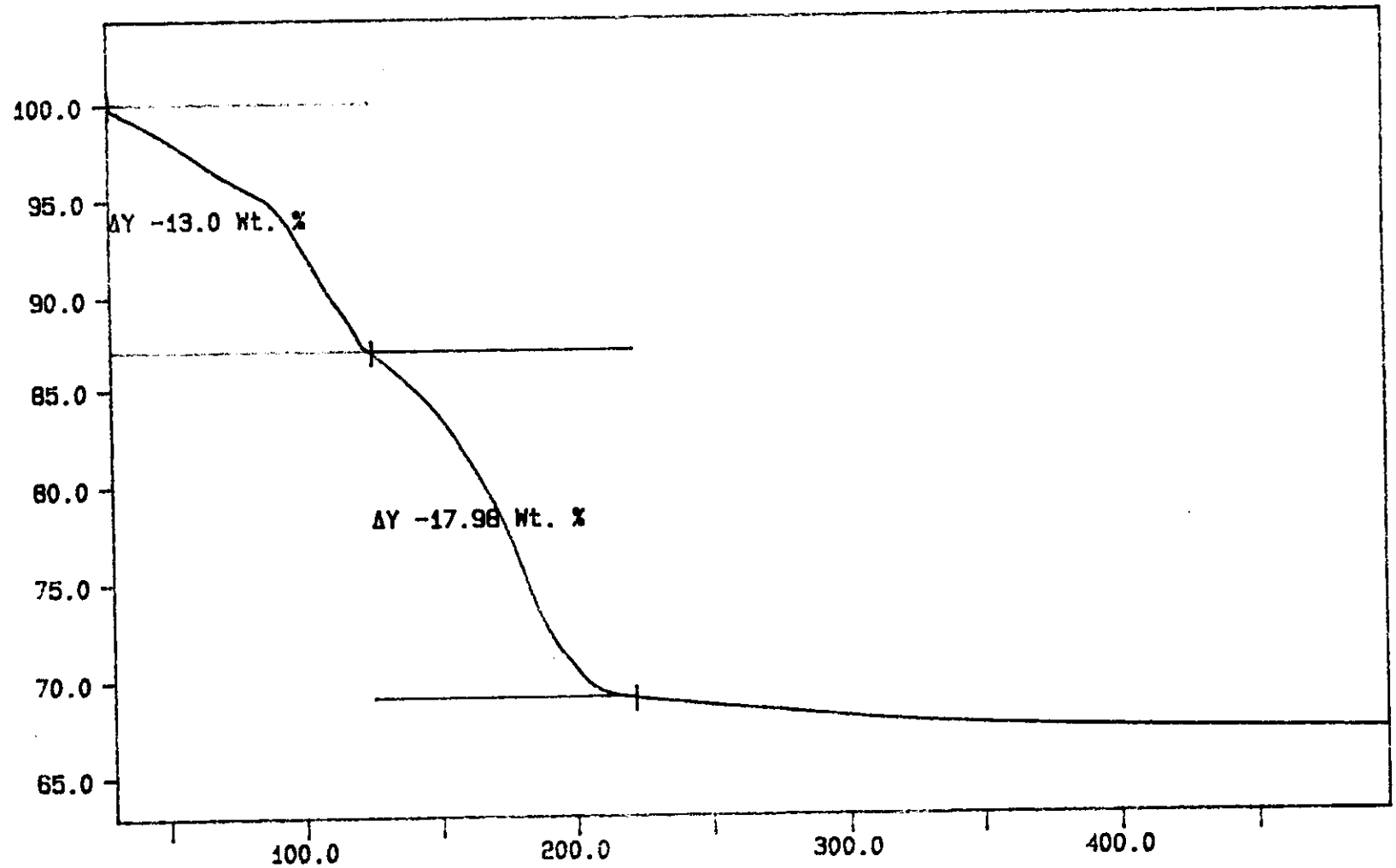
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 10:56:08 1995

WHC-SD-WM-DP-145, REV. 1

2-250

Curve 1: TGA
File info: SAM083005 Wed Aug 30 23:16:10 1995
Sample Weight: 18.168 mg
S95T001587 TRIP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 11:01:42 1995

2-251

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2161

Analyst: SMF **Instrument:** TGA0 1 **Book #** 65N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.47	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001588	0		TGA-01	SOLID	N/A	29.88		%
95000118	BY-108 (R)	3 DUP	S95T001588	0		TGA-01	SOLID	29.88	30.68	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001589	0		TGA-01	SOLID	N/A	22.95		%
95000118	BY-108 (R)	5 DUP	S95T001589	0		TGA-01	SOLID	22.95	23.67	N/A	%

Final page for worklist # 2161

Susie M. Dalton 8-30-95
Analyst Signature **Date**

Analyst Signature 8-31-95 **Date**

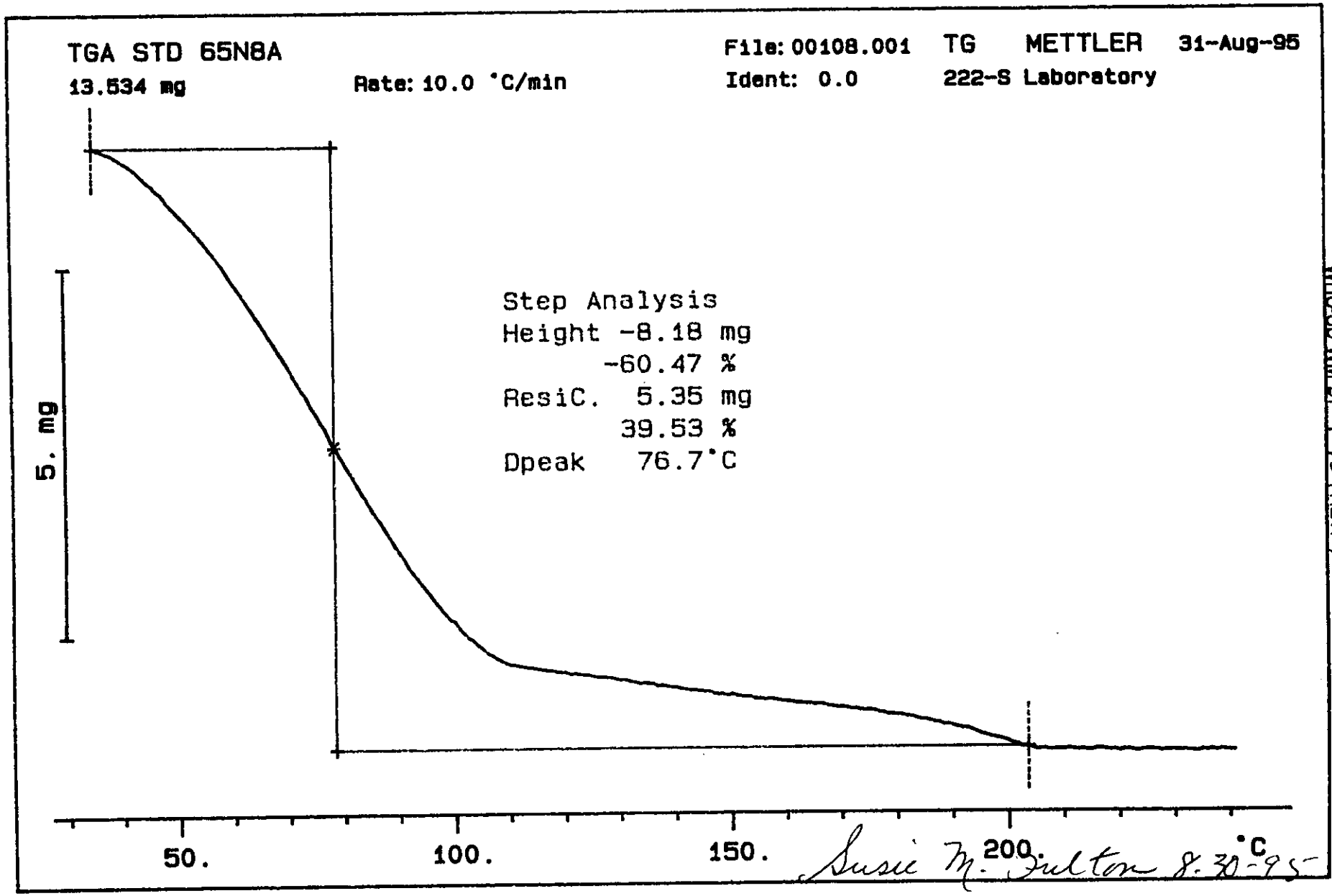
Verified 9/1/95 J. M. Jaye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES-2253 TO 2257.

BEST AVAILABLE COPY

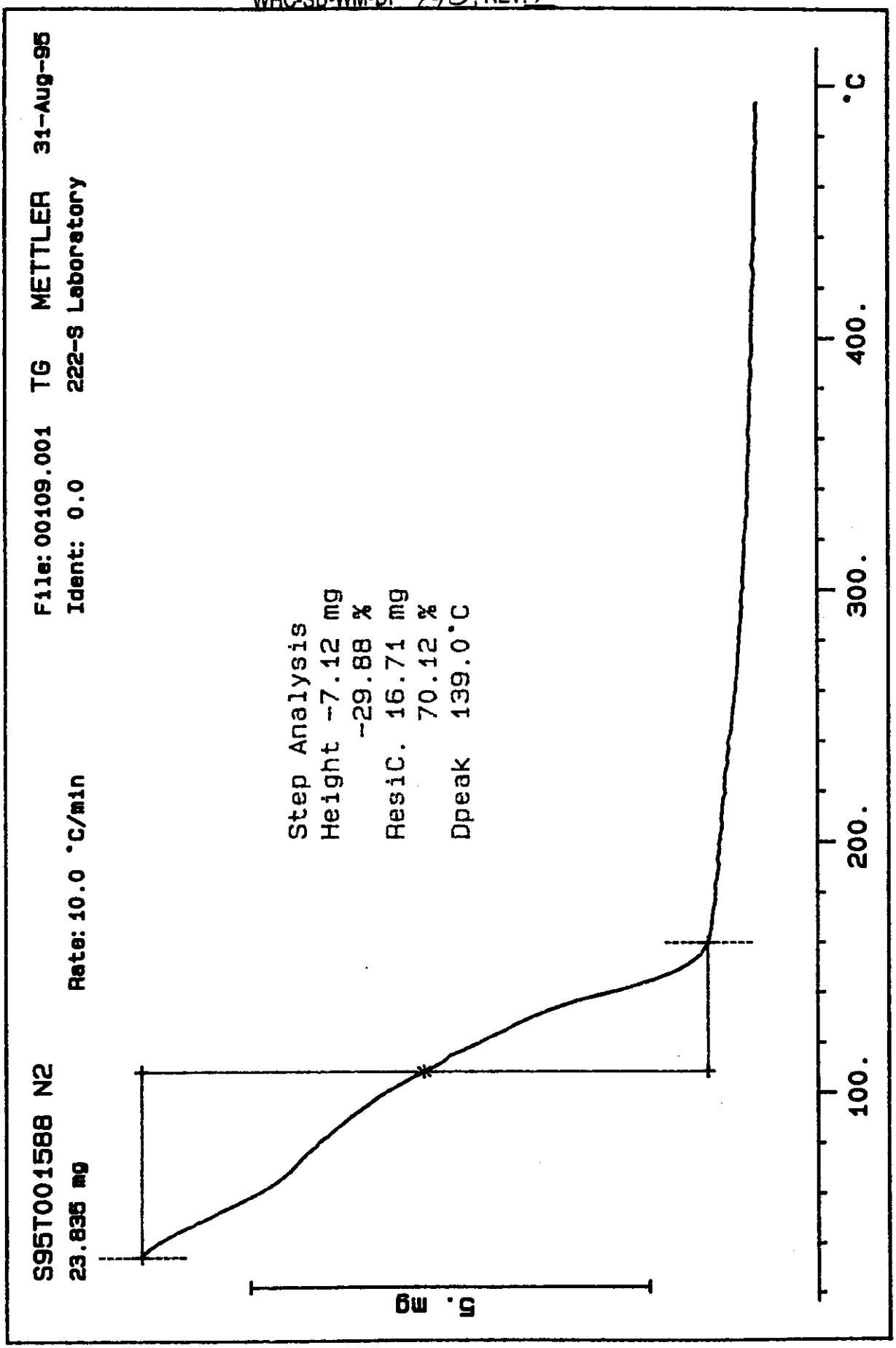


Susie M. Fulton 8-30-95

2-253

WHC-SD-WM-DP-145 REV. 1

BEST AVAILABLE COPY



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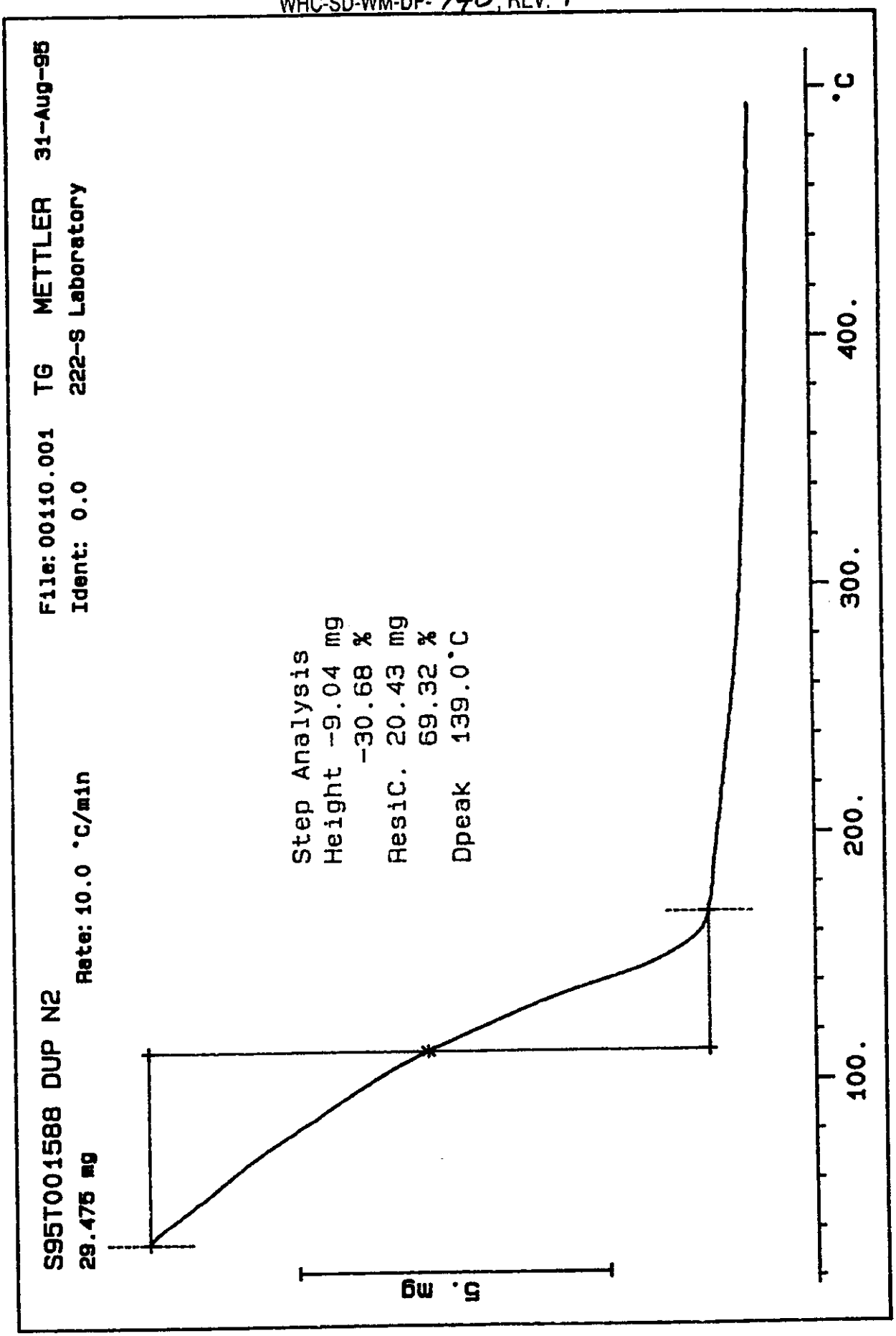

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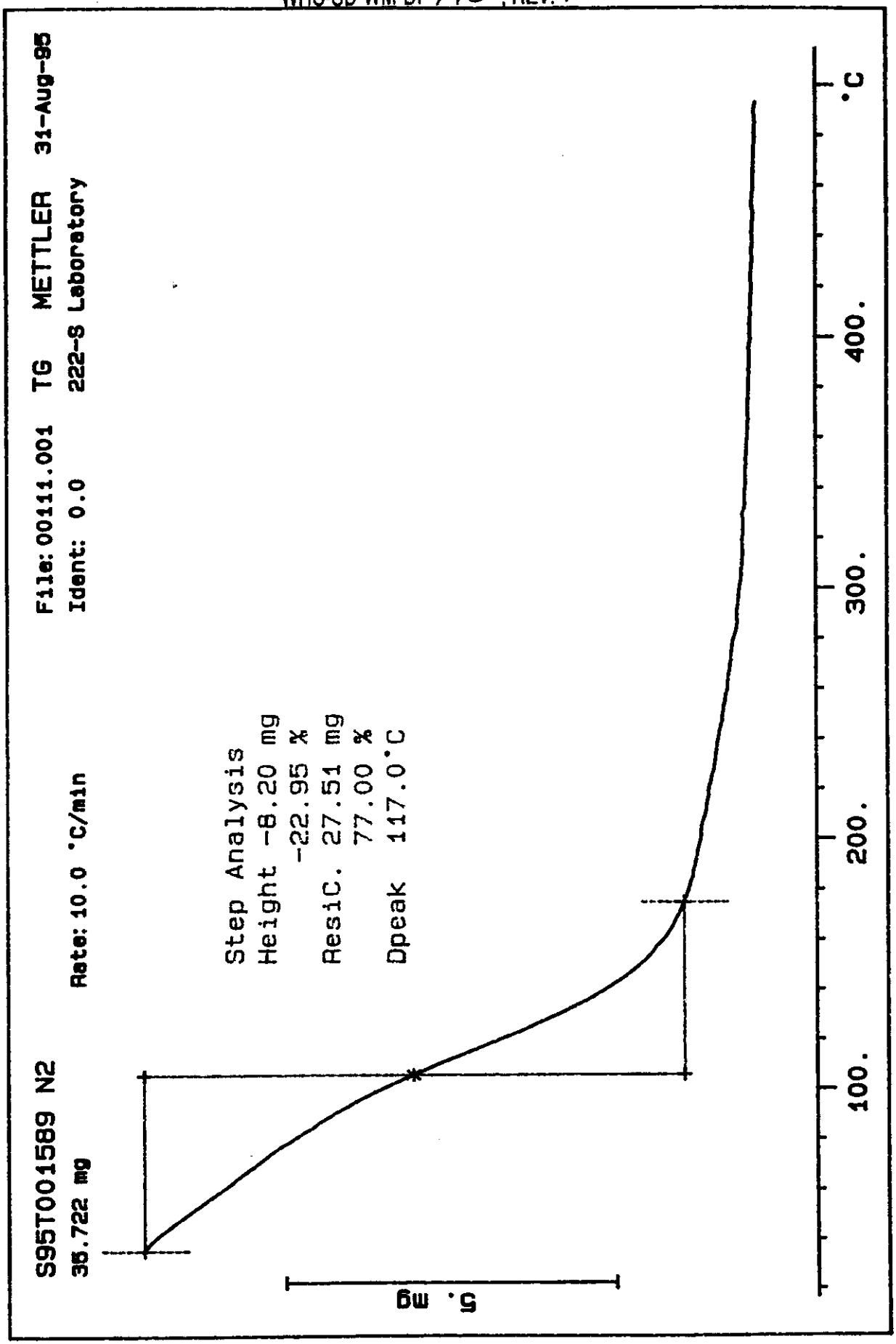

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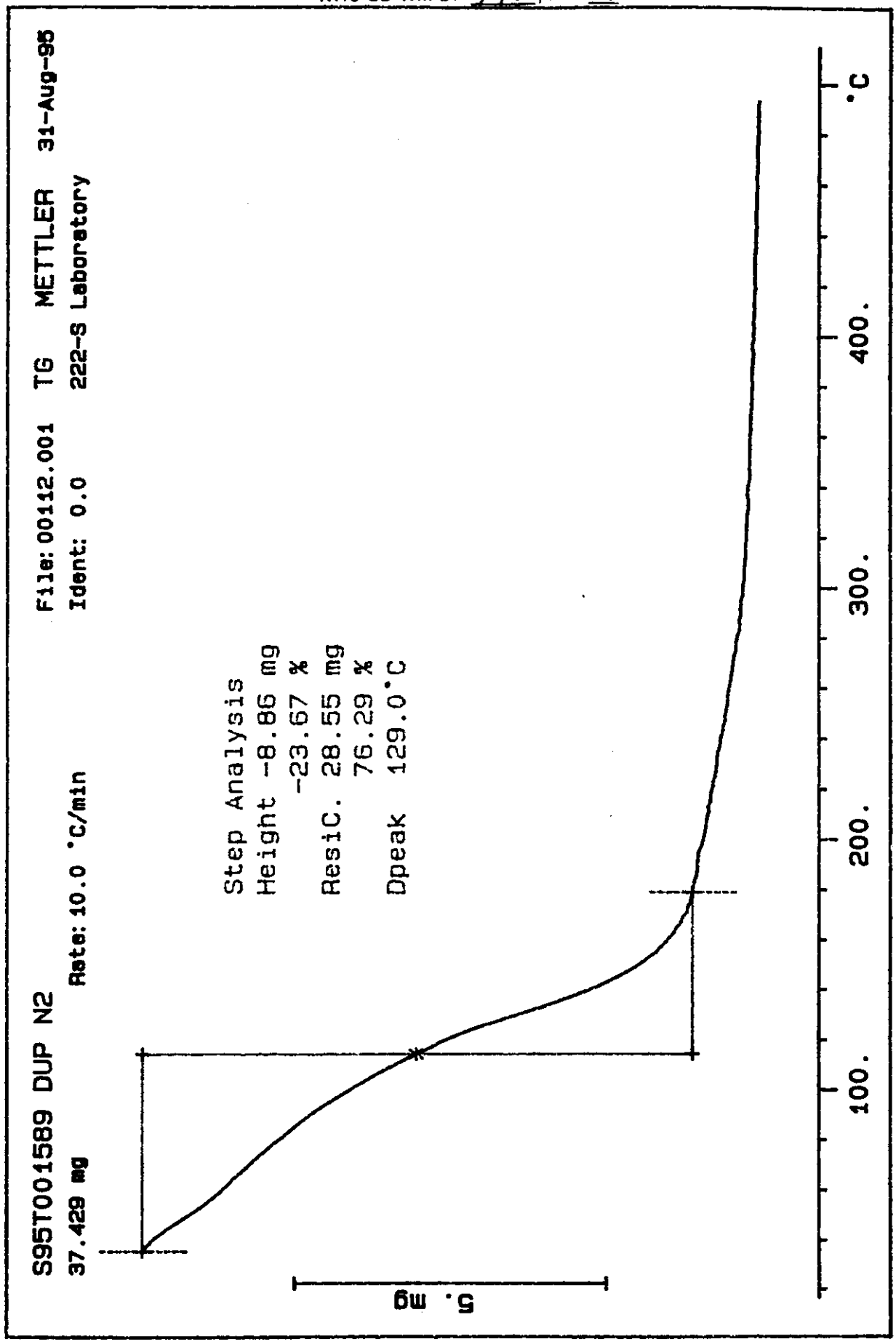

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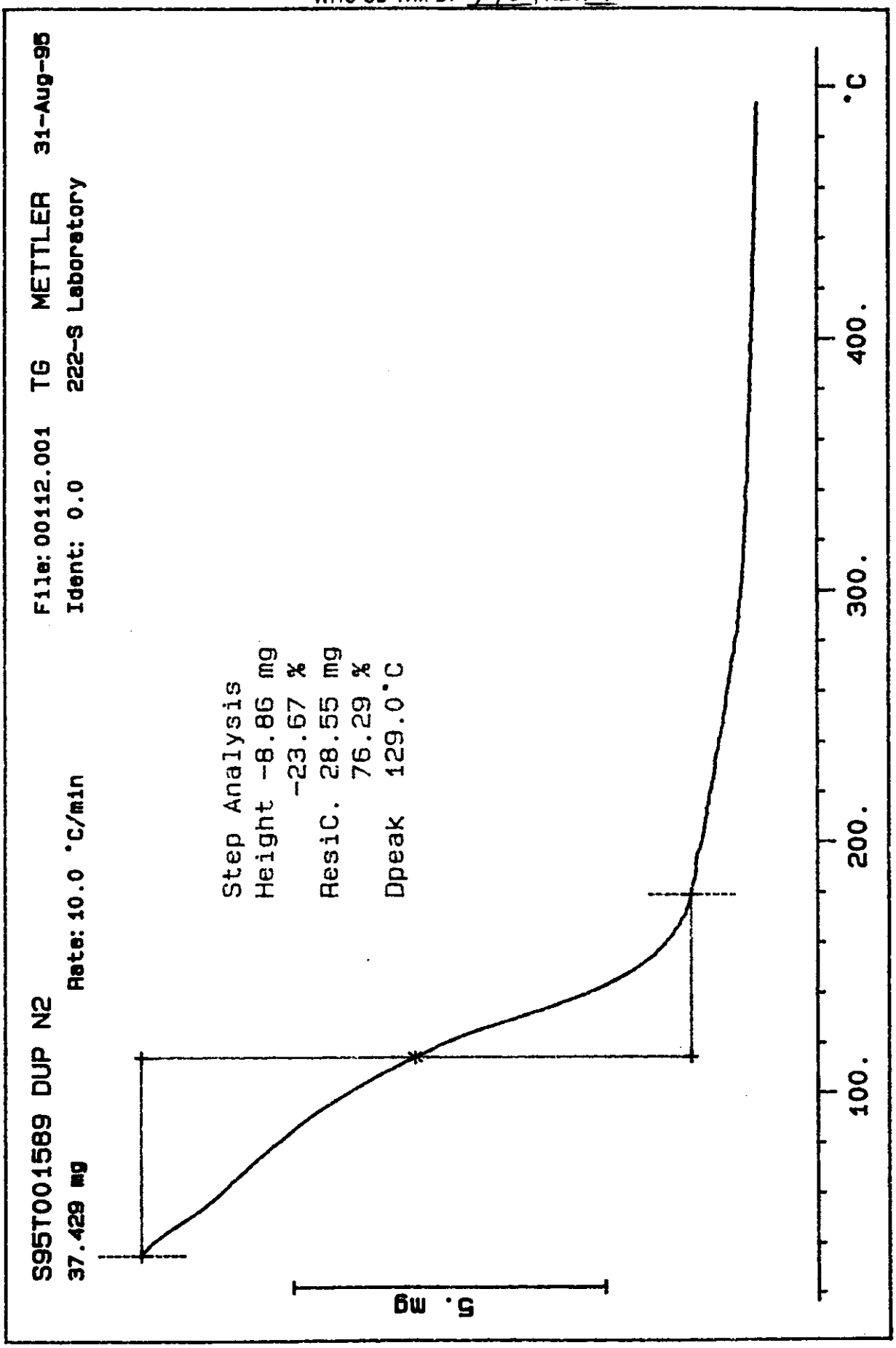


LABCORE Data Entry Template for Worklist# 2200

Analyst: RDM **Instrument:** TGA0 1 **Book #** 65NB-A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	LIQUID	59.74	60.60	N/A	%
95000101	BY-108 (R)	2 SAMPLE	S95T001365	0		TGA-01	LIQUID	N/A	100.0		%
95000101	BY-108 (R)	3 DUP	S95T001365	0		TGA-01	LIQUID	100.0	100.0	N/A	%
95000104	BY-108 (R)	4 SAMPLE	S95T001430	0		TGA-01	LIQUID	N/A	38.58		%
95000104	BY-108 (R)	5 DUP	S95T001430	0		TGA-01	LIQUID	38.58	39.47	N/A	%

Final page for worklist # 2200

RDMoyn 9/20/95
Analyst Signature **Date**

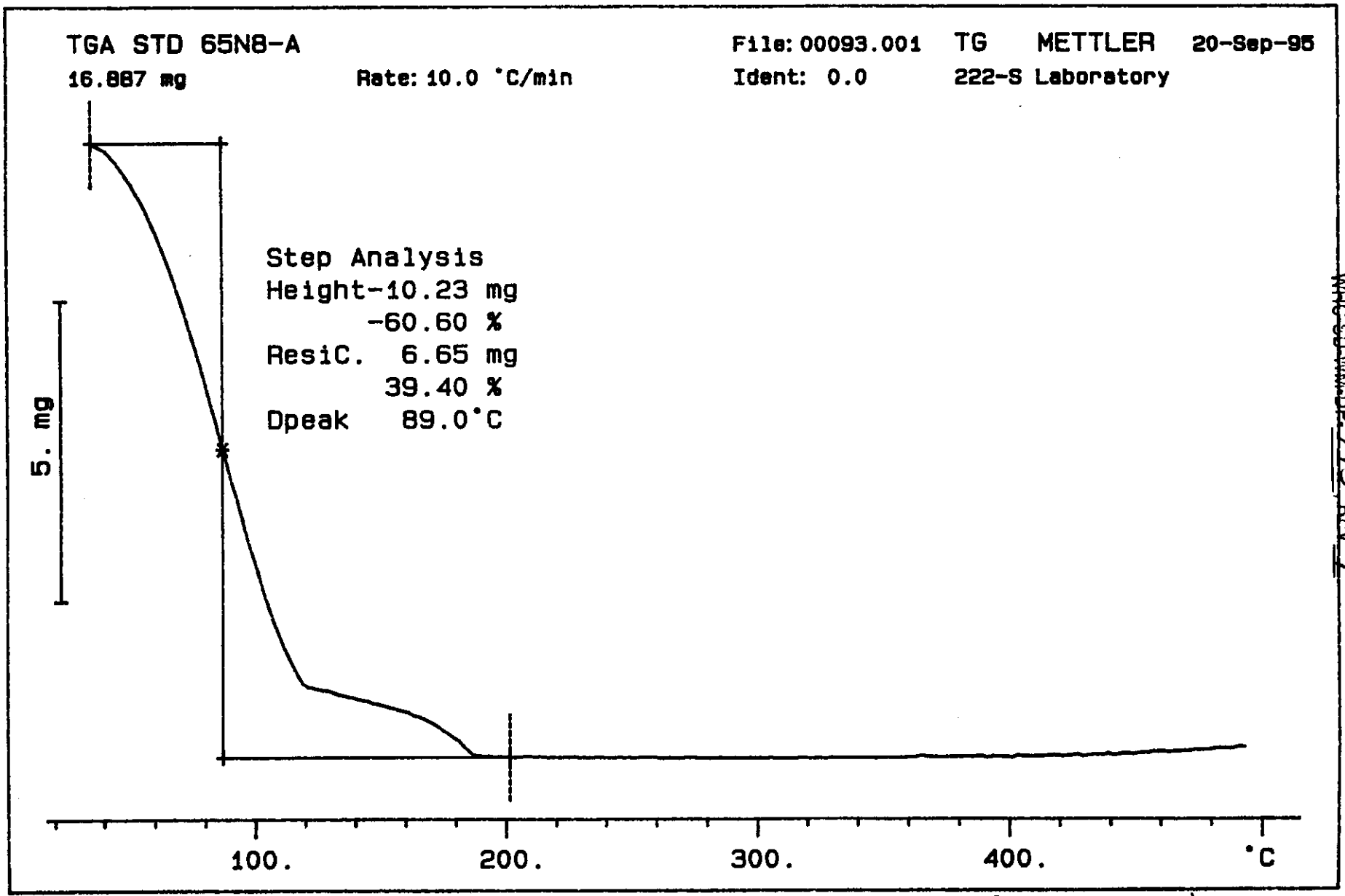
[signature] 9-20-95
Analyst Signature **Date**

9-21-95 BDV
Verified by Blandina Valenzuela 9-21-95

Data Entry Comments: S95T001430 produced a second weight loss step of 13.66 % at approximately 143°C.

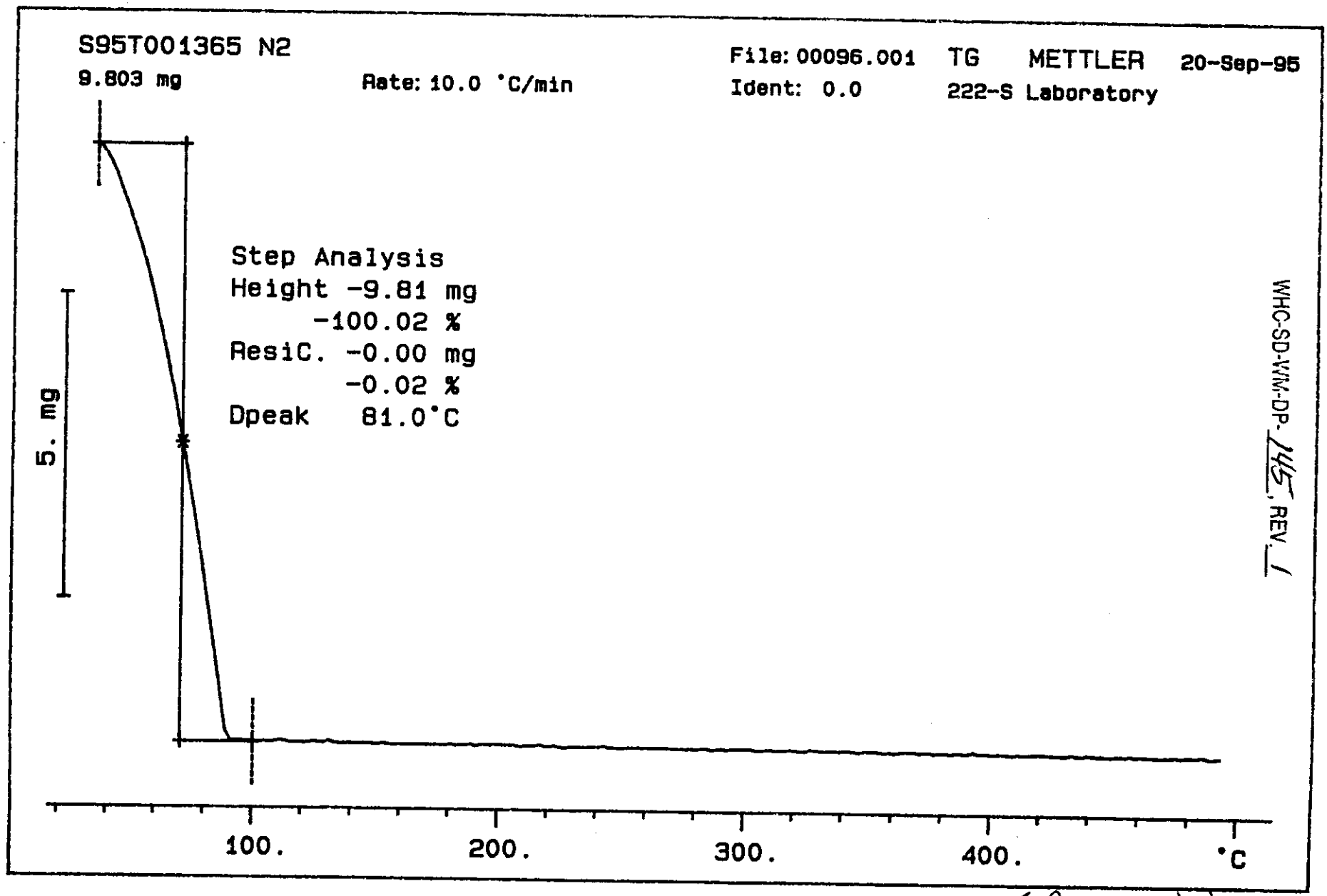
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-259 TO 2-263.



WHC SD WM-DP-145 REV 1

R [illegible] 9/20/95



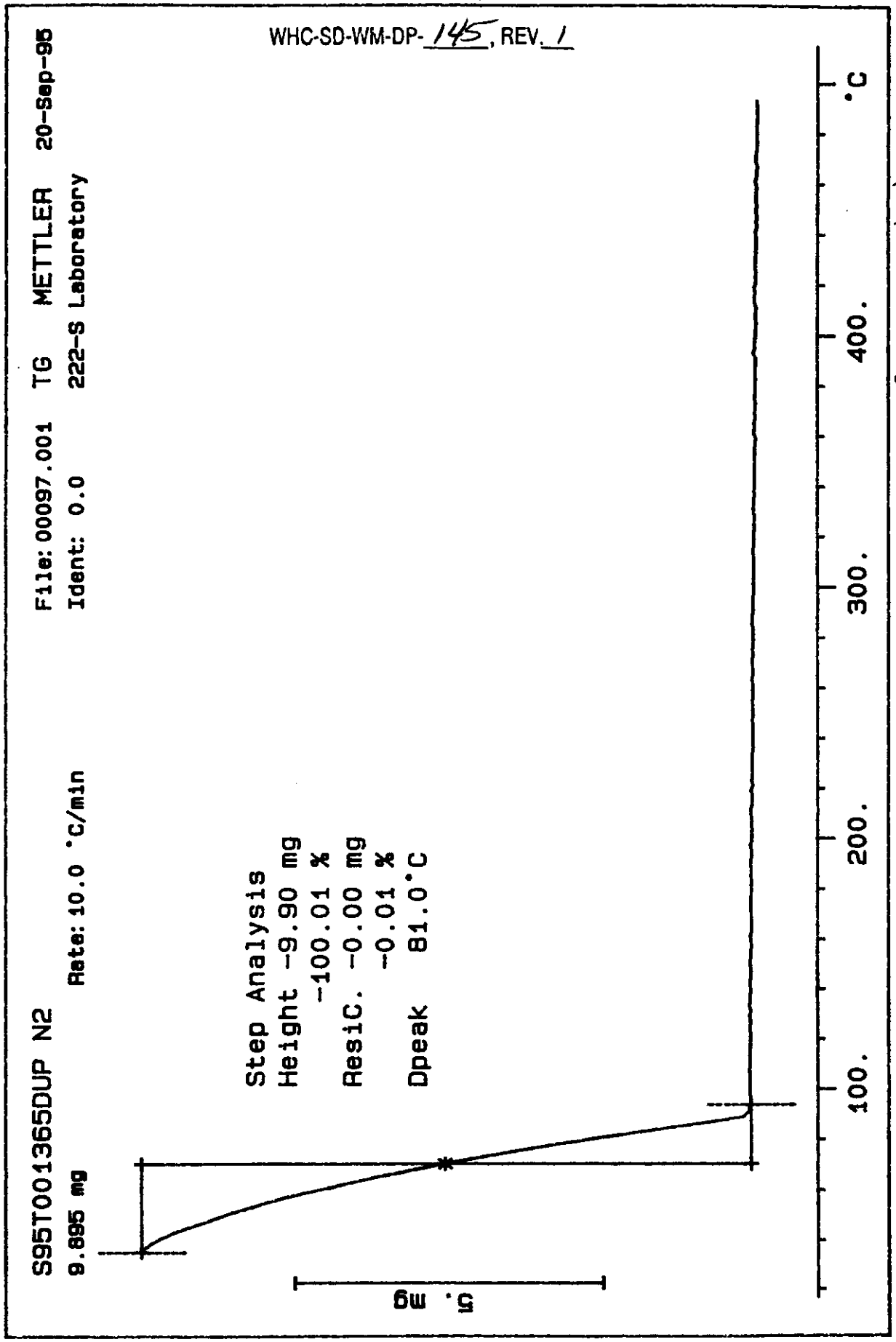
2-260

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 0

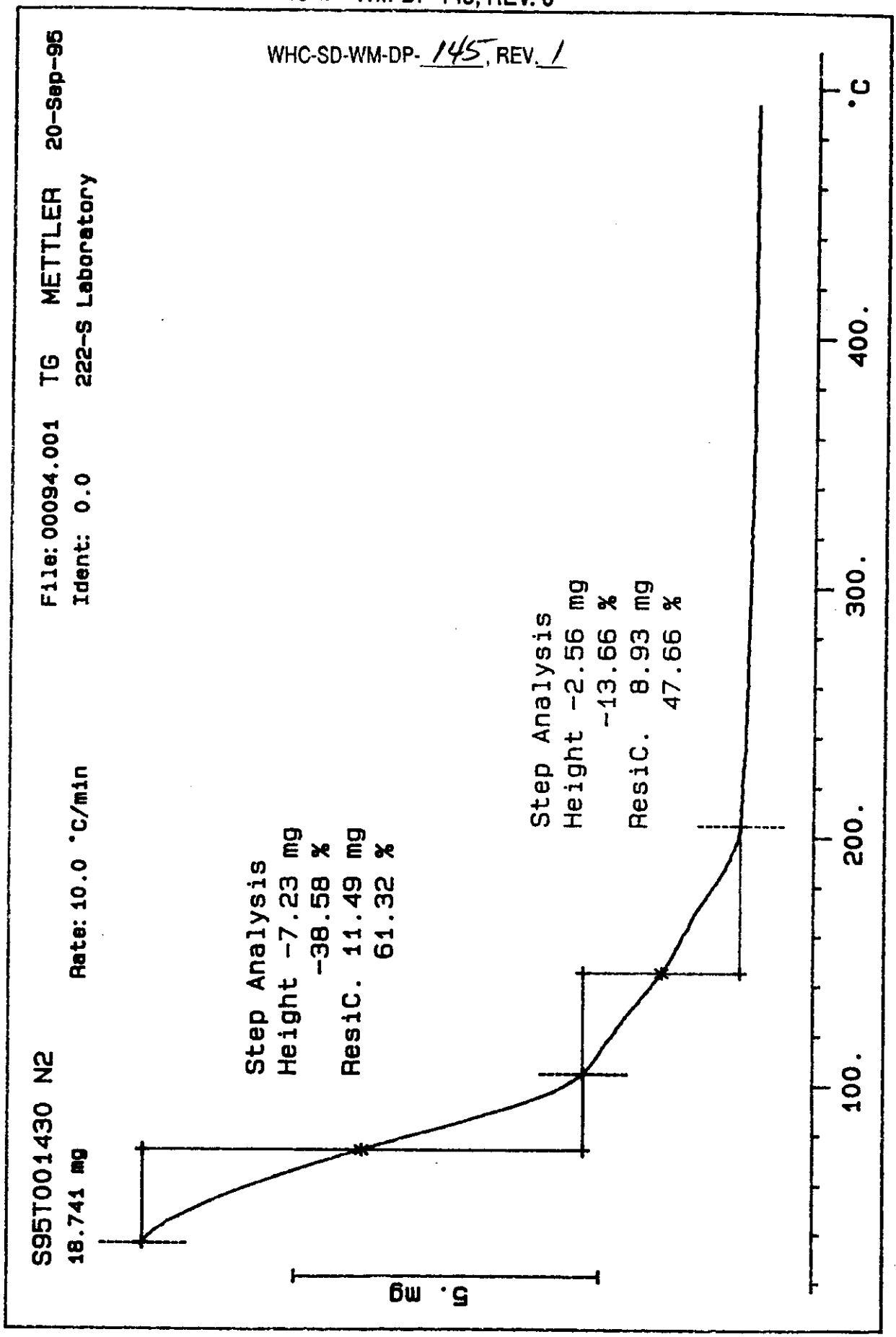
9/20/..

WHC-SD-WM-DP-145, REV. 1

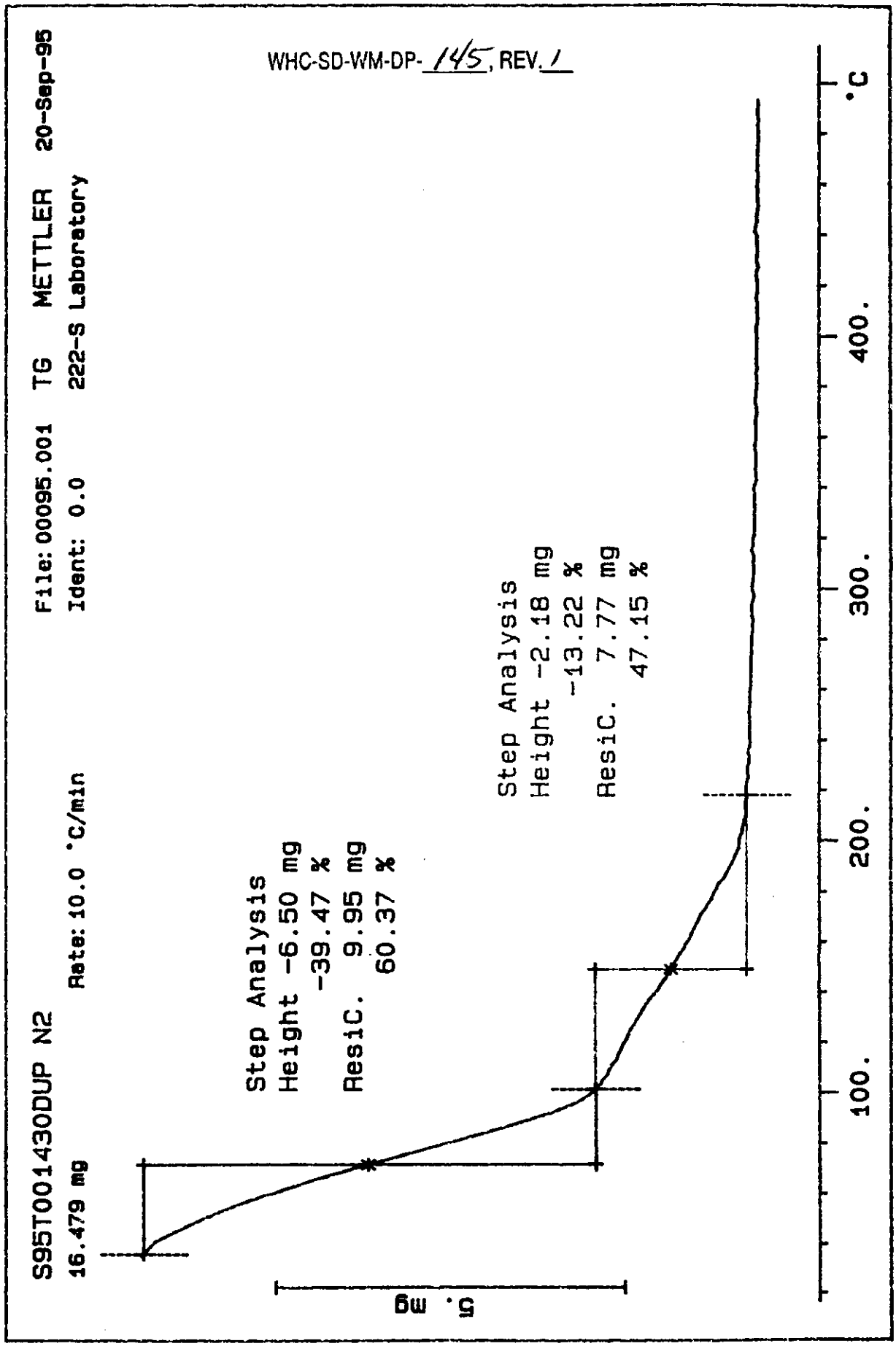


2-261

WHC-SD-WM-DP-145, REV. 1



WHC-SD-WM-DP-145, REV. 1



LABCORE Data Entry Template for Worklist# 2251

Analyst: JDS **Instrument:** DSC01 DSC03 **Book #** 65N8A

Method: LA-514-114 Rev/Mod B-0

Worklist Comment: BY-108 TGA. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	59.74	60.228	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001404	0	TGA-03	SOLID	N/A	14.64		%
95000104	BY-108 (R)	3 DUP	S95T001404	0	TGA-03	SOLID	14.64	14.87	N/A	%

Final page for worklist # 2251

[signature] 8-28-95

Analyst Signature Date

Analyst Signature Date

Entered & verified J.M. Luye 9/6/95

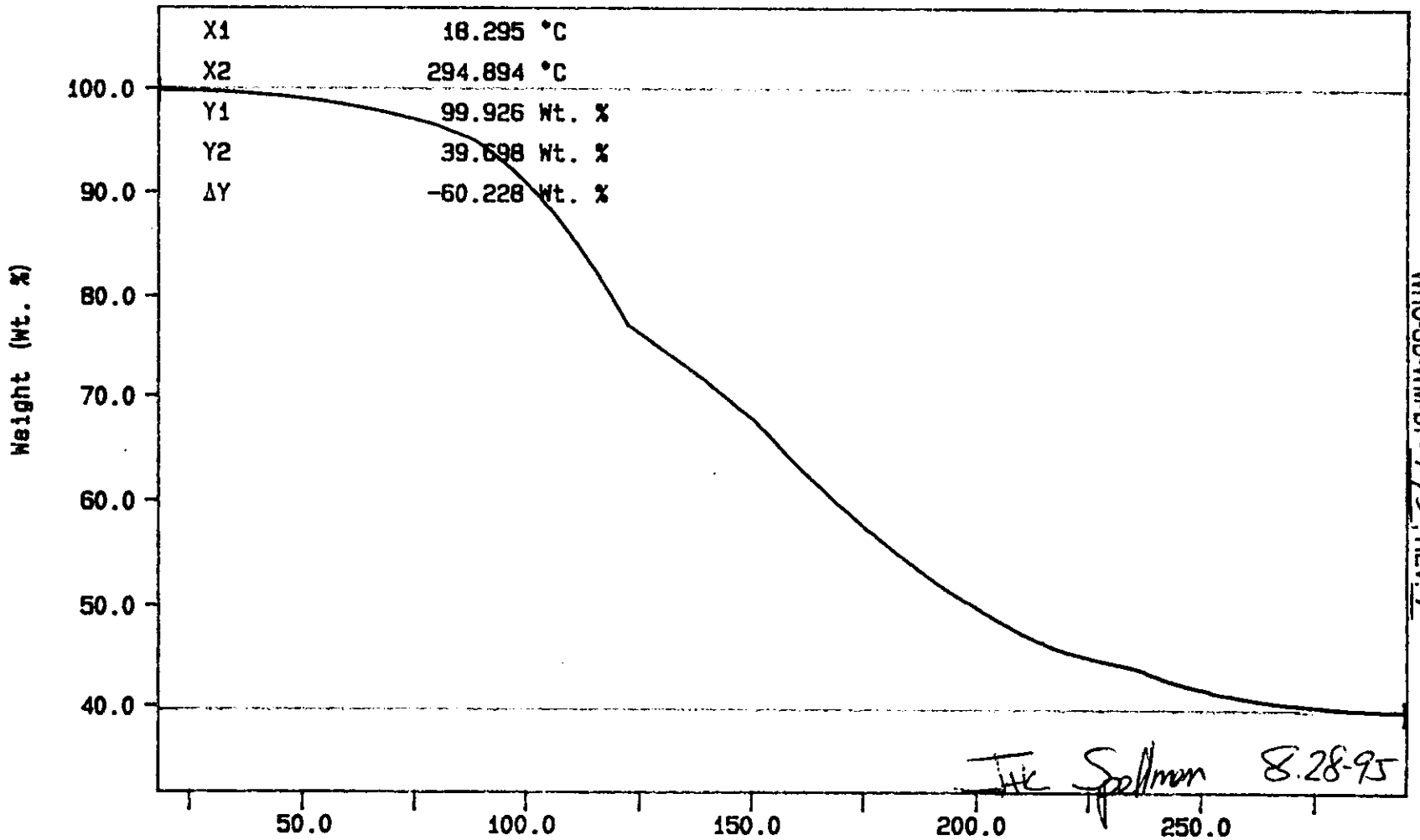
Data Entry Comments: Sample has second weight loss step of 28.38%; duplicate has 25.91% both finishing by about 250°C. JMLuye

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER082801 Mon Aug 28 11:34:25 1995
Sample Weight: 26.486 mg
65N8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-265 TO 2-267.

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

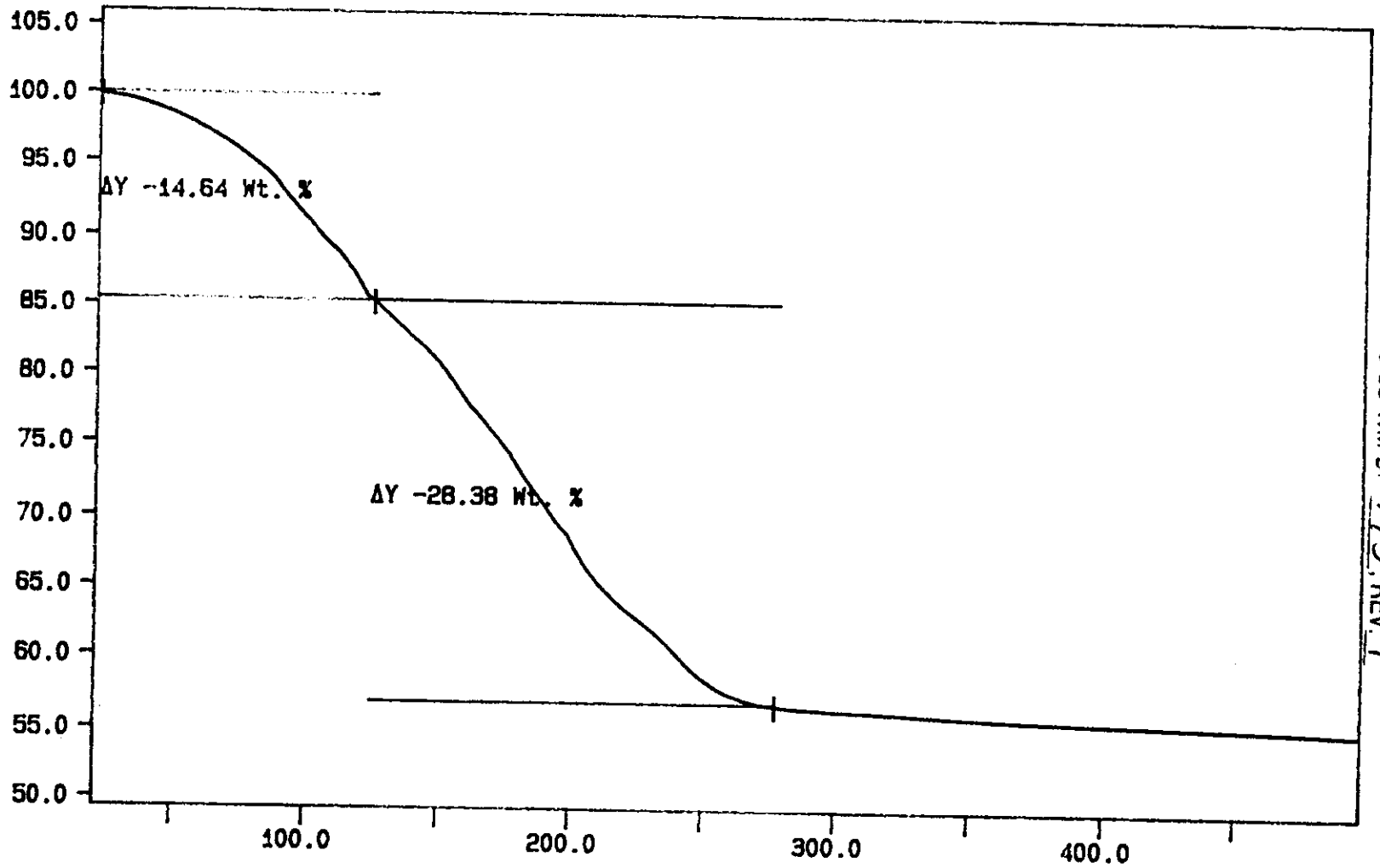
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Aug 28 11:40:09 1995

2-265

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM082801 Mon Aug 28 13:53:23 1995
Sample Weight: 25.609 mg
S95T001404 SAM

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

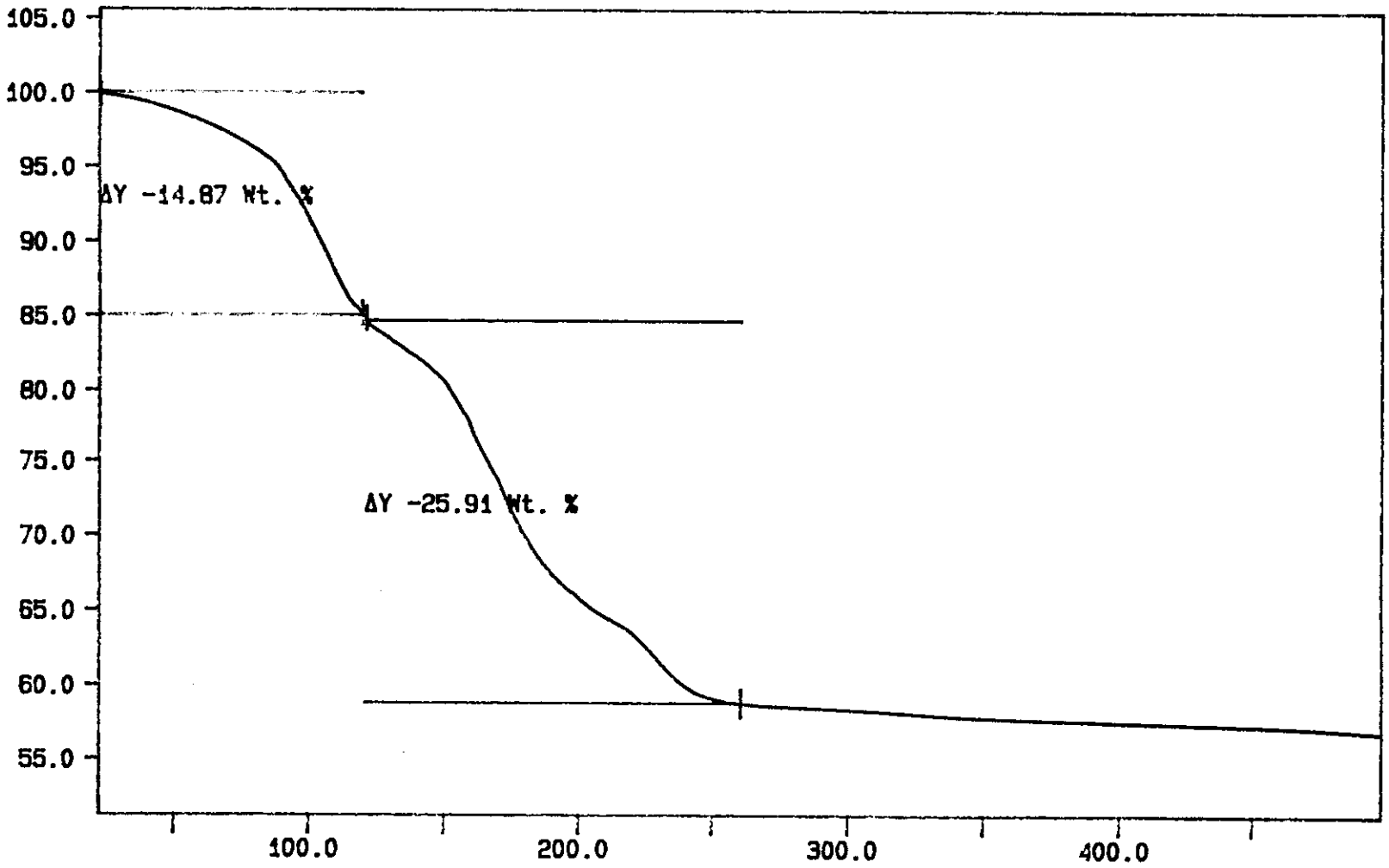
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 09:08:00 1995

WHC-SD-WM-DP-145, REV. 1

2 266

Curve 1: TGA
File info: SAM082802 Mon Aug 28 15:09:45 1995
Sample Weight: 18.061 mg
S95T001404 DUP

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Aug 31 09:14:14 1995

2-267

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2252

Analyst: JDS **Instrument:** TGA01 3 9-11-95 BV **Book #** 65N8A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: BY-108 rerun tga.JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.74	60.24	N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001396	0		TGA-03	SOLID	N/A	8.56		%
95000104	BY-108 (R)	3	DUP	S95T001396	0		TGA-03	SOLID	8.56	9.36	N/A	%
		4	STD				TGA-03	SOLID	59.74	60.09	N/A	%
95000104	BY-108 (R)	5	SAMPLE	S95T001410	0		TGA-03	SOLID	N/A	19.95		%
95000104	BY-108 (R)	6	DUP	S95T001410	0		TGA-03	SOLID	19.95	20.93	N/A	%

Final page for worklist # 2252

See attached for signatures
Analyst Signature Date 9-11-95

Verified 9/14/95 JM Luy

Analyst Signature Date 9-13-95

S95T001396 produced a second weight loss step of 25.08% at approximately 175°C.

Data Entry Comments: S95T001410 produced a second weight loss step of 13.7% at approximately 150°C

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2252

Analyst: JdS **Instrument:** TGA01 _____ **Book #** 65N8A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-108 rerun tga.JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	2	SAMPLE	S95T001396	1		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	3	DUP	S95T001396	1		TGA-01	SOLID			N/A	%
95000104	BY-108 (R)	4	SAMPLE	S95T001410	1		TGA-01	SOLID	N/A			%
95000104	BY-108 (R)	5	DUP	S95T001410	1		TGA-01	SOLID			N/A	%

Final page for worklist # 2252

JdS 9-9-95
Analyst Signature Date

Analyst Signature Date

Other instrument was used.
9-11-95
BDV

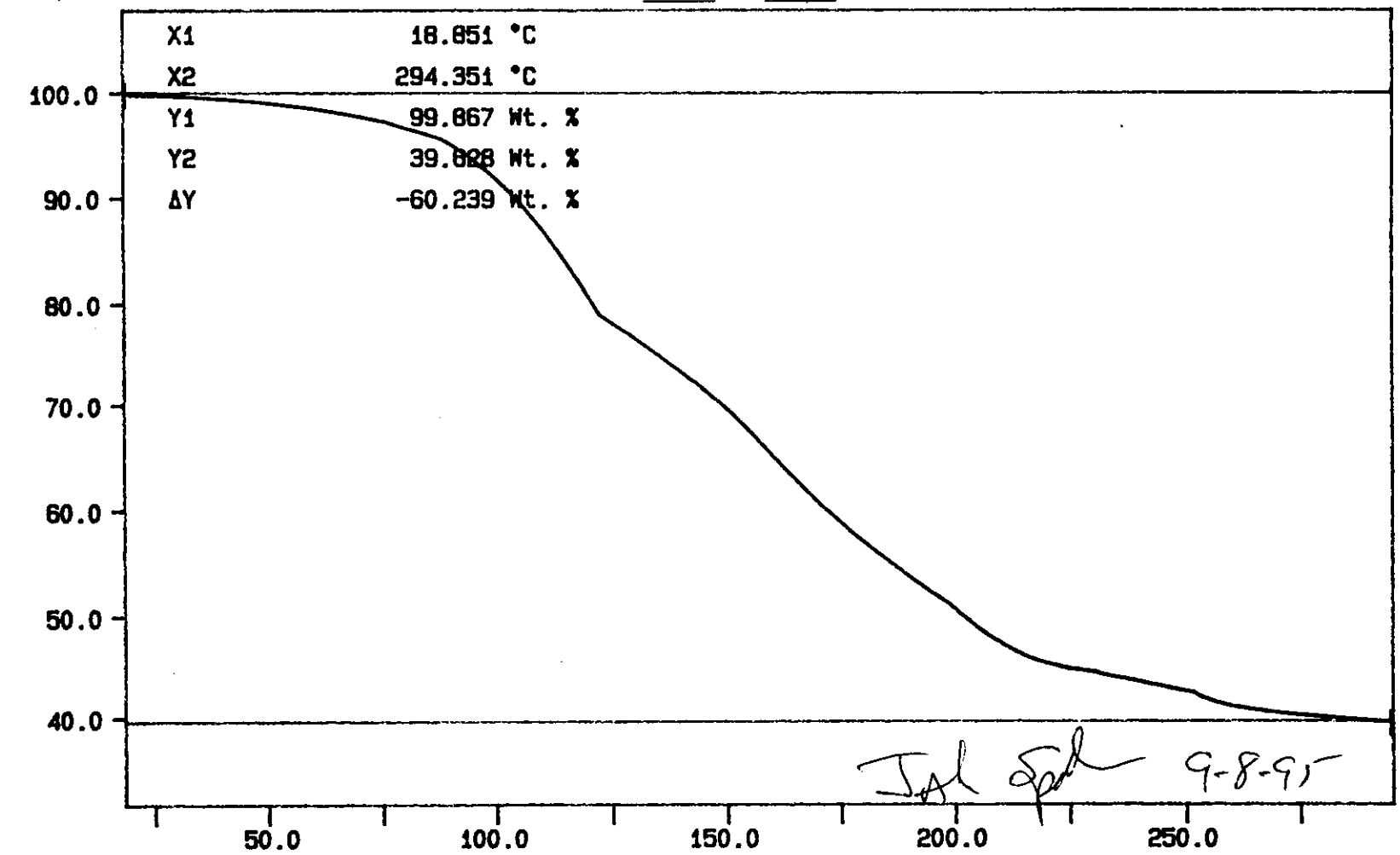
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER090802 Fri Sep 8 08:42:53 1995
Sample Weight: 25.202 mg
65N8-A Terliq

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2270 TO 2276.



N2 10C/MIN
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

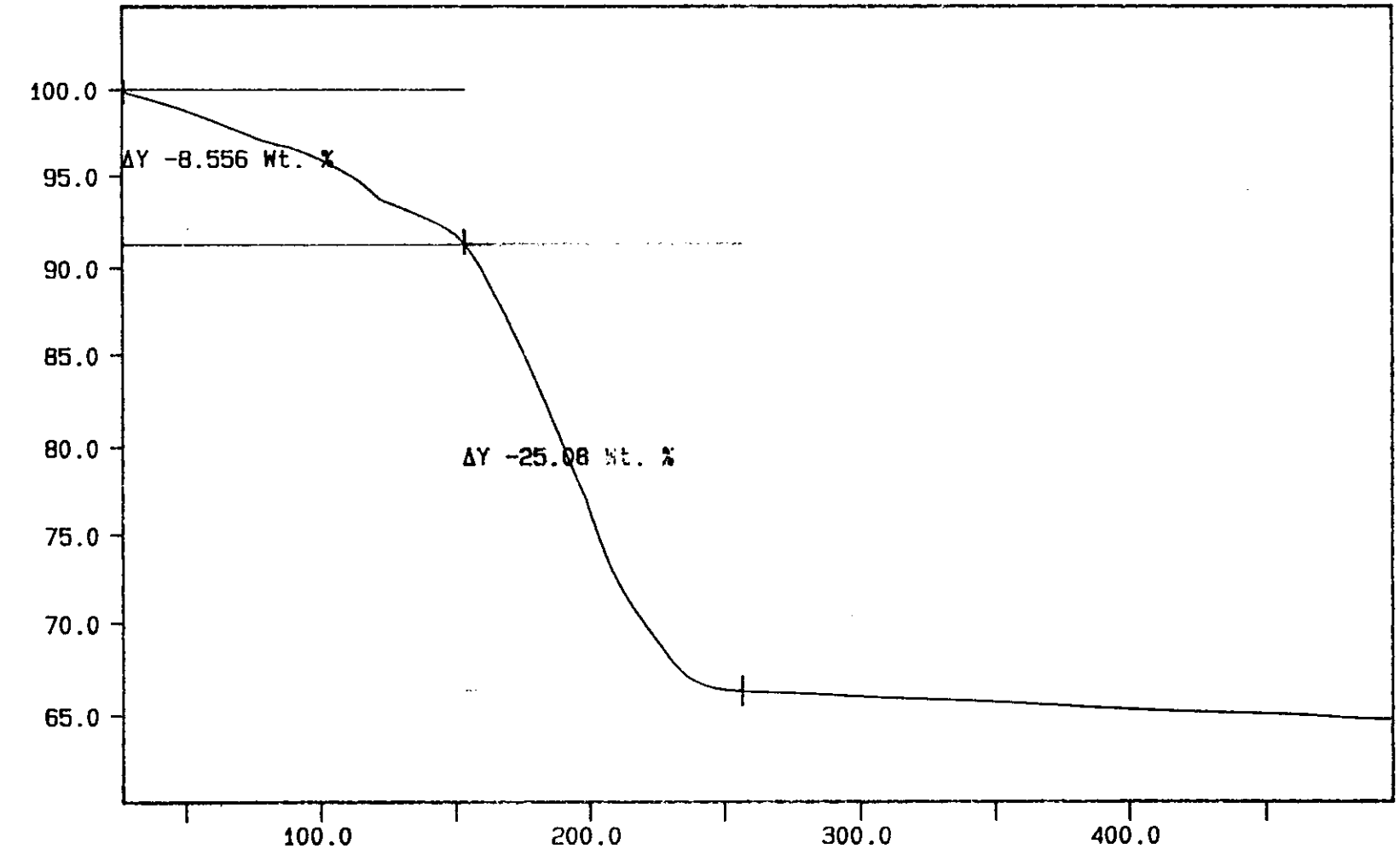
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Sep 8 08:48:57 1995

2270

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM090803 Fri Sep 8 09:51:48 1995
Sample Weight: 26.305 mg
S95T001396 SAM AT 10C/MIN

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

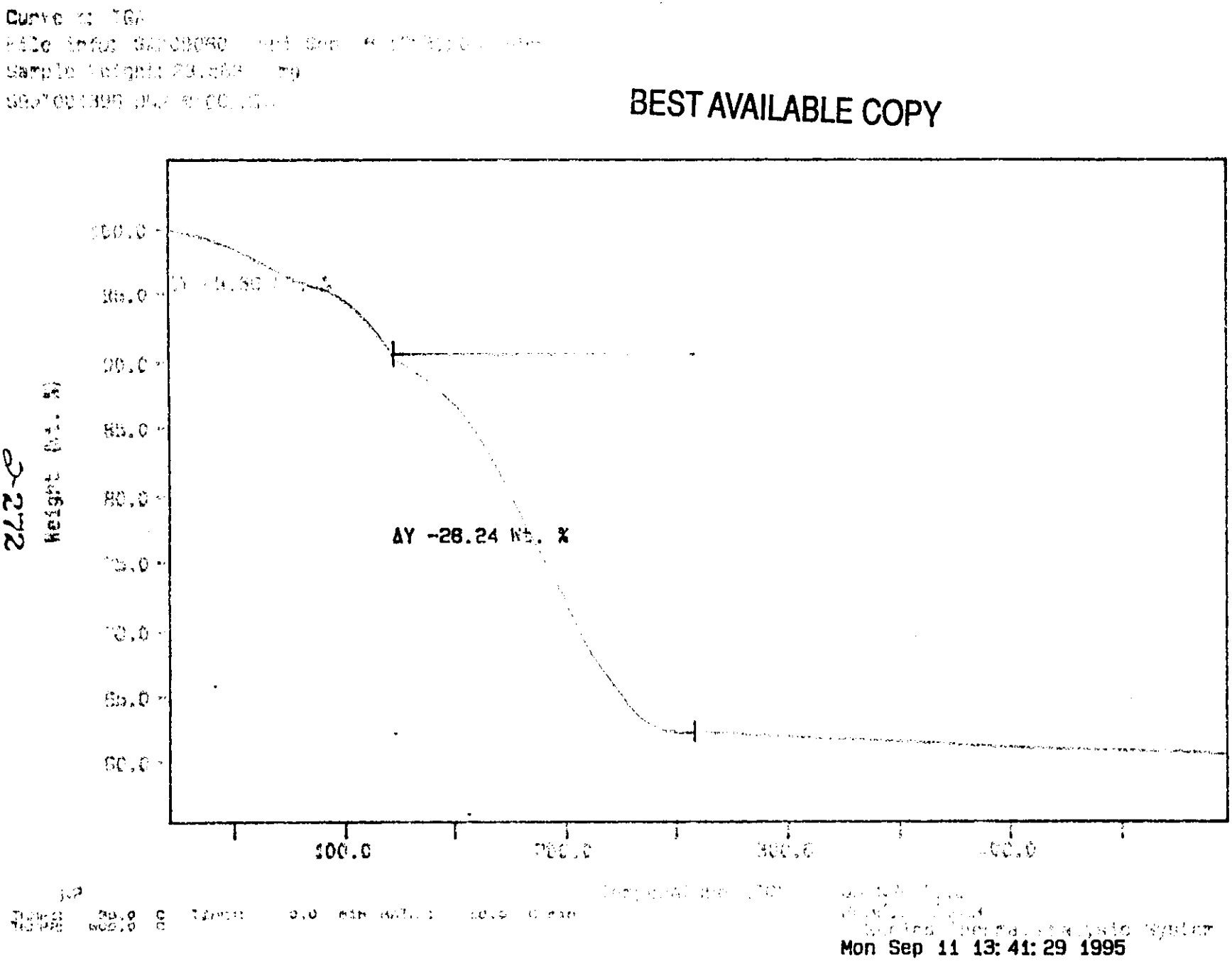
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 11 13:35:39 1995

2-271

WHC-SD-WM-DP-145, REV. 1

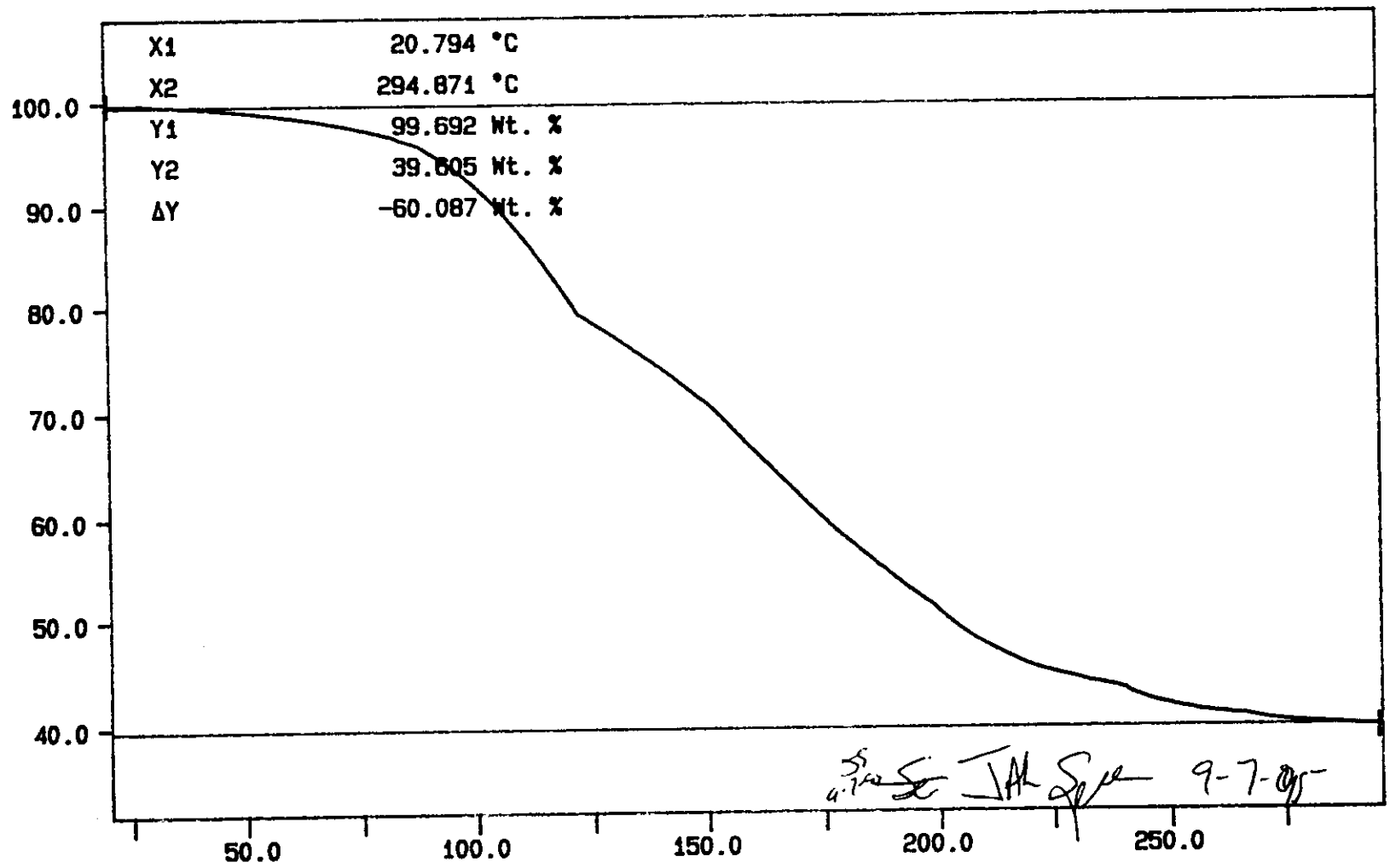
WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



Curve 1: TGA
File info: TER090702 Thu Sep 7 08:34:36 1995
Sample Weight: 27.355 mg
65N8-A Terliq

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

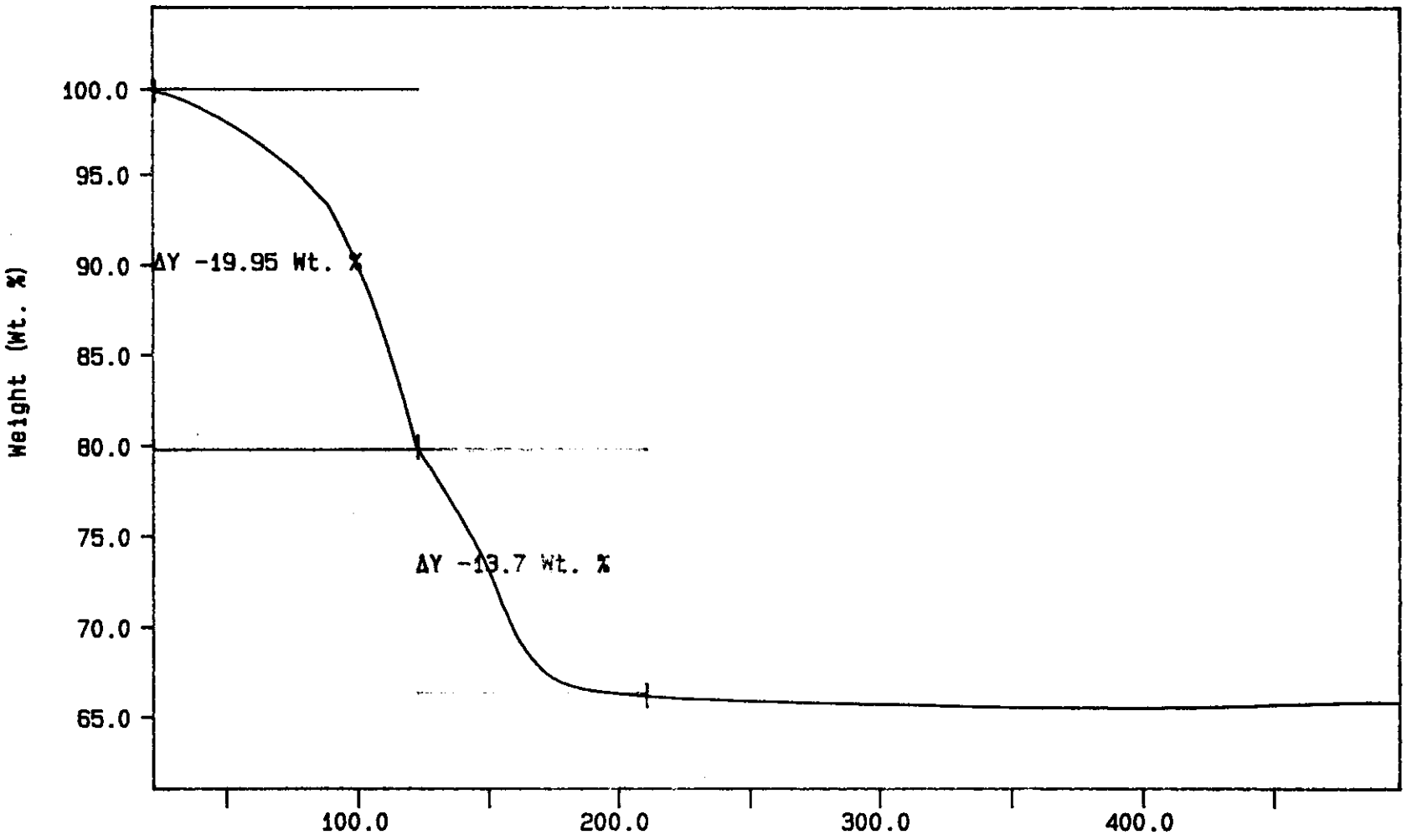
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Sep 7 08:52:30 1995

WHC-SD-WM-DP-145, REV. 1

2273

Curve 1: TGA
File info: SAM090703 Thu Sep 7 10:19:48 1995
Sample Weight: 15.276 mg
9-11-95 BAV
S95T001~~791 DUP~~ at 10C/min
1410 SAM

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

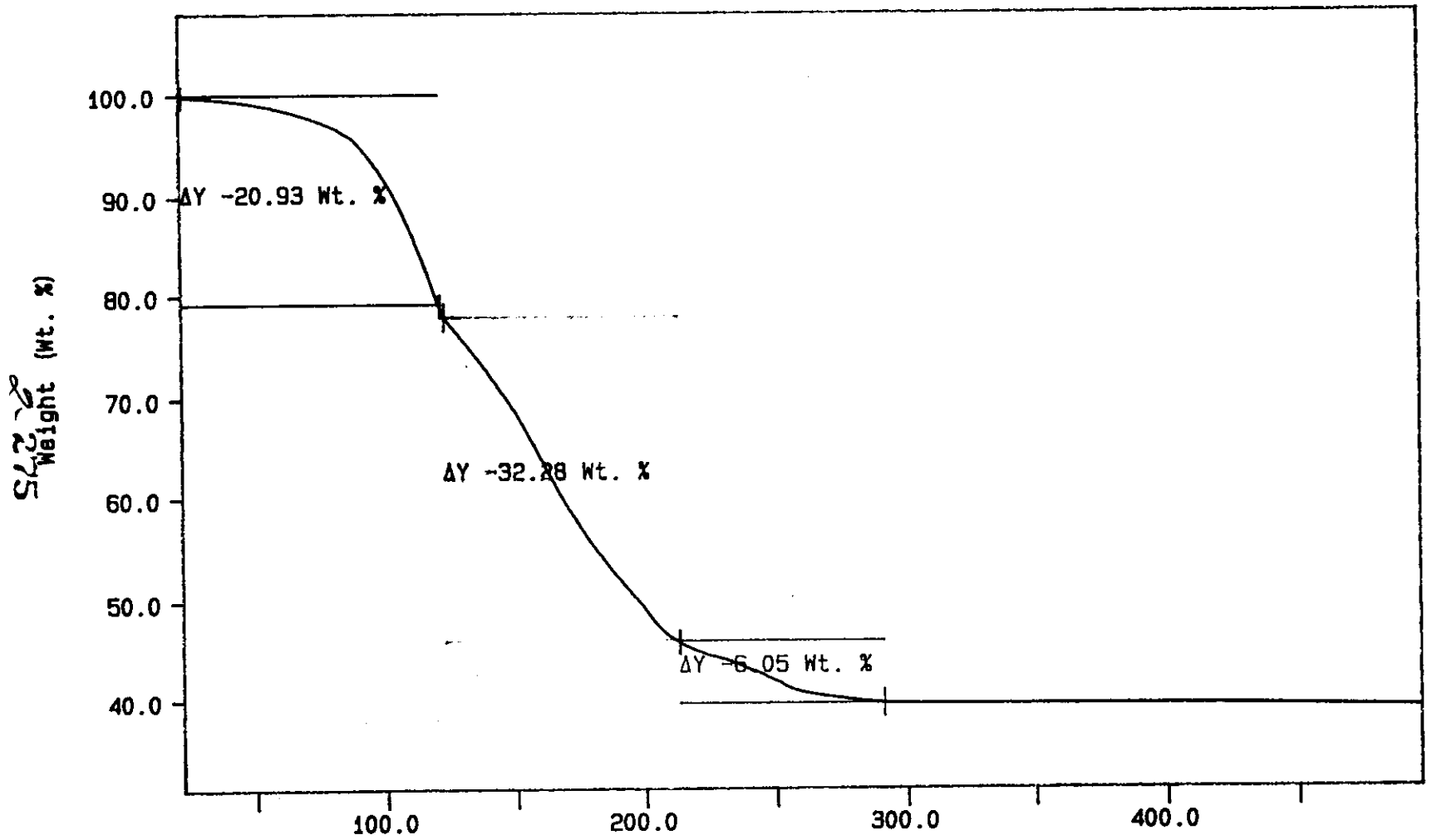
JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 11 13:47:31 1995

WHC-SD-WM-DP-145, REV. 4

274

Curve 1: TGA
File info: SAM090704 Thu Sep 7 12:07:13 1995
Sample Weight: 22.855 mg
S95T001410 DUP AT 10C/MIN

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 11 13:52:51 1995

WHC-SD-WM-DP-155, REV. 1

LABCORE Data Entry Template for Worklist# 2269

Analyst: JDS **Instrument:** TGA01 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: BY-108 TGA.JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.52	N/A	%
95000104	BY-108 (R)	2 SAMPLE	S95T001431	0		TGA-01	SOLID	N/A	43.77		%
95000104	BY-108 (R)	3 DUP	S95T001431	0		TGA-01	SOLID	43.77	44.47	N/A	%

Final page for worklist # 2269

John Dyer 9-4-95
Analyst Signature Date

Gary Hammond 9-13-95
Analyst Signature Date

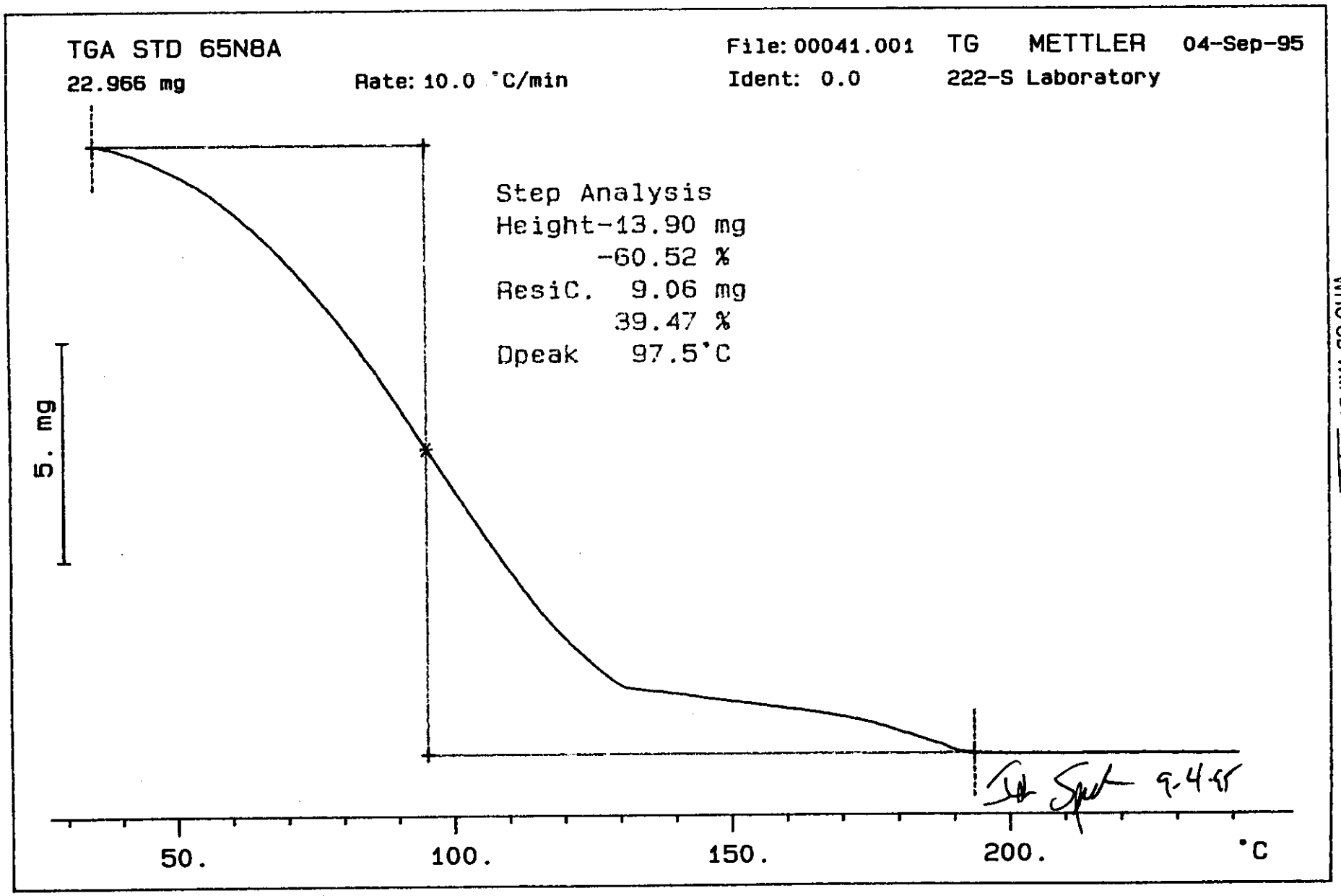
Verified 9/14/95 Jean Luse

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-277 TO 2-279.

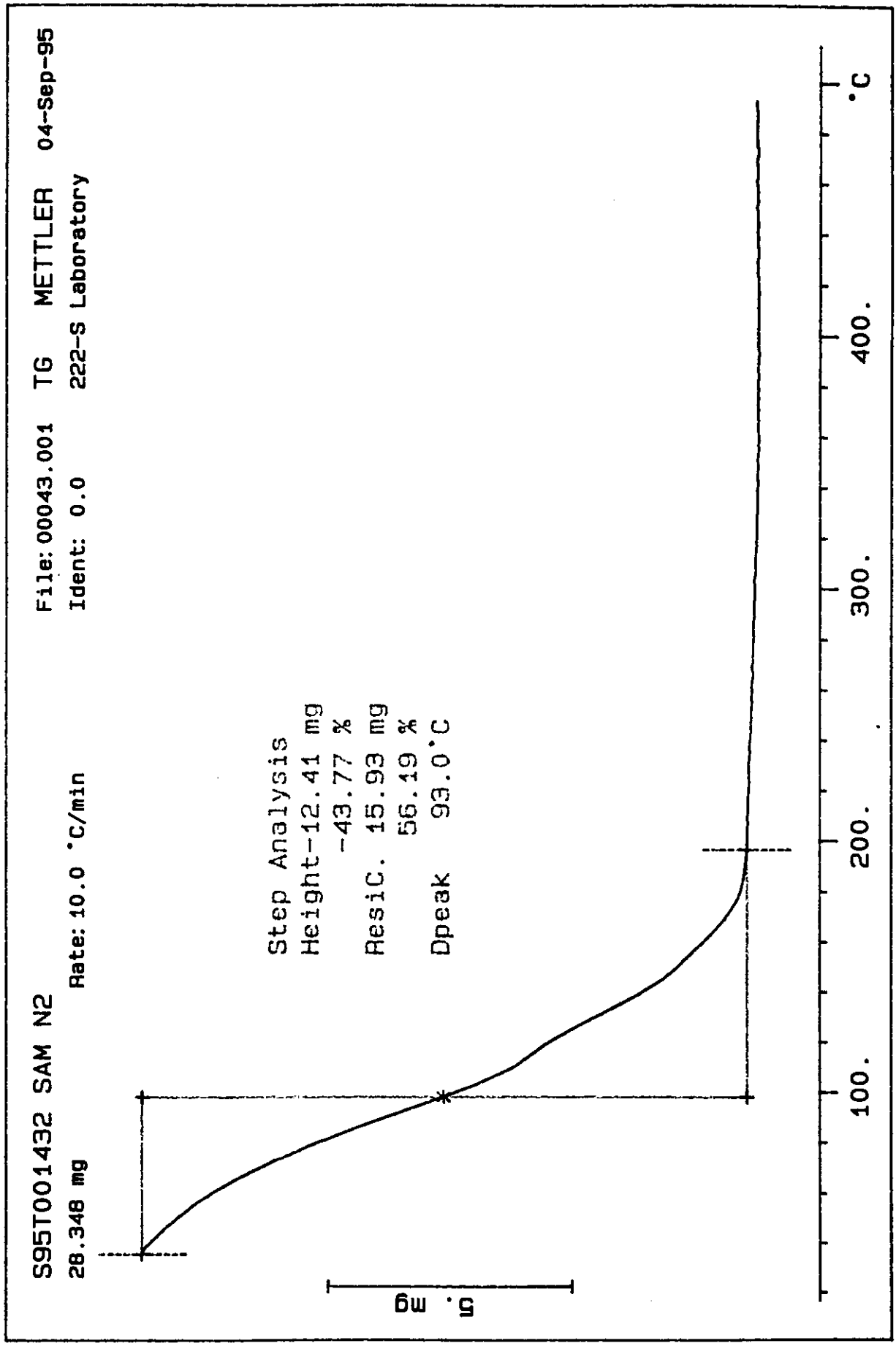
BEST AVAILABLE COPY



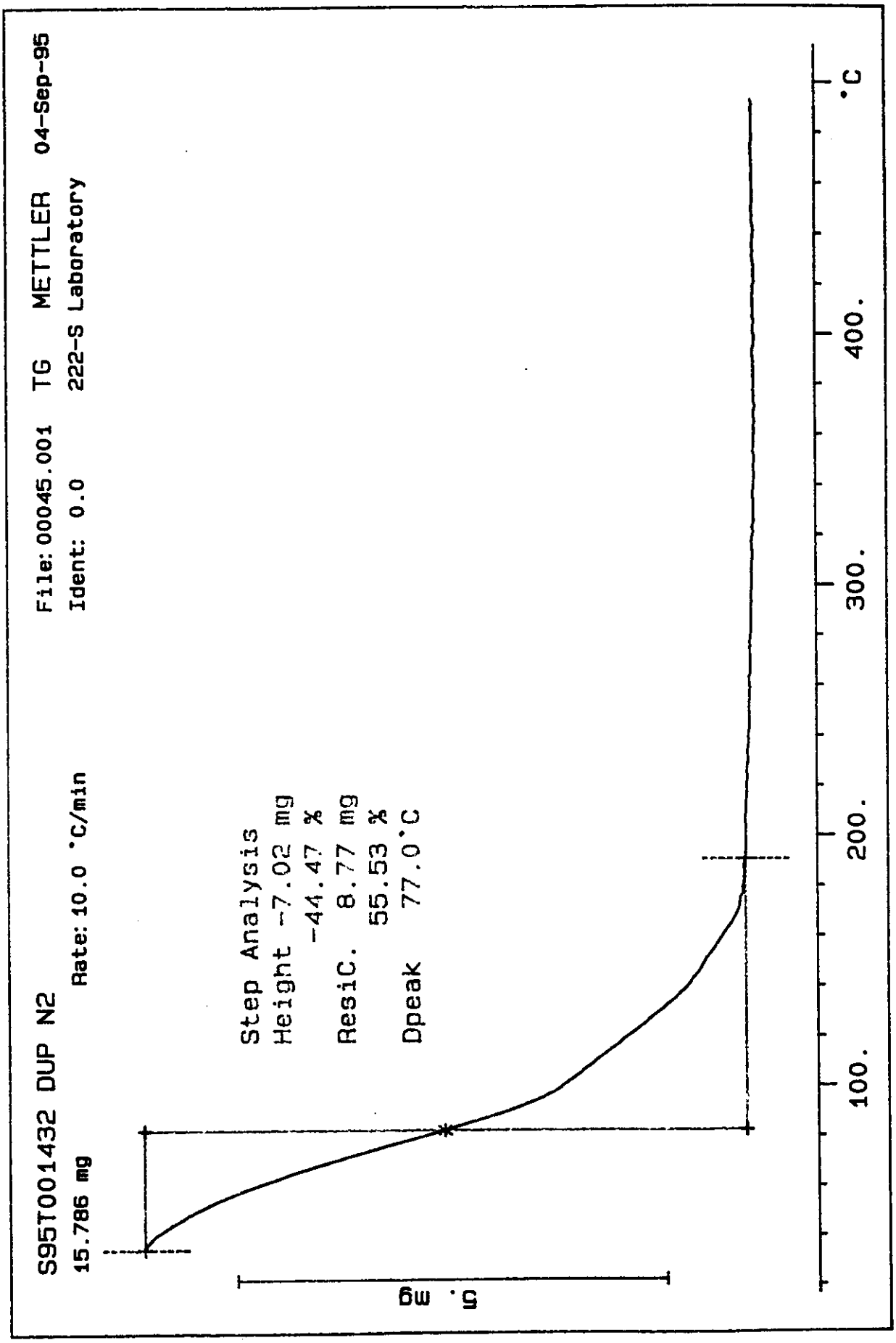
2-277

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



BEST AVAILABLE COPY



WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2276

Analyst: SMF **Instrument:** TGA01 3 **Book #** 65N8A

Method: LA-514-114 Rev/Mod C-0 9-11-95 BDV

Worklist Comment: BY-108 TGA, please run under N2. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.74	60.76	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001925	0		TGA-03	SOLID	N/A	24.90		%
95000118	BY-108 (R)	3 DUP	S95T001925	0		TGA-03	SOLID	24.90	23.78	N/A	%

Final page for worklist # 2276

See attached for signatures
Analyst Signature Date 9-11-95

Analyst Signature Date 9-14-95

Verified 9/14/95 Jonn M. Luge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145 REV 1

LABCORE Data Entry Template for Worklist# 2276

Analyst: SMF **Instrument:** TGA01 **Book #** 65N8A

Method: ~~LA-560-112 Rev/Mod~~ SMF 9-8-95 LA-514-114/CO

Worklist Comment: BY-108 TGA, please run under N2. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001925	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	3	DUP	S95T001925	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2276

SMFulton 9-8-95
Analyst Signature Date

Analyst Signature Date

Other instrument was used.
9-11-95
BDV

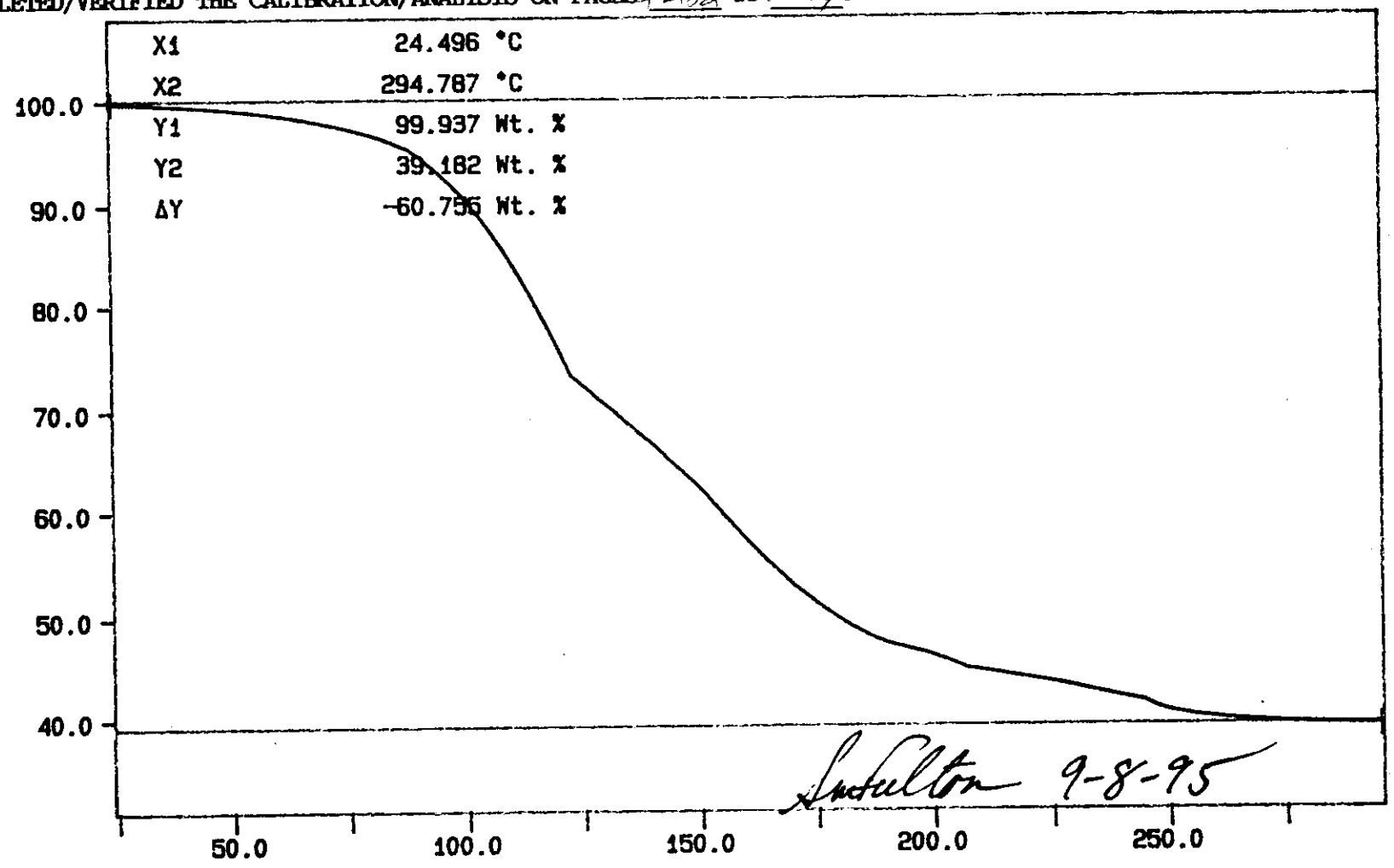
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER090801 Fri Sep 8 00:45:23 1995
Sample Weight: 16.699 mg
65N8-A Terliq

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-282 TO 2-284.



S Fulton 9-8-95

N2 10C/MIN
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

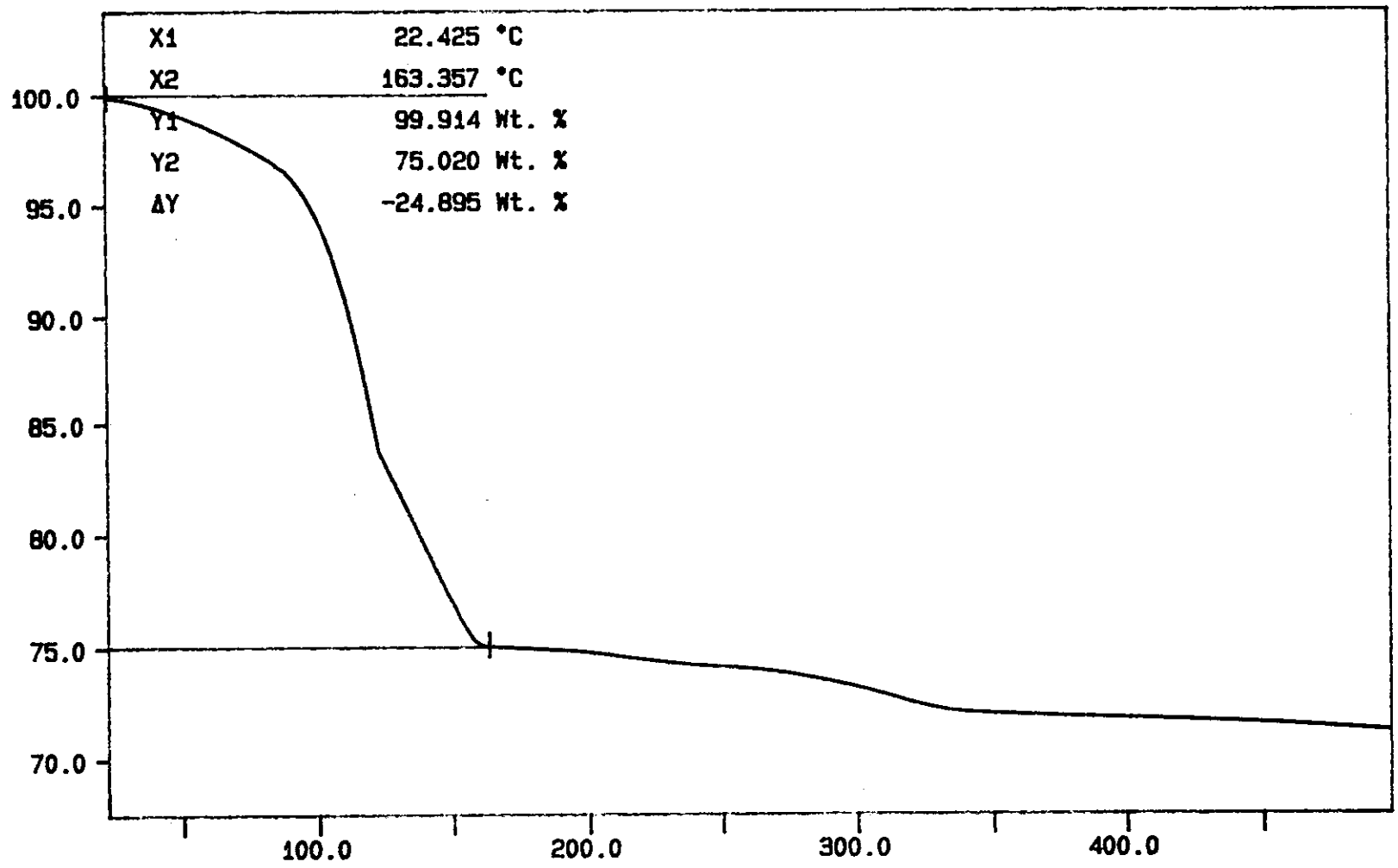
SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Sep 8 02:04:38 1995

2-282

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM090801 Fri Sep 8 04:07:31 1995
Sample Weight: 17.787 mg
S95T001925 at 10C/min

BEST AVAILABLE COPY



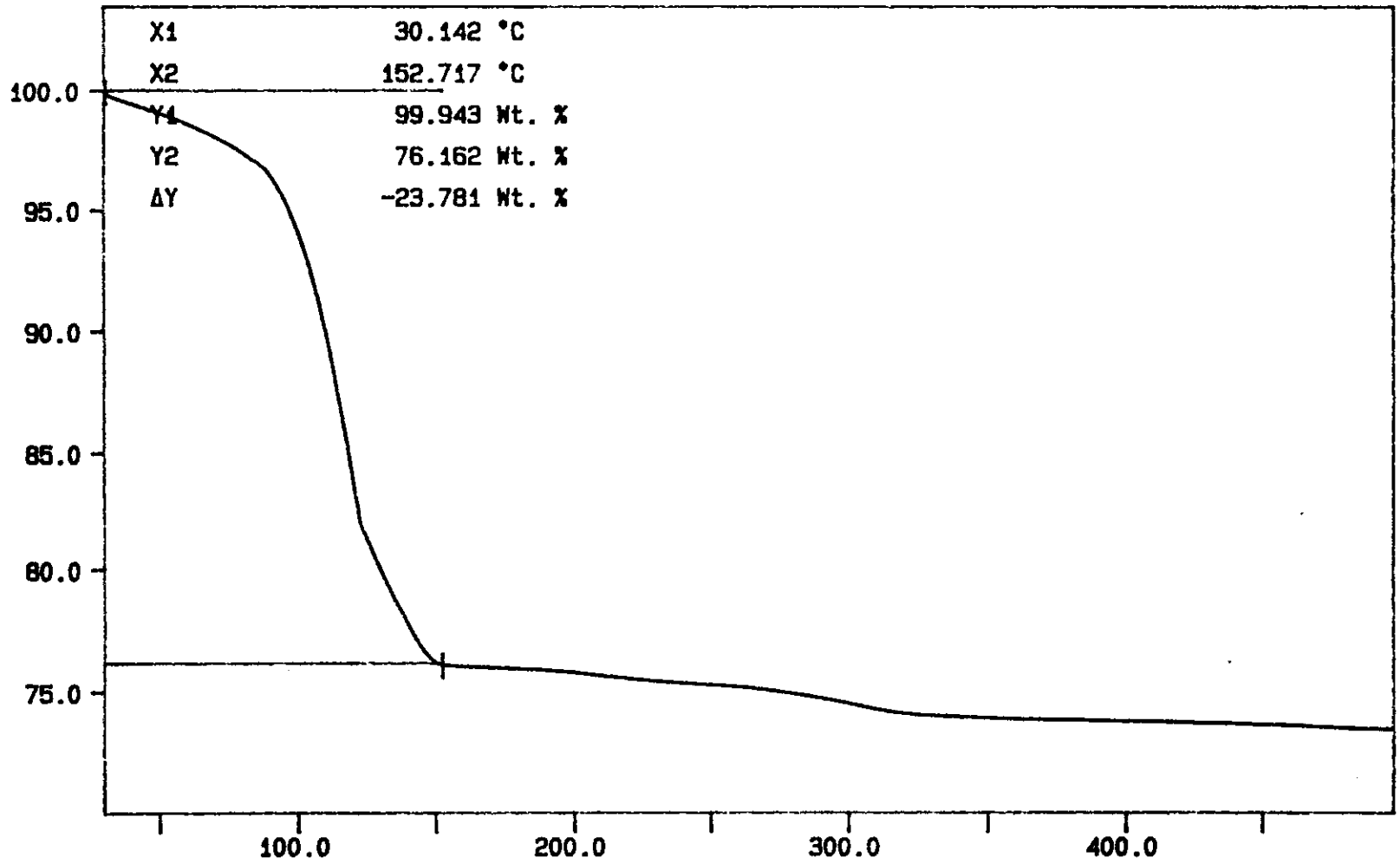
N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Sep 8 05:13:14 1995

2-283

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM090802 Fri Sep 8 06:22:09 1995
Sample Weight: 14.494 mg
S95T001925 DUP at 10C/min



N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Sep 8 06:27:00 1995

2-284

WHC-SD-WM-DP-145, REV 1

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2418

Analyst: PJM **Instrument:** TGA0 3 **Book #** 65N8A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.74	60.54	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001968	0		TGA-03	SOLID	N/A	15.4		%
95000118	BY-108 (R)	3	DUP	S95T001968	0		TGA-03	SOLID	15.4	9.88	N/A	%
		4	STD				TGA-03	SOLID	59.74	60.44	N/A	%
95000118	BY-108 (R)	5	SAMPLE	S95T001969	0		TGA-03	SOLID	N/A	7.15		%
95000118	BY-108 (R)	6	DUP	S95T001969	0		TGA-03	SOLID	7.15	7.79	N/A	%

Final page for worklist # 2418

See attached for signatures
Analyst Signature **Date** 9-30-95

Analyst Signature **Date**

Verified by Blandina Valenzuela 10-4-95

S95T001968 produced a second weight loss step of 20.6% at approximately 185°C

Data Entry Comments: S95T001969 produced a second weight loss step of 32.48% at approximately 180°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-145 REV 1

LABCORE Data Entry Template for Worklist# 2418

Analyst: RJ McCown **Instrument:** TGA0 _____ **Book #** 65W8-A

Method: LA ~~560-112~~ 514-114 Rev/Mod C-0
Rev 9/30/95

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001968	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	3	DUP	S95T001968	0		TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001969	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	5	DUP	S95T001969	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2418

RJ McCown 9/30/95
Analyst Signature **Date**

_____
Analyst Signature **Date**

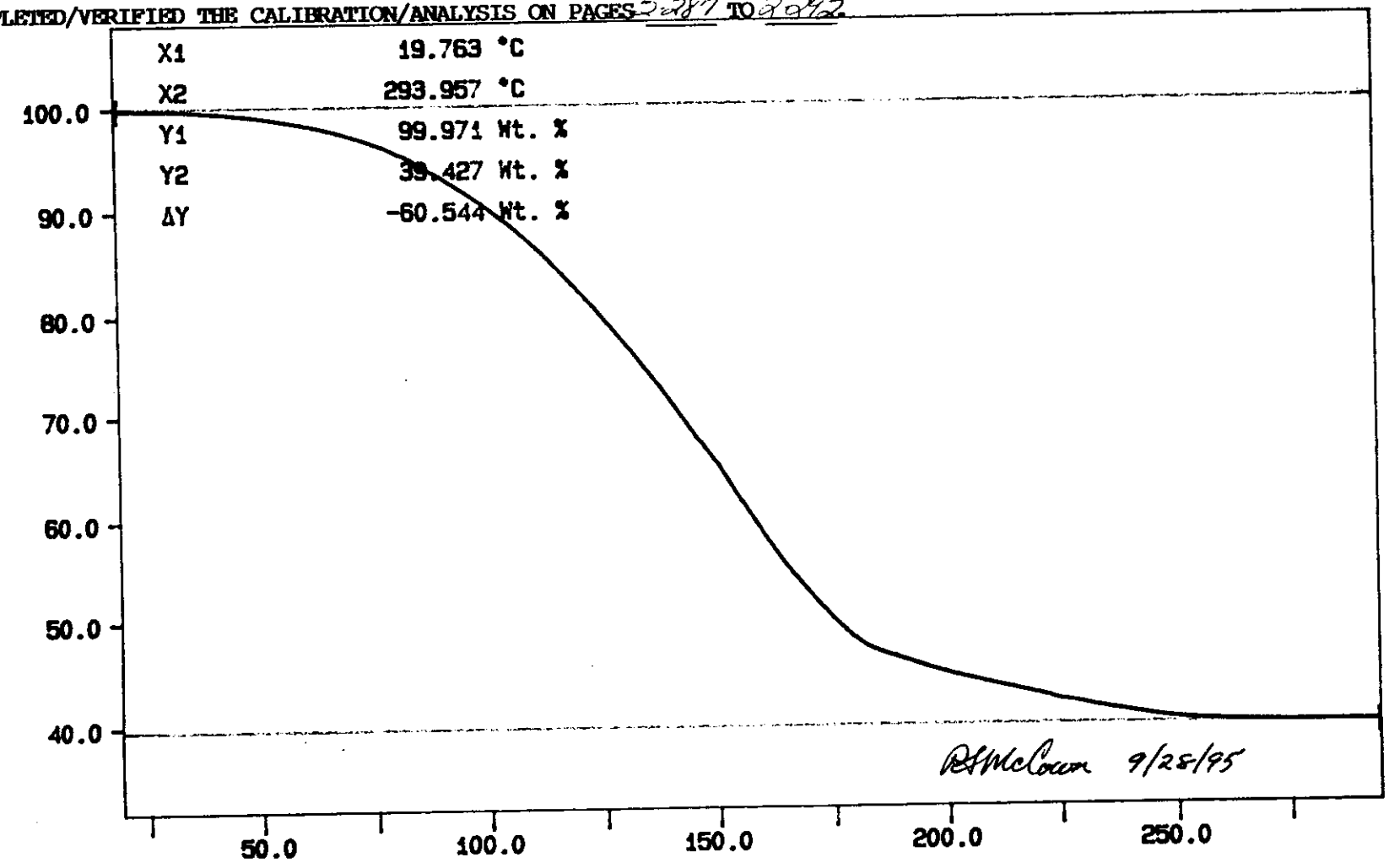
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER092802 Thu Sep 28 16:56:52 1995
Sample Weight: 17.614 mg
65N8-A Terliq

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2287 TO 2292.



2287

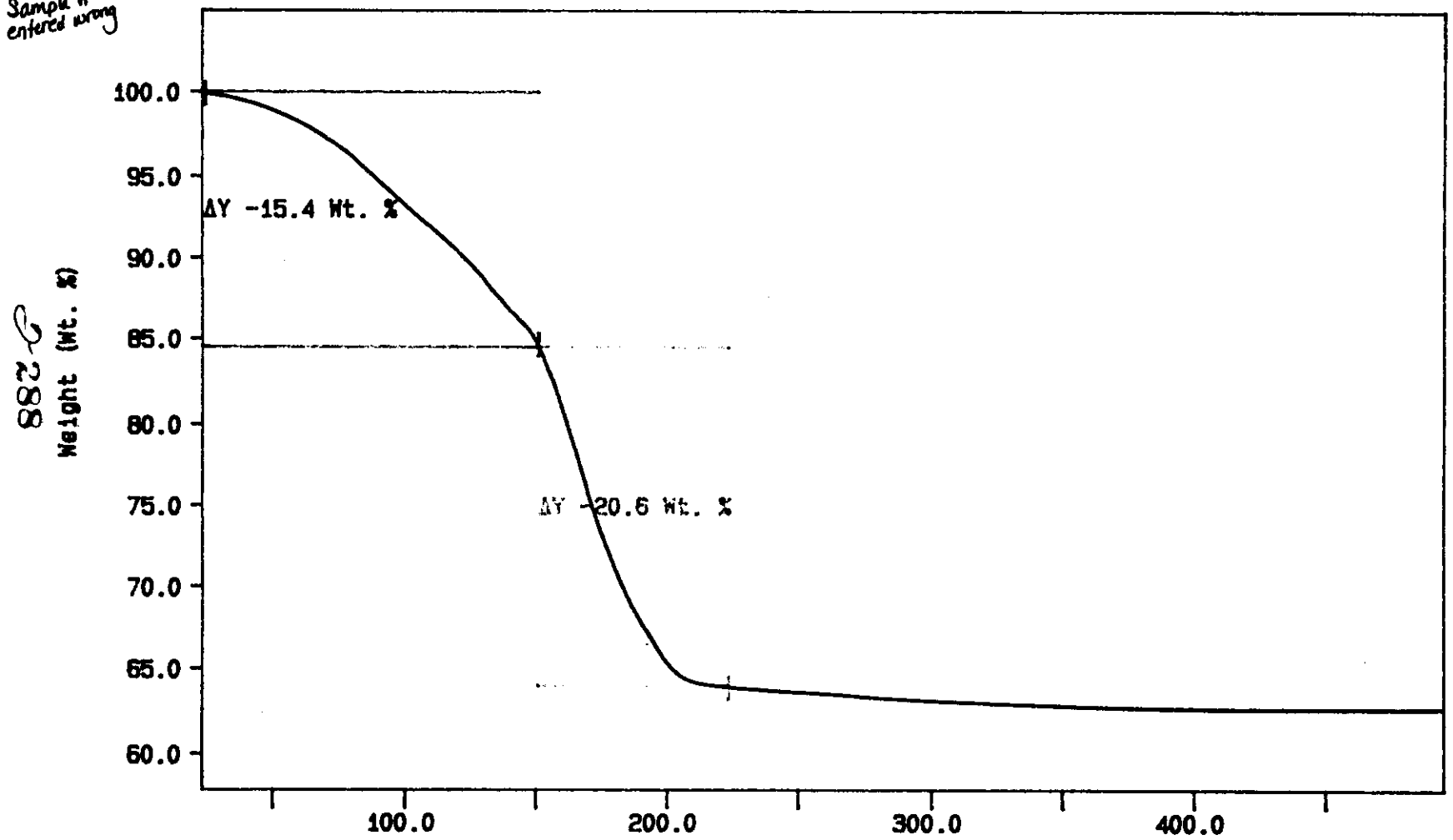
N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Sep 28 17:28:38 1995

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM092803 Thu Sep 28 19:49:14 1995
Sample Weight: 23.983 mg
S95T001691 1968
10-2-95
BDV
Sample # entered wrong

BEST AVAILABLE COPY



2882

WHC-SD-WM-DP-145, REV. 1

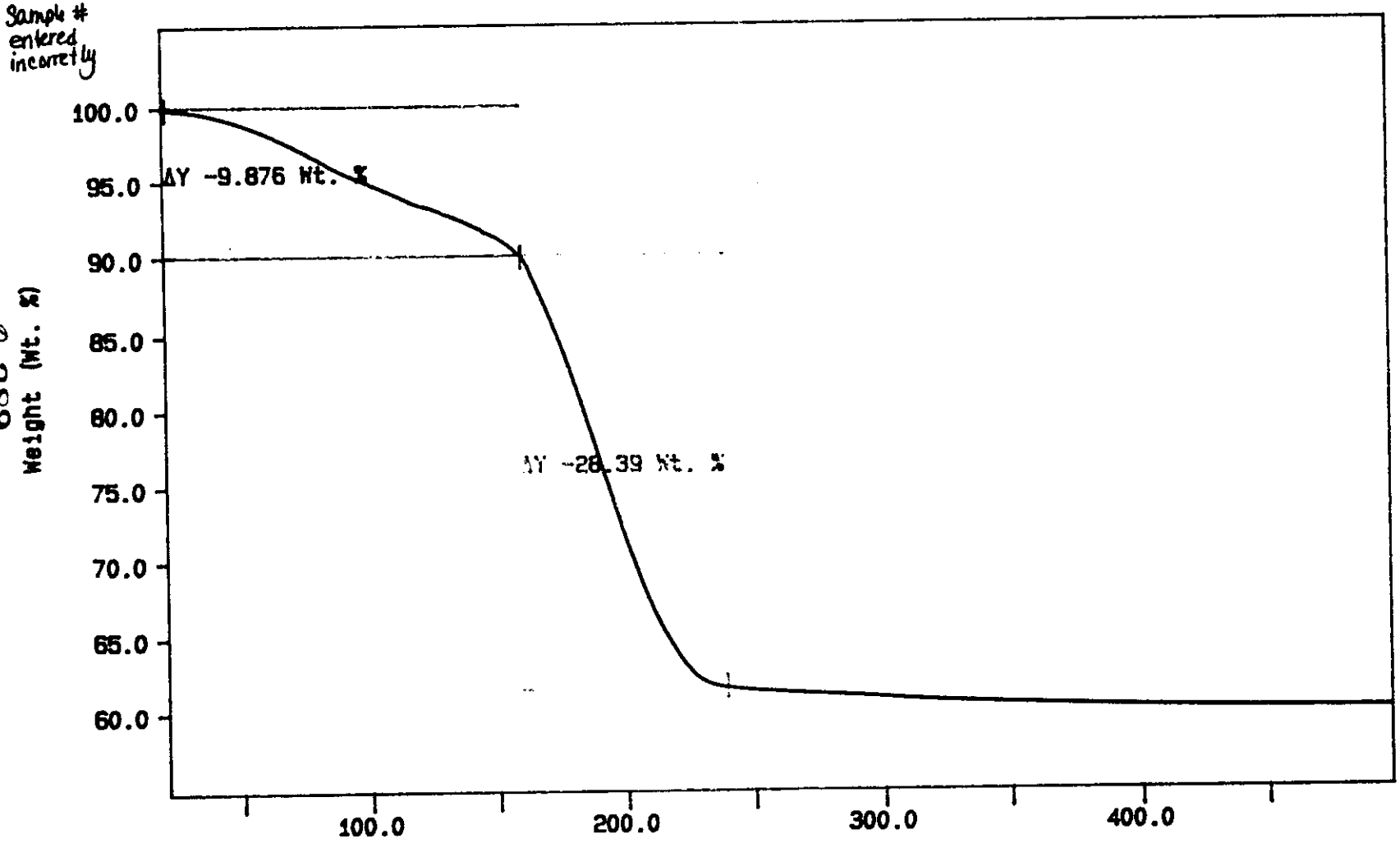
N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 650.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Oct 3 15:15:08 1995

Curve 1: TGA
File info: SAM092804 Thu Sep 28 21:20:07 1995
Sample Weight: 29.920 mg
S95T001834 DUP
1968

BEST AVAILABLE COPY

Sample # entered incorrectly



N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

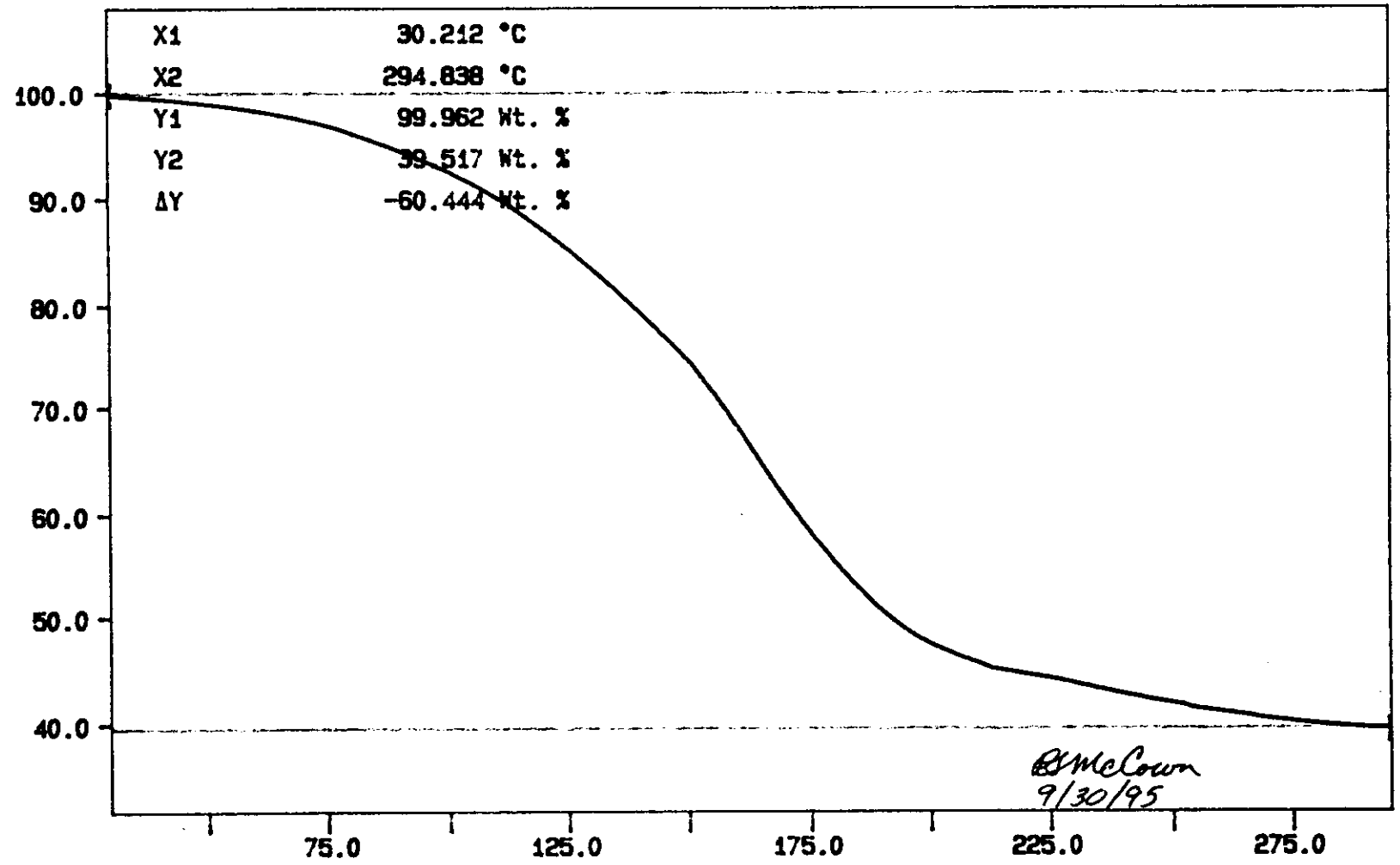
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Oct 3 15:20:15 1995

WHC-SD-WM-DP-145, REV. 1

2-289

Curve 1: TGA
File info: TER093001 Sat Sep 30 18:26:00 1995
Sample Weight: 20.754 mg
65N8-A Terliq

BEST AVAILABLE COPY



N2 10C/MIN
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

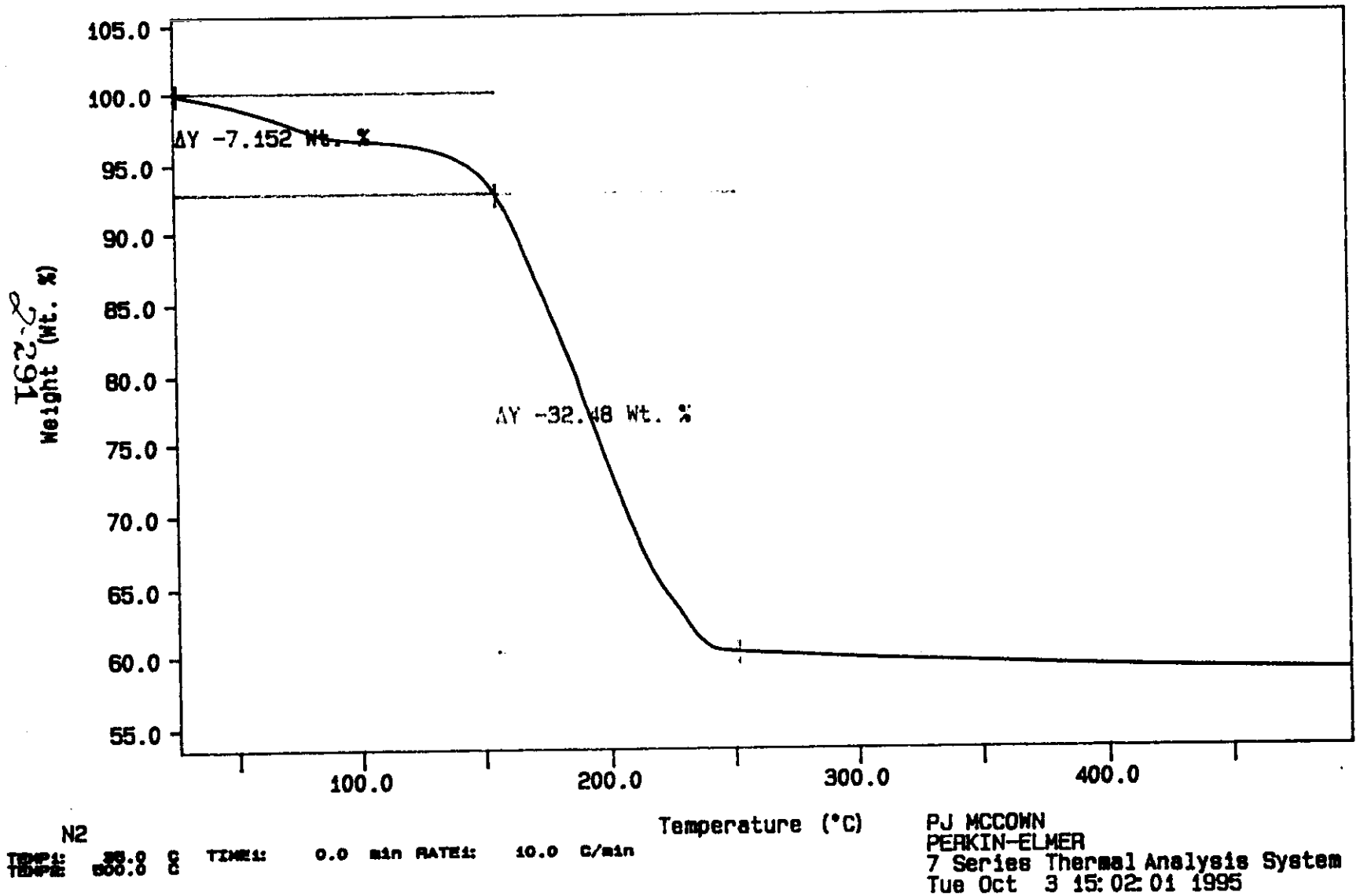
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Sep 30 18:28:05 1995

2-290

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM093001 Sat Sep 30 19:33:09 1995
Sample Weight: 25.996 mg
S95T001969 SAM

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

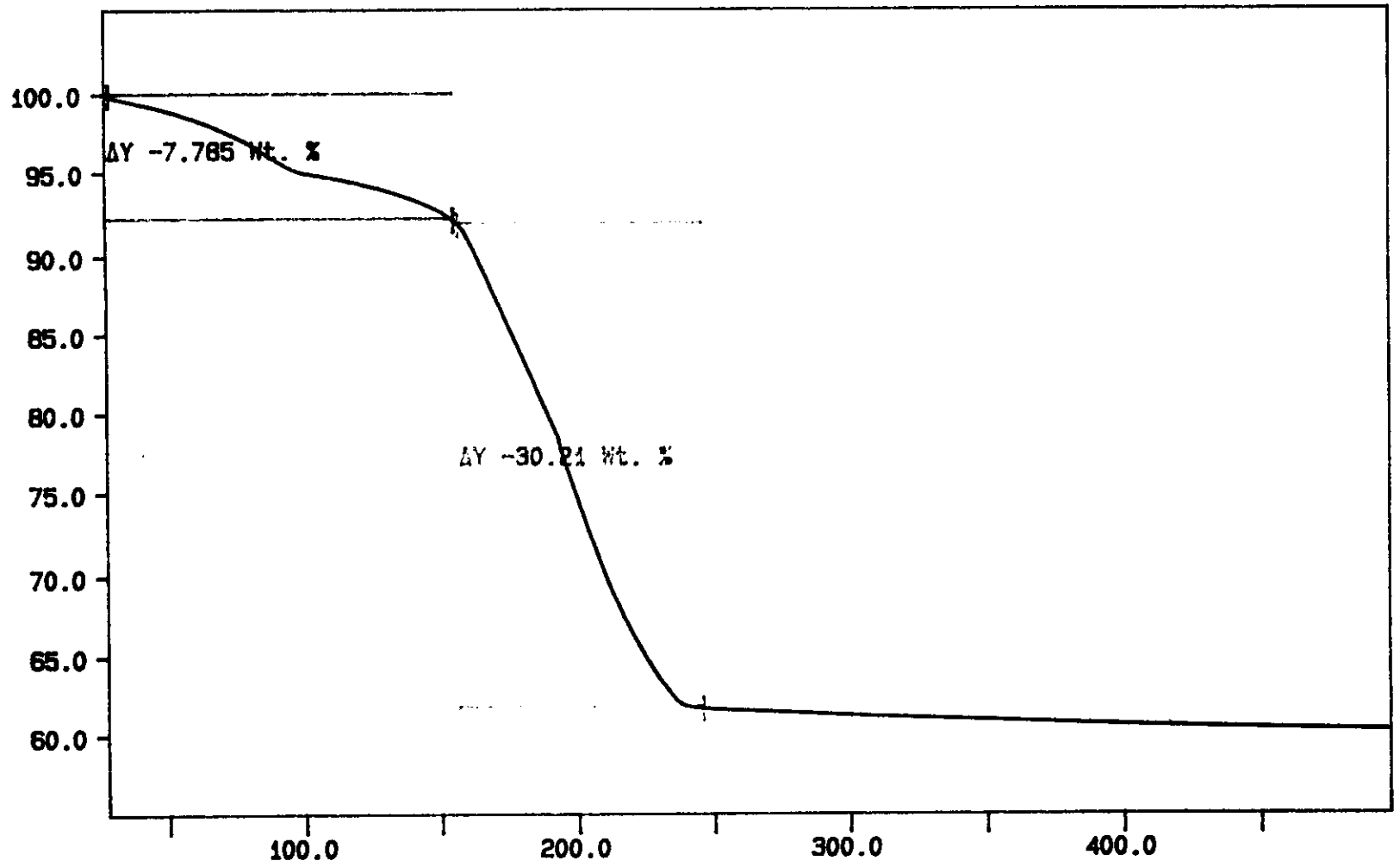
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Oct 3 15:02:01 1995

WHC-SD-WM-DP-145, REV. 1

2-291

Curve 1: TGA
File info: SAM093002 Sat Sep 30 20:55:47 1995
Sample Weight: 21.756 mg
S95T001969 DUP

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Oct 3 15:07:33 1995

2-292

WHC-CD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2419

Analyst: ADP **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod BO

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	5974	57.99	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001970	0		TGA-01	SOLID	N/A	11.12		%
95000118	BY-108 (R)	3 DUP	S95T001970	0		TGA-01	SOLID	11.12	7.68	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001971	0		TGA-01	SOLID	N/A	8.07		%
95000118	BY-108 (R)	5 DUP	S95T001971	0		TGA-01	SOLID	8.07	7.82	N/A	%

Final page for worklist # 2419

Analyst Signature Date: 9-29-95

Analyst Signature Date: 10-11-95

Verified by Blandina Valenzuela 10-11-95

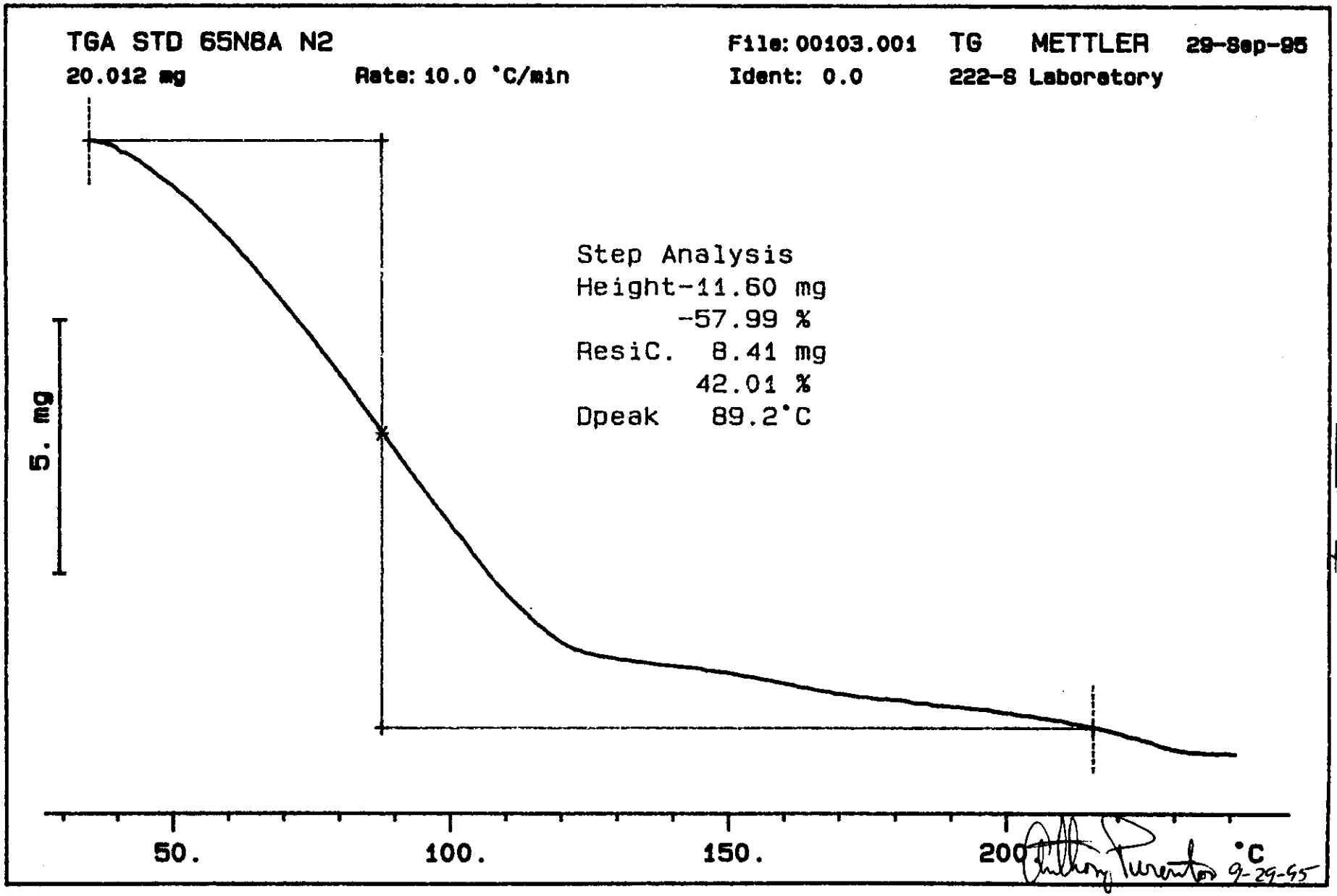
S95T001970 produced a second weight loss step of 23.68% at approximately 150°C 10/5/95

Data Entry Comments: S95T001971 produced a second weight loss step of 29.22% at approximately 150°C

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-294 TO 2-304.

BEST AVAILABLE COPY

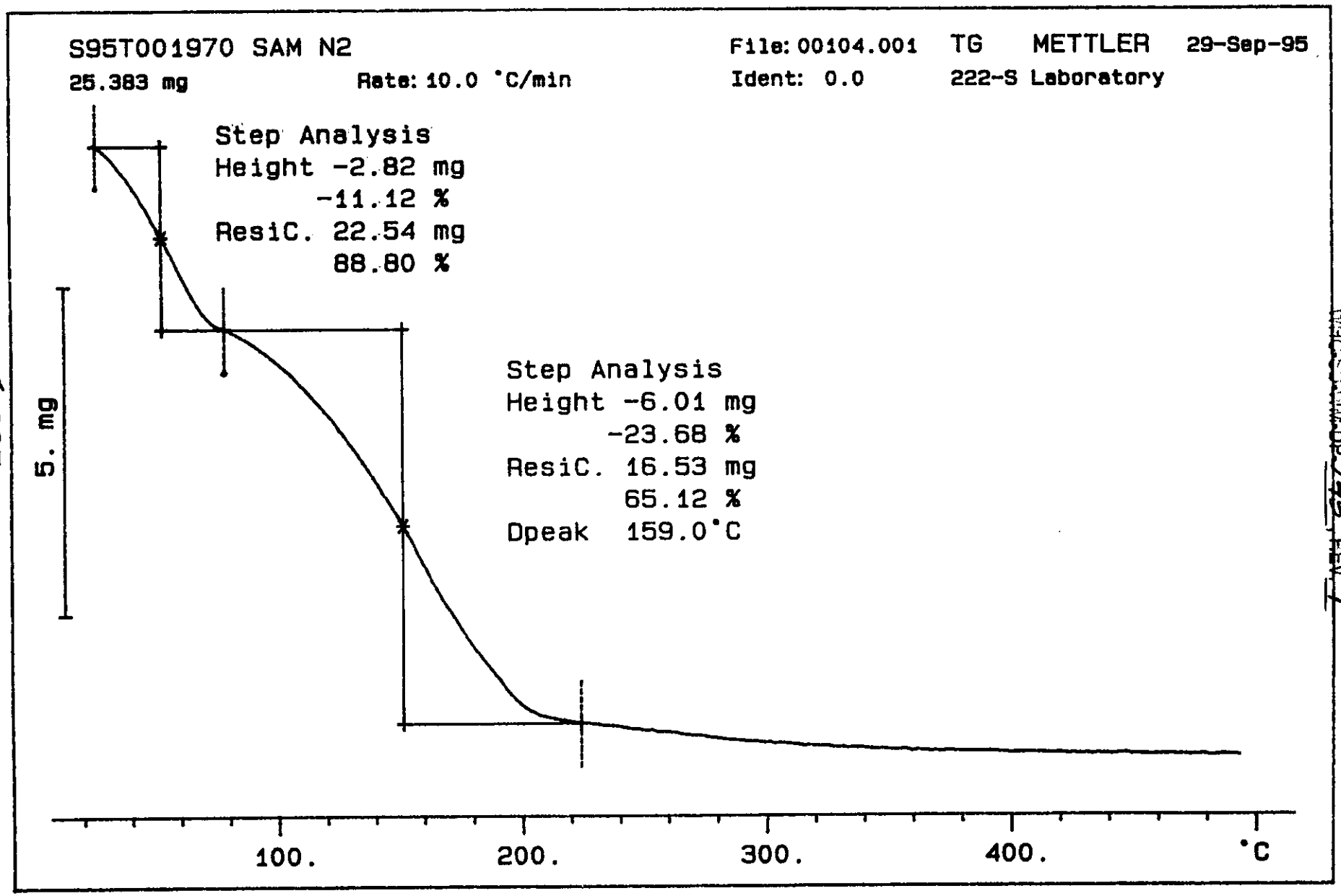


Anthony Fuentes 9-29-95

2-294

WHC-SD-WM-DP-146, REV. 4

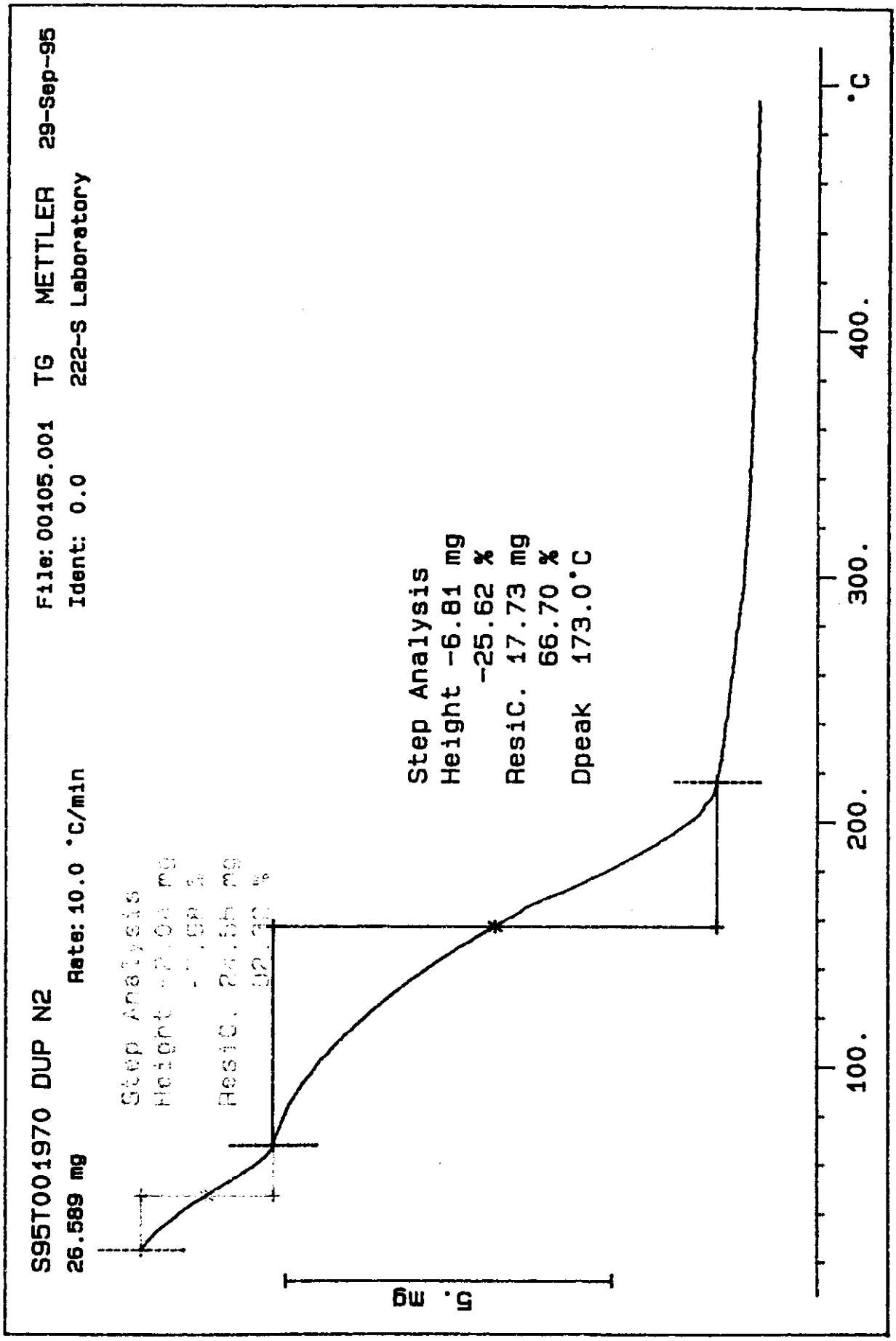
BEST AVAILABLE COPY



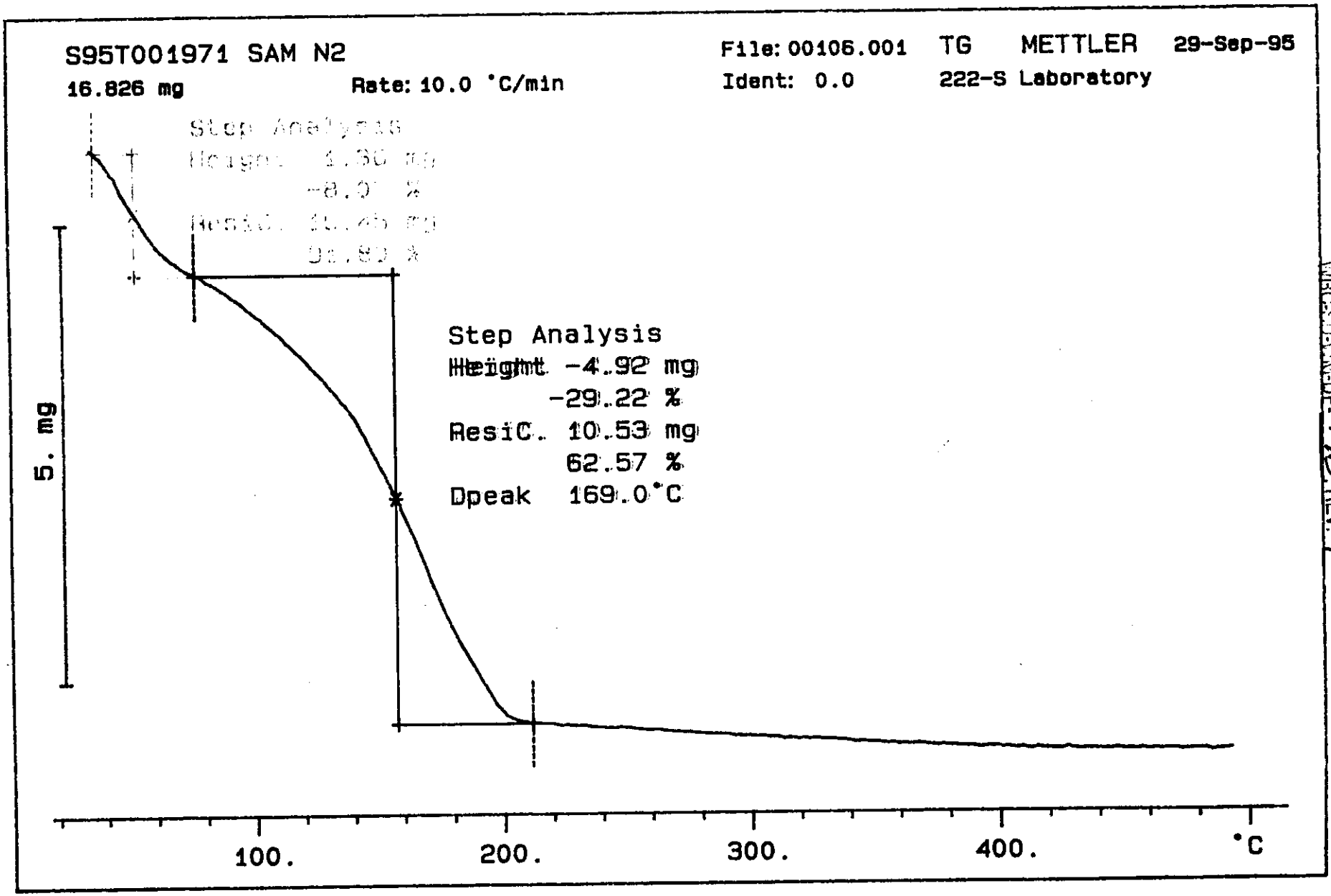
WHC-SD-WM-DP-145, REV. 1

2-295

BEST AVAILABLE COPY



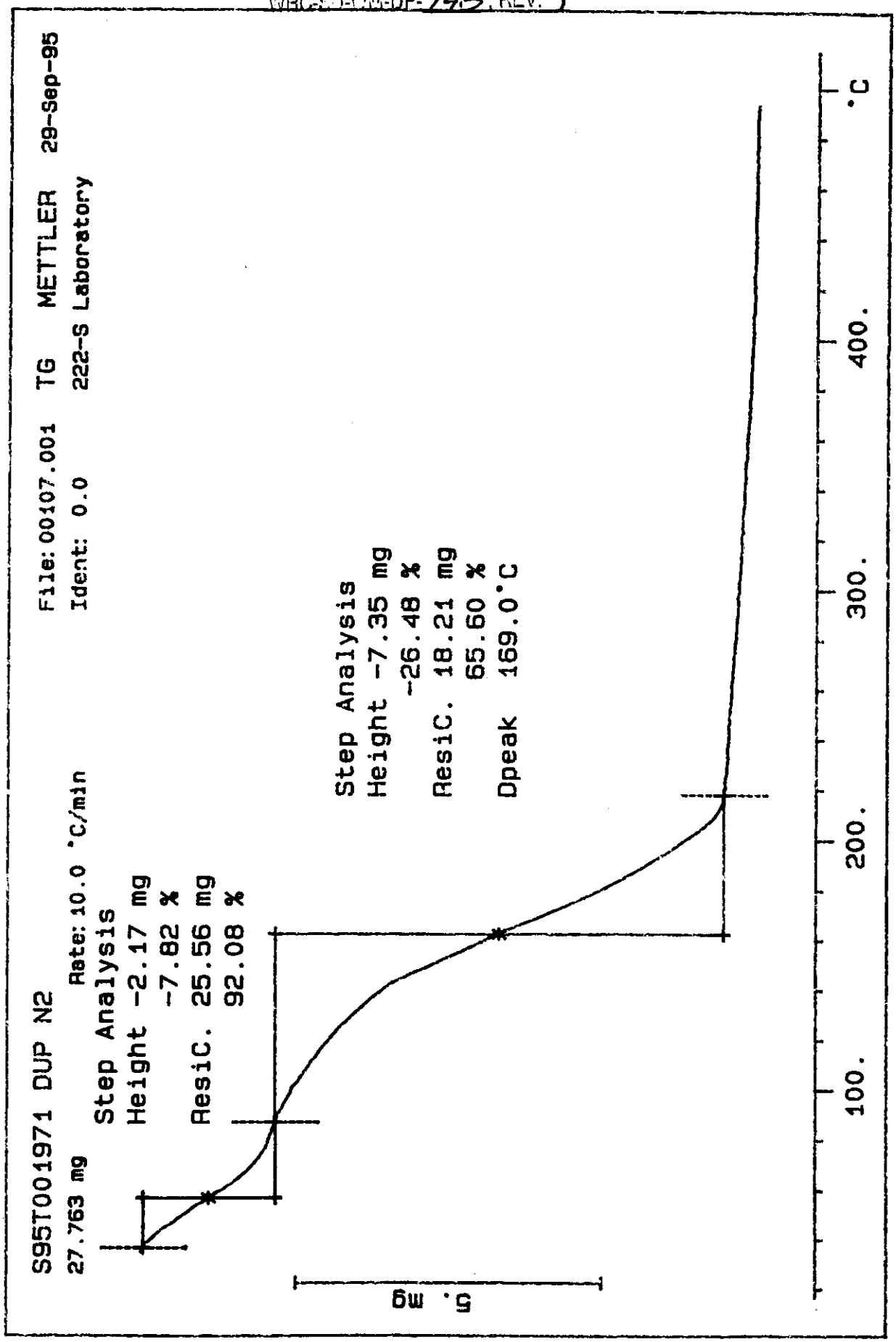
BEST AVAILABLE COPY



2-297

WHC-SD-WM-DP-145 REV. 1

BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2420

Analyst: DcD **Instrument:** TGA0 1 **Book #** 65N8-A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.14	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001972	0		TGA-01	SOLID	N/A	31.01		%
95000118	BY-108 (R)	3	DUP	S95T001972	0		TGA-01	SOLID	31.01	33.09	N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001973	0		TGA-01	SOLID	N/A	41.10		%
95000118	BY-108 (R)	5	DUP	S95T001973	0		TGA-01	SOLID	41.10	41.13	N/A	%

Final page for worklist # 2420

David C. Duncan 10-1-95
Analyst Signature **Date**

[signature] 10/02/95
Analyst Signature **Date**

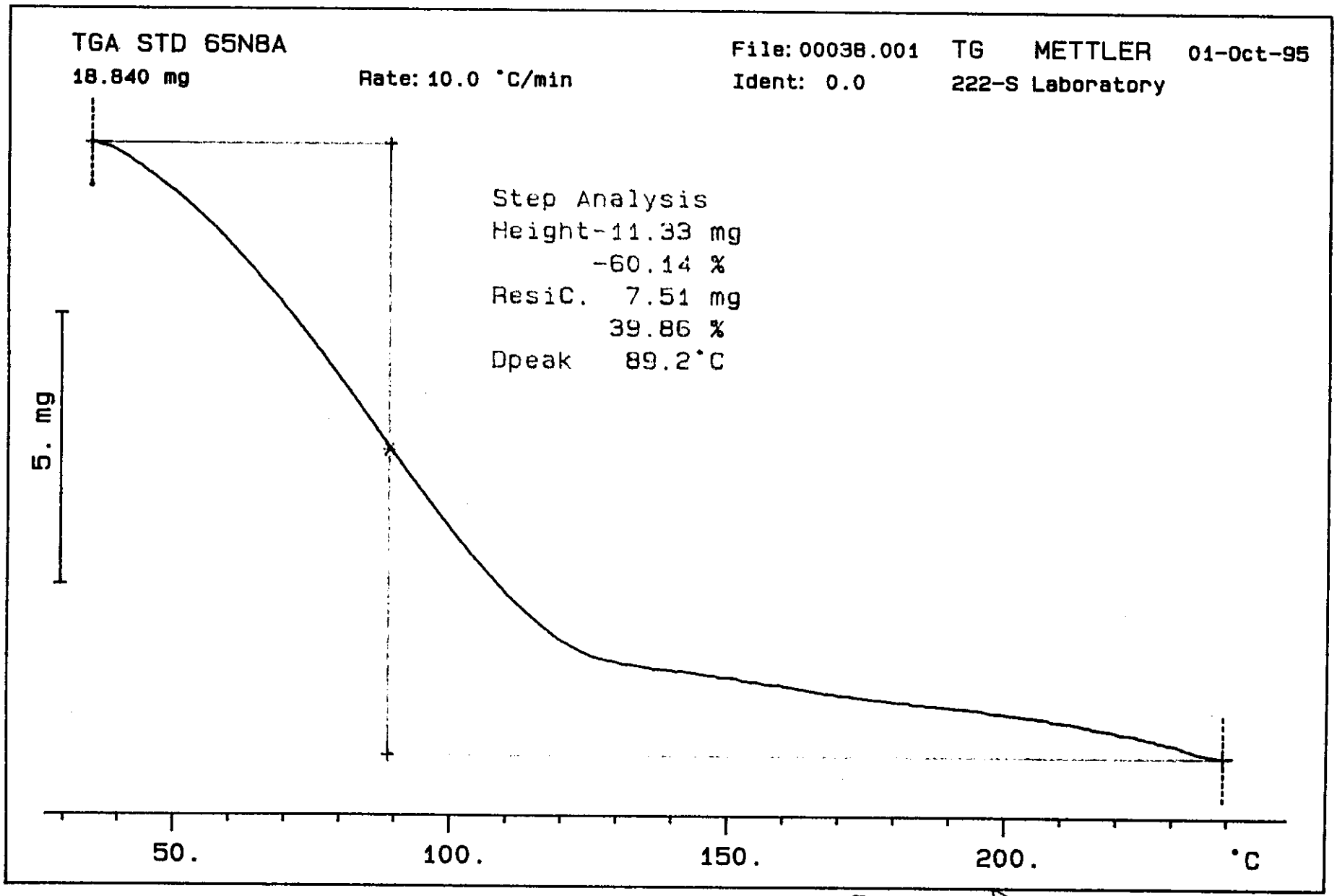
Verified by Blandina Valenzuela 10-4-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-300 TO 2-304

BEST AVAILABLE COPY

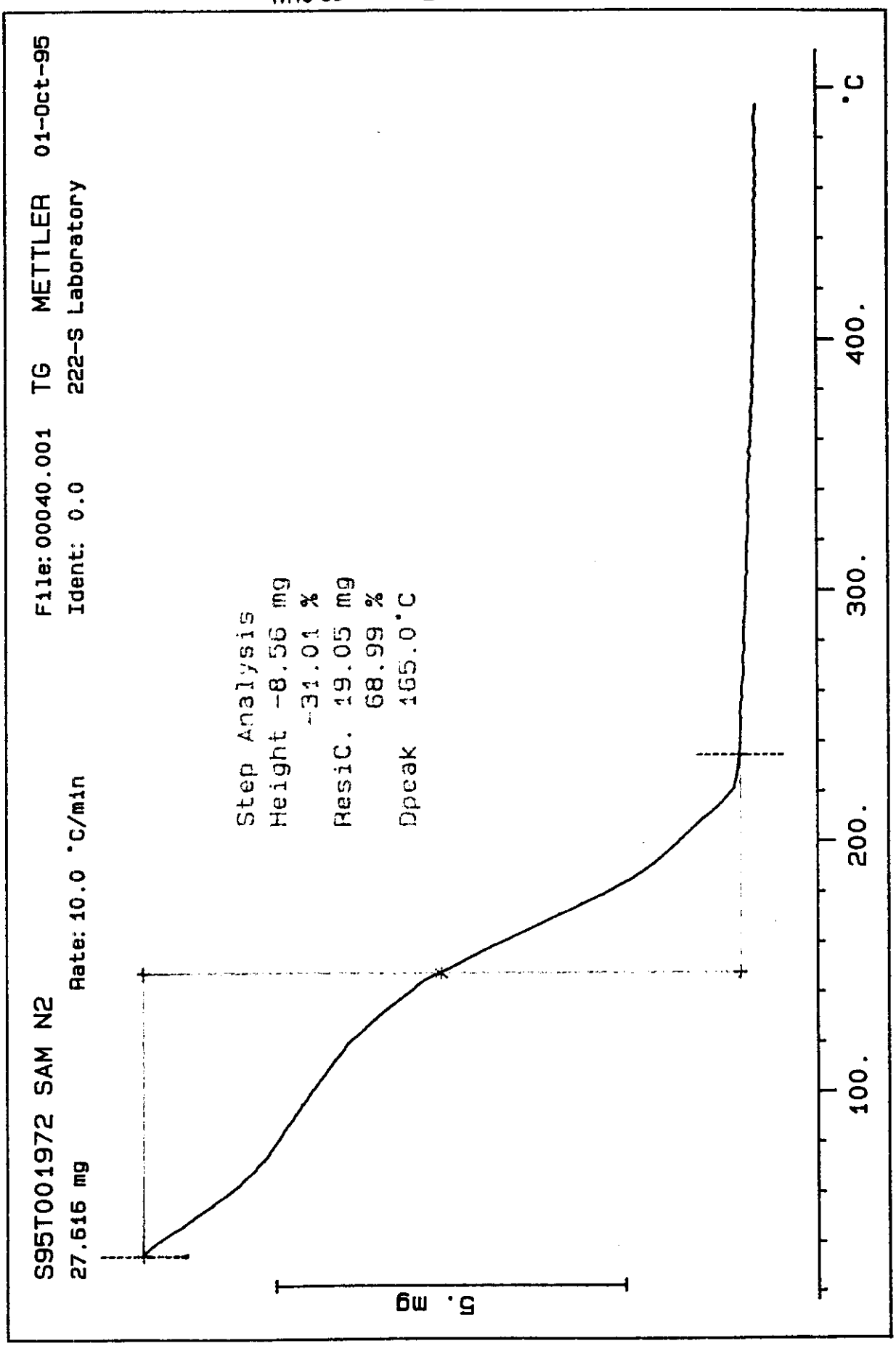


2-300

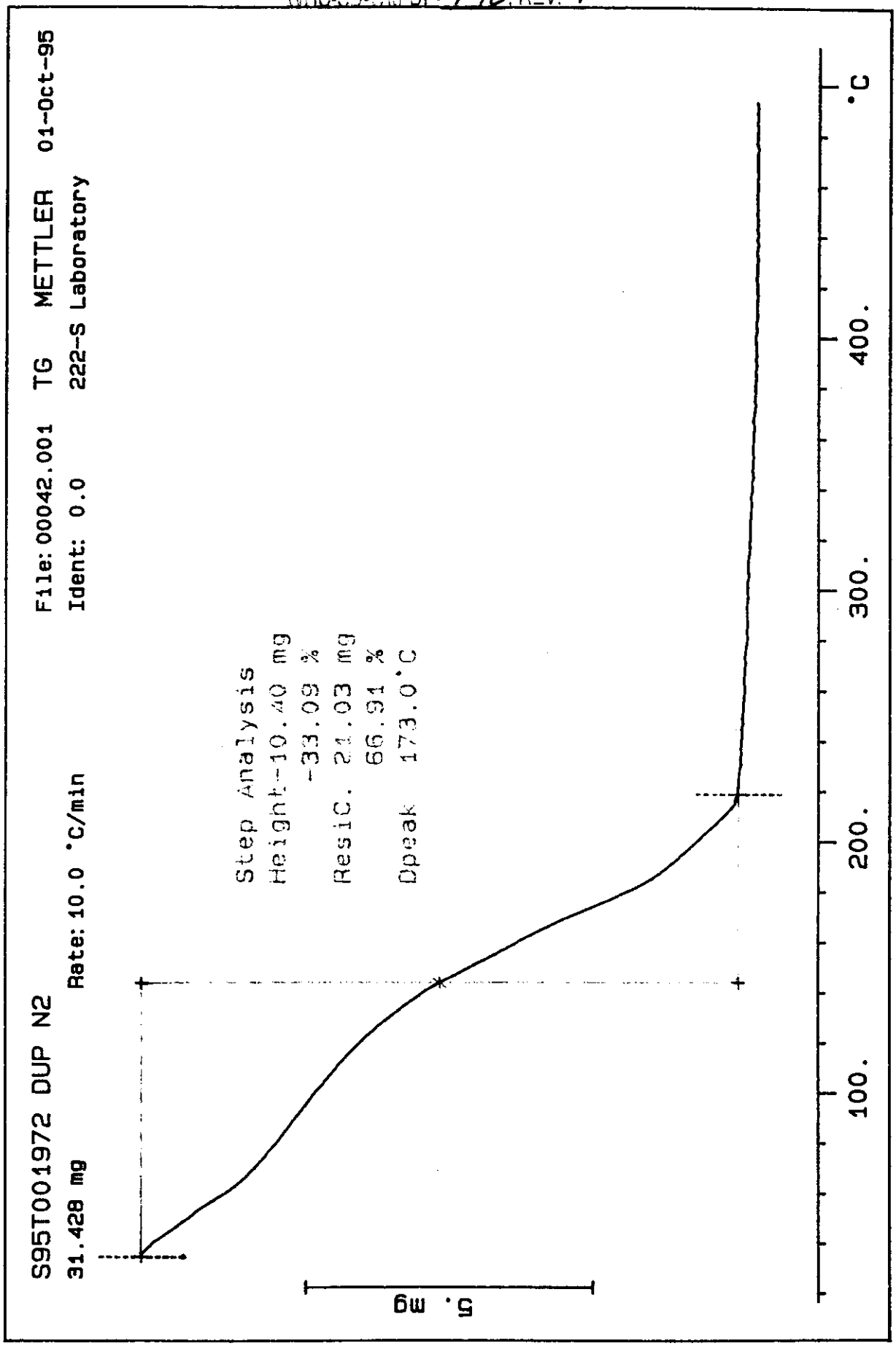
WHC-SD-WM-DP-145, REV. 1

David C. Duncan 10-95

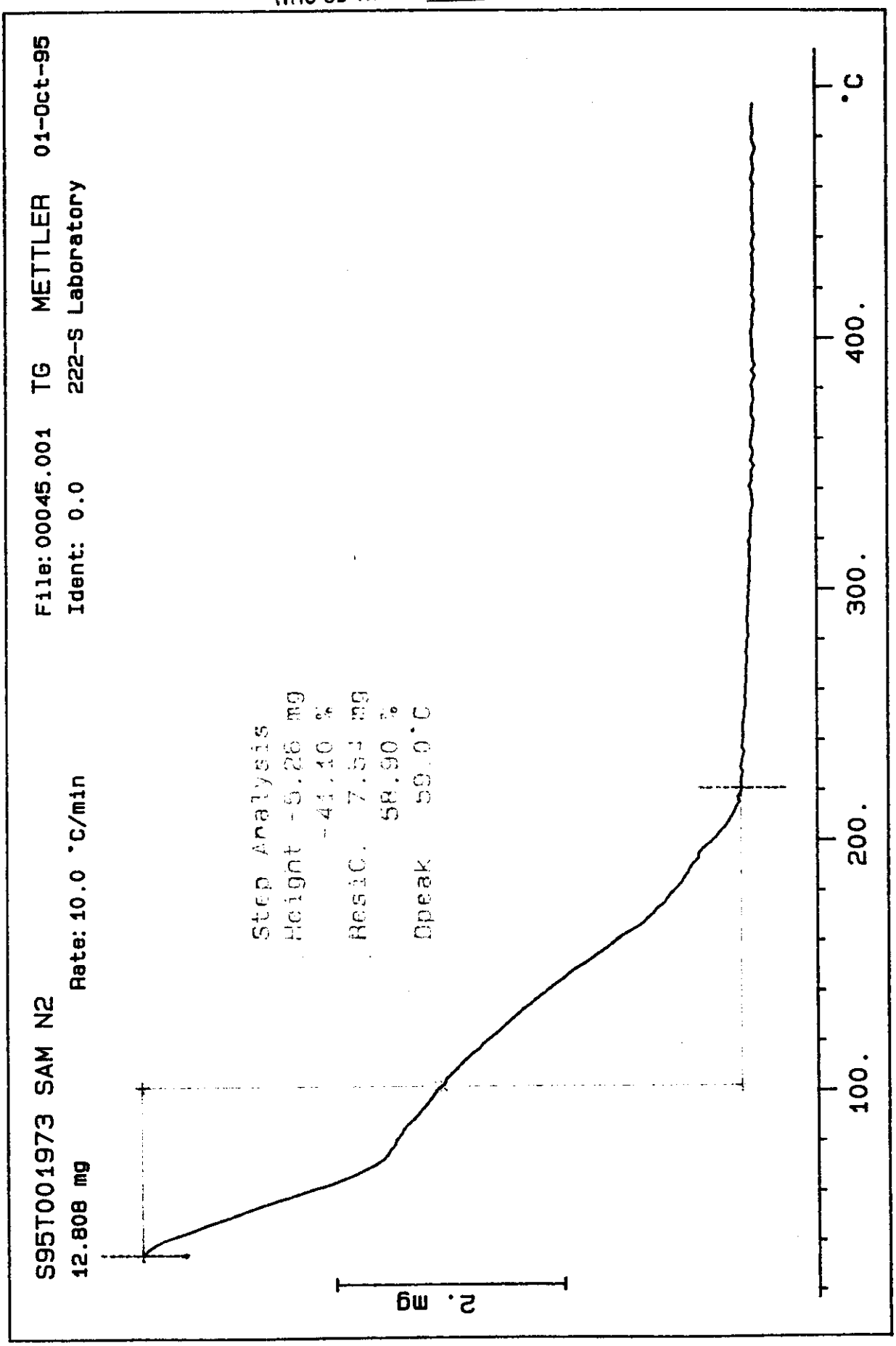
BEST AVAILABLE COPY



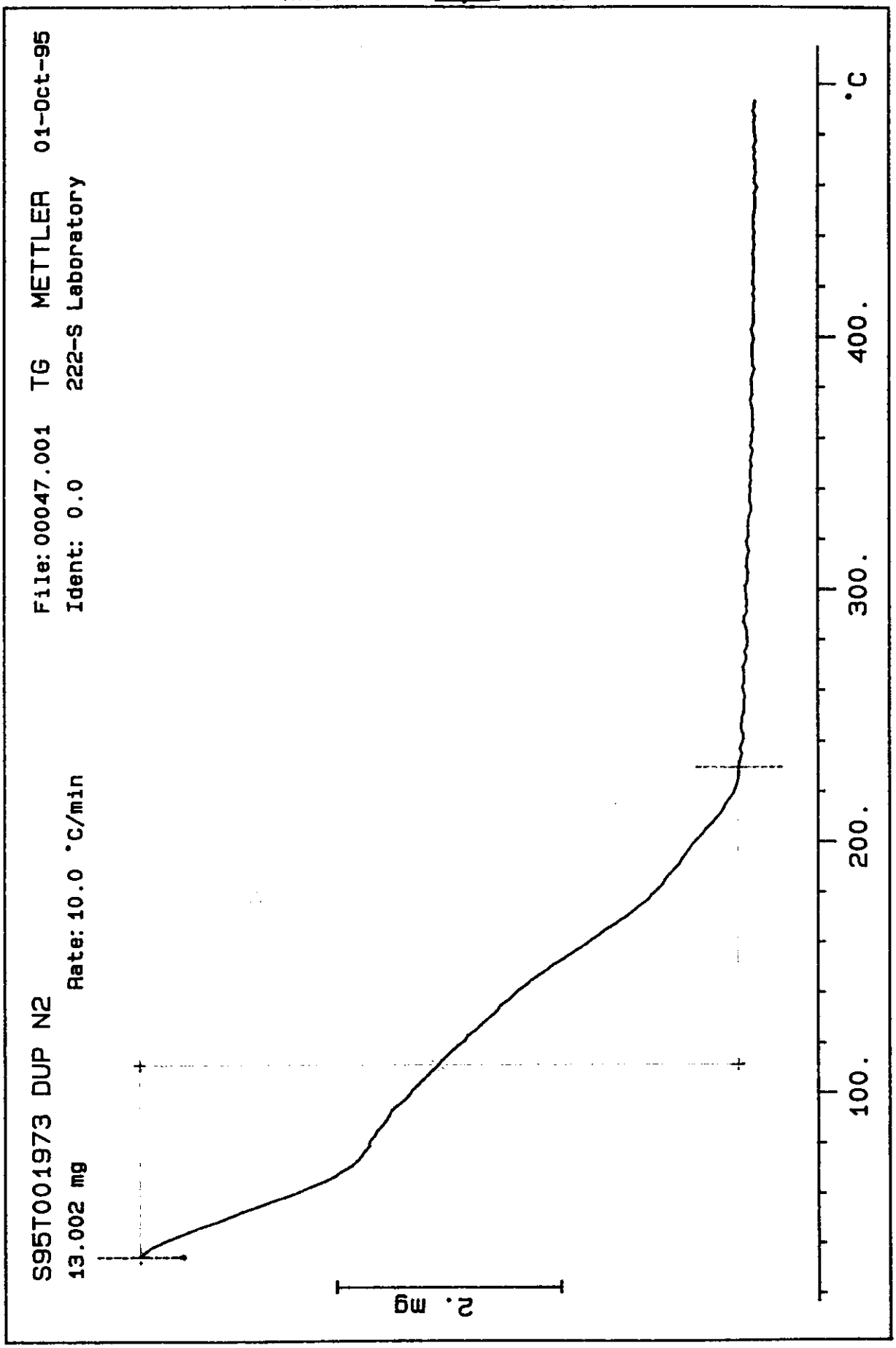
BEST AVAILABLE COPY



BEST AVAILABLE COPY



BEST AVAILABLE COPY



LABCORE Data Entry Template for Worklist# 2421

Analyst: PJM **Instrument:** TGA0 3 **Book #** 65N8A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	59.74	60.37	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001974	0	TGA-03	SOLID	N/A	9.77		%
95000118	BY-108 (R)	3 DUP	S95T001974	0	TGA-03	SOLID	9.77	8.80	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001975	0	TGA-03	SOLID	N/A	9.37		%
95000118	BY-108 (R)	5 DUP	S95T001975	0	TGA-03	SOLID	9.37	8.98	N/A	%

Final page for worklist # 2421

See attached for signatures
Analyst Signature Date

Analyst Signature 10-5-95 Date

Verified by Blandina Valenzuela 10-5-95

S95T001974 produced an additional weight loss step of 31.08 wt % at approximately 190°C.

Data Entry Comments: S95T001975 produced an additional weight loss step of 26.84 weight % at approximately 190°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2421

Analyst: BJ McCown **Instrument:** TGA0 _____ **Book #** 65W8A

Method: LA-~~560-112~~ 514-114 Rev/Mod C-0
Rev 10/1/95

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001974	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	3	DUP	S95T001974	0		TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001975	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	5	DUP	S95T001975	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2421

BJ McCown 10/1/95
Analyst Signature **Date**

Analyst Signature **Date**

Other instrument
was used
10-5-95
BDV

Data Entry Comments:

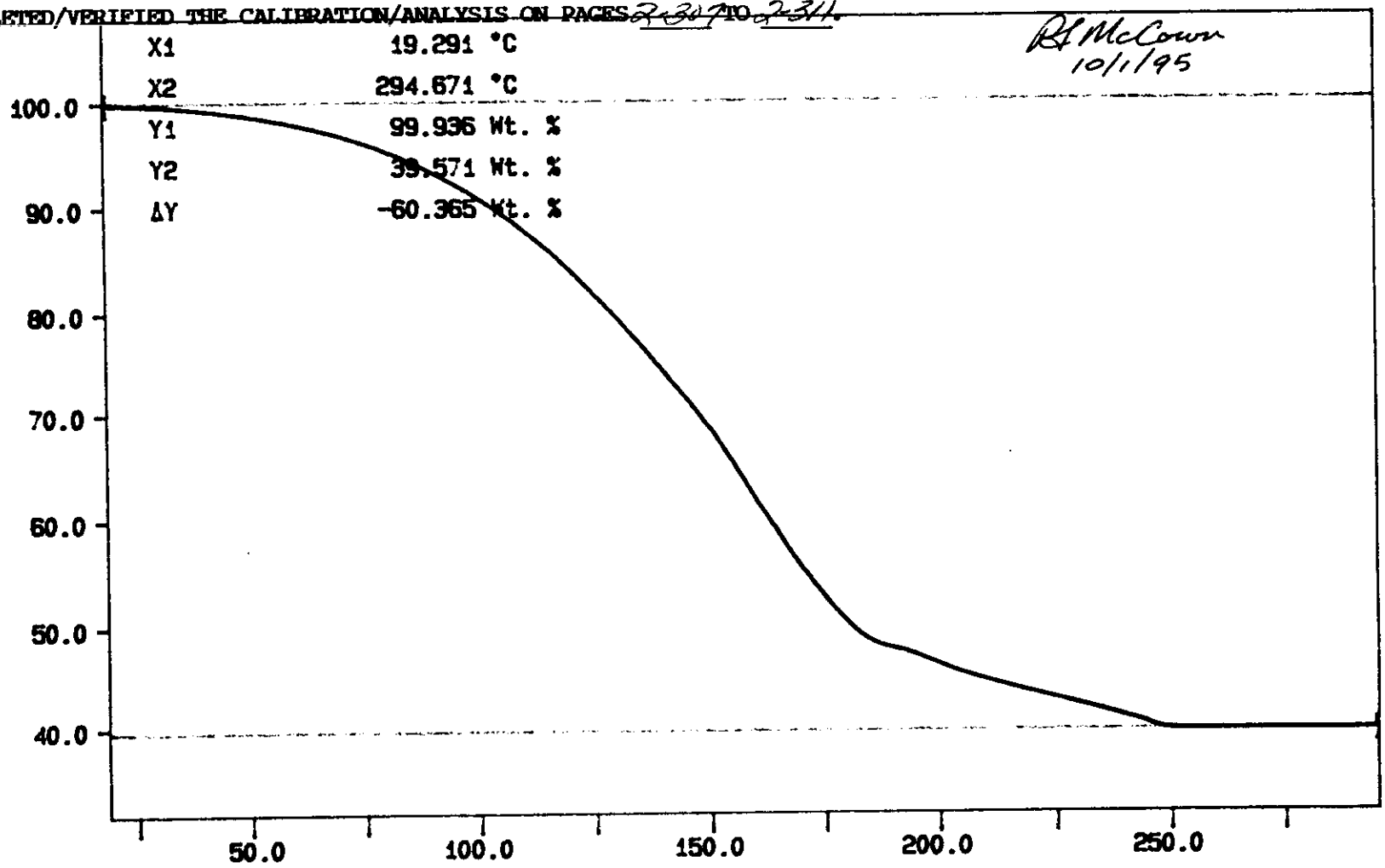
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER100101 Sun Oct 1 00:35:12 1995
Sample Weight: 14.638 mg
65N8-A Terliq

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2307 TO 2311.

RJ McCown 10/1/95



N2 10C/MIN
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

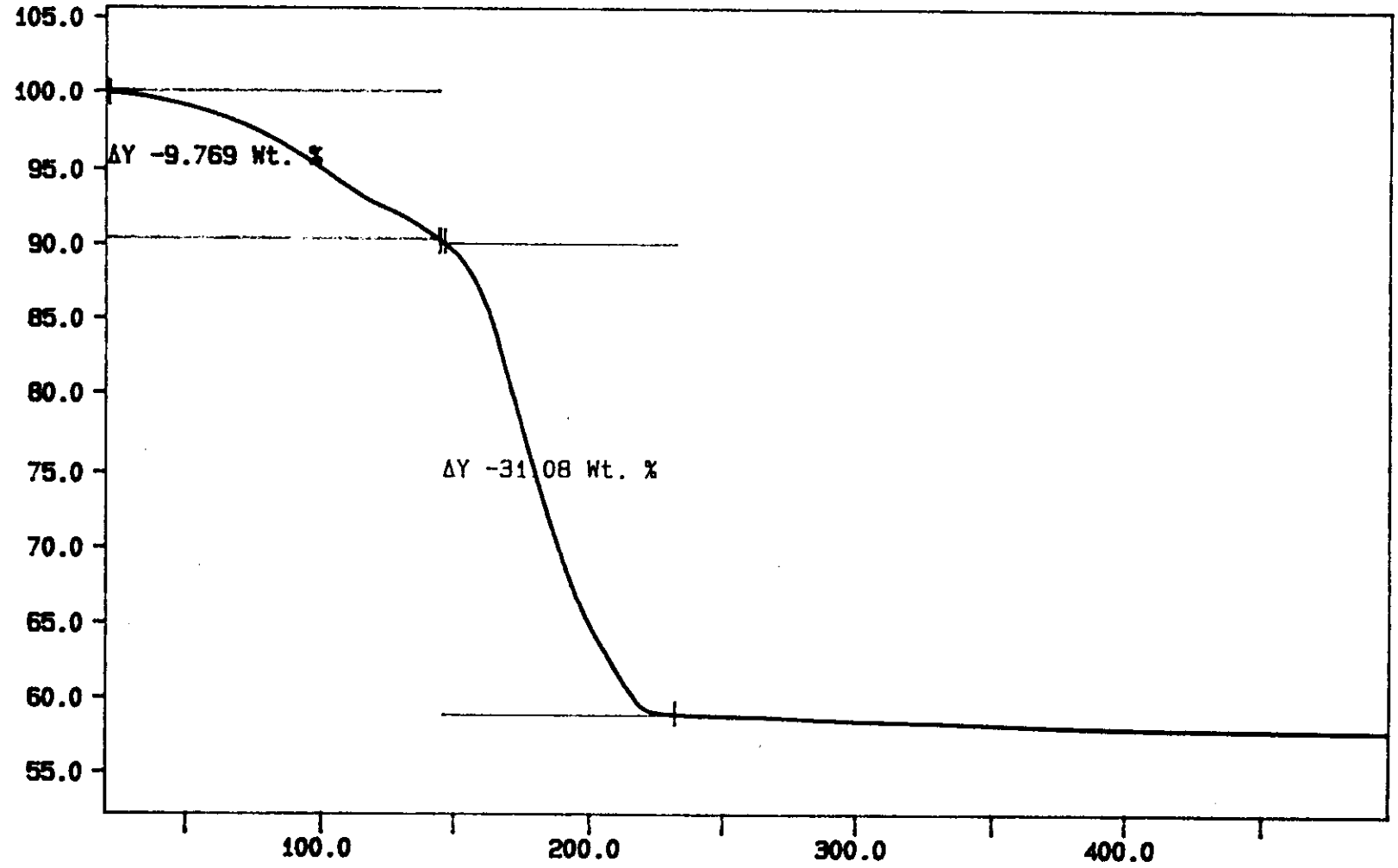
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Oct 1 00:43:03 1995

2-307

WHC-CD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM100103 Sun Oct 1 04:56:20 1995
Sample Weight: 19.263 mg
S95T001974 SAM

BEST AVAILABLE COPY



N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

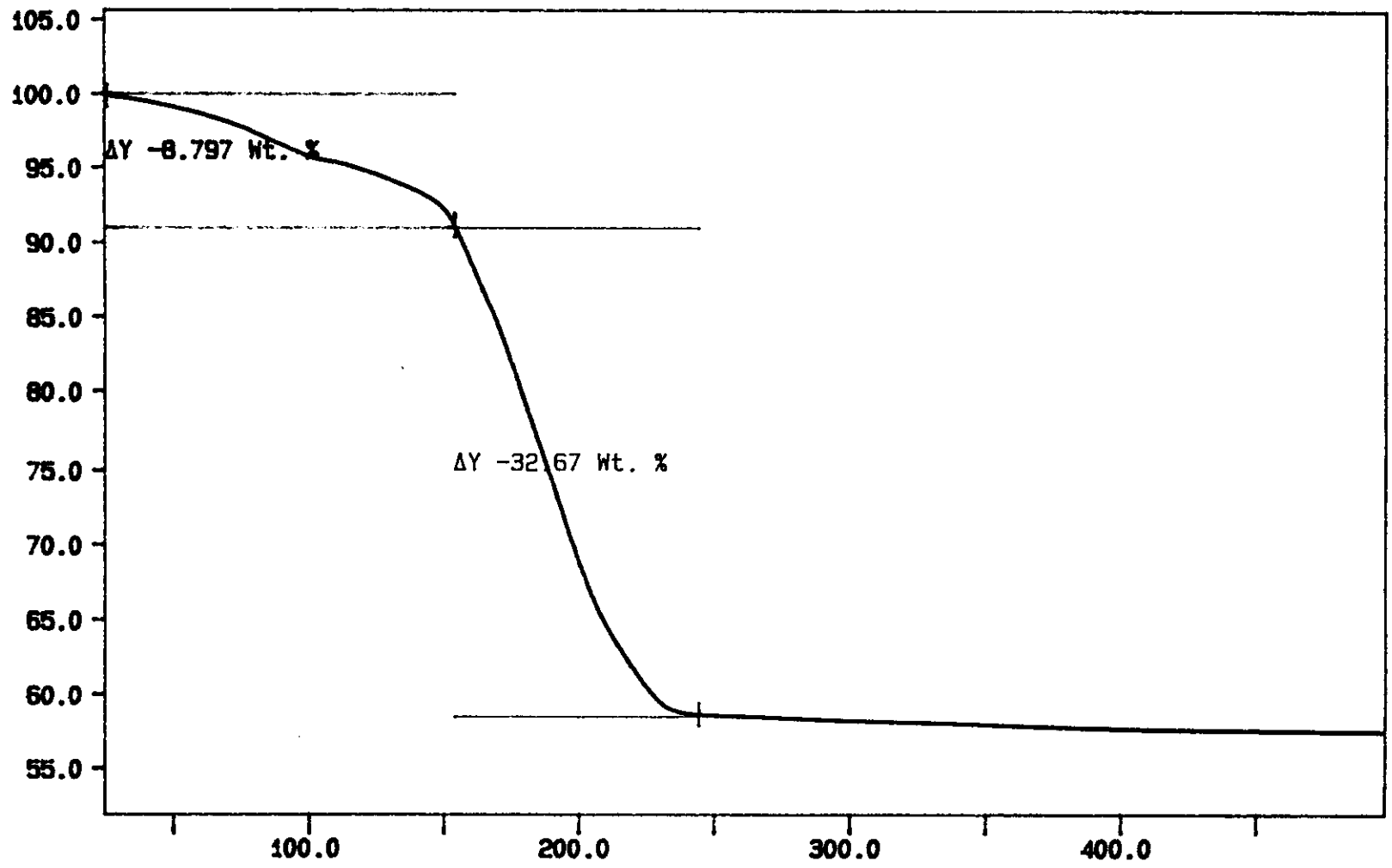
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Oct 4 10:06:14 1995

WHC-CD-WRAP-DP-145, REV. 1

2-308

Curve 1: TGA
File info: SAM100104 Sun Oct 1 06:08:22 1995
Sample Weight: 24.140 mg
S95T001974 DUP

BEST AVAILABLE COPY



N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

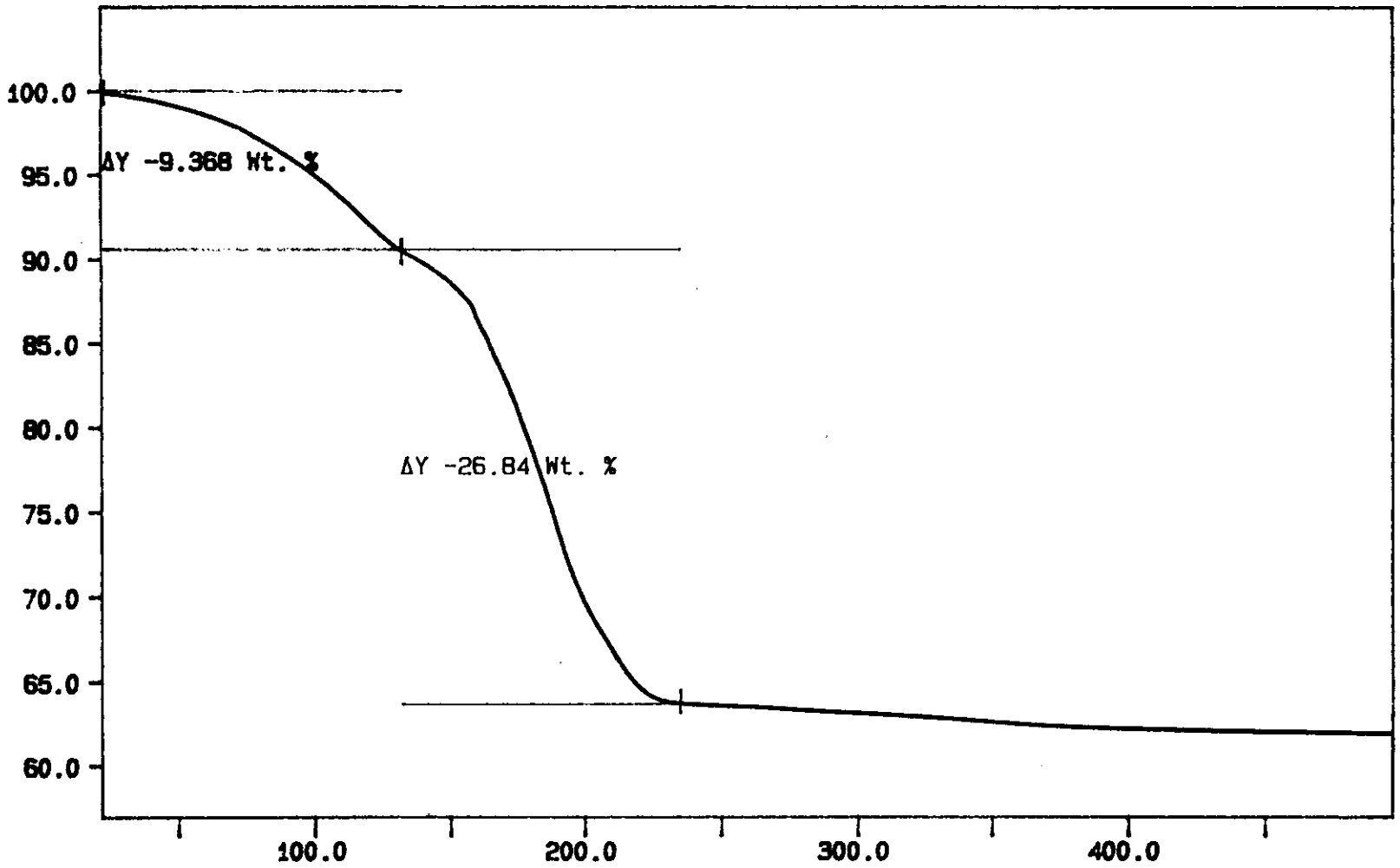
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Oct 4 10:23:51 1995

WHC-SD-WM-DP-146, REV. 1

2-309

Curve 1: TGA
File info: SAM100101 Sun Oct 1 01:47:33 1995
Sample Weight: 21.038 mg
S95T001975 SAM

BEST AVAILABLE COPY



N2
TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 650.0 C

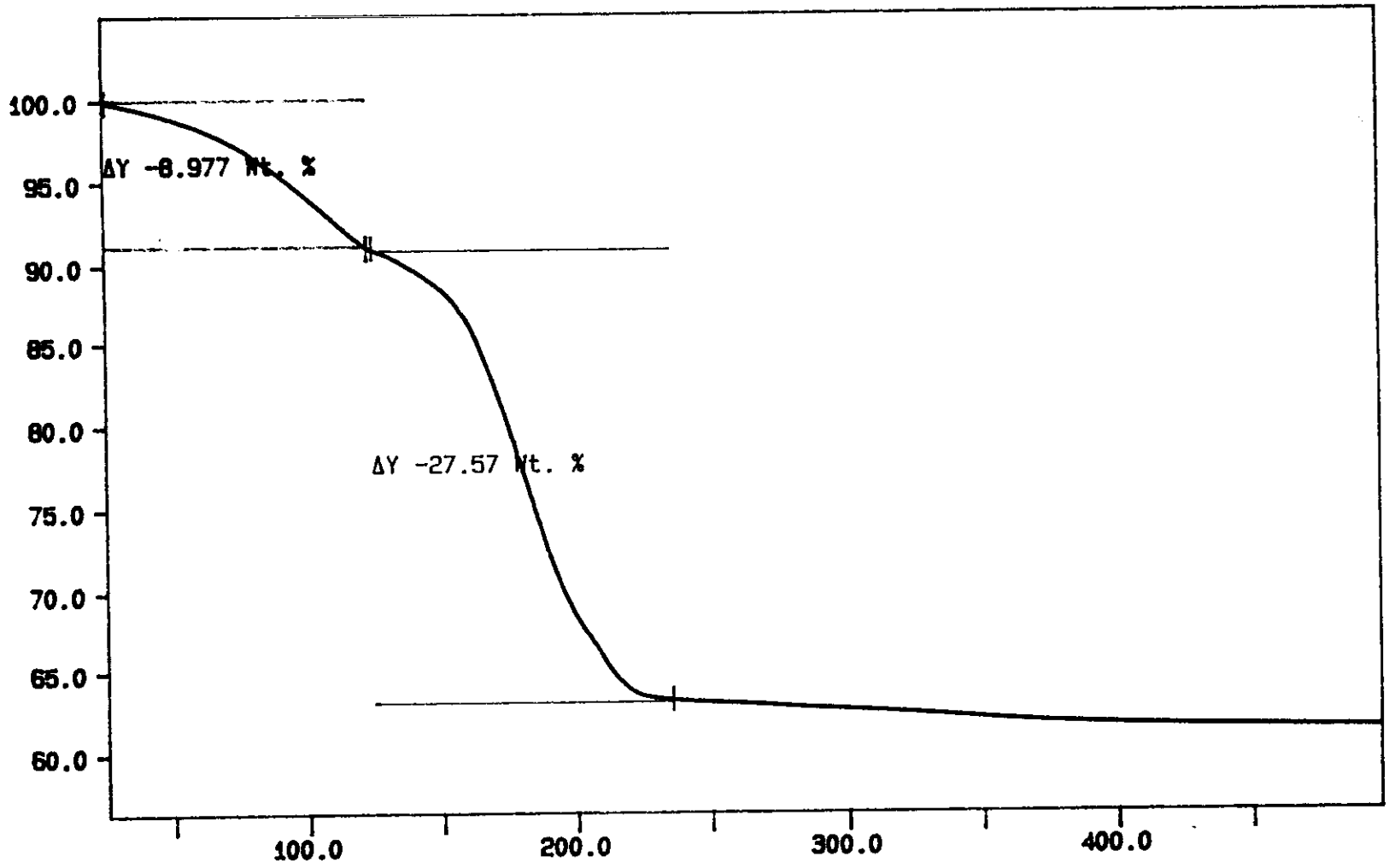
PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Oct 4 10:29:10 1995

C-310

WHC-CD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM100102 Sun Oct 1 02:58:28 1995
Sample Weight: 17.844 mg
S95T001975 DUP

BEST AVAILABLE COPY



N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Wed Oct 4 10:34:36 1995

WHC-SD-WM-DP-145, REV. 1

8-311

LABCORE Data Entry Template for Worklist# 2422

Analyst: RJ McCown **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.38	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001976	0		TGA-01	SOLID	N/A	37.69		%
95000118	BY-108 (R)	3	DUP	S95T001976	0		TGA-01	SOLID	37.69	35.62	N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001977	0		TGA-01	SOLID	N/A	35.50		%
95000118	BY-108 (R)	5	DUP	S95T001977	0		TGA-01	SOLID	35.50	35.50	N/A	%

Final page for worklist # 2422

RJ McCown 10/1/95
Analyst Signature Date

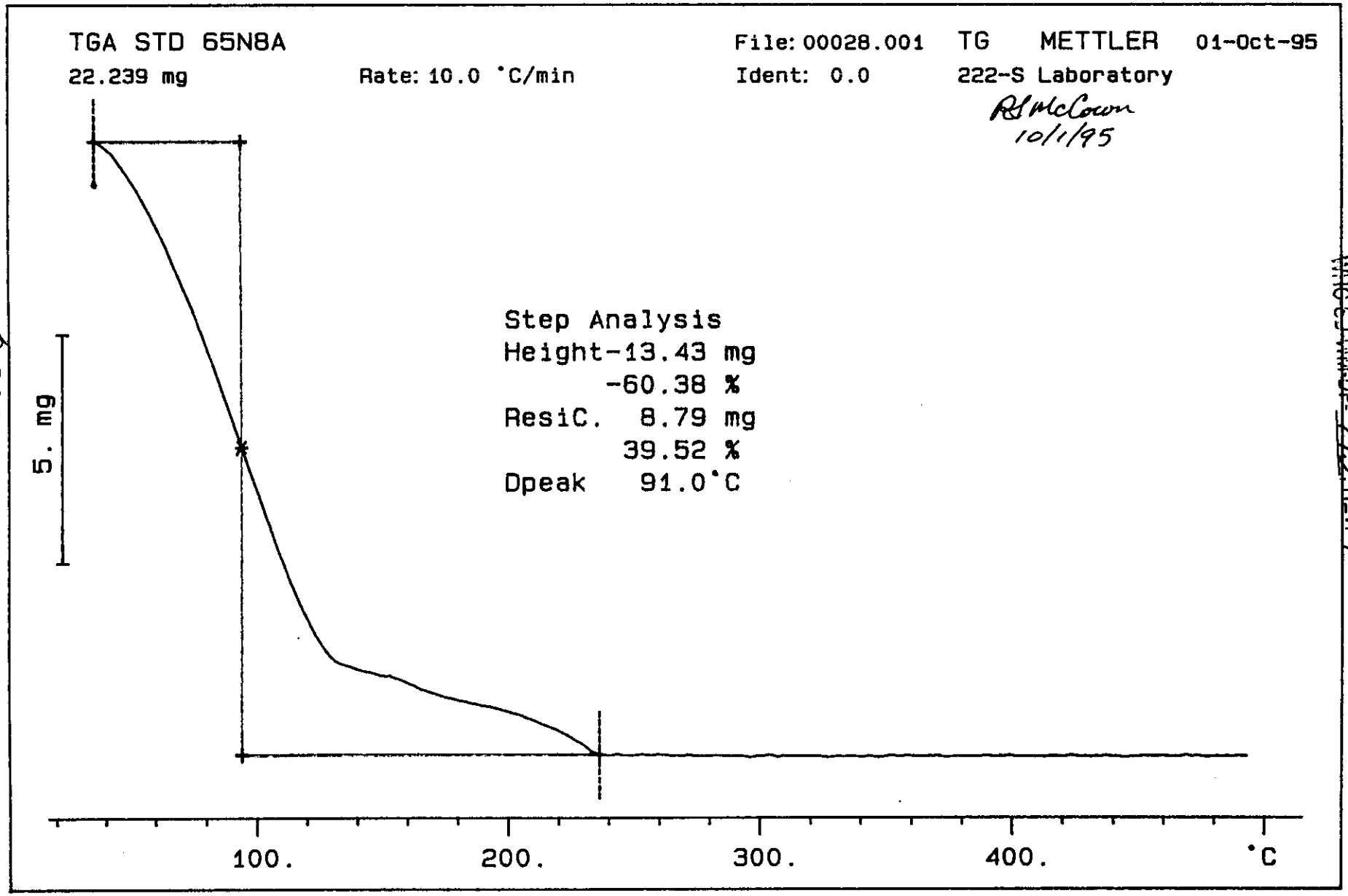
[signature] 10/2/95
Analyst Signature Date

Verified by Blandina Valenzuela 10-4-95

Data Entry Comments: S95T001976 produced a second weight loss step of 4.58% at approximately 400°C.
S95T001977 produced a second weight loss step of 5.37% at approximately 390°C

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

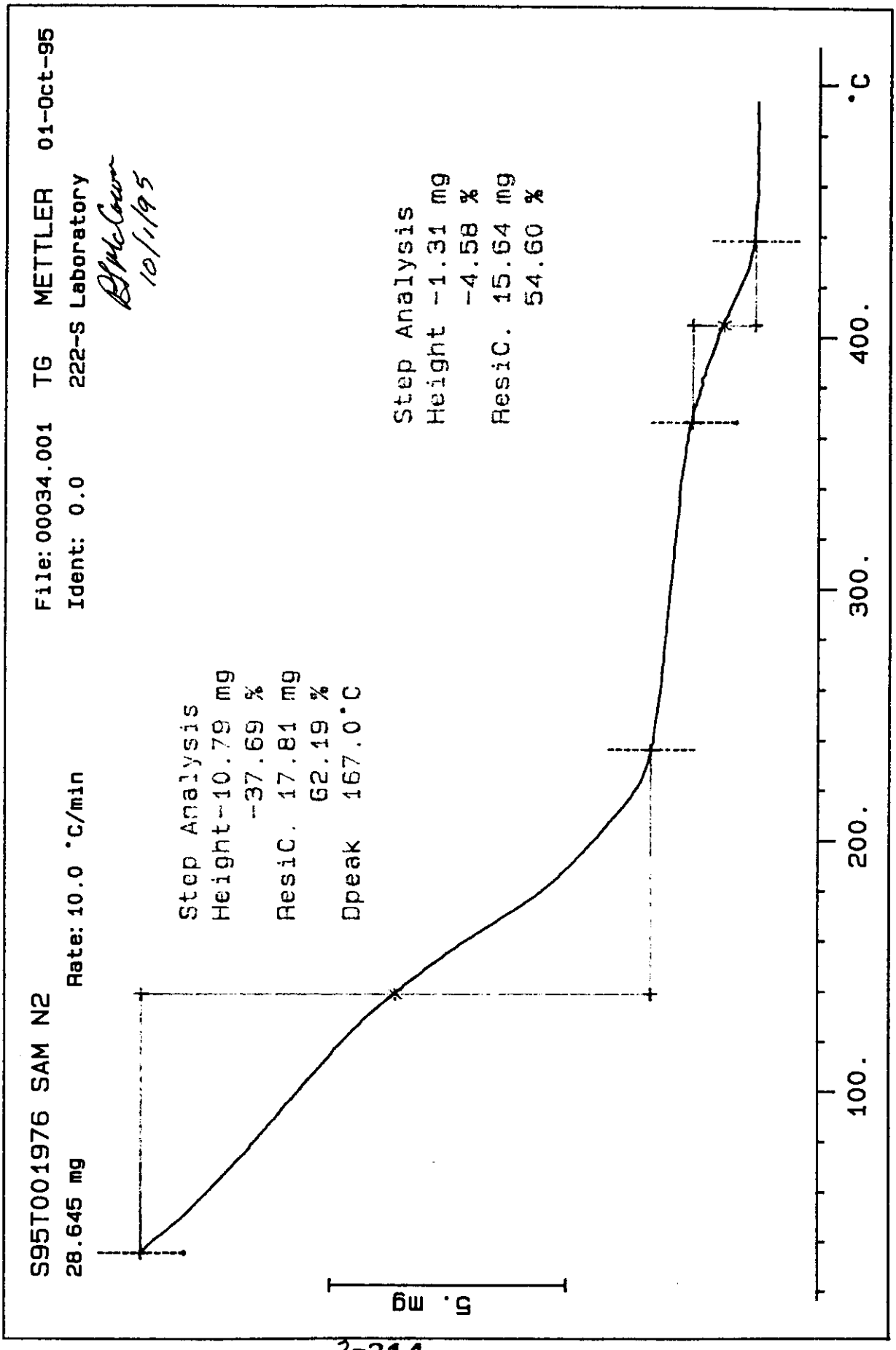
BEST AVAILABLE COPY



2-313

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



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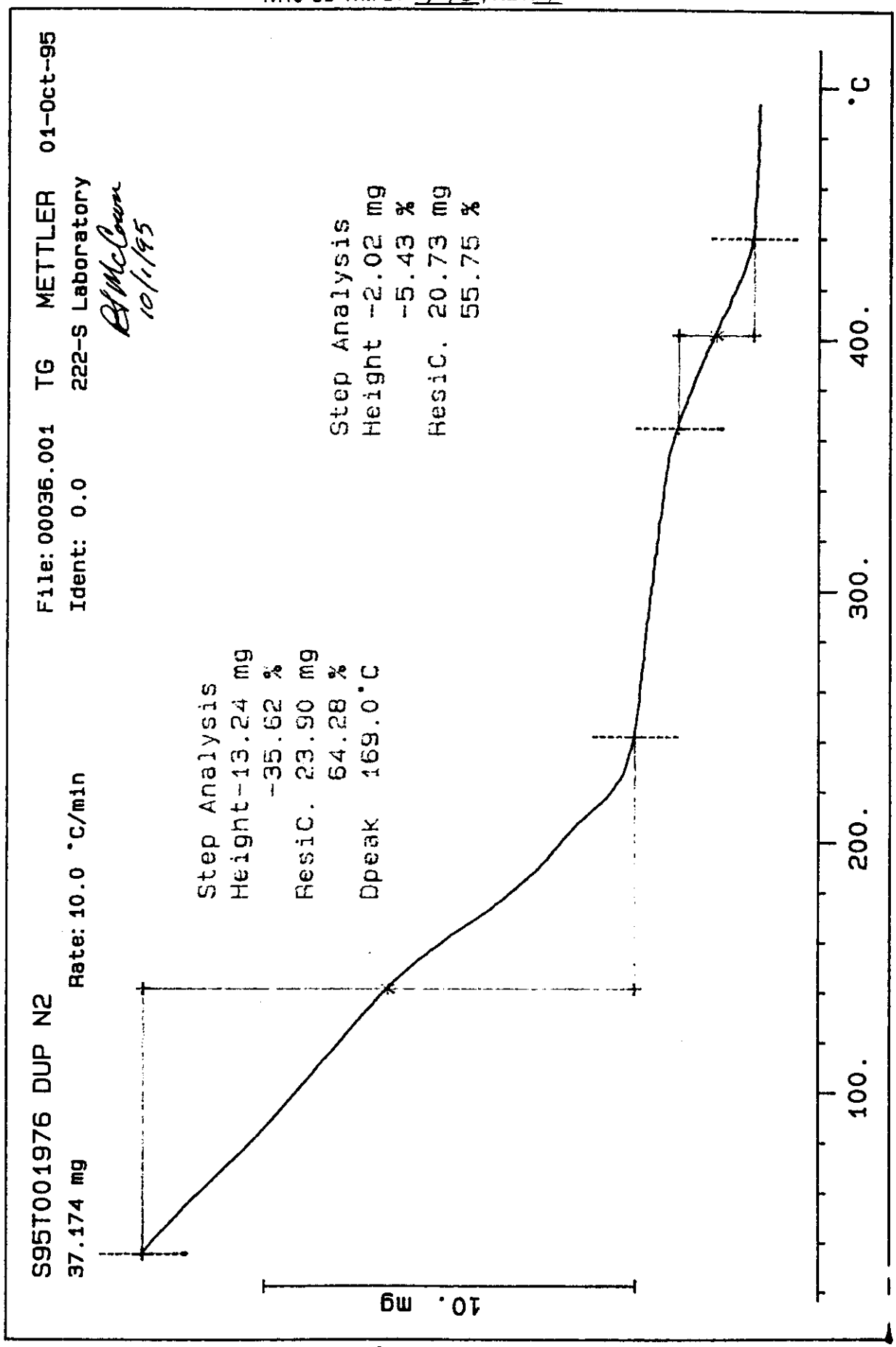

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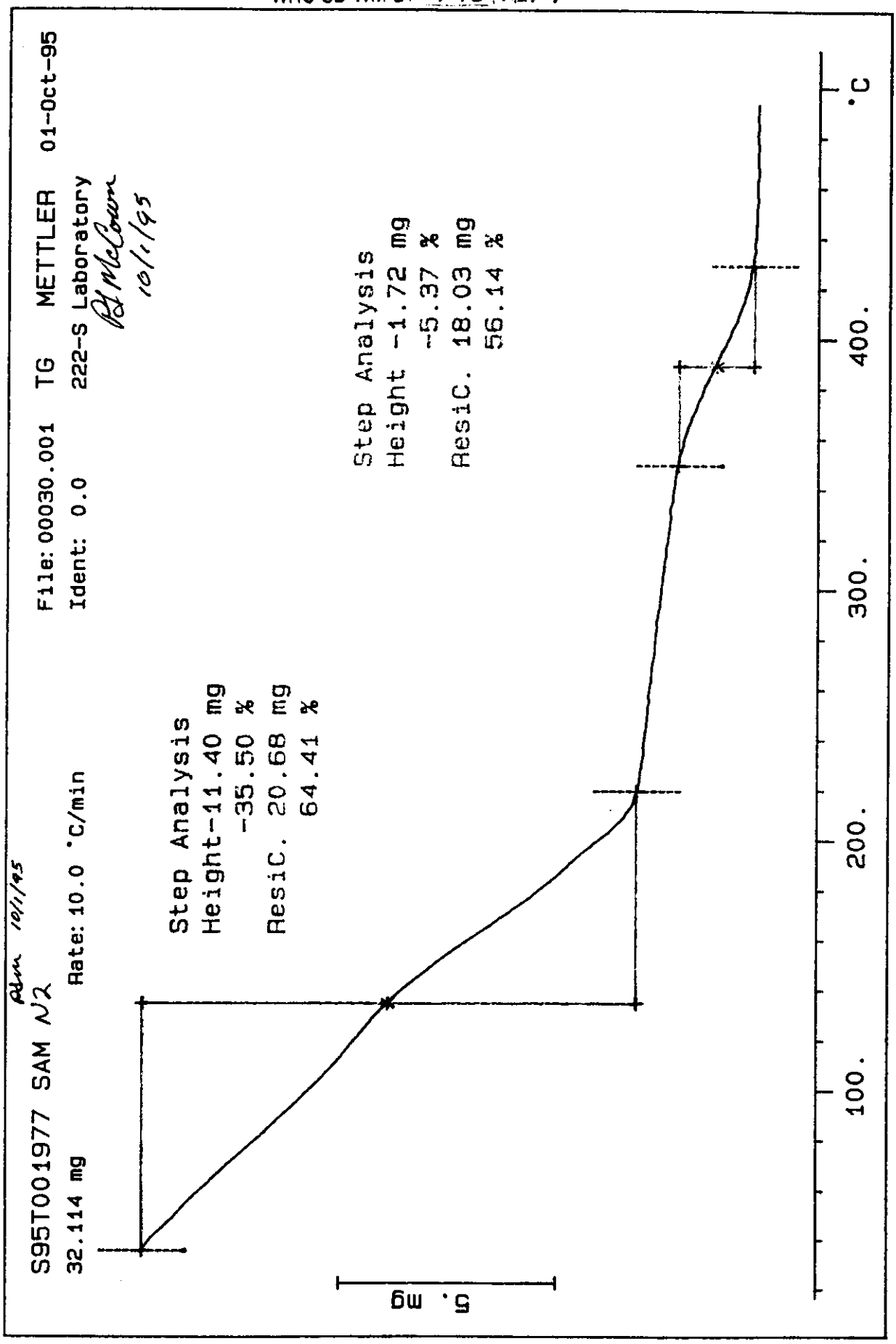

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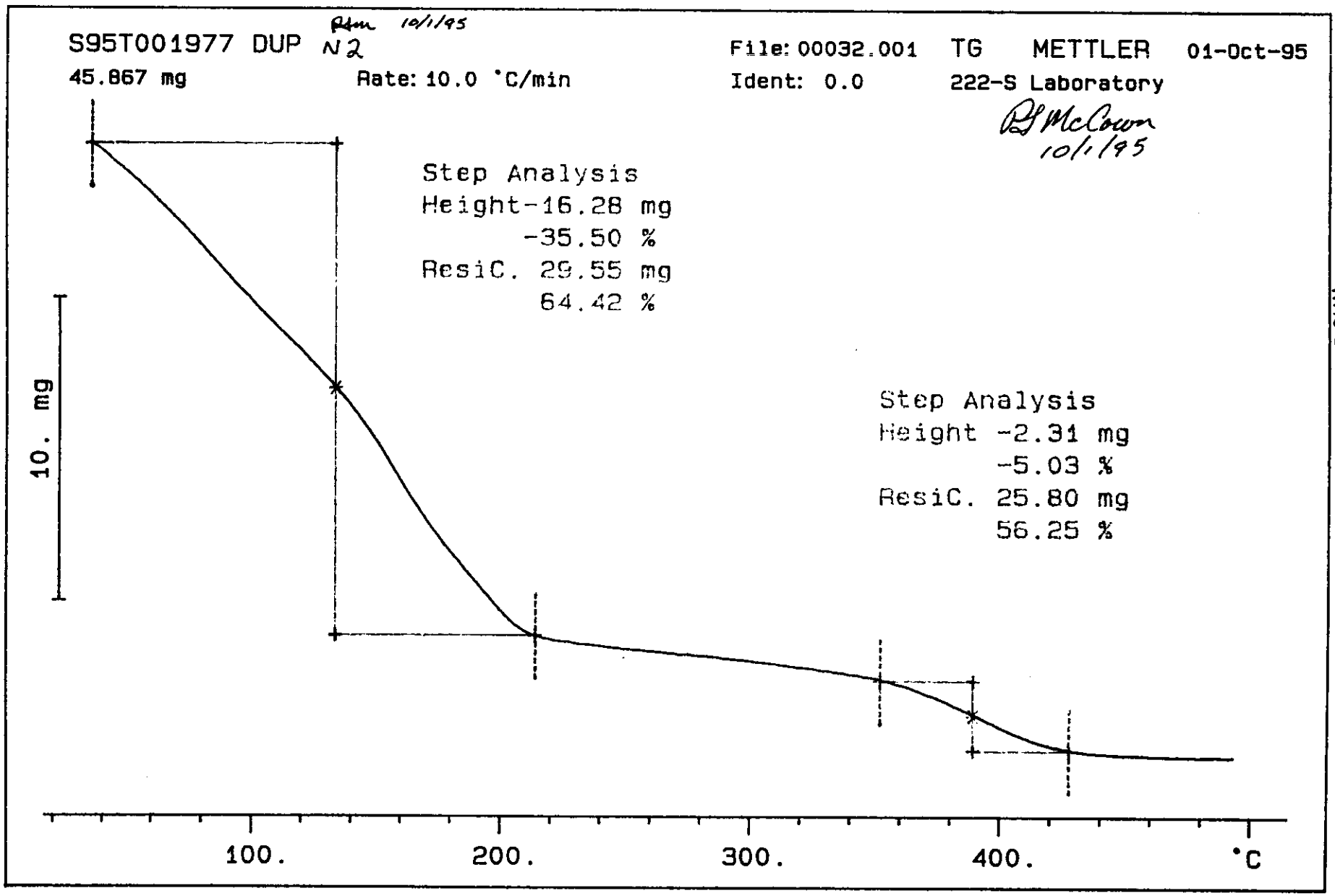


WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2424

Analyst: RBMcCown **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.20	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001905	0		TGA-01	SOLID	N/A	43.26		%
95000118	BY-108 (R)	3 DUP	S95T001905	0		TGA-01	SOLID	43.26	45.28	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001906	0		TGA-01	SOLID	N/A	36.22		%
95000118	BY-108 (R)	5 DUP	S95T001906	0		TGA-01	SOLID	~~32.9~~ 36.22 10-2-95 BV	~~33.88~~ 33.78	N/A	%

Final page for worklist # 2424

RBMcCown 10/1/95
Analyst Signature Date

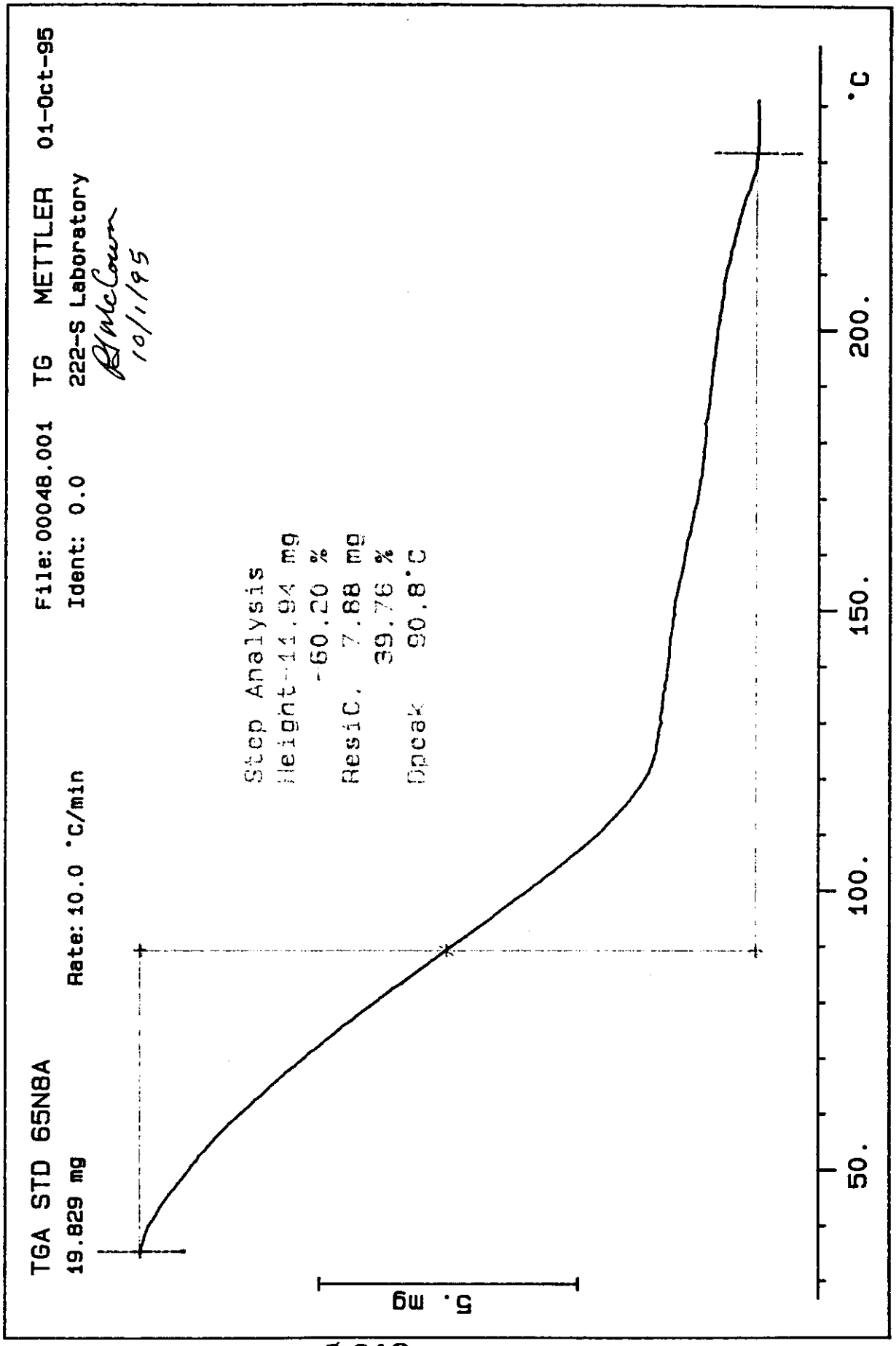
Analyst Signature Date

Verified by Blandina Valenzuela 10-4-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

BEST AVAILABLE COPY



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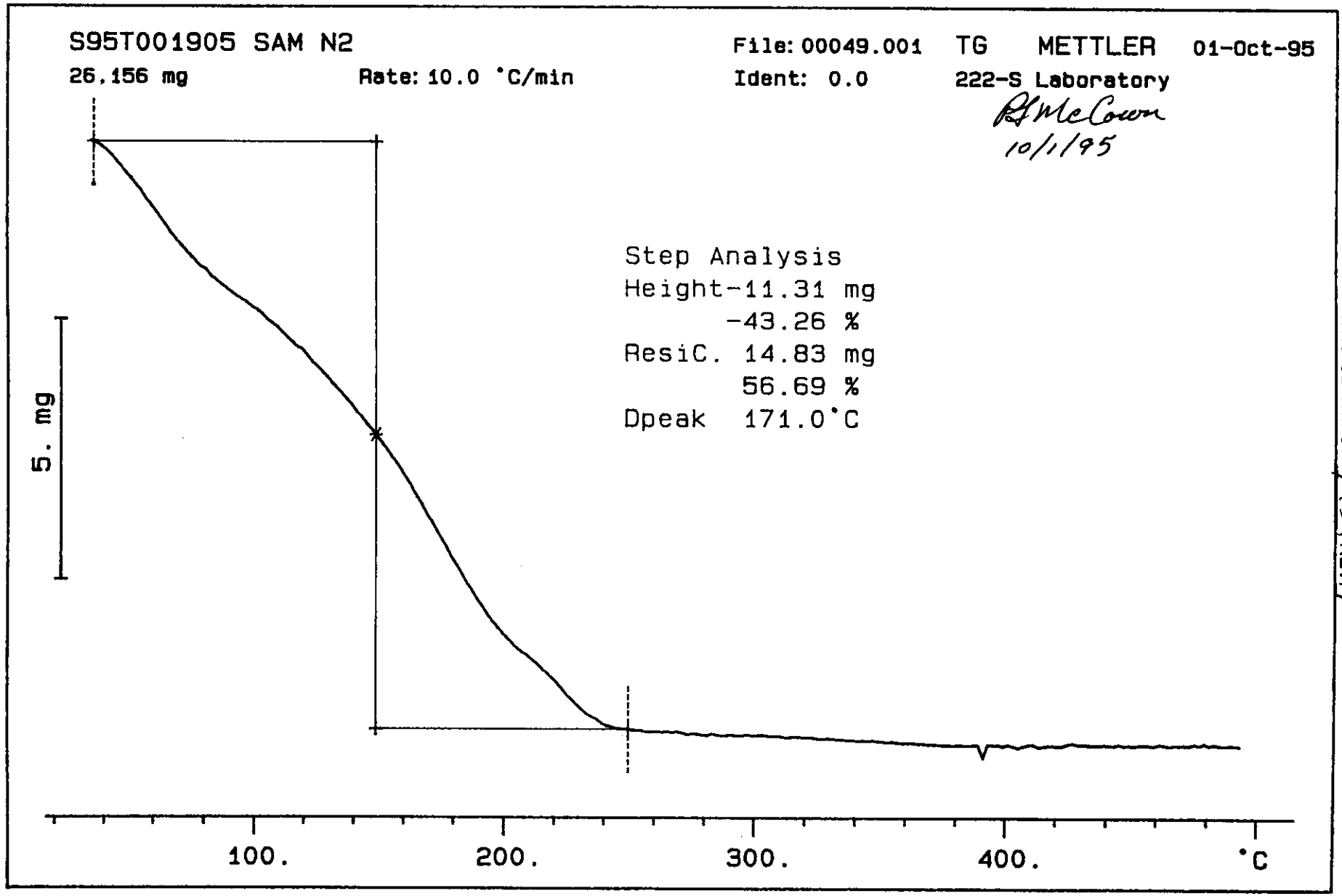
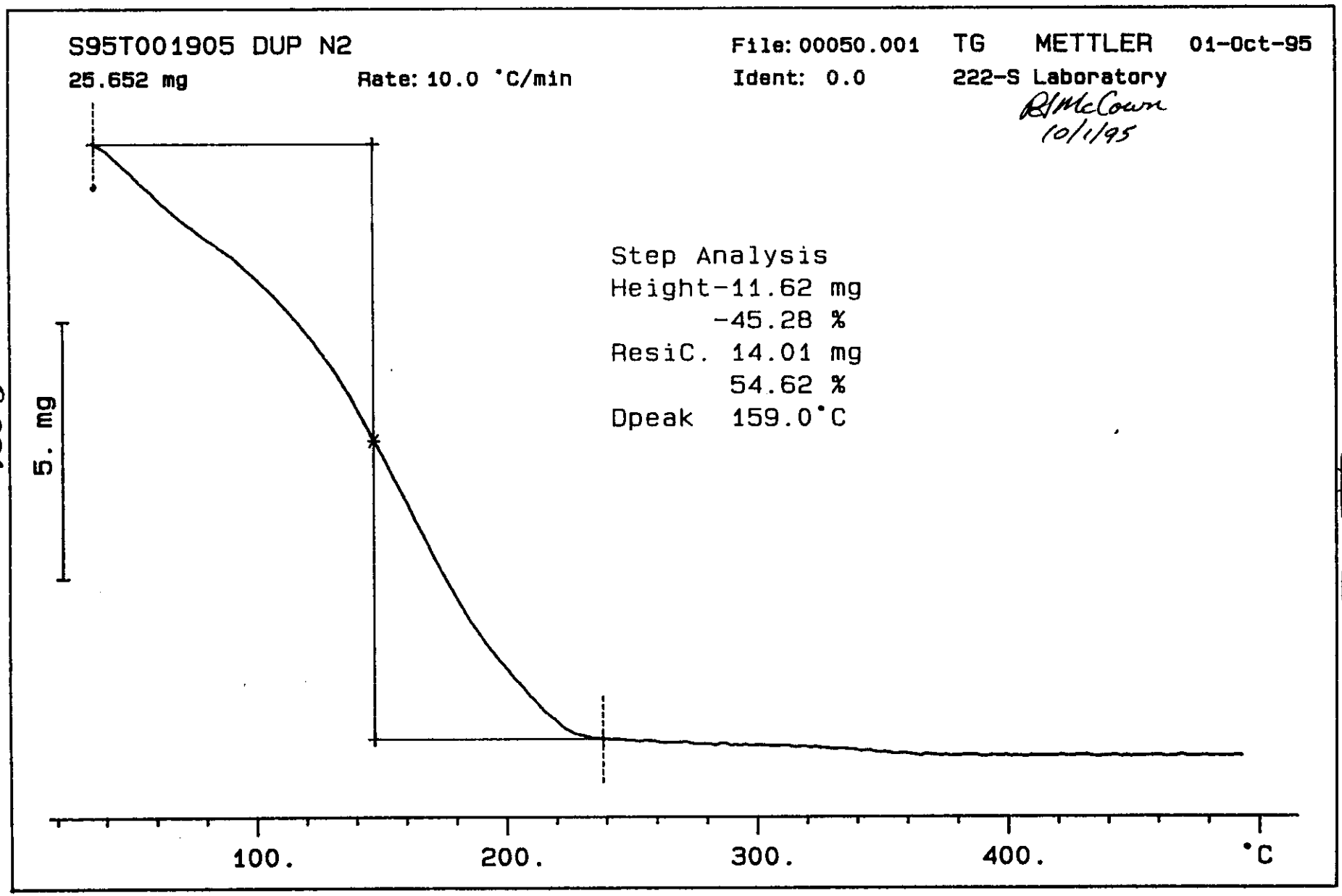


R McCown
10/1/95

2-320

WHC-SD-WM-DP-145, REV. 1

BEST AVAILABLE COPY



2-321

WHC-SD-WM-DP-145, REV. 1

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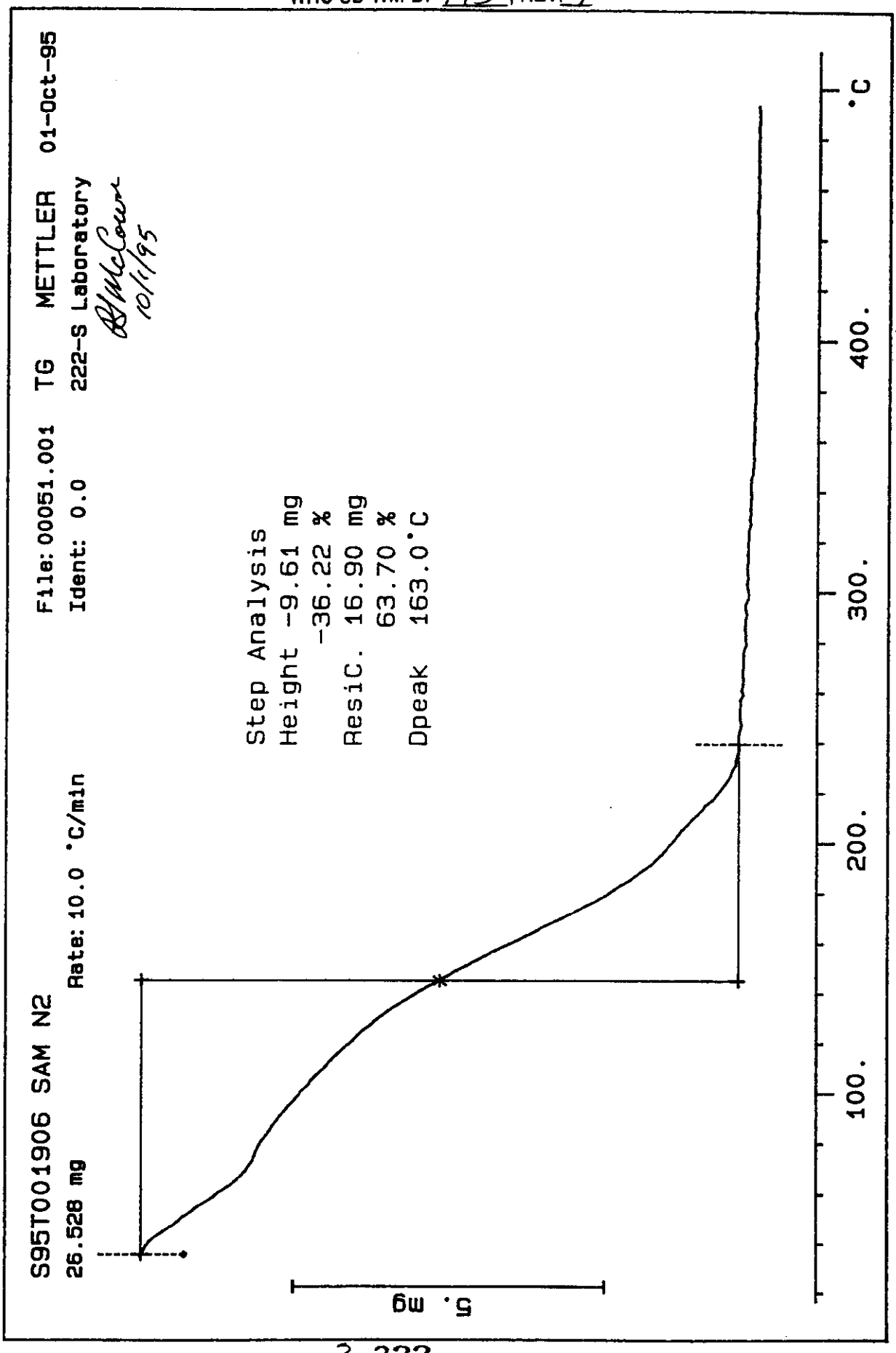

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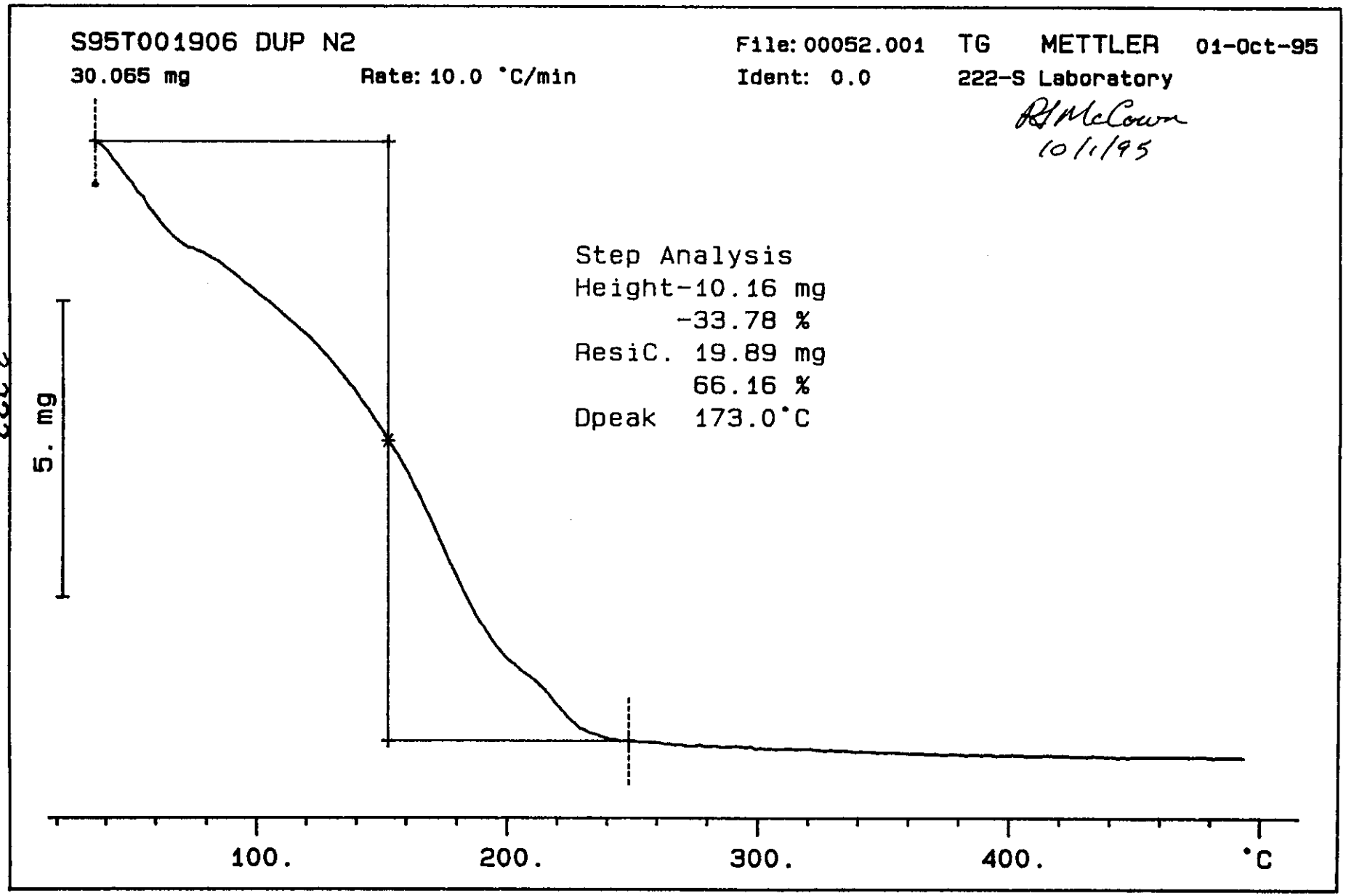

2-323

WHC-SD-WM-DP-145, REV. 1

LABCORE Data Entry Template for Worklist# 2425

Analyst: SMF **Instrument:** TGA0 1 **Book #** 65N84

Method: LA-560-112 Rev/Mod B-D

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.58	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001861	0		TGA-01	SOLID	N/A	41.30		%
95000118	BY-108 (R)	3 DUP	S95T001861	0		TGA-01	SOLID	41.30	41.77	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001862	0		TGA-01	SOLID	N/A	26.93		%
95000118	BY-108 (R)	5 DUP	S95T001862	0		TGA-01	SOLID	26.93	25.93	N/A	%

Final page for worklist # 2425

Susie M. Fulton 9-24-95 2330
Analyst Signature **Date**

Analyst Signature 9-25-95
Date

Verified by Blandina Valenzuela (9-26-95)

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-325 TO 2-329.

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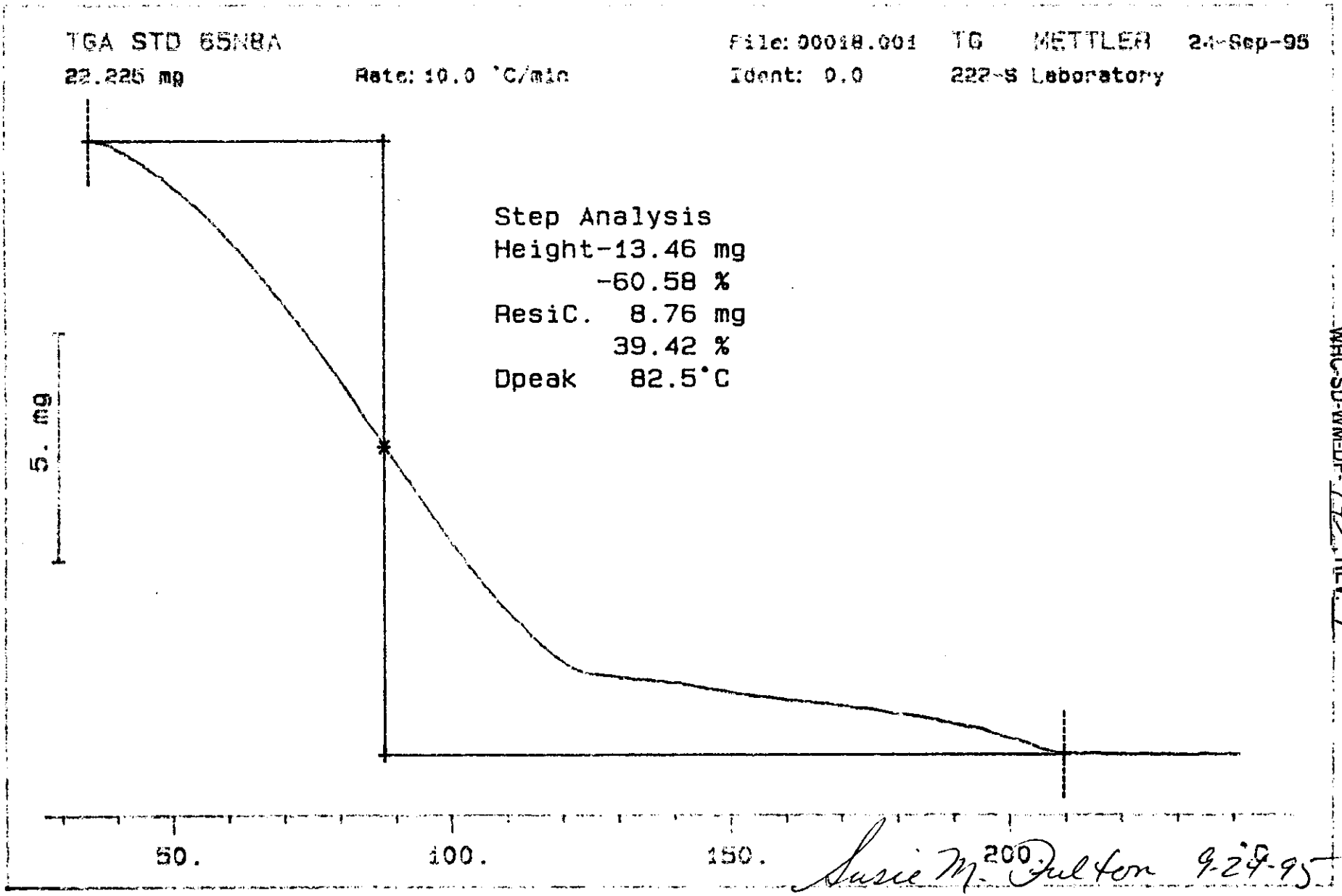
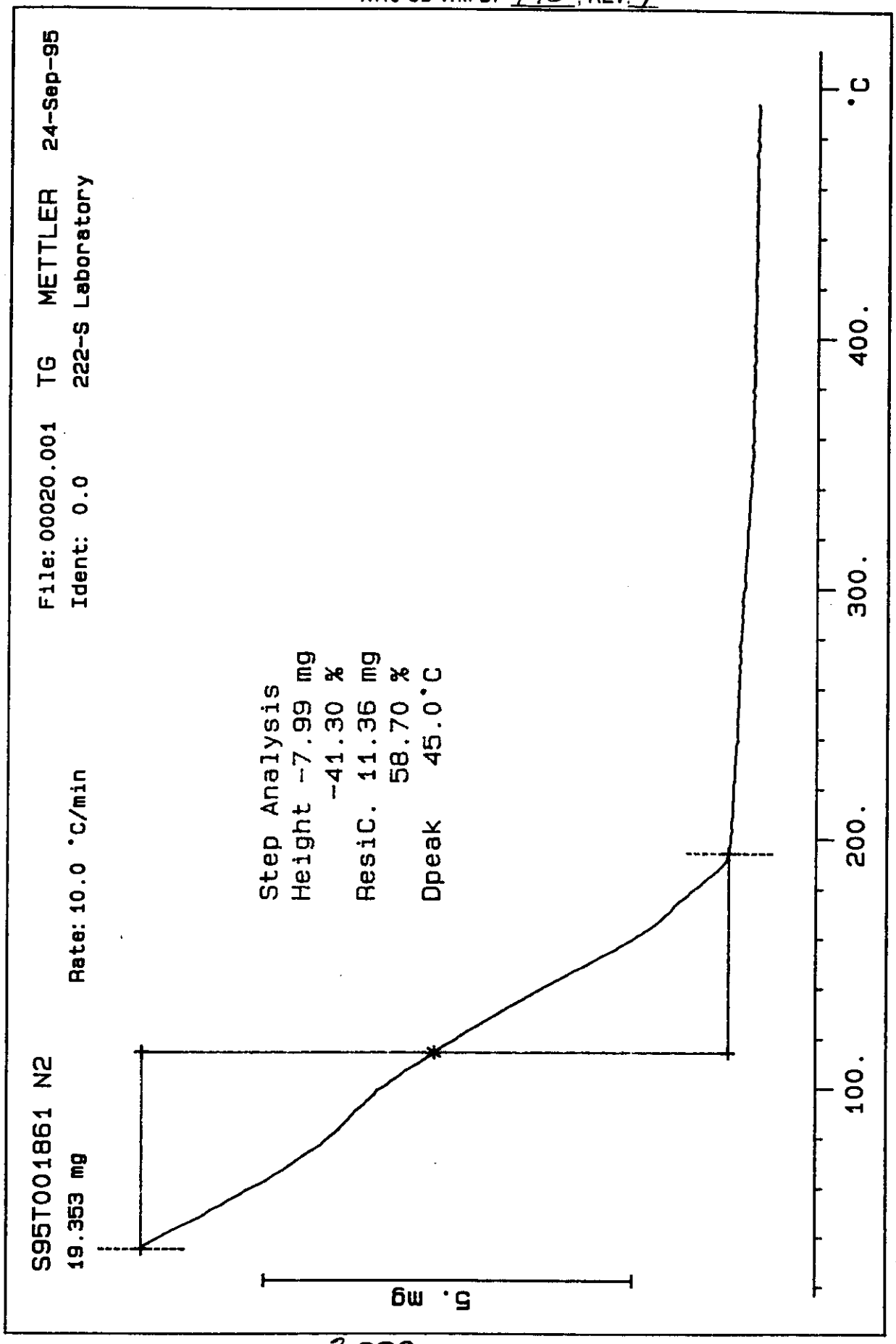
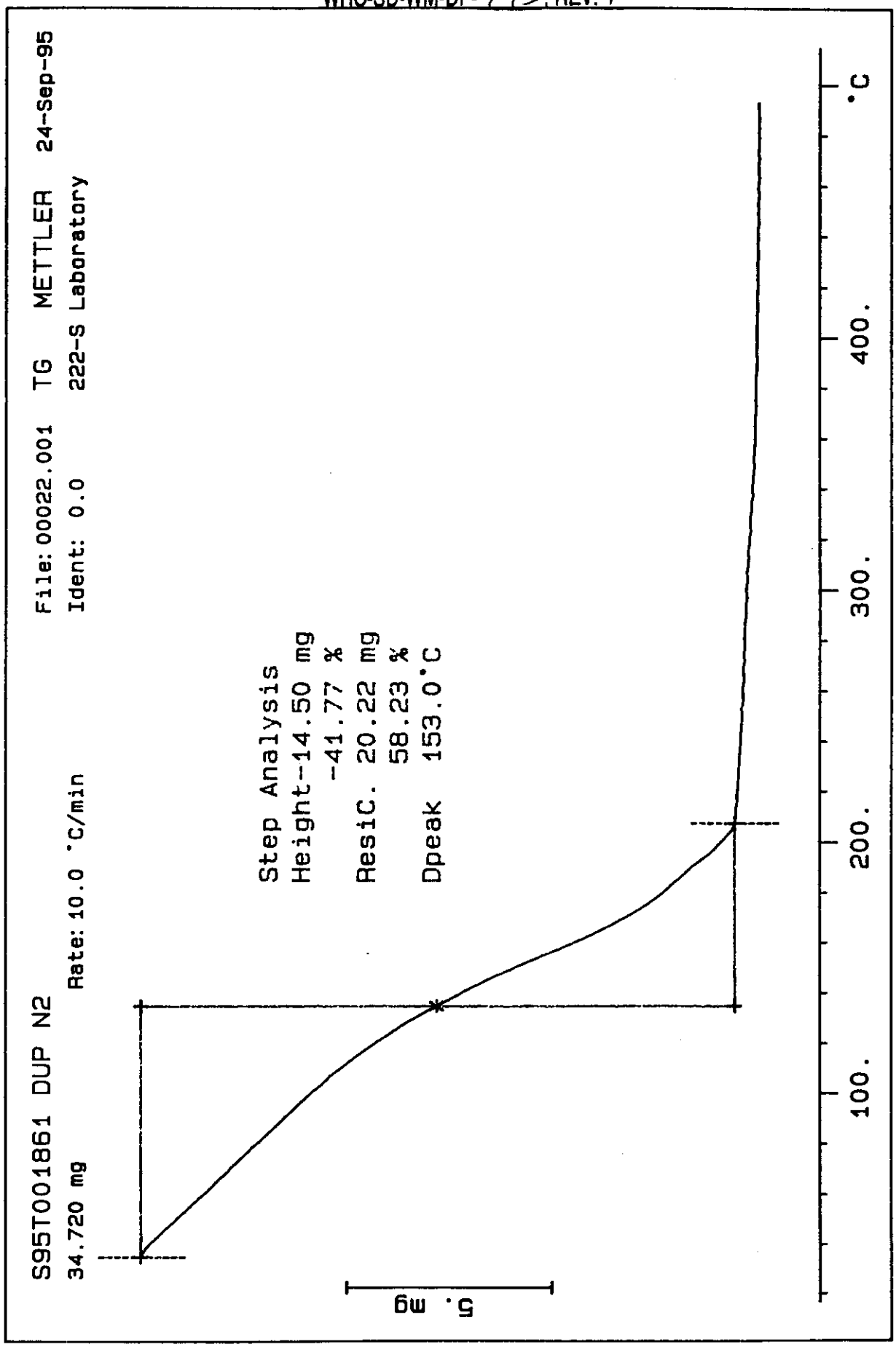
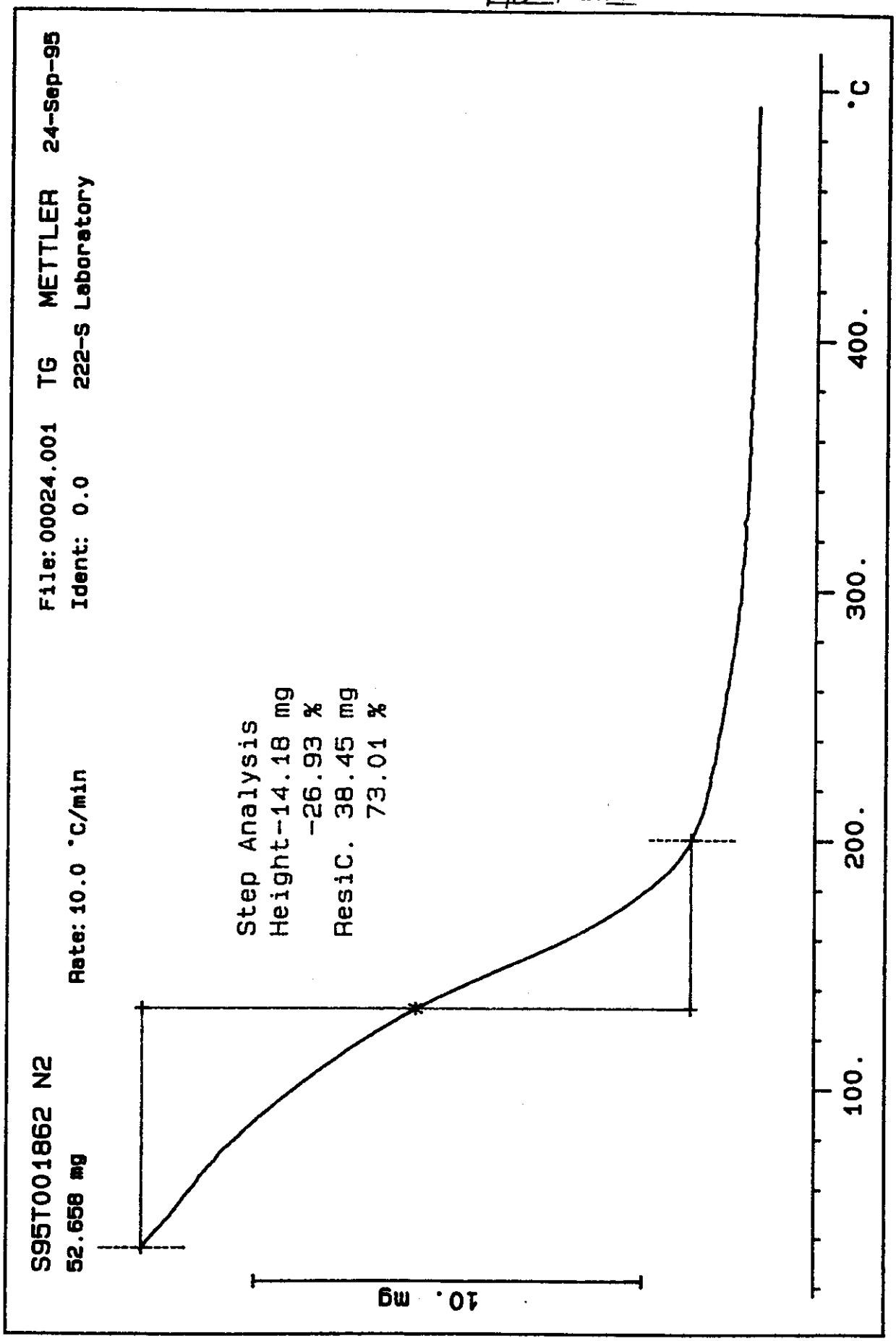
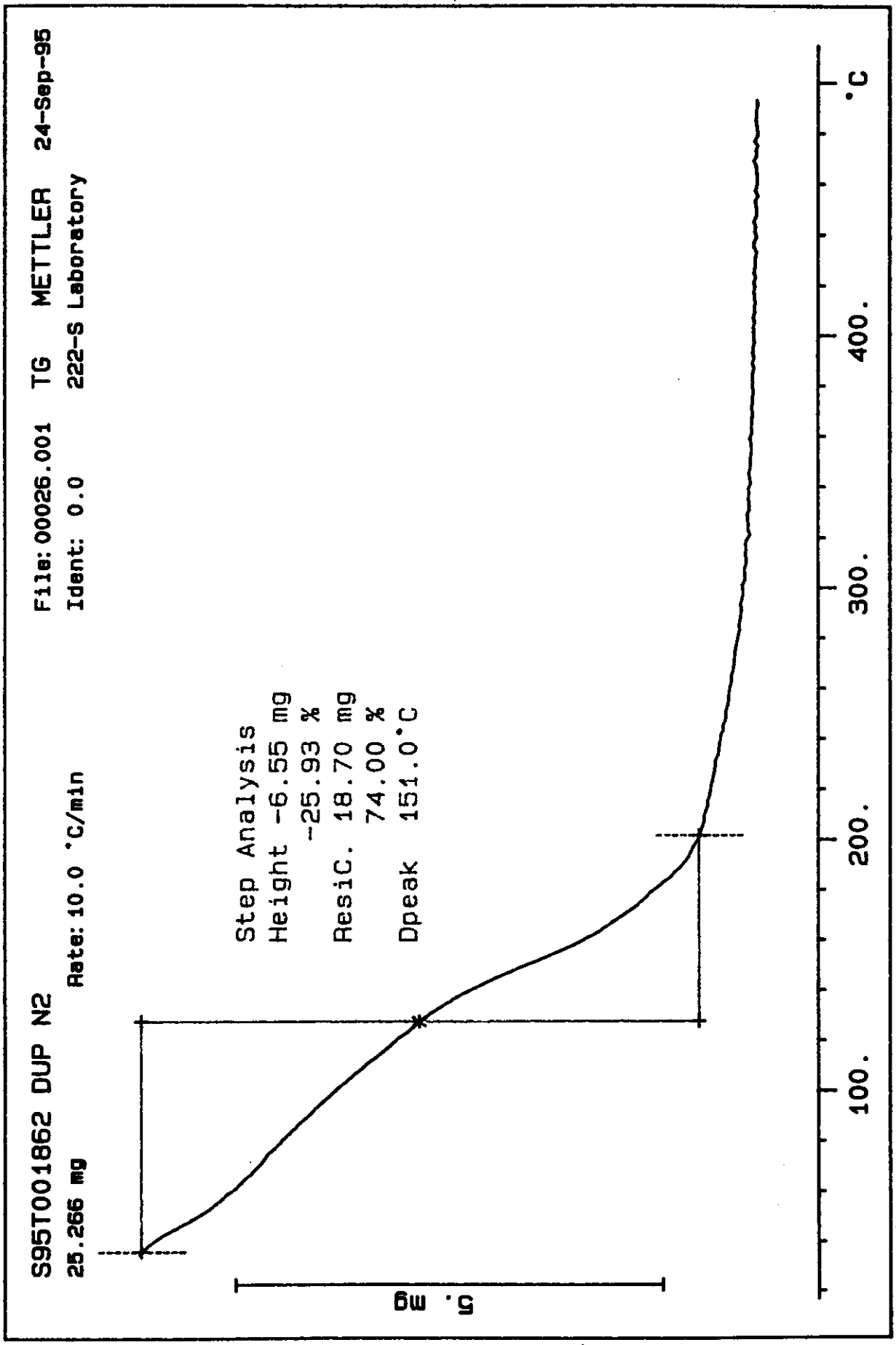


Susie M. Fulton 9-29-95


S95T001861 N2
19.353 mg
Rate: 10.0 °C/min
File: 00020.001 TG METTLER 24-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -7.99 mg
-41.30 %
ResiC. 11.36 mg
58.70 %
Dpeak 45.0°C
5. mg
100.
200.
300.
400.
°C


S95T001861 DUP N2
34.720 mg
Rate: 10.0 °C/min
File: 00022.001 TG METTLER 24-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -14.50 mg
-41.77 %
ResiC. 20.22 mg
58.23 %
Dpeak 153.0°C
5. mg
100.
200.
300.
400.
°C


S95T001862 N2
52.658 mg
Rate: 10.0 °C/min
File: 00024.001 TG METTLER 24-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height-14.18 mg
-26.93 %
ResiC. 38.45 mg
73.01 %
10. mg
100.
200.
300.
400.
°C


S95T001862 DUP N2
25.266 mg
Rate: 10.0 °C/min
File: 00026.001 TG METTLER 24-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -6.55 mg
-25.93 %
ResiC. 18.70 mg
74.00 %
Dpeak 151.0°C
5. mg
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 2426

Analyst: SMF **Instrument:** TGA0 3 **Book #** 65N8A

Method: LA-514-114 Rev/Mod C-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-03	SOLID	59.74	60.78	N/A	%
95000118	BY-108 (R)	2 SAMPLE	S95T001863	0		TGA-03	SOLID	N/A	22.2		%
95000118	BY-108 (R)	3 DUP	S95T001863	0		TGA-03	SOLID	22.2	15.6 12.81	N/A	%
95000118	BY-108 (R)	4 SAMPLE	S95T001915	0		TGA-03	SOLID	N/A 12.81	~~13.13~~ 9-25-95 BDV 13.13		%
95000118	BY-108 (R)	5 DUP	S95T001915	0		TGA-03	SOLID	~~13.13~~ 12.81	~~12.81~~ N/A	9-25-95 BDV	%

Final page for worklist # 2426

See attached for signatures
Analyst Signature Date 9-25-95 BDV

Analyst Signature Date 9-25-95

Verified by Blandina Valenzuela 9-26-95

S95T001863 produced one ~~tbt~~ 9-25-95 BDV other weight loss step of 18.09% at approximately 160°C

Data Entry Comments: S95T001915 produced one other weight loss step of 21.35% at approximately 160°C

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 2426

Analyst: SMF **Instrument:** TGA0 _____ **Book #** ~~65W80~~ 9-25-95 BDV

Method: ~~LA-560-112 Rev/Mod~~ LA-514-114/CD
SMF 9-24-95

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001863	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	3	DUP	S95T001863	0		TGA-01	SOLID			N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001915	0		TGA-01	SOLID	N/A			%
95000118	BY-108 (R)	5	DUP	S95T001915	0		TGA-01	SOLID			N/A	%

Final page for worklist # 2426

Susie M. Fulton 9-24-95
Analyst Signature **Date**
2330

_____
Analyst Signature **Date**

Other instrument was used.
9-25-95
BDV

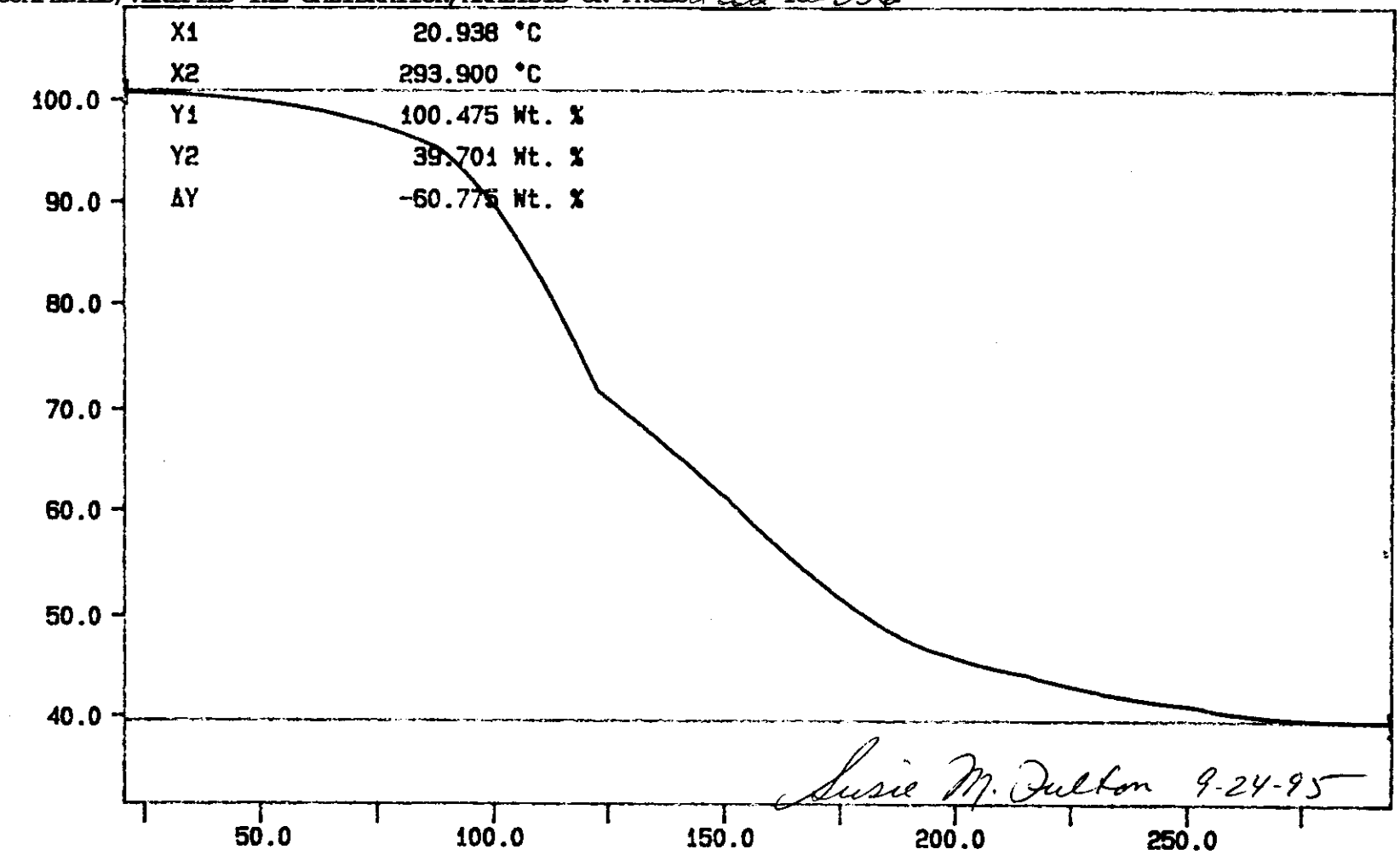
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Curve 1: TGA
File info: TER092401 Sun Sep 24 16:19:30 1995
Sample Weight: 25.017 mg
65N8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-332 TO 2-336

BEST AVAILABLE COPY



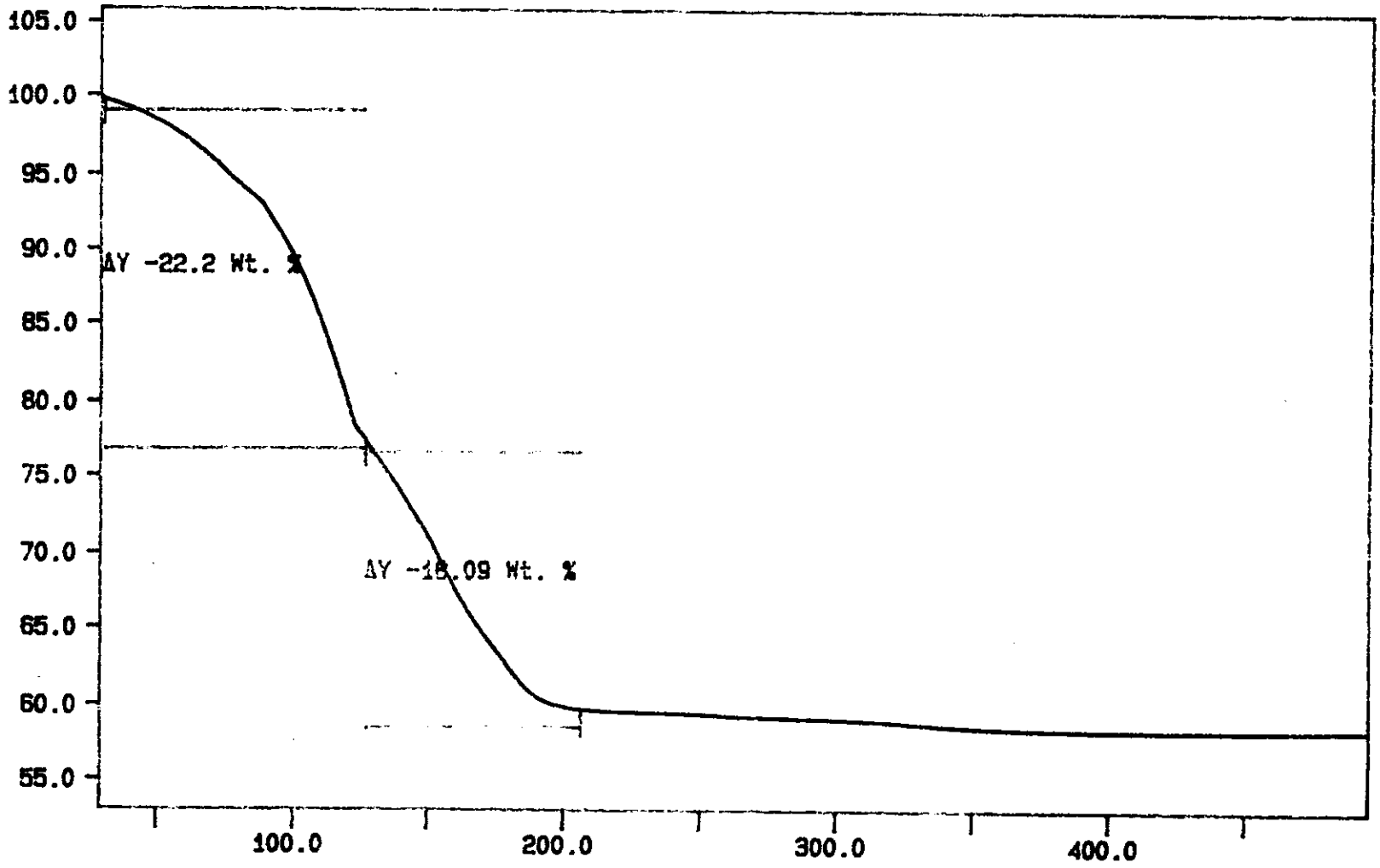
2-332

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Sep 24 16:21:10 1995

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM092401 Sun Sep 24 17:21:55 1995
Sample Weight: 15.861 mg
S95T001863, at 10C/min



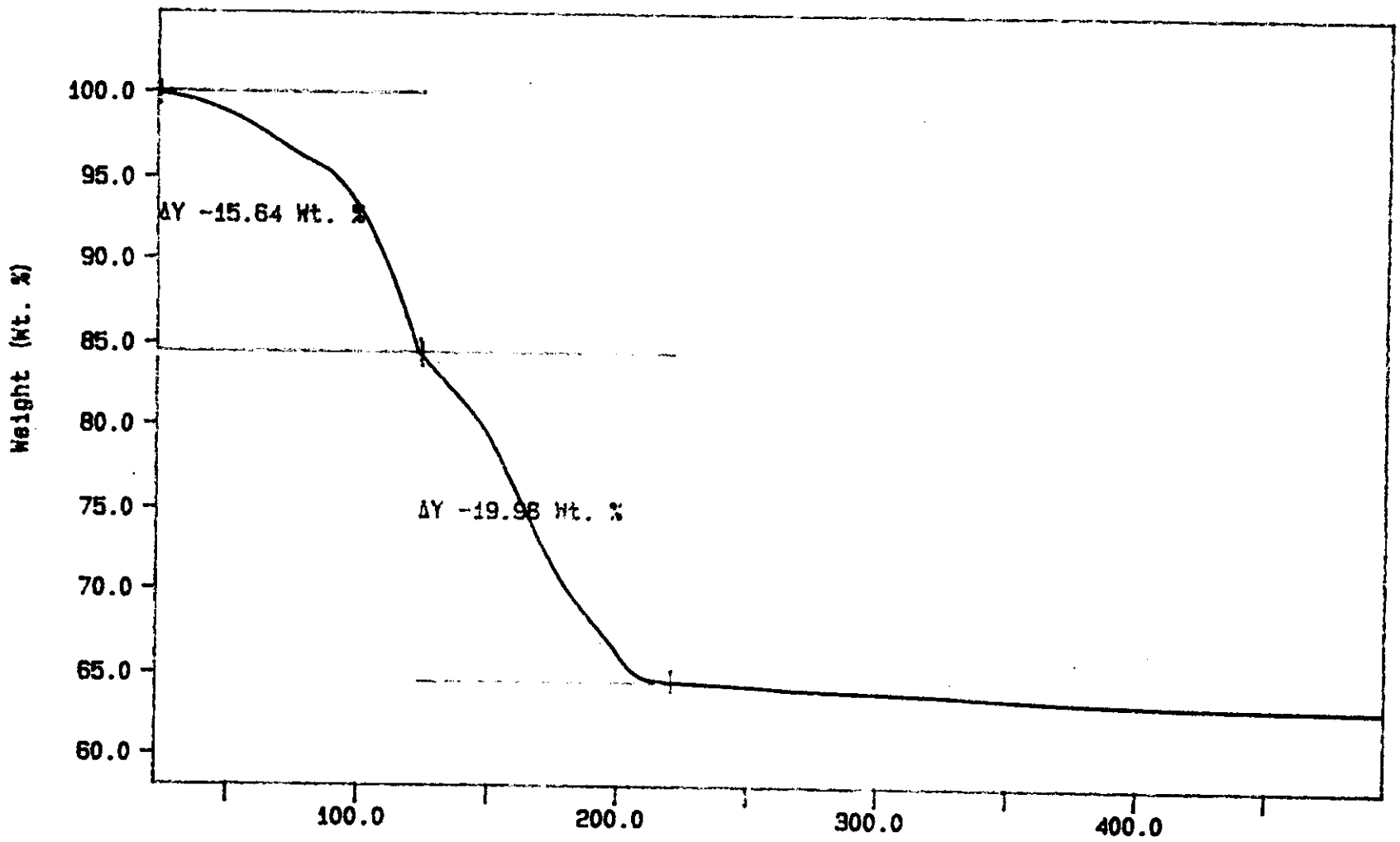
N2

TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 25 09:58:40 1995

WHC-SD-WM-DP-145, REV. 1

Curve 1: TGA
File info: SAM092402 Sun Sep 24 18:49:01 1995
Sample Weight: 21.728 mg
S95T001863 DUP, at 10C/min



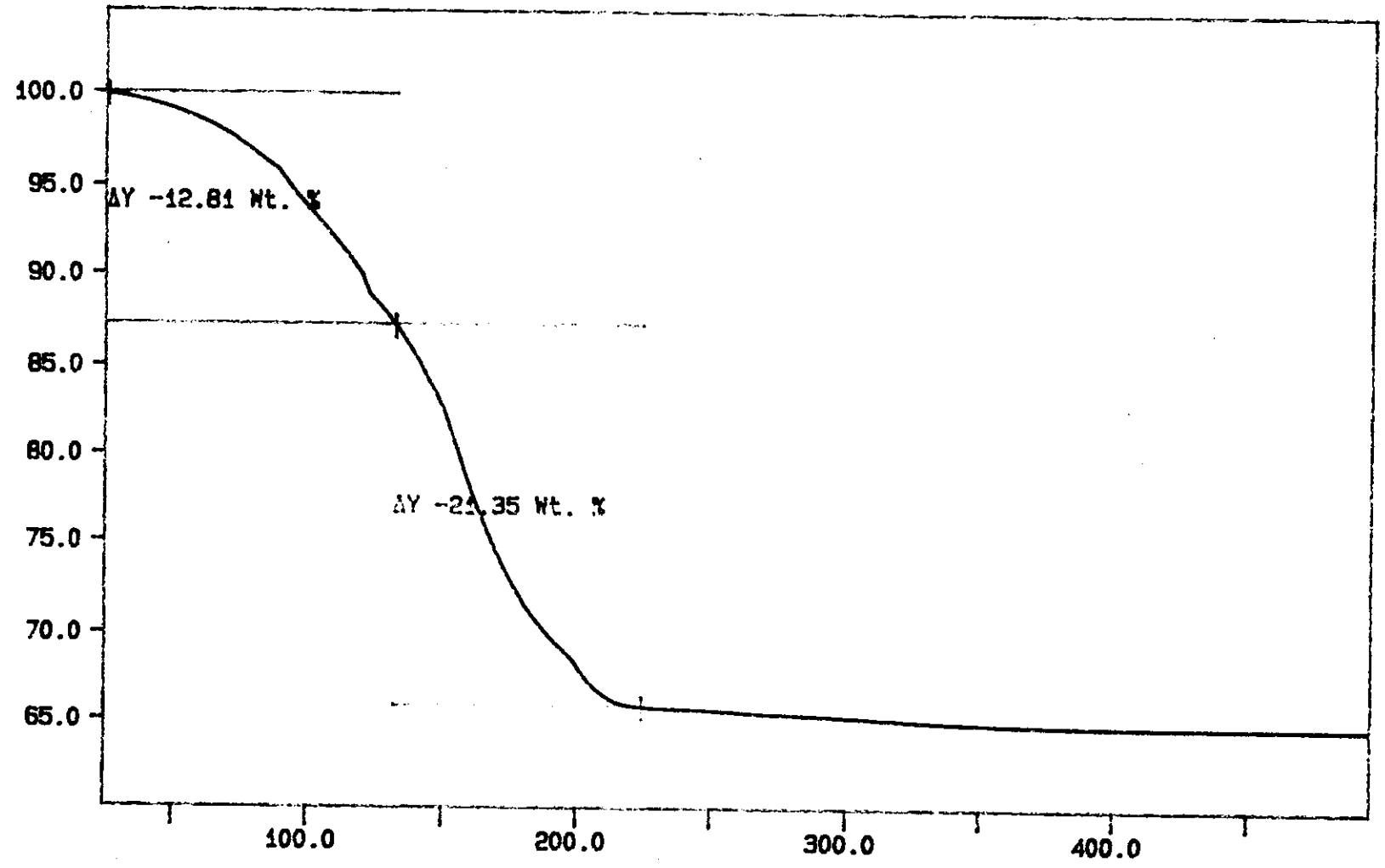
N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 25 10:03:44 1995

2-334

WHC-SD-WM-DP-145, REV. 1

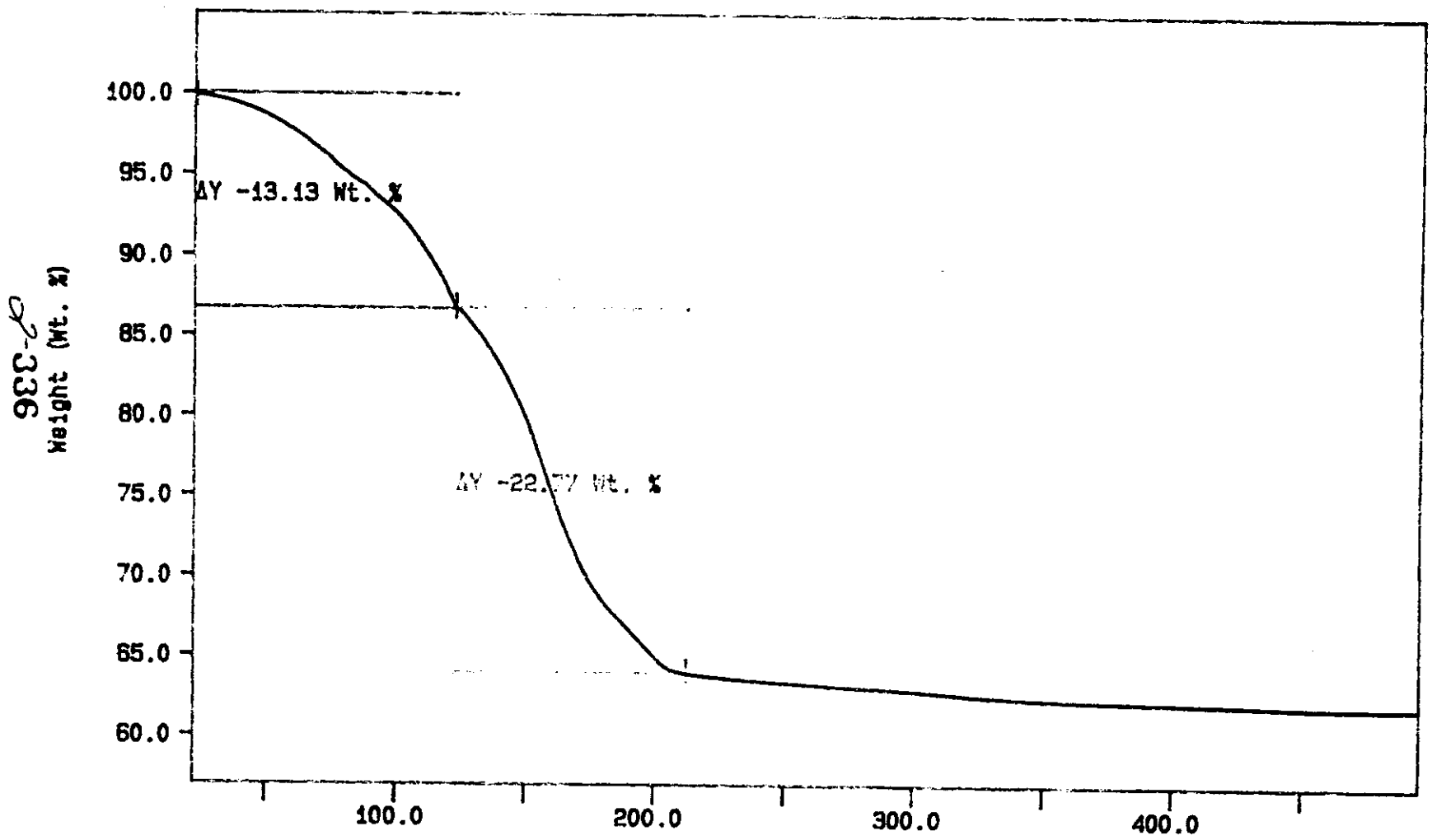
Curve 1: TGA
File info: SAM092403 Sun Sep 24 19:59:28 1995
Sample Weight: 27.899 mg
S95T001915, at 10C/min



N2
TEMP1: 30.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 25 09:42:45 1995

Curve 1: TGA
File info: SAM092404 Sun Sep 24 21:45:20 1995
Sample Weight: 19.110 mg
S95T001915 DUP. at 10C/min



N2
TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Mon Sep 25 09:48:53 1995

WHC-SD-WM-DP-145, REV. 1

336

LABCORE Data Entry Template for Worklist# 2428

Analyst: ADP **Instrument:** TGA0 1 **Book #** 65N8A

Method: LA-560-112 Rev/Mod BO

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	59.98	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001918	0		TGA-01	SOLID	N/A	29.31		%
95000118	BY-108 (R)	3	DUP	S95T001918	0		TGA-01	SOLID	29.31	35.21	N/A	%

Final page for worklist # 2428

Analyst Signature 9-19-95 Date

Analyst Signature 9-20-95 Date

Verified by Blandina Valenzuela 9-21-95

Data Entry Comments: 9/20/95 BDV

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2339 TO 2340.

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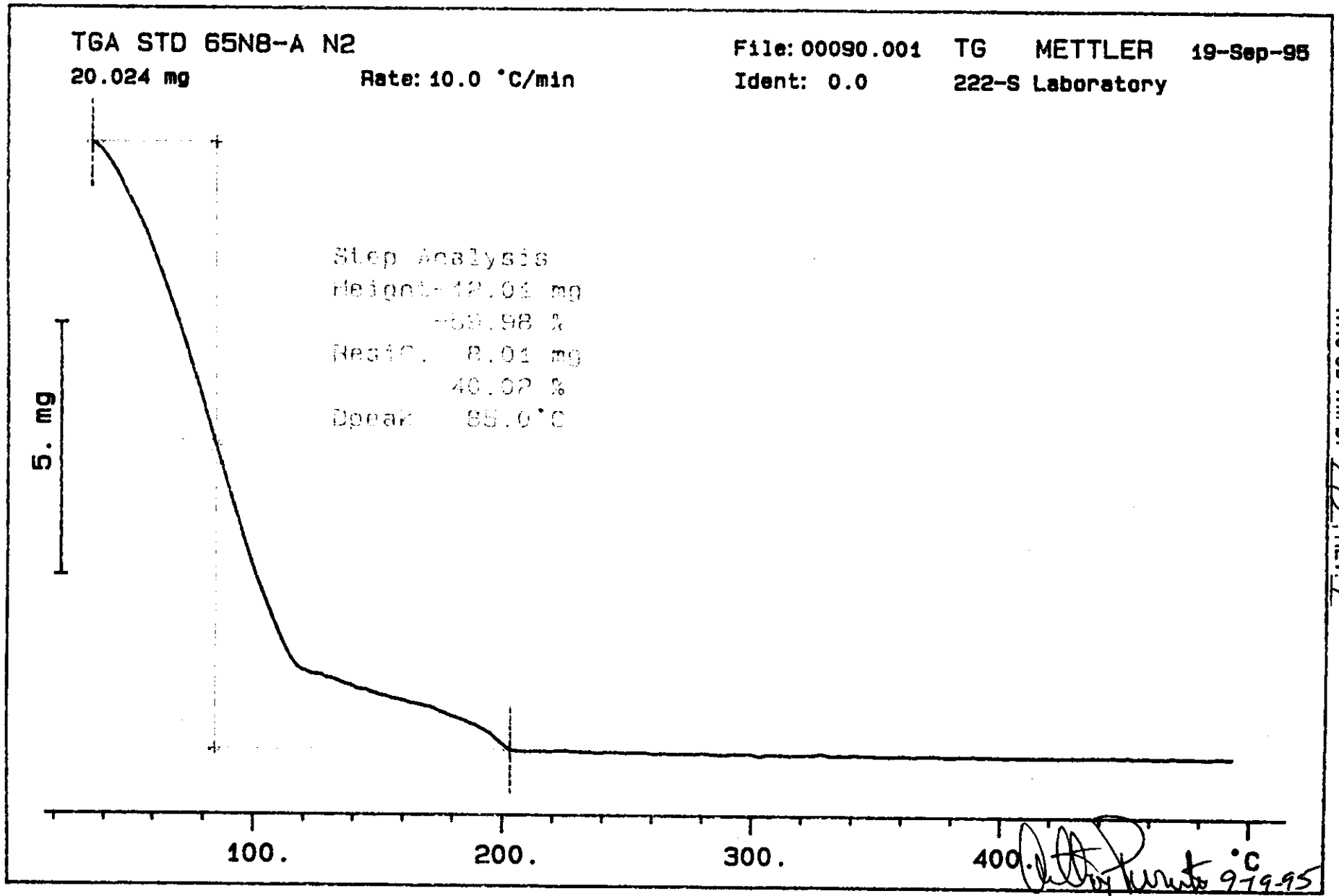

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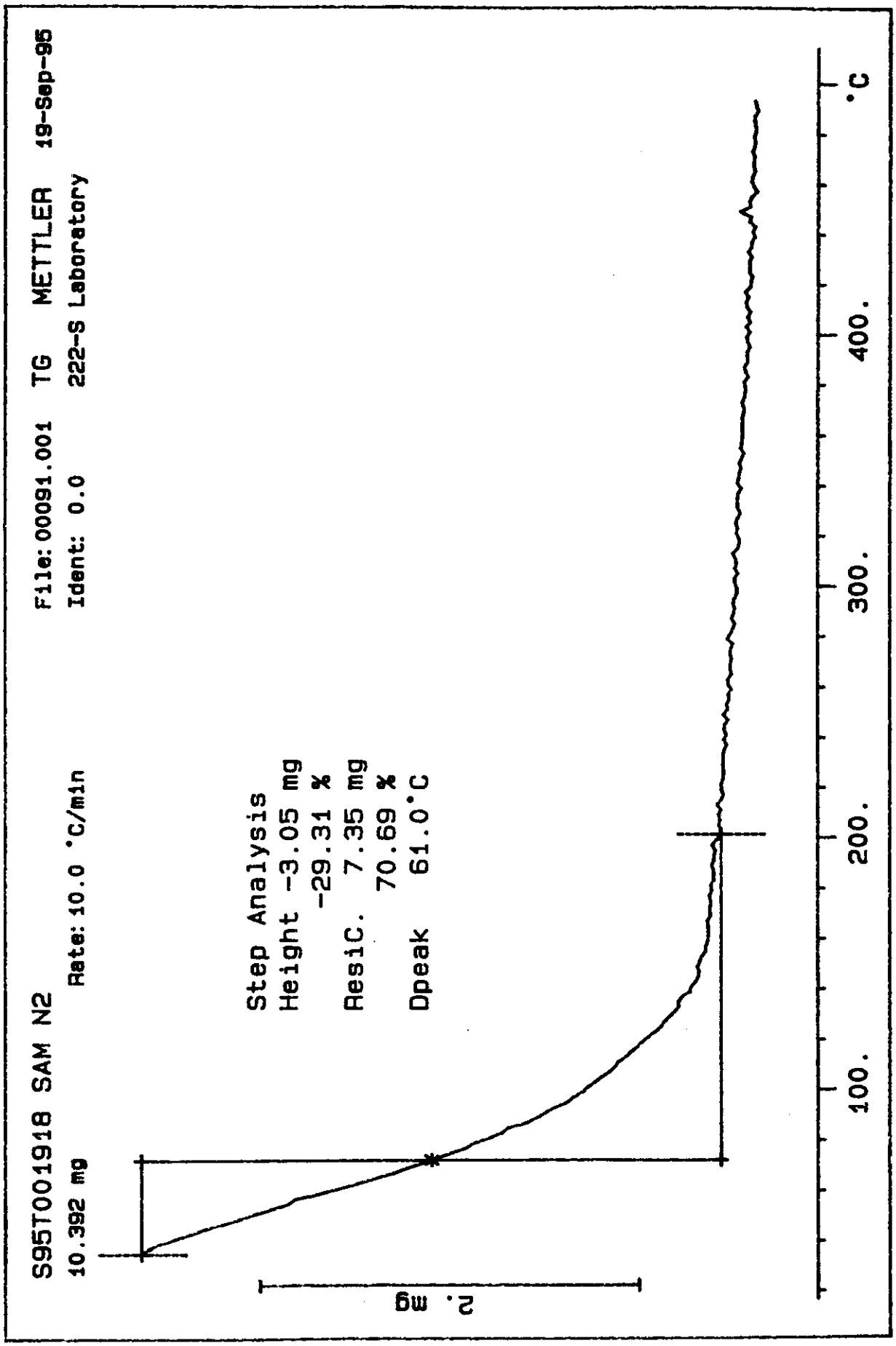
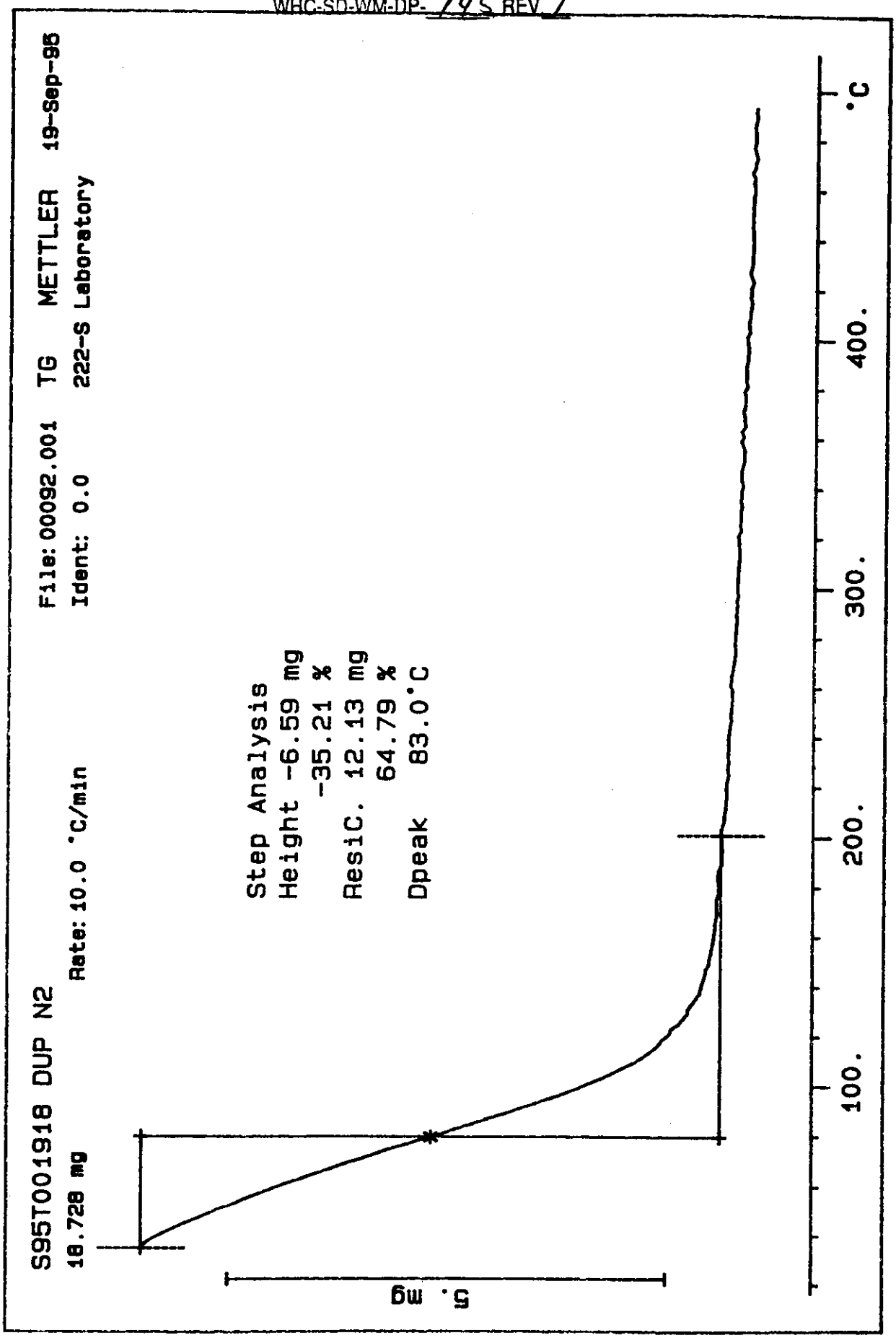
WHC-SD-WM-DP-145, REV. 1


S95T001918 SAM N2
10.392 mg
Rate: 10.0 °C/min
File: 00091.001 TG METTLER 19-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -3.05 mg
-29.31 %
ResiC. 7.35 mg
70.69 %
Dpeak 61.0°C
2. mg
100.
200.
300.
400.
°C


S95T001918 DUP N2
18.728 mg
Rate: 10.0 °C/min
File: 00092.001 TG METTLER 19-Sep-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height -6.59 mg
-35.21 %
ResiC. 12.13 mg
64.79 %
Dpeak 83.0°C
5. mg
100.
200.
300.
400.
°C

LABCORE Data Entry Template for Worklist# 2615

Analyst: RDM **Instrument:** TGA0 1 **Book #** 65N8-A

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. bdv

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.53	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001863	0		TGA-01	SOLID	N/A	32.06		%
95000118	BY-108 (R)	3	DUP	S95T001863	0		TGA-01	SOLID	32.06	35.91	N/A	%
95000118	BY-108 (R)	4	SAMPLE	S95T001916	1		TGA-01	SOLID	N/A	36.23		%
95000118	BY-108 (R)	5	DUP	S95T001916	1		TGA-01	SOLID	36.23	27.02	N/A	%

Final page for worklist # 2615

RDMyers 10/7/95
Analyst Signature **Date**

Verified by Blandina Valenzuela 10-11-95

RC Jones 10-10-95
Analyst Signature **Date**

Data Entry Comments: S95T001916 produced a second weight loss of 7.81% at 380°C.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-342 TO 2-346.

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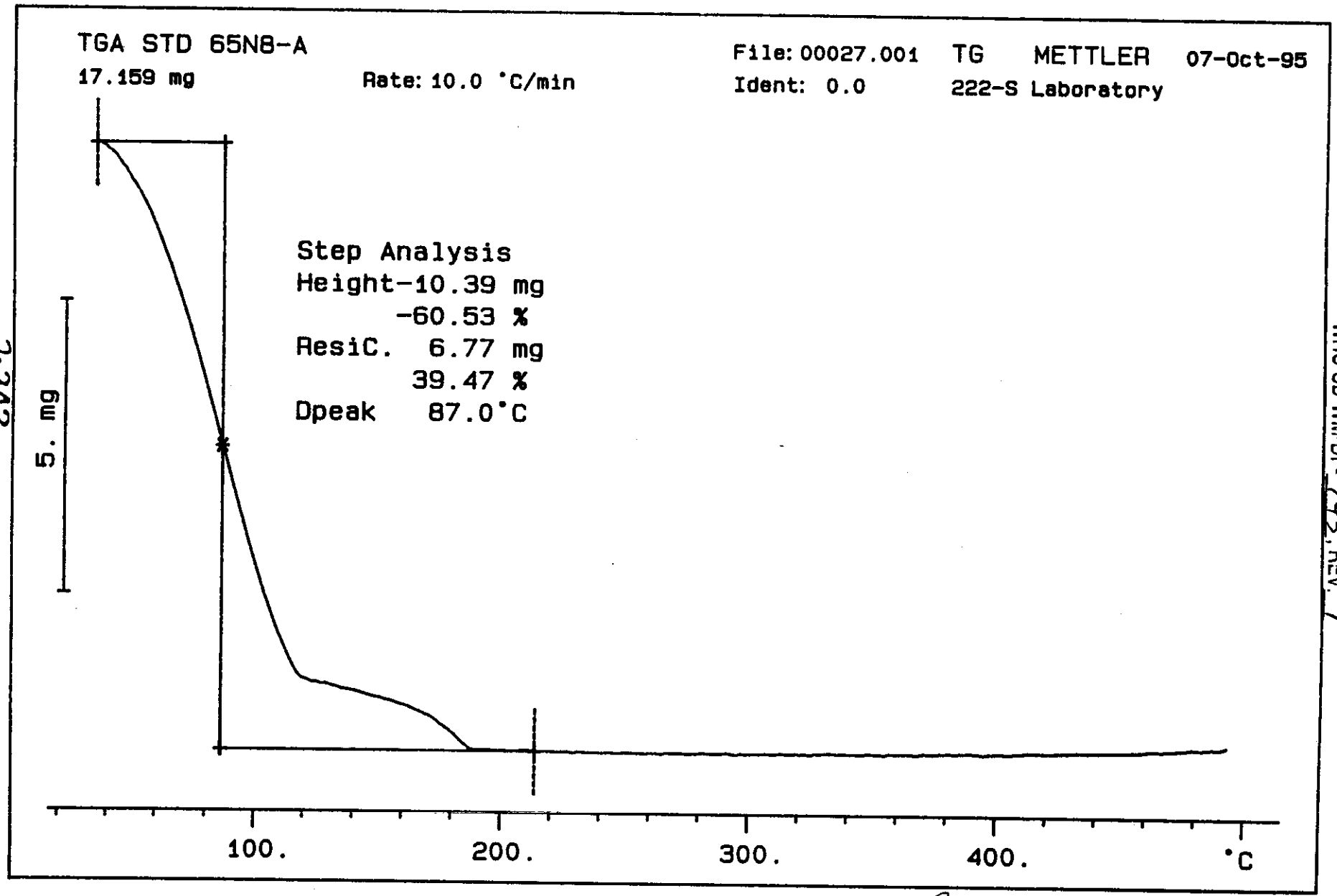

2-342

WHC-SD-WM-DP-145, REV. 1

RMMcLain 10/7/95

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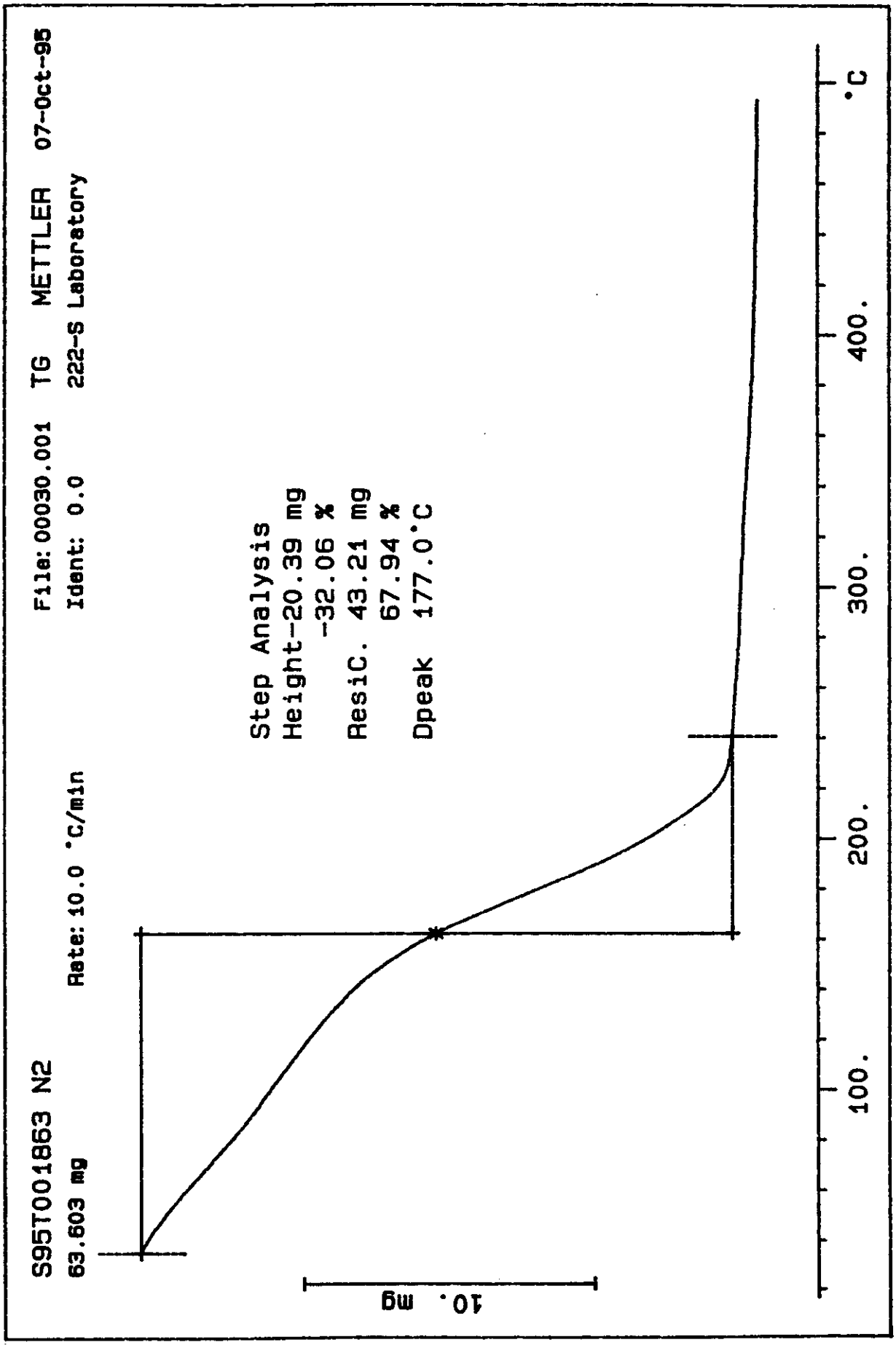
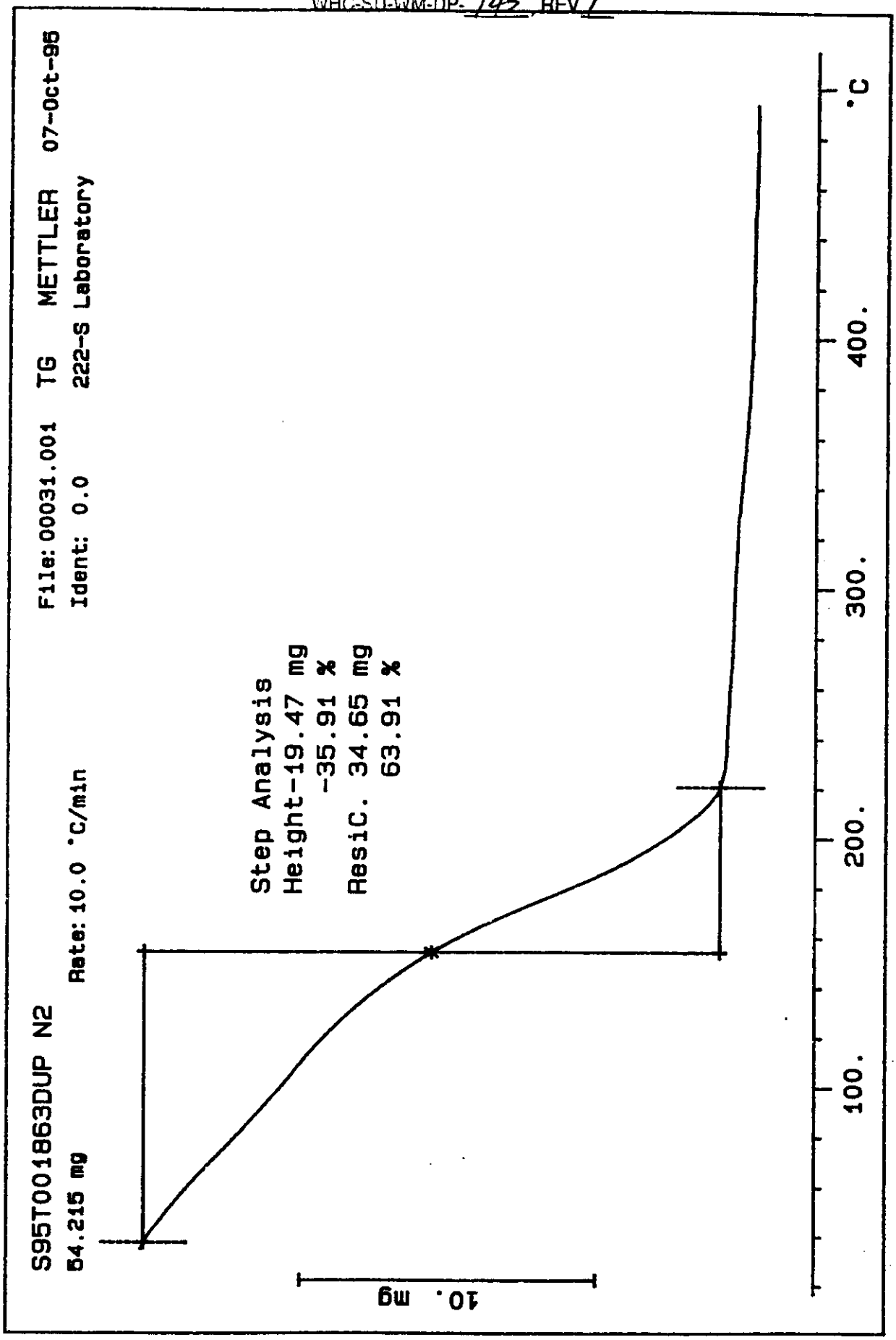
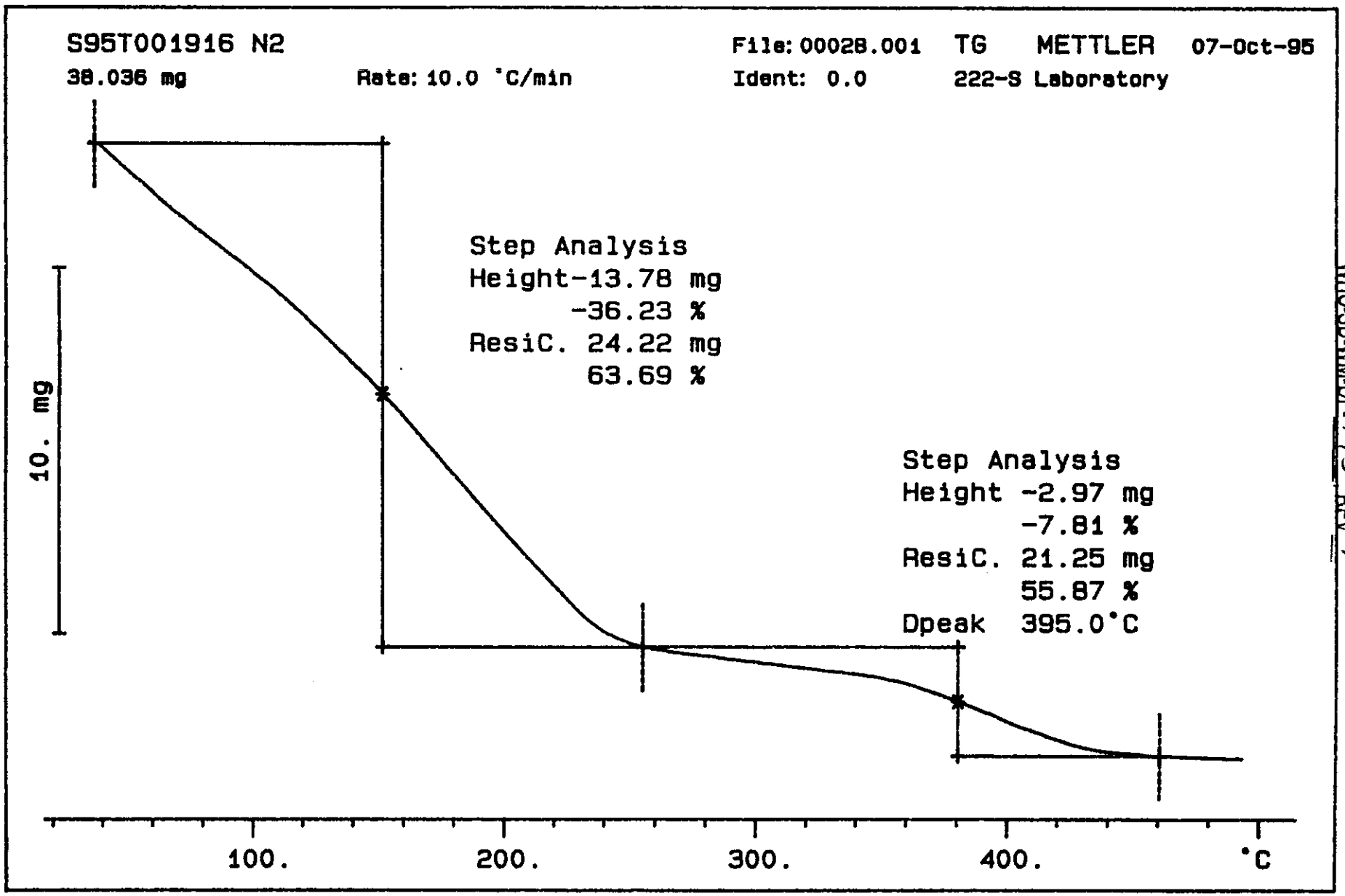



S95T001863DUP N2
54.215 mg
Rate: 10.0 °C/min
File: 00031.001 TG METTLER 07-Oct-95
Ident: 0.0 222-S Laboratory
Step Analysis
Height-19.47 mg
-35.91 %
ResiC. 34.65 mg
63.91 %
10. mg
100.
200.
300.
400.
°C

BEST AVAILABLE COPY



WHC-SD-WM-DP-145 REV 1

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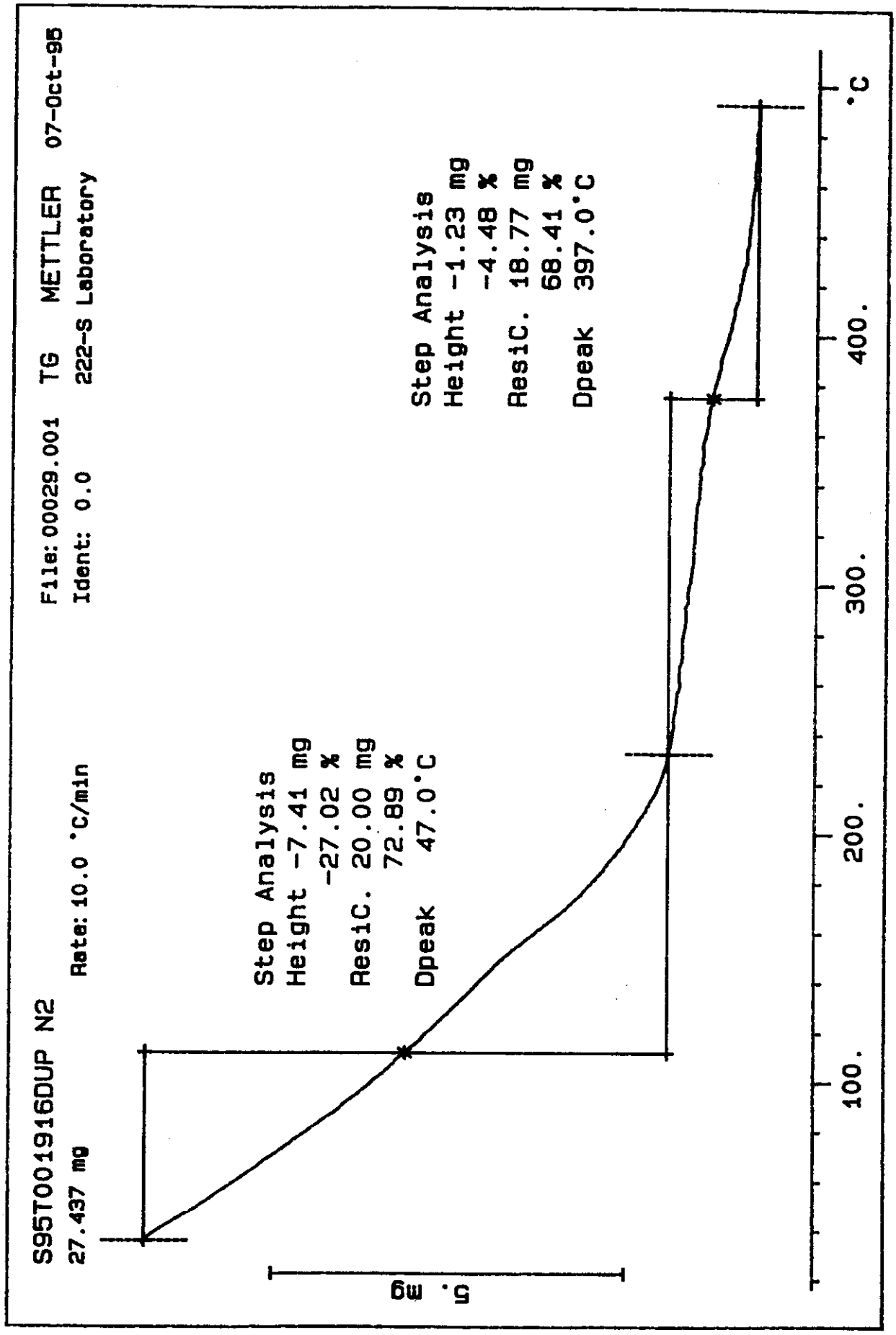

LABCORE Data Entry Template for Worklist# 2685

Analyst: RPM **Instrument:** TGA0 1 **Book #** ~~65N-6A~~ 65NB-A 9/30/95

Method: LA-560-112 Rev/Mod B-0

Worklist Comment: Please run BY-108 TGAs under N2. gjh

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.74	60.49	N/A	%
95000118	BY-108 (R)	2	SAMPLE	S95T001966	0		TGA-01	SOLID	N/A	20.84		%
95000118	BY-108 (R)	3	DUP	S95T001966	0		TGA-01	SOLID	20.84	19.25	N/A	%

Final page for worklist # 2685

RPM 9/30/95
Analyst Signature **Date**

RJ McCown 9/30/95
Analyst Signature **Date**

Verified by Blandina Valenzuela
10-4-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2348 TO 2350.

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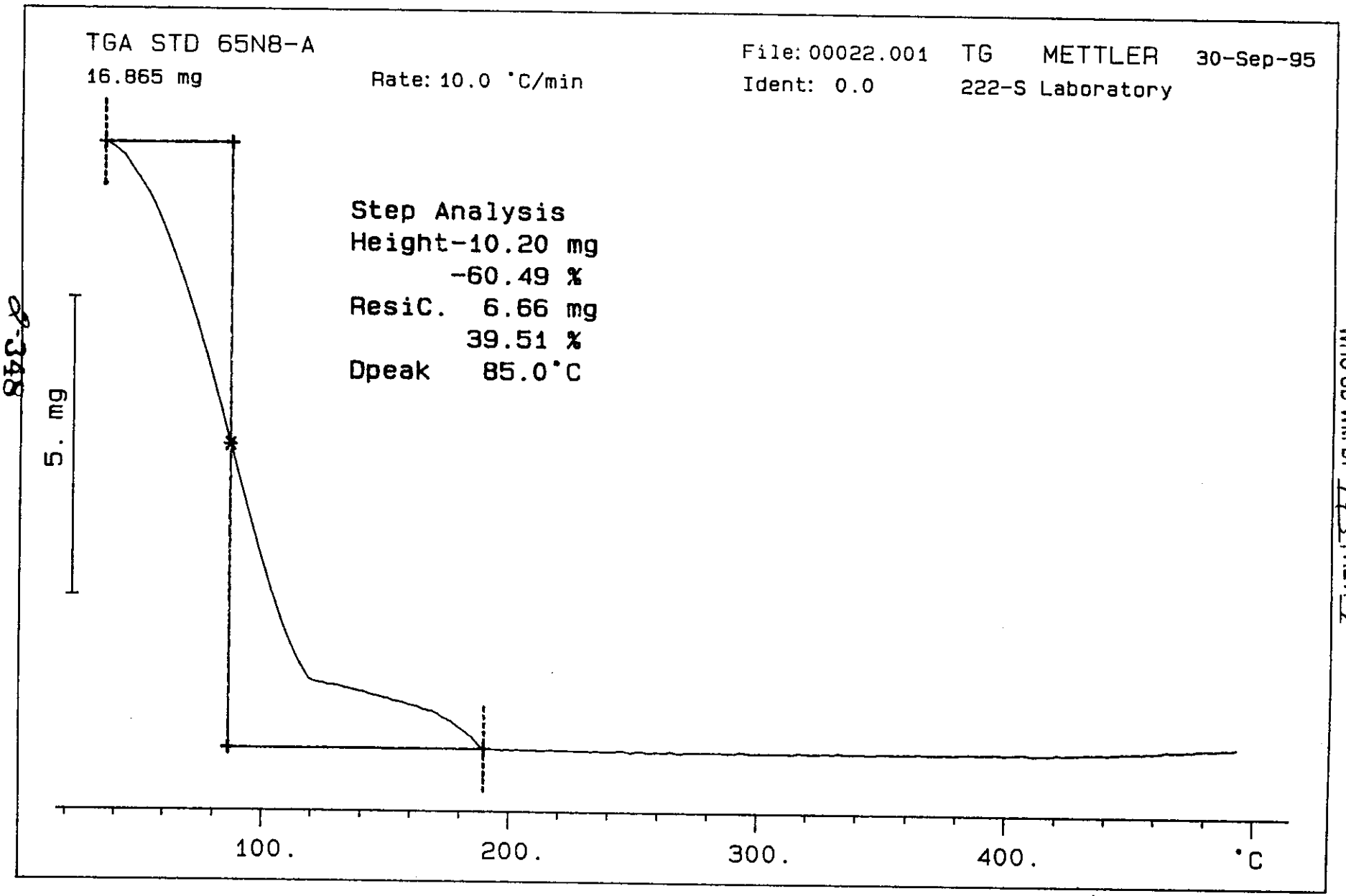

2348

WHC-SD-WM-DP-145, REV 1

R Williams 9/30/95

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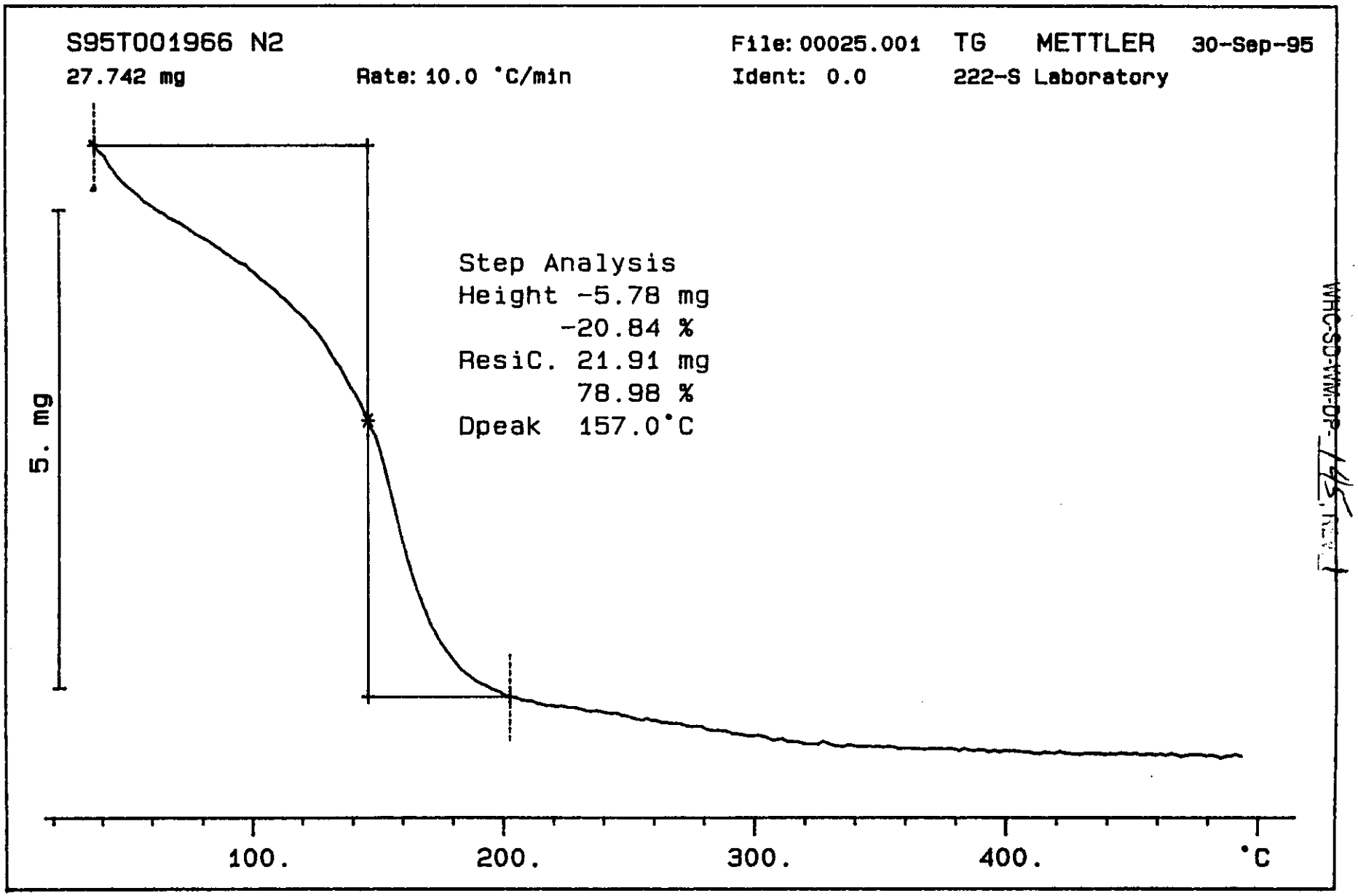

WHC-SD-WM-DP-145 Rev 1

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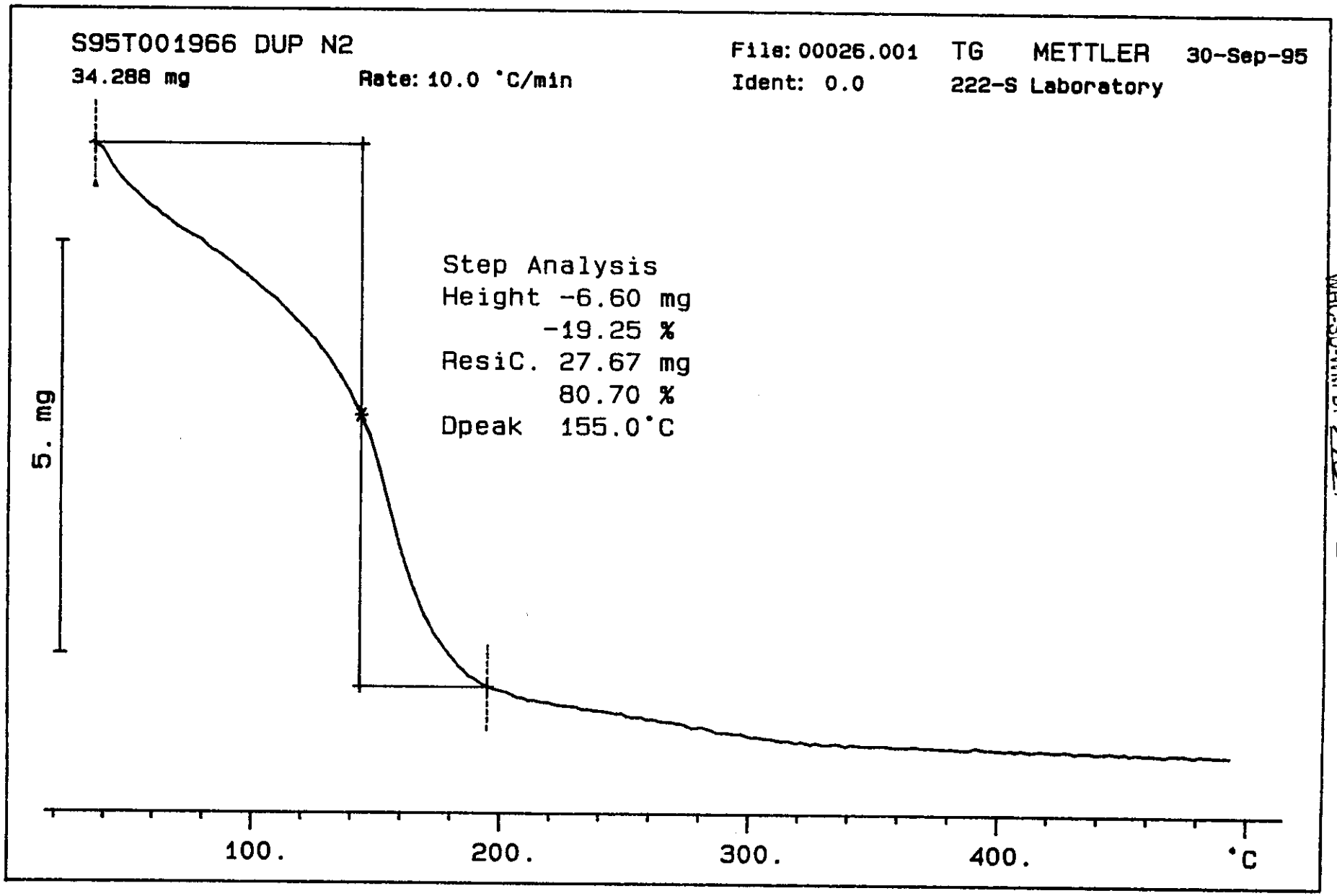

WHC-SD-WM-DP-245, REV. 1

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Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [PART III] (SEC 5 OF 12)

Pages: 303

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 5 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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PART III

WHC-SD-WM-DP-145, REV. 1

SINGLE SHELL TANK WASTE CHARACTERIZATION FOR TANK 241-BY-108 PERFORMED AND REPORTED TO WESTINGHOUSE HANFORD BY PACIFIC NORTHWEST LABORATORY

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WHC-SD-WM-DP-145, REV.1

SINGLE SHELL TANK

WASTE CHARACTERIZATION

CORE 99

Tank BY-108

Revision 1

September 29, 1995

Prepared by: KL Silvers
LR Greenwood
RT Steele
JM Tingey
MW Urie

Pacific Northwest Laboratory

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Thermal Analysis 1-7
Density 1-57

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FIGURES

DSC/TGA Scans (See Section 1.0)

PROJECT MANAGEMENT OFFICE

KL Silvers, Project Manager
TL Almeida, Quality Engineer
BM Thornton, Project Administrator
EA Nelson, Project Assistant
TL Burruss, Senior Clerk
LE Tooker, Administrative Assistant

Quality Assurance/Control

KJ Kuhl-Klinger
OP Bredt
RG Swoboda
JD Matheson

HLRF

JM Tingey
SM Heinisch
PR Bredt
DL Alexander
GM Richardson
D Rinehart
SM Tingey

SAL

RT Steele
KJ Smith
FV Hoopes
CE Chamberlin
LP Darnell
IC Henry
JK Rau

INORGANIC ANALYSIS

MW Urie
DL Baldwin
BJ Cook
PK Melethil
MM O'Neill
JJ Wagner
D Ortiz
DR Sanders

RADIOCHEMICAL ANALYSIS

LR Greenwood
SK Fadeff
RT Ratner
TL Trang-Le
KA Poeppel
KK Thomas

This Data Package contains the results obtained by the Pacific Northwest Laboratory (PNL) 325 Analytical Chemistry Laboratory (ACL) and 325 High Level Radiochemistry Facility (HLRF) staff for the characterization and analyses of Core 99 taken from Single-Shell Tank (SST) BY-108. The characterization and analysis requirements for Tank BY-108 are outlined in the "Fiscal Year 1995 Tank Waste Remediation System Tank Waste Analysis Plan," (WHC-SD-WM-PLN-091, Revision 0). Specific characterization activities are detailed in the "Tank 241-BY-108 Tank Characterization Plan," (WHC-SD-WM-TP-275, Revision 0E).

As stated in the TCP, the work performed on Tank BY-108 represents an opportunistic venture; the results are to be used to gain further information/ insight on the nature of Tank BY-108.

The Tank Characterization Plan (TCP) prescribes the analytical requirements in the form of selected methods, analytes of interest, type of preparation, quality control, reporting units and notification limits. The TCP also establishes the analytical priority and provides decision points for the analytical laboratory on whether or not to proceed with additional analysis. The decision points are communicated by "if - then" type criteria. These decision points are administered as follows. If an analytical measurement exceeds a set notification threshold, then the lab proceeds with the additional analyses. This approach, although an effective means of eliminating analytical delays, requires that analyses be performed in series, thus requiring a defined amount of time. In the case of Tank BY-108 sample analyses, 35 calendar days were allotted to complete the entire scope of work. This relatively short analytical window precluded the effective utilization of the "if - then" decision strategy. As a result, a number of managerial decisions were made in the planning stage to perform additional analyses in advance of exceeding notification limits.

In Table C-4 of the TCP the analytes of interest were not identified for ion chromatography (IC) or inductively coupled plasma (ICP). For these

methods, the data quality objectives documents were reviewed and analytes of interest identified. The analytes of interest for the IC include nitrate, nitrite, sulfate and phosphate. The analytes of interest identified for the ICP were iron, aluminum, manganese, nickel, bismuth and sodium. These analytes of interest were evaluated against precision and accuracy requirements in the TCP. Two QC approaches were utilized to acquire the accuracy information; serial dilutions were used when the analyte concentration was expected to be high and matrix spikes were used when the analyte concentration was expected to be relatively low or unknown. Although the analytes of interest were the primary focus of each analysis, additional analytes/results were available and are provided for informational purposes.

Specific analyses for each segment and quarter segment taken from Core 99 are described in Test Instructions prepared by the PNL Project Manager in accordance with administrative procedures contained in the Analytical Chemistry Laboratory Procedure Compendium (PNL-MA-599).

Core 99 contained four segments. Each segment was extruded and sub-sampled into segments and quarter segments at the WHC 222-S Laboratory. The PNL HLRF received the last shipment of BY-108 segments on August 25, 1995. All of the samples were received without chain-of-custody documentation. During the extrusion and sub-sampling of each segment at 222-S, a separate aliquot of sample was removed for thermogravimetric analysis. These aliquots were placed in separate uniquely identified containers and shipped with the remaining sample material. All extruded sample material from Core 99 Segments 1 through 3 were transferred to PNL. Segment 4 was further subsampled and approximately 30 g of each quarter segment was shipped to PNL for analyses. The number of sample containers received, the approximate sample weights and volumes are as follows for Core 99, Segments 1-4. Segment 1 consisted of two sample containers of solids with a combined weight of 56 g. Segment 2 consisted of four sample containers, three had solids with a combined weight of 37 g while one had 230 mL of drainable liquid. Segment 3 consisted of three sample containers, two had solids with a combined weight of 22 g while one had 25 mL of drainable liquid. Segment 4 consisted of eight sample containers of solids with a combined weight of 118 g. Table 1-1 provides a

with a combined weight of 118 g. Table 1-1 provides a more detailed breakdown of sample identification and approximate sample volumes received from WHC.

All Core 99 sample material was homogenized prior to analysis. Segment 1 and Quarter Segment 4B were homogenized and sub-sampled from the top and bottom. Each sub-sample was analyzed in duplicate by ICP and GEA to test the homogenization methodology. The results of the homogenization test are presented in Table 1-2. The small volume of solid sample material received for each quarter segment made it difficult to thoroughly homogenize the samples. The relatively non-homogenous sample material, in conjunction with the small quantities of sample used in the preparations, increased the likelihood of having high relative percent differences (RPDs) between samples and associated duplicates. In some instances, the TCP precision requirement of 90-110% could not be met.

The ACL sample numbers assigned to the segment and quarter segment samples and the associated analyses are listed in Tables I-1 through I-4. The data within this package are divided into three groups: Physical Testing, Inorganic Analysis and Radiochemical Analysis. All chemical analysis data are reported on a wet-weight basis. That is, no corrections have been made for the water content in the samples. The analytical results for the drainable liquids were converted to a g/mL basis using a density of 1.43 g/mL. The density was calculated during the sample preparation (i.e., water leach). All required sample preparations were performed in duplicate. The quality control (QC) requirements for each sample are defined in the Test Instructions. Samples were prepared and analyzed as batches where feasible. A minimum number of QC samples were analyzed in each batch and all QC data are included in this data package.

In several instances, the precision and accuracy identified in the TCP could not be met. This fact is clearly identified and discussed in the following sections. The limited quantity and complex nature of the material tested and the small quantities taken for preparation negatively impact the laboratory's ability to meet the TCP criteria. The TCP criteria appears to be unattainable with any consistency for this matrix.

Table I-1: Tank BY-108, Core 99, Segment 1

Analysis	Segment 1 Unhomogenized	Segment 1	
TGA	95-07931		Run in Duplicate
Water Leach		95-07941-C1	Water Leach Sample (IC)
		95-07941-C2	Water Leach Duplicate
		95-07941-C3	Methods Blank (one per batch)
		95-07941-C4	Spike (IC Only) (one per batch)
		95-07941-C5	Blank Spike (IC Only) (one per batch)
Direct		95-07941-D1	DSC & Density Sample
		95-07941-D2	DSC & Density Duplicate
		95-07941-D3	Methods Blank (one per batch)
Total Cyanide		95-07941-G1	Total CN Sample
		95-07941-G2	Total CN Duplicate
		95-07941-G3	Methods Blank (one per batch)
		95-07941-G4	Matrix Spike (one per batch)
		95-07941-G5	Blank Spike (one per batch)
Homogenization Test Fusion Dissolution KOH		95-07941-H1T	Homogenization Test Fusion Sample - Top *
		95-07941-H2T	Homogenization Test Fusion Duplicate - Top
		95-07941-HCB	Homogenization Test Fusion Blank
		95-07941-H1B	Homogenization Test Fusion Sample - Bottom
		95-07941-H2B	Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH		95-07941-H1	KOH Fusion Sample (ICP, Radchem**)
		95-07941-H2	KOH Fusion Duplicate
		95-07941-H3	Methods Blank (one per batch)
		95-07941-H5	Post Digestion Blank Spike (ICP only)
		95-07941-H6	Post Digestion Spike (ICP Only)
Carbon		95-07941-J1	Carbon Analysis Sample (TIC/TOC/TC)
		95-07941-J2	Carbon Analysis Duplicate
		95-07941-J3	Methods Blank (one per batch)
		95-07941-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2		95-07941-N1	Na2O2 Fusion Sample (ICP)
		95-07941-N2	Na2O2 Fusion Duplicate (one per batch)
		95-07941-N3	Methods Blank (one per batch)
		95-07941-N5	Post Digestion Blank Spike (ICP only)
		95-07941-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA

** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

Table I-2: Tank BY-108, Core 99, Segment 2

Analysis	Segment 2 Drainable Liquid	Quarter Segment 2A Unhomogenized	Quarter Segment 2D Unhomogenized	Quarter Segment 2A	Quarter Segment 2D	Run In Duplicate
TGA	95-07932	95-07933	95-07934			
Acid Digestion	95-07932-A1					Acid Digestion Sample (ICP, Radchem *)
	95-07932-A2					Acid Digestion Duplicate
	95-07932-A3					Methods Blank (one per batch)
	95-07932-A4					Matrix Spike (one per batch)
	95-07932-A5					Blank Spike (one per batch)
Water Leach	95-07932-C1			95-07942-C1	95-07943-C1	Water Leach Sample **
	95-07932-C2			95-07942-C2	95-07943-C2	Water Leach Duplicate
	95-07932-C3			95-07942-C3	95-07943-C3	Methods Blank (one per batch)
	95-07932-C4			95-07942-C4	95-07943-C4	Spike (IC Only) (one per batch)
	95-07932-C5			95-07942-C5	95-07943-C5	Blank Spike (IC Only) (one per batch)
Direct	95-07932-D1			95-07942-D1	95-07943-D1	Direct Sample ***
	95-07932-D2			95-07942-D2	95-07943-D2	Direct Duplicate
	95-07932-D3			95-07942-D3	95-07943-D3	Methods Blank (one per batch)
Total Cyanide	95-07932-G1			95-07942-G1	95-07943-G1	Total CN Sample
	95-07932-G2			95-07942-G2	95-07943-G2	Total CN Duplicate
	95-07932-G3			95-07942-G3	95-07943-G3	Methods Blank (one per batch)
	95-07932-G4			95-07942-G4	95-07943-G4	Matrix Spike (one per batch)
	95-07932-G5			95-07942-G5	95-07943-G5	Blank Spike (one per batch)
Fusion Dissolution KOH				95-07942-H1	95-07943-H1	KOH Fusion Sample (ICP, Radchem****)
				95-07942-H2	95-07943-H2	KOH Fusion Duplicate
				95-07942-H3	95-07943-H3	Methods Blank (one per batch)
				95-07942-H5	95-07943-H5	Post Digestion Blank Spike (ICP only)
				95-07942-H6	95-07943-H6	Post Digestion Spike (ICP Only)
Carbon	95-07932-J1			95-07942-J1	95-07943-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07932-J2			95-07942-J2	95-07943-J2	Carbon Analysis Duplicate
	95-07932-J3			95-07942-J3	95-07943-J3	Methods Blank (one per batch)
	95-07932-J4			95-07942-J4	95-07943-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2				95-07942-N1	95-07943-N1	Na2O2 Fusion Sample (ICP)
				95-07942-N2	95-07943-N2	Na2O2 Fusion Duplicate (one per batch)
				95-07942-N3	95-07943-N3	Methods Blank (one per batch)
				95-07942-N5	95-07943-N5	Post Digestion Blank Spike (ICP only)
				95-07942-N6	95-07943-N6	Post Digestion Spike

* Acid Digestion Radchem: Total Alpha, Total Beta, GEA
** Water Leach: IC on Drainable Liquid and Quarter Segments
*** Direct Sample: DSC on Drainable Liquid, DSC and Density on Quarter Segments
**** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U

Table I-3: Tank BY-108, Core 99, Segment 3

Analysis	Segment 3 Drainable Liquid	Quarter Segment 3A Unhomogenized	Quarter Segment 3A	
TGA	95-07935	95-07936		Run in Duplicate
Acid Digestion	95-07935-A1			Acid Digestion Sample (ICP, Radchem *)
	95-07935-A2			Acid Digestion Duplicate
	95-07935-A3			Methods Blank (one per batch)
	95-07935-A4			Spike (one per batch)
	95-07935-A5			Blank Spike (one per batch)
Water Leach	95-07935-C1		95-07944-C1	Water Leach Sample **
	95-07935-C2		95-07944-C2	Water Leach Duplicate
	95-07935-C3		95-07944-C3	Methods Blank (one per batch)
	95-07935-C4		95-07944-C4	Spike (IC Only) (one per batch)
	95-07935-C5		95-07944-C5	Blank Spike (IC Only) (one per batch)
Direct	95-07935-D1		95-07944-D1	Direct Sample ***
	95-07935-D2		95-07944-D2	Direct Duplicate
	95-07935-D3		95-07944-D3	Methods Blank (one per batch)
Total Cyanide	95-07935-G1		95-07944-G1	Total CN Sample
	95-07935-G2		95-07944-G2	Total CN Duplicate
	95-07935-G3		95-07944-G3	Methods Blank (one per batch)
	95-07935-G4		95-07944-G4	Matrix Spike (one per batch)
	95-07935-G5		95-07944-G5	Blank Spike (one per batch)
Fusion Dissolution KOH			95-07944-H1	KOH Fusion Sample (ICP, Radchem****)
			95-07944-H2	KOH Fusion Duplicate
			95-07944-H3	Methods Blank (one per batch)
			95-07944-H5	Post Digestion Blank Spike (ICP only)
			95-07944-H6	Post Digestion Spike (ICP Only)
Carbon	95-07935-J1		95-07944-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07935-J2		95-07944-J2	Carbon Analysis Duplicate
	95-07935-J3		95-07944-J3	Methods Blank (one per batch)
	95-07935-J4		95-07944-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2			95-07944-N1	Na2O2 Fusion Sample (ICP)
			95-07944-N2	Na2O2 Fusion Duplicate (one per batch)
			95-07944-N3	Methods Blank (one per batch)
			95-07944-N5	Post Digestion Blank Spike (ICP only)
			95-07944-N6	Post Digestion Spike

* Acid Digestion Radchem: Total Alpha, Total Beta, GEA

** Water Leach: IC on Drainable Liquid and Quarter Segment

*** Direct Samples: DSC on Drainable Liquid, DSC and Density on Quarter Segment

**** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

Table I-4: Tank BY-108, Core 99, Segment 4

Analysis	Quarter Segment 4A Unhomogenized	Quarter Segment 4B Unhomogenized	Quarter Segment 4C Unhomogenized	Quarter Segment 4D Unhomogenized	Quarter Segment 4A	Quarter Segment 4B	Quarter Segment 4C	Quarter Segment 4D	
TGA	95-07937	95-07938	95-07939	95-07940					Run In Duplicate
Water Leach					95-07945-C1	95-07946-C1	95-07947-C1	95-07948-C1	Water Leach Sample (IC)
					95-07945-C2	95-07946-C2	95-07947-C2	95-07948-C2	Water Leach Duplicate
					95-07945-C3	95-07946-C3	95-07947-C3	95-07948-C3	Methods Blank (one per batch)
					95-07945-C4	95-07946-C4	95-07947-C4	95-07948-C4	Spike (IC Only) (one per batch)
					95-07945-C5	95-07946-C5	95-07947-C5	95-07948-C5	Blank Spike (IC Only) (one per batch)
Direct					95-07945-D1	95-07946-D1	95-07947-D1	95-07948-D1	DSC & Density Sample
					95-07945-D2	95-07946-D2	95-07947-D2	95-07948-D2	DSC & Density Duplicate
					95-07945-D3	95-07946-D3	95-07947-D3	95-07948-D3	Methods Blank (one per batch)
Total Cyanide					95-07945-G1	95-07946-G1	95-07947-G1	95-07948-G1	Total CN Sample
					95-07945-G2	95-07946-G2	95-07947-G2	95-07948-G2	Total CN Duplicate
					95-07945-G3	95-07946-G3	95-07947-G3	95-07948-G3	Methods Blank (one per batch)
					95-07945-G4	95-07946-G4	95-07947-G4	95-07948-G4	Matrix Spike (one per batch)
					95-07945-G5	95-07946-G5	95-07947-G5	95-07948-G5	Blank Spike (one per batch)
Homogenization Test Fusion Dissolution KOH						95-07946-H1T			Homogenization Test Fusion Sample - Top *
						95-07946-H2T			Homogenization Test Fusion Duplicate - Top
						95-07946-HCB			Homogenization Test Fusion Blank
						95-07946-H1B			Homogenization Test Fusion Sample - Bottom
						95-07946-H2B			Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH					95-07945-H1	95-07946-H1	95-07947-H1	95-07948-H1	KOH Fusion Sample (TCP, Radchem**)
					95-07945-H2	95-07946-H2	95-07947-H2	95-07948-H2	KOH Fusion Duplicate
					95-07945-H3	95-07946-H3	95-07947-H3	95-07948-H3	Methods Blank (one per batch)
					95-07945-H5	95-07946-H5	95-07947-H5	95-07948-H5	Post Digestion Blank Spike (ICP only)
					95-07945-H6	95-07946-H6	95-07947-H6	95-07948-H6	Post Digestion Matrix Spike (ICP Only)
Carbon					95-07945-J1	95-07946-J1	95-07947-J1	95-07948-J1	Carbon Analysis Sample (TIC/TOC/TC)
					95-07945-J2	95-07946-J2	95-07947-J2	95-07948-J2	Carbon Analysis Duplicate
					95-07945-J3	95-07946-J3	95-07947-J3	95-07948-J3	Methods Blank (one per batch)
					95-07945-J4	95-07946-J4	95-07947-J4	95-07948-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2					95-07945-N1	95-07946-N1	95-07947-N1	95-07948-N1	Na2O2 Fusion Sample (ICP)
					95-07945-N2	95-07946-N2	95-07947-N2	95-07948-N2	Na2O2 Fusion Duplicate (one per batch)
					95-07945-N3	95-07946-N3	95-07947-N3	95-07948-N3	Methods Blank (one per batch)
					95-07945-N5	95-07946-N5	95-07947-N5	95-07948-N5	Post Digestion Blank Spike (ICP only)
					95-07945-N6	95-07946-N6	95-07947-N6	95-07948-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA

** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

SECTION 1

PHYSICAL DATA

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Samples from Tank 241-BY-108 Core 99 were transferred from Westinghouse Hanford Company 222-S Laboratory to the Process Chemistry Group at the Pacific Northwest Laboratory. The segment identification, description of the sample, ACL sample number, WHC vial numbers, sample weight, and shipment numbers and dates are reported in Table 1-1.

Table 1-1: Tank BY-108, Core 99 Sample Receipt Information

Segment ID	Description	ACL Sample Number	WHC Vial Number	Approx. Sample Weight	Shipment Number	Shipment Date
1	Unhomogenized TGA	95-07931	7313	3.3 g	95-S-089	8/15/95
1	Subsampled Solids	95-07941	7504	53.1 g	95-S-089	8/15/95
2	Drainable Liquid	95-07932	7397	230 mL	95-S-093	8/18/95
2A	Subsampled Solids	95-07942	7506	7.1 g	95-S-093	8/18/95
2A	Unhomogenized TGA	95-07933	7315	1.9 g	95-S-093	8/18/95
2D	Subsampled Solids	95-07943	7505	24.0 g	95-S-093	8/18/95
2D	Unhomogenized TGA	95-07934	7314	4.0 g	95-S-093	8/18/95
3	Drainable Liquid	95-07935	7398	25 mL	95-S-094	8/21/95
3A	Subsampled Solids	95-07944	7379	18.9 g	95-S-094	8/21/95
3A	Unhomogenized TGA	95-07936	7316	3.5 g	95-S-094	8/21/95
4A	Subsampled Solids	95-07945	7716	30.3 g	95-S-095	8/25/95
4A	Unhomogenized TGA	95-07937	7322	4.0 g	95-S-095	8/25/95
4B	Subsampled Solids	95-07946	7717	33.4 g	95-S-095	8/25/95
4B	Unhomogenized TGA	95-07938	7319	4.3 g	95-S-095	8/25/95
4C	Subsampled Solids	95-07947	7718	34.0 g	95-S-095	8/25/95
4C	Unhomogenized TGA	95-07939	7318	4.6 g	95-S-095	8/25/95
4D	Subsampled Solids	95-07948	7719	32.4 g	95-S-095	8/25/95
4D	Unhomogenized TGA	95-07940	7317	5.3 g	95-S-095	8/25/95

The unhomogenized TGA samples were taken to Room 517 in the 325 Building where thermal analyses were performed. The remaining samples were homogenized

using PNL technical procedure PNL-ALO-135. The sample mass of the subsampled solids from the quarter segments was small; therefore, these samples were homogenized by stirring the sample with a micro spatula. A magnetic stir bar and plate was used to homogenize the drainable liquid samples. The drainable liquids were subsampled to produce TGA samples. These TGA samples were transferred to Room 517 for thermal analysis.

The effectiveness of the homogenization process was verified on two samples (Segments 1 and 4B). GEA and ICP analyses were performed in duplicate on samples from the top and bottom portions of the homogenized samples. The major components and their concentrations for these homogenization subsamples are reported in Table 1-2.

Table 1-2: Tank BY-108, Core 99 Homogenization Check Results

Analyte	Segment	Top Sample	Duplicate	Average	RPD (%)	Bottom Sample	Duplicate	Average	RPD (%)
Cs-137, µCi/g	1	20.54	18.08	19.31	13	24.01	20.35	22.18	17
Al, µg/g	1	138516	133408	135962	4	143659	140111	141885	3
Ca, µg/g	1	1156	1450	1303	23	1330	1520	1425	13
Fe, µg/g	1	1494	972	1233	42	1805	1179	1492	42
Na, µg/g	1	98650	97695	98173	1	98980	93886	96433	5
P, µg/g	1	24562	30291	27427	21	29282	28382	28832	3
Cs-137, µCi/g	4B	115.4	91.83	103.62	23	111.7	101.8	106.75	9
Al, µg/g	4B	13405	10948	12177	20	11113	11594	11354	4
Bi, µg/g	4B	3120	2458	2789	24	2697	2753	2725	2
Ca, µg/g	4B	12280	9029	10655	31	10657	11329	10993	6
Fe, µg/g	4B	29935	22647	26291	28	25898	27279	26589	5
Na, µg/g	4B	102423	122477	112450	18	97416	104472	100944	7
P, µg/g	4B	20774	29818	25296	36	20644	23052	21848	11
Sr, µg/g	4B	27740	19740	23740	34	25301	25108	25205	1
U, µg/g	4B	61637	47328	54483	26	52421	53510	52966	2

Sample Preparation: The work scope for Tank BY-108 is comprised of segment, quarter segment and drainable liquid samples. These samples were transferred from the HLRF to the SAL. Due to the high level of radioactivity associated

with the samples from Tank BY-108, all of the analytical preparations were completed in the hot cell.

Table 1-3 lists the procedures that were used to prepare Tank BY-108 samples for the requested suite of analyses. Also included in the listing is the carbon procedure that was used to conduct in-cell analytical carbon determinations.

Table 1-3: Tank BY-108, Core 99 SAL Procedure List

PNL Procedure Number	Procedure Title
PNL-ALO-103, Rev. 1	Water Leach of Sludges, Soils and Other Solid Samples
PNL-ALO-114, Rev. 1	Solubilization of Metals From Solids Using a Na_2O_2-NaOH Fusion
PNL-ALO-115, Rev. 1	Solubilization of Metals From Solids Using a KOH-KNO_3 Fusion
PNL-ALO-128, Rev. 0	HNO_3-HCl Acid Extraction of Liquids for Metals Analysis Using a Dry-Block Heater
PNL-ALO-129, Rev. 0	HNO_3-HCL Acid Extraction of Solids Using a Dry-Block Heater
PNL-ALO-285, Rev. 0	Total Cyanide by Remote Microdistillation and Argentometric Titration
PNL-ALO-381, Rev. 1	Direct Determination of TC, TOC, and TIC in Radioactive Sludges and Liquids by Hot Persulfate Method

Segment 1 and Quarter Segment 4B homogenization check samples were prepared for ICP and GEA by Ni/KOH-KNO_3 fusion. Portions of the same segment/quarter segment were acid digested for solubility observations. Segment 1 acid dissolution resulted in a clear solution with a few milligrams of gray solids on the container bottom. Segment 4B acid dissolution resulted in a clear solution with a layer of gray or reddish particulates at the top of the aqueous layer. When disturbed, the layer moved downward to the container bottom subsequently turning the entire solution very cloudy. The particulates remained suspended for hours before reforming in a layer at the top of the container.

Table 1-4 describes subjective visual data for each of the 10 segment/quarter segments samples received from the HLRF.

Table 1-4: Tank BY-108, Core 99 Visual Observations

Segment/Quarter Segment Identification	Observation
Segment 1 Solids	Beige colored, concrete textured sludge with dark colored flecks throughout.
Segment 2 Drainable Liquid	Approximately 200 mL of clear liquid with a thin layer of light beige colored solids on the bottom of the container.
Quarter Segment 2A Solids	Appearance like that of ground ice. Slides across container bottom in the same manner as wet ice.
Quarter Segment 2D Solids	Sandy beige colored sludge with a small 1/8" layer of clear liquid standing on top.
Segment 3 Drainable Liquid	Approximately 50 mL of clear liquid with a thin layer of reddish colored solids on the bottom of the container.
Quarter Segment 3A Solids	Moist, concrete textured, reddish brown sludge
Quarter Segment 4A Solids	Dark, sticky, thick, red sludge
Quarter Segment 4B Solids	Dark, sticky, thick, red sludge
Quarter Segment 4C Solids	Dark, sticky, thick, red sludge
Quarter Segment 4D Solids	Dark, sticky, thick, red sludge

Sample preparations/distributions of two drainable liquids and 8 solids samples involved:

- Water leaching of liquid and solid samples for IC and ICP.
- Ni/KOH-KNO_3 fusions of solid samples for ICP, GEA, Total Alpha, Total Beta, AEA for Pu,Np,Am, Uranium, and Sr/Y-90.
- Zr/Na_2O_2-NaOH fusions of solid samples for ICP.
- Acid digestions of liquid samples for ICP, Total Alpha, Total Beta and GEA.

- Microdistillation of liquid and solid samples for Cyanide.

Predigestion spikes were performed for ICP metals (drainable liquid samples only), IC anions, cyanide, and TOC (hot persulfate only). Post digestion spiking, where required by the Test Instruction, was done by the functional group performing the analysis.

During sample preparation, the SAL may have made deliberate minor deviations to sample preparatory procedures for one or more of the following reasons:

- Insufficient sample was available to conduct the analyses per procedure while maintaining the level of quality control requested.
- Sample weights and/or final volumes were reduced to facilitate waste minimization.
- Sample weights and/or final volumes were altered to increase the concentration of certain analytes of interest. This was done to meet the procedural concentration ranges needed to perform the analyses.

Sample sizes and final volumes for all sample preparations are documented on the Sample Preparation Data Sheets included in Appendix A. Table 1-5 lists the sample preparatory procedure deviations performed during the processing of Tank BY-108.

Table 1-5: Tank BY-108, Core 99 Sample Preparation Procedural Deviations

ALO Number	Prep Method	Sample Size Deviation	Sample Volume Deviation	Reagent Deviation	Observed Effect
95-07932-A	Acid	Yes	No	No	None
95-07935-A	Acid	Yes	No	No	None
95-07932-C	Water	Yes	Yes	No	None
95-07935-C	Water	Yes	Yes	No	None
95-07941-C	Water	No	Yes	No	None
95-07942-C	Water	Yes	Yes	No	None
95-07944-C	Water	Yes	Yes	No	None
95-07945-C	Water	Yes	Yes	No	None
95-07946-C	Water	Yes	Yes	No	None
95-07947-C	Water	Yes	Yes	No	None
95-07948-C	Water	Yes	Yes	No	None

Thermal Analysis

Scanning Thermogravimetric Analysis (TGA) and Differential Scanning Calorimetry (DSC) were performed on the unhomogenized solids and drainable liquids from Core 99 Segments 1 through 4. These two thermal analysis techniques are useful in determining the thermal stability and reactivity of the material. DSC measures heat released or absorbed while the temperature of the sample is increased at a constant rate. Data generated by the DSC analysis is often used to measure thermal decomposition temperatures, heats of reaction, reaction temperatures, melting points and solid-solid transition temperatures. TGA measures the mass of a sample while the temperature of the sample is increased at a constant rate. The TGA data is used to measure thermal decomposition temperatures, water content and reaction temperatures. Both methods can be modified to measure isothermal changes in the material and provide complimentary information.

The calibration of the DSC and TGA instruments were checked before running these samples. An indium standard was run on the DSC to check the temperature and enthalpy calibrations. The balance calibration of the TGA was checked with a 100 mg standard weight, and the temperature calibration was checked with a lead standard. The temperature and enthalpy calibration checks were all within 1°C and 0.2 J/g of their reported values, and the balance calibration was within 0.01 mg.

The results from the DSC and TGA analyses are reported in Tables 1-6 and 1-7, respectively. The temperature range of the scans was from ambient to 550°C, with a scan rate of 10°C per minute. These analyses were all performed in platinum pans under nitrogen cover gas.

The major transition in all of these samples was an endotherm due to water loss from the sample. This was also the major mass loss in all of the samples. The onset temperature of this transition could not be measured because the transition began at the initial temperature of the run (ambient temperature). The water loss endotherm ends at approximately 200°C. This endotherm is a complicated system of several unresolvable transitions with each sample containing slightly different proportions of these transitions.

An exotherm was identified in all quarter segment samples from Segment 4 and the drainable liquids. This exotherm has an onset temperature of between 197 and 225°C. The enthalpy of this transition varied with each quarter segment. The temperature range for this transition was from 195 to 400°C. It appears that this exotherm is commingled with some endothermic behavior which cannot be resolved; therefore, it is difficult to determine onset temperatures for each sample. The enthalpy of this transition is also dependent upon resolution of this exotherm for the commingled endotherms and the initial water loss endotherm. In most cases the most conservative approach (the largest exothermic energy) has been taken.

In Segments 1 through 3 a second endotherm is observed. Several transitions are observed in this endotherm and the onset temperature varies depending upon the size of the first transition in comparison with the second

Table 1-6: Tank BY-108, Core 99 Differential Scanning Calorimetric (DSC) Results

Sample Number	Segment ID	Enthalpy (J/g)	Range (°C)	Onset (°C)
7313	1	725.6 311.2	8-153 193-333	 219
7313-2	1	521.2 305.2	16-158 181-343	 221
95-07932	2-DL	737.5 -11.6 -14.9	45-226 226-265 265-340	 278
95-07932-2	2-DL	1243.6 -35.8 -10.5	20-216 216-270 272-330	 279
7315	2A	201.3 108.6	48-227 227-324	 250
7315-2	2A	177.3 114.1	43-231 231-322	 251
7314	2D	263.0 127.3 -2.8	22-204 215-332 375-430	 261 385
7314-2	2D	194.7 161.7 -2.8	24-185 187-345 380-430	 211
95-07935	3-DL	1178.2 26.1	31-236 236-303	 237
95-07935-2	3-DL	1279.2 26.9	32-239 239-300	238
7316	3A	303.4 81.1 -1.2	28-230 236-336 400-427	 249
7316-2	3A	343.5 101.1 -0.7	12-215 233-327 430-450	 259
7322	4A	385.5 33.6	22-183 243-310	 259
7322-2	4A	556.7	33-255	
7319	4B	651.6 -191.1	22-193 200-411	 207

Table 1-6: Tank BY-108, Core 99 Differential Scanning Calorimetric (DSC) Results (Cont.)

Sample Number	Segment ID	Enthalpy (J/g)	Range (°C)	Onset (°C)
7319-2	4B	476.0 -133.2	19-224 224-385	
7318	4C	644.5 -67.0	26-192 192-375	197
7318-2	4C	876.6 -77.8	15-196 200-361	237
7317	4D	693.4 -73.7	23-195 205-369	206
7317-2	4D	613.9 -60.2	30-193 203-350	204

transition. It appears that the onset temperature for the first transition in this endotherm is 220°C, and the onset temperature for the second transition is between 250 and 260°C.

The TGA analysis also indicated two different waste types in this core sample. All of the segments had a large mass loss associated with the water loss endotherm. This mass loss was observed between ambient temperature and 180°C. A small mass loss was observed over the remainder of the temperature range of the TGA analysis for all of the Segment 4 samples, but no significant transitions were observed at higher temperatures. In the Segment 1 through 3 solid samples, a second significant mass loss was observed. This mass loss has an onset temperature of approximately 245°C. This transition correlates with the second endothermic transition observed in the DSC analyses. These samples also continued to have a small mass loss throughout the remainder of the temperature range.

Table 1-7: Tank BY-108, Core 99 Thermogravimetric Analysis (TGA) Results

Sample	Segment	Range (°C)	Onset (°C)	Mass Loss (%)
7313	1	23-157 157-309 309-548	247	32.7 9.7 2.6
7313-2	1	28-145 145-318 318-548	249	26.1 13.2 3.5
7316	3A	22-212 212-344 344-548	310	14.1 0.9 0.2
7316	3A	40-170 170-548		35.0 1.9
7314	2D	27-198 198-328 328-545	245	17.9 2.2 0.9
7314-2	2D	23-203 203-328 328-442 442-545	242 393	15.5 3.3 0.8 0.4
7315	2A	23-136 136-256 256-545		7.8 3.6 0.8
7315-2	2A	23-130 130-215 215-545		6.6 5.2 0.1
7317	4D	23-167 167-550		40.6 5.1
7317-2	4D	22-178 178-549		44.0 3.8
7318	4C	24-173 173-549		35.6 5.3
7318-2	4C	24-172 172-549		36.2 4.5
7319	4B	22-187 187-403 403-548	309	35.3 7.9 1.3

Table 1-7: Tank BY-108, Core 99 Thermogravimetric Analysis (TGA) Results (Cont.)

Sample	Segment	Range (°C)	Onset	Mass Loss (%)
7319-2	4B	23-172 172-412 412-549	300	35.9 8.1 0.8
7322	4A	22-160 160-550		25.8 3.1
7322-2	4A	23-171 171-548		25.1 3.4
95-07935	3-DL	23-227 227-548		52.1 0.8
95-07935	3-DL	24-235 235-548		52.6 0.7
95-07932	2-DL	28-218 218-548		52.6 0.8
95-07932	2-DL	23-236 236-547		46.7 0.6

DSC/TGA SCANS

DSC

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14sept95a
<Date>
95/09/14 06:20

<Sample>
14sept95a
11.700 mg
(11.700 mg)
<Reference>
mt pan and lid
0.000 mg

<Comment>
indium std

<Sampling>
0.2 sec

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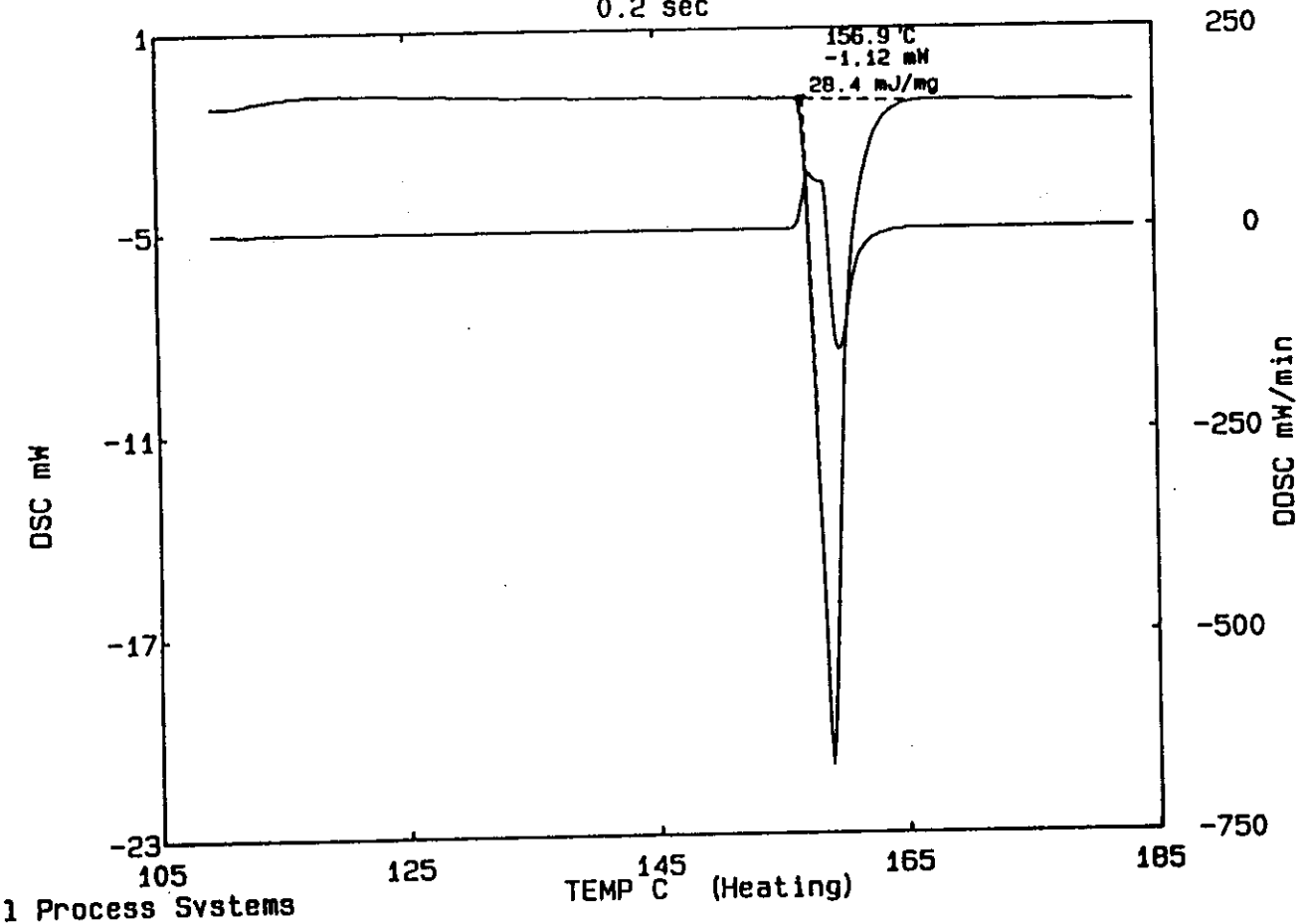
1 20.0- 120.0	20.00	0.00
2* 120.0- 190.0	10.00	0.00

<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

156.4
28.59

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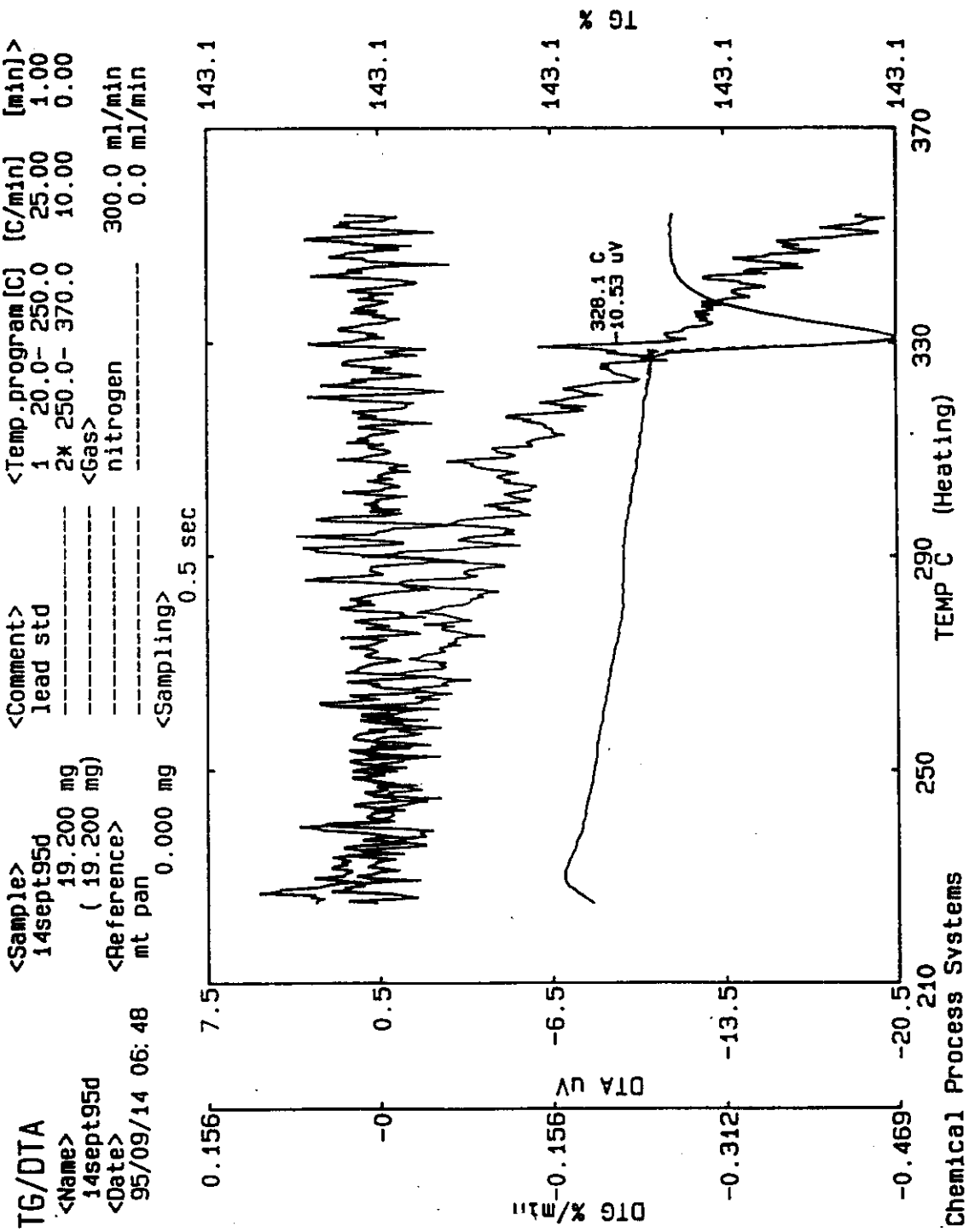
327.5 DA


TG/DTA
<Name>
14sept95d
<Date>
95/09/14 06:48
<Sample>
14sept95d
19.200 mg
(19.200 mg)
<Reference>
mt pan
0.000 mg
<Comment>
lead std
<Temp.program[C] [C/min] [min]>
1 20.0- 250.0 25.00 1.00
2* 250.0- 370.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
<Sampling>
0.5 sec
328.1 C
-10.53 uV
TG %
143.1
DTG %/min
0.156
-0
-0.156
-0.312
-0.469
DTA uV
7.5
0.5
-6.5
-13.5
-20.5
TEMP C (Heating)
210
250
290
330
370
Chemical Process Systems

DSC

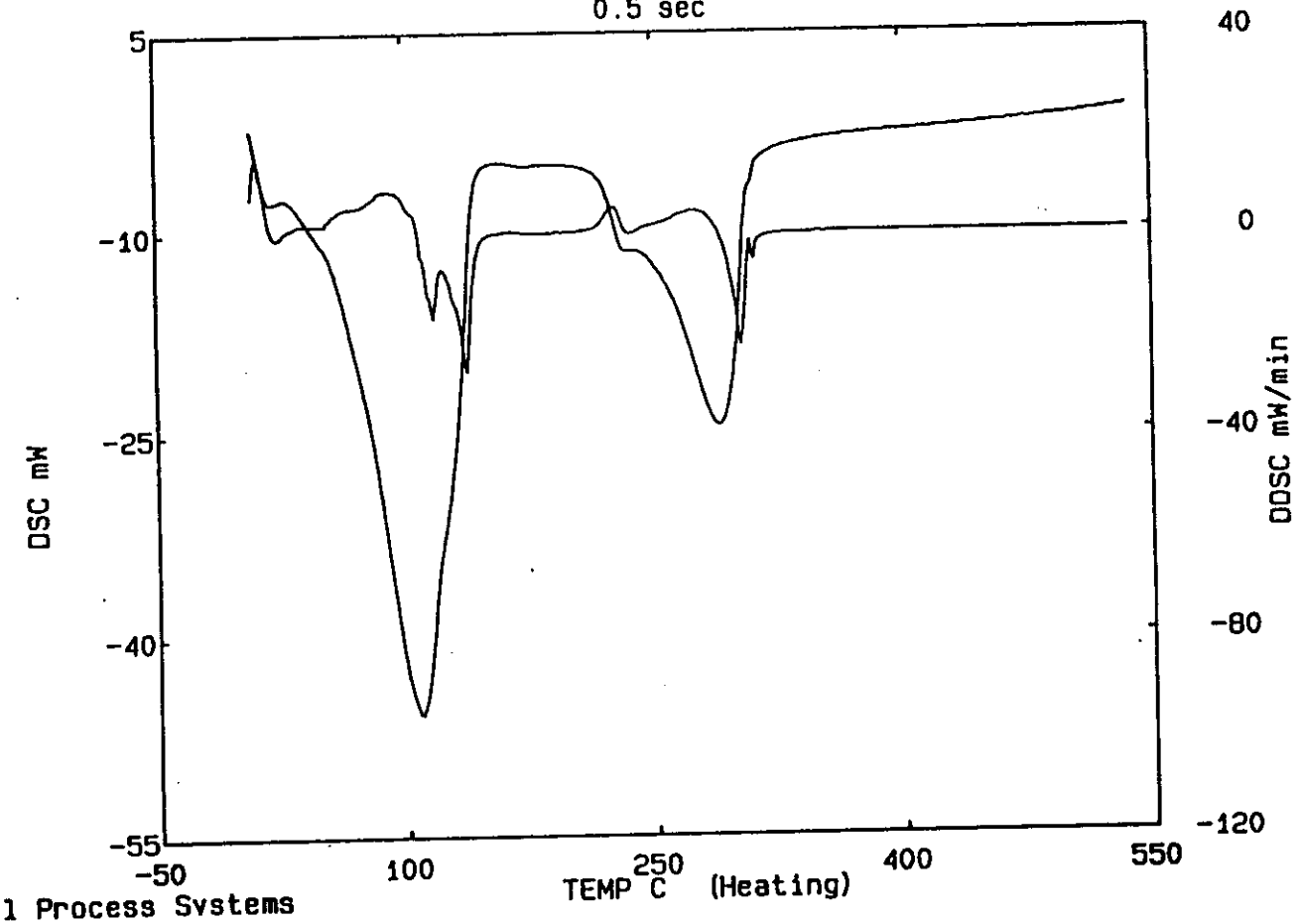
<Name>
20sept95c
<Date>
95/09/20 08:38

<Sample>
20sept95c
19.935 mg
(19.935 mg)
<Reference>
pt pan
0.000 mg

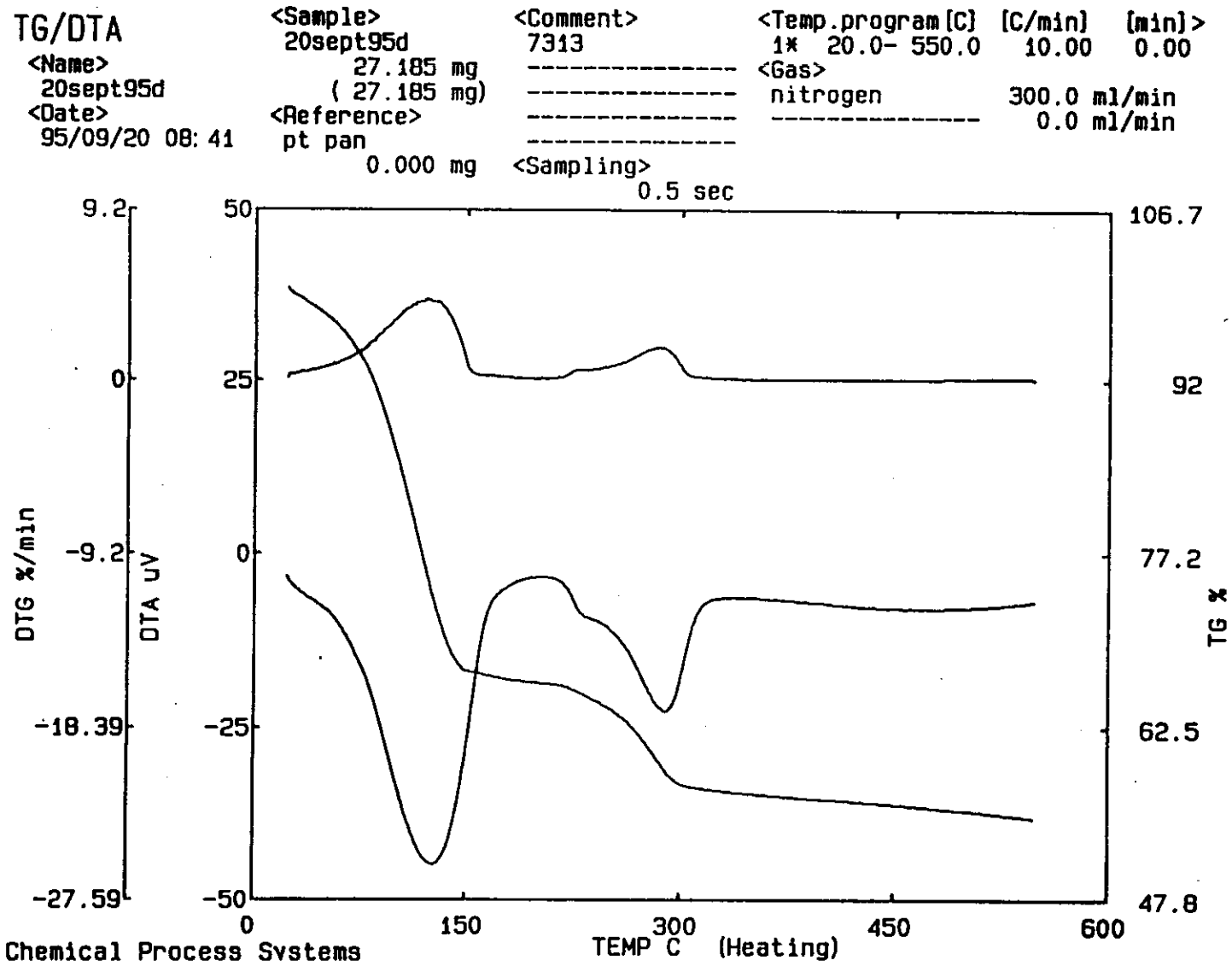
<Comment>
7313

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems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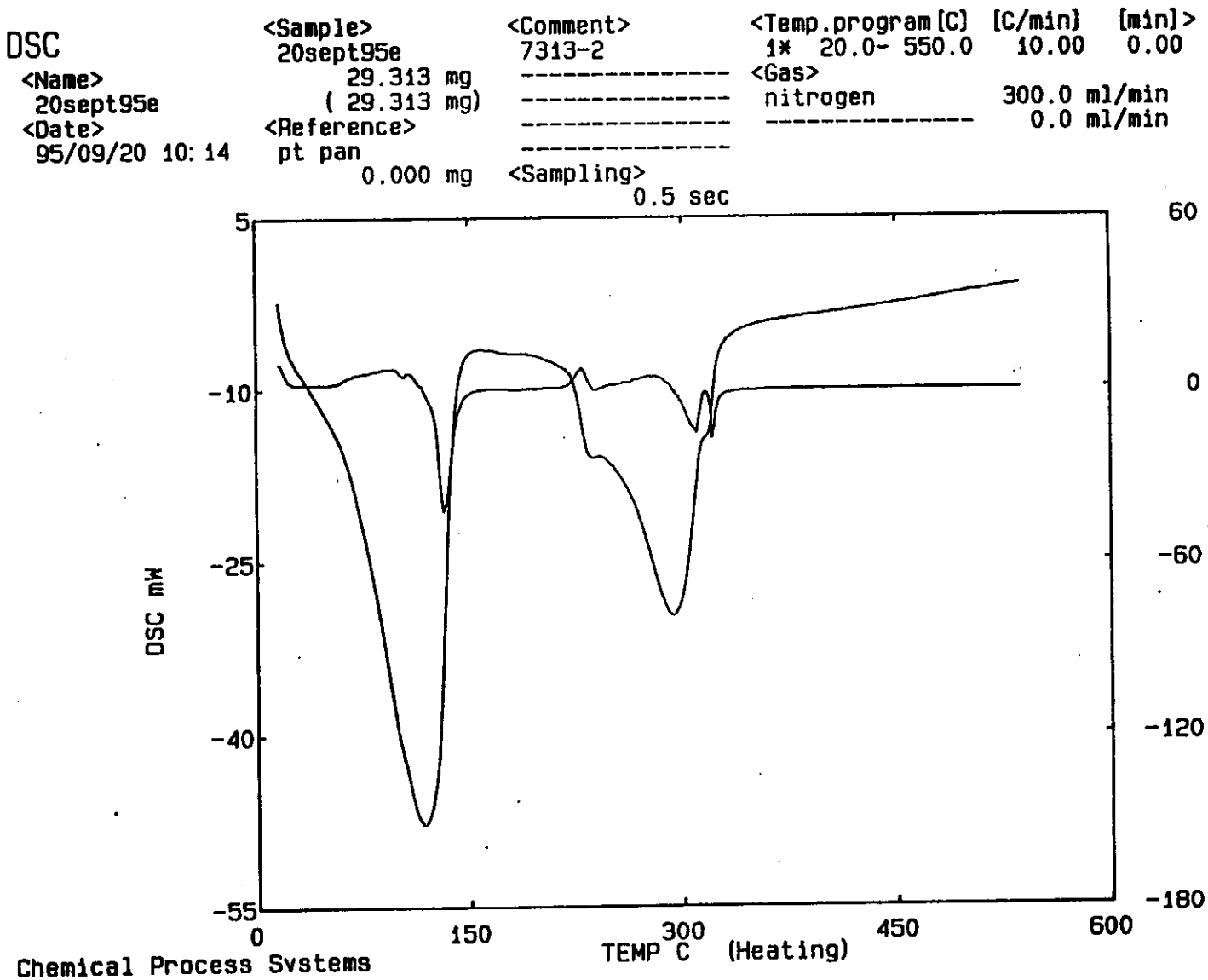
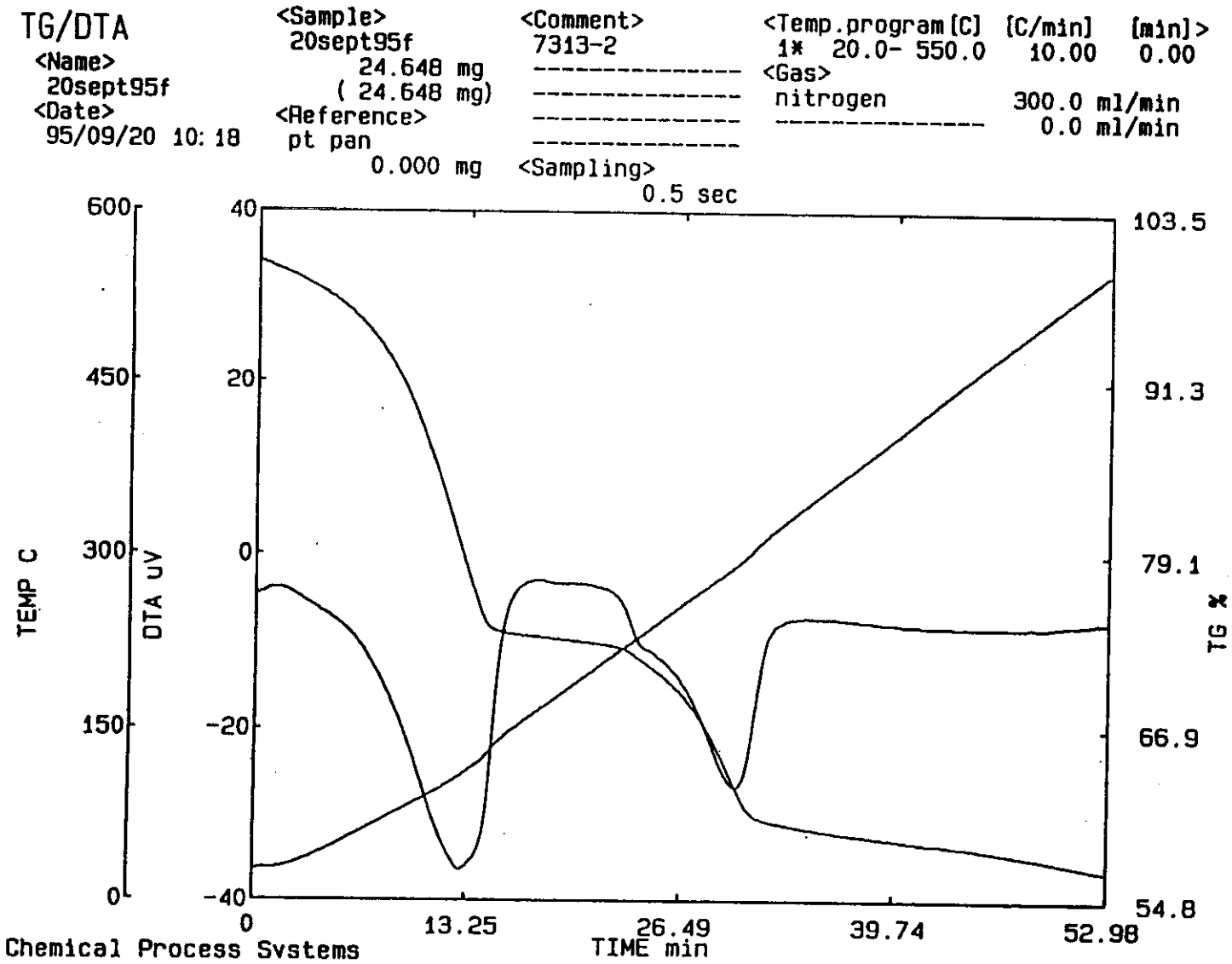
20sept95d
<Date>
95/09/20 08:41
<Sample>
20sept95d
27.185 mg
(27.185 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7313
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
9.2
0
-9.2
-18.39
-27.59
DTG %/min
DTA uV
50
25
0
-25
-50
106.7
92
77.2
62.5
47.8
TG %
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems


DSC
<Name>
20sept95e
<Date>
95/09/20 10:14
<Sample>
20sept95e
29.313 mg
(29.313 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7313-2
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems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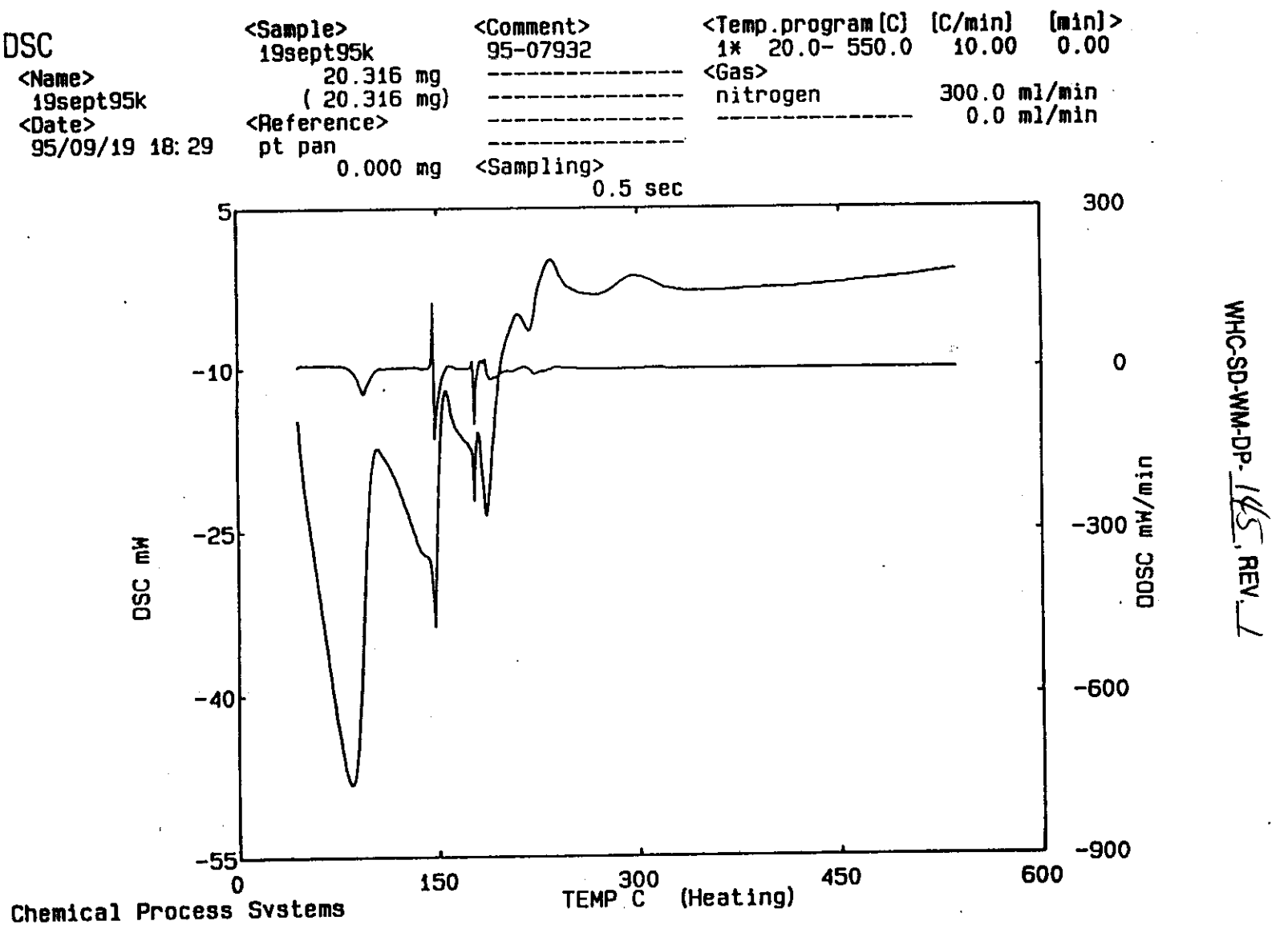
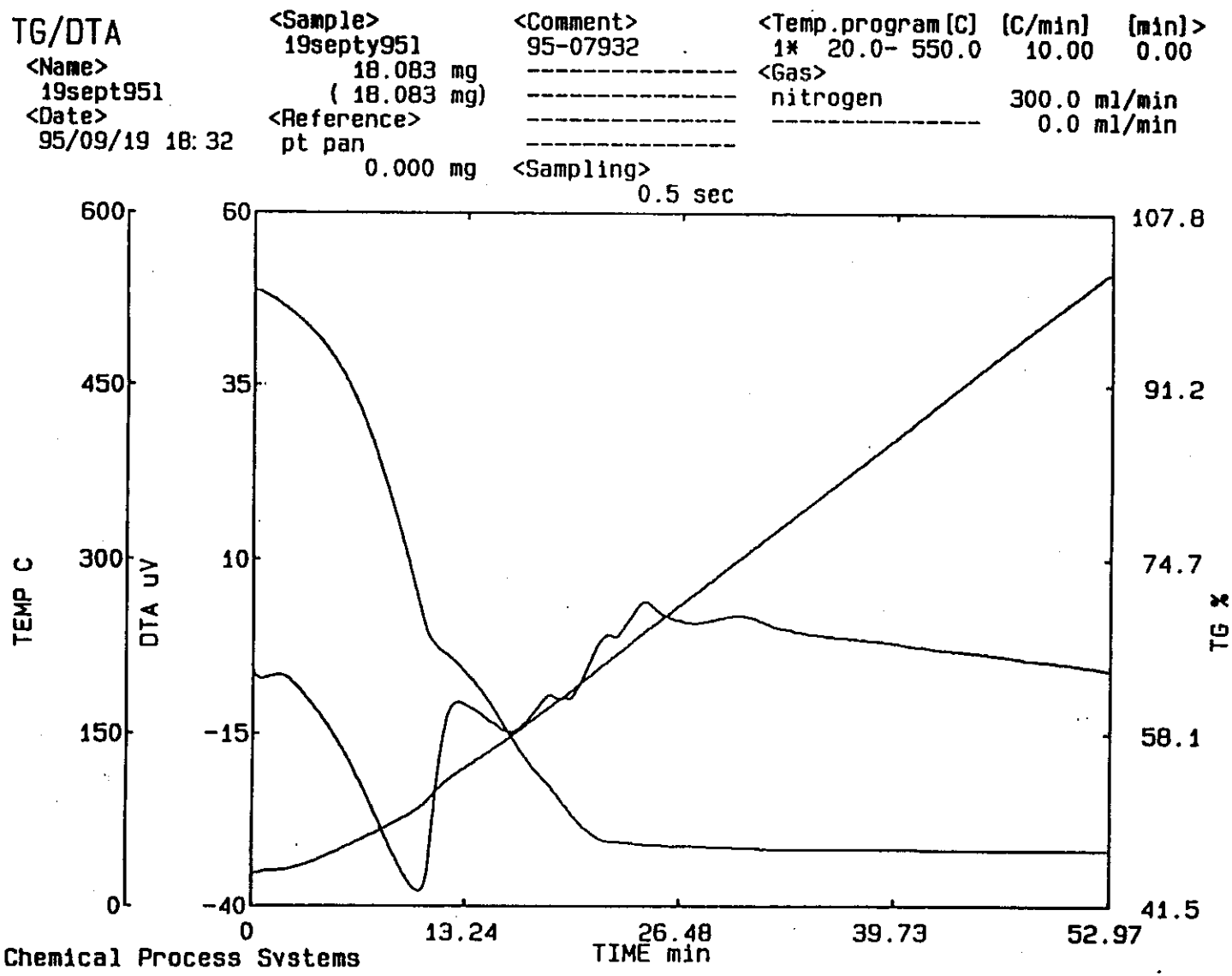
<Name>
20sept95f
<Date>
95/09/20 10:18
<Sample>
20sept95f
24.648 mg
(24.648 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7313-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
TEMP C
DTA uV
TG %
600
450
300
150
0
40
20
0
-20
-40
103.5
91.3
79.1
66.9
54.8
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems


DSC
<Name>
19sept95k
<Date>
95/09/19 18:29
<Sample>
19sept95k
20.316 mg
(20.316 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept951
<Date>
95/09/19 18:32
<Sample>
19septy951
18.083 mg
(18.083 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
60
35
10
-15
-40
DTA uV
107.8
91.2
74.7
58.1
41.5
TG %
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems

DSC

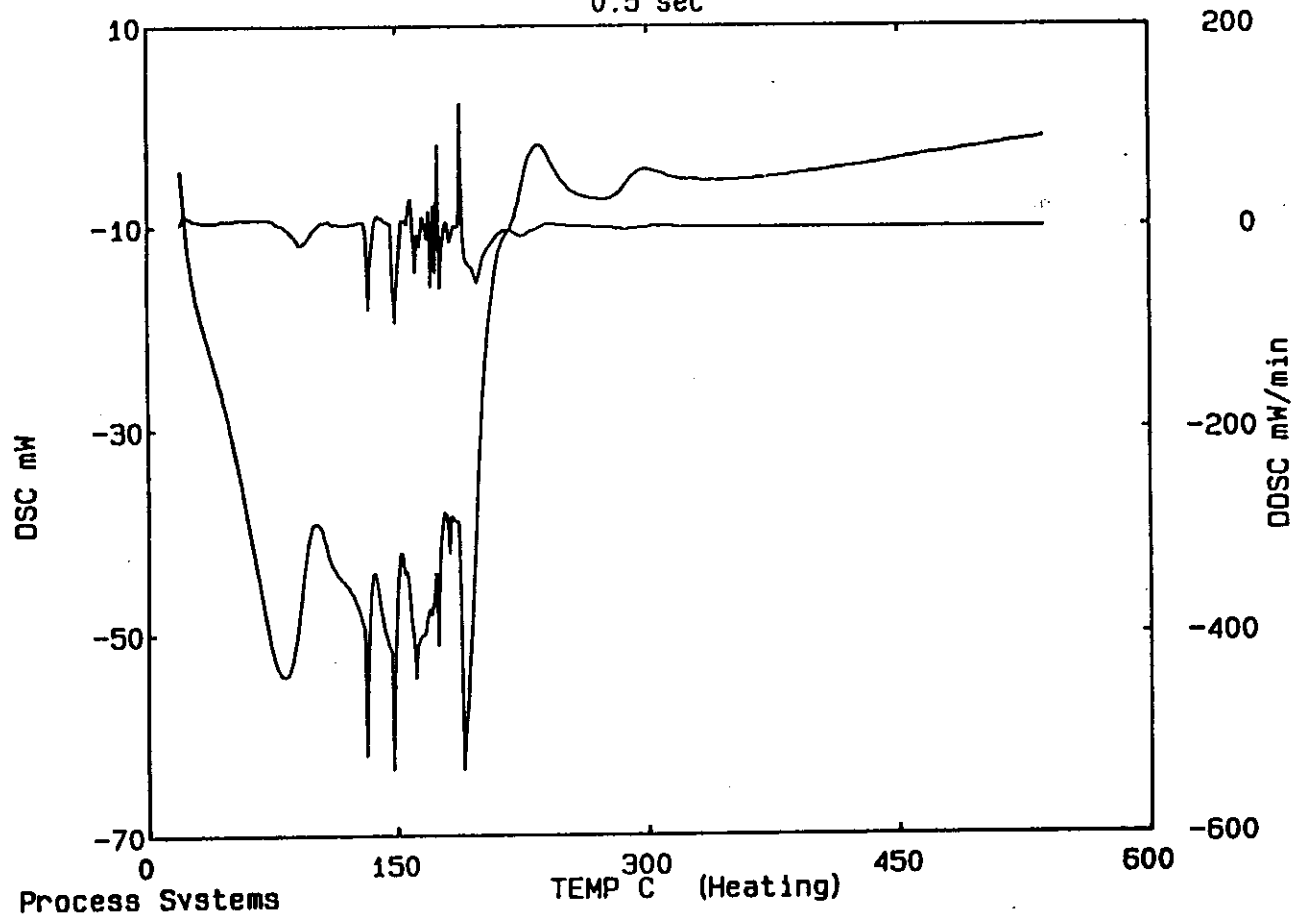
<Name>
20sept95a
<Date>
95/09/20 06:31

<Sample>
20sept95a
30.332 mg
(30.332 mg)
<Reference>
pt pan
0.000 mg

<Comment>
95-07932-2

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

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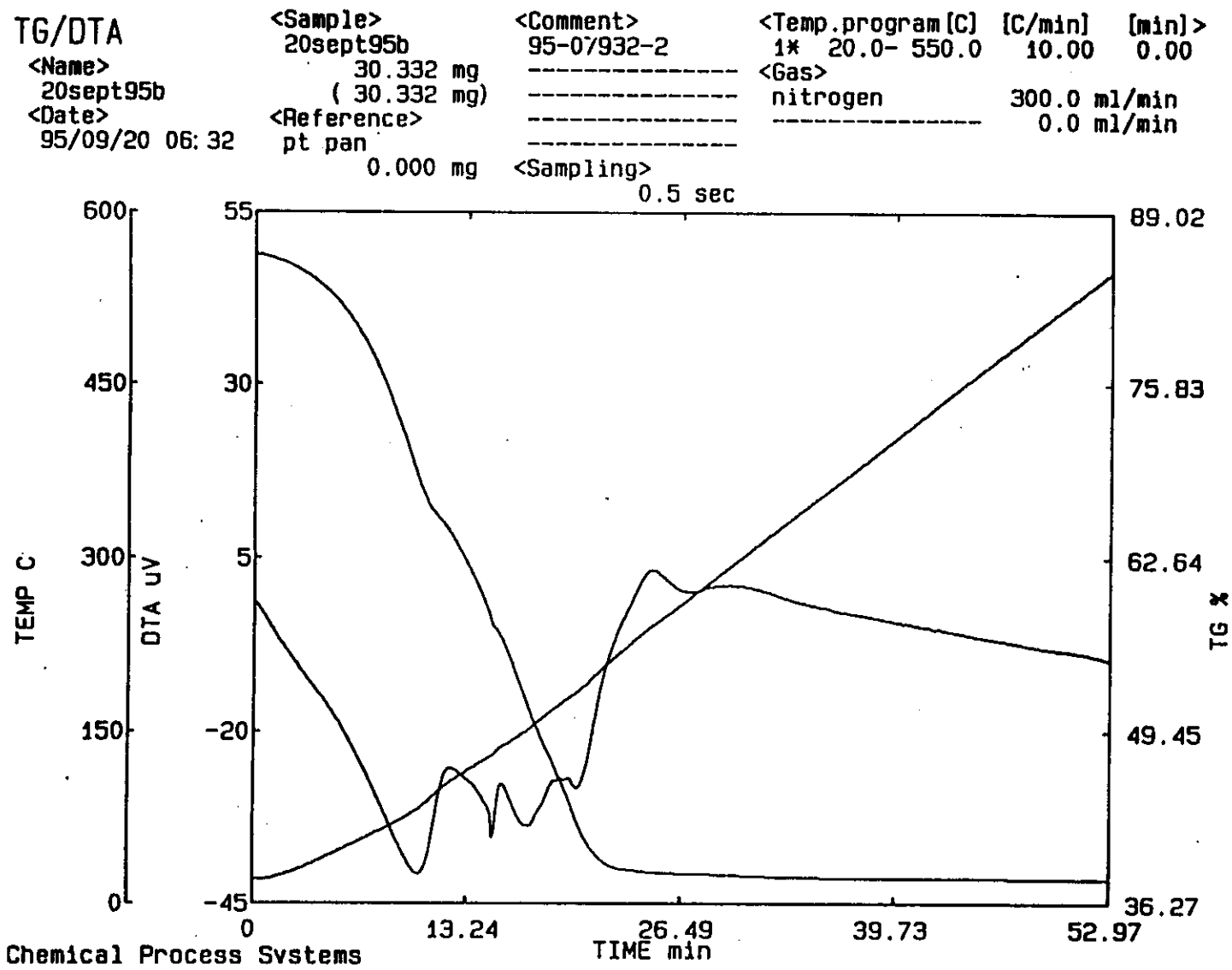
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<Date>
95/09/20 06:32
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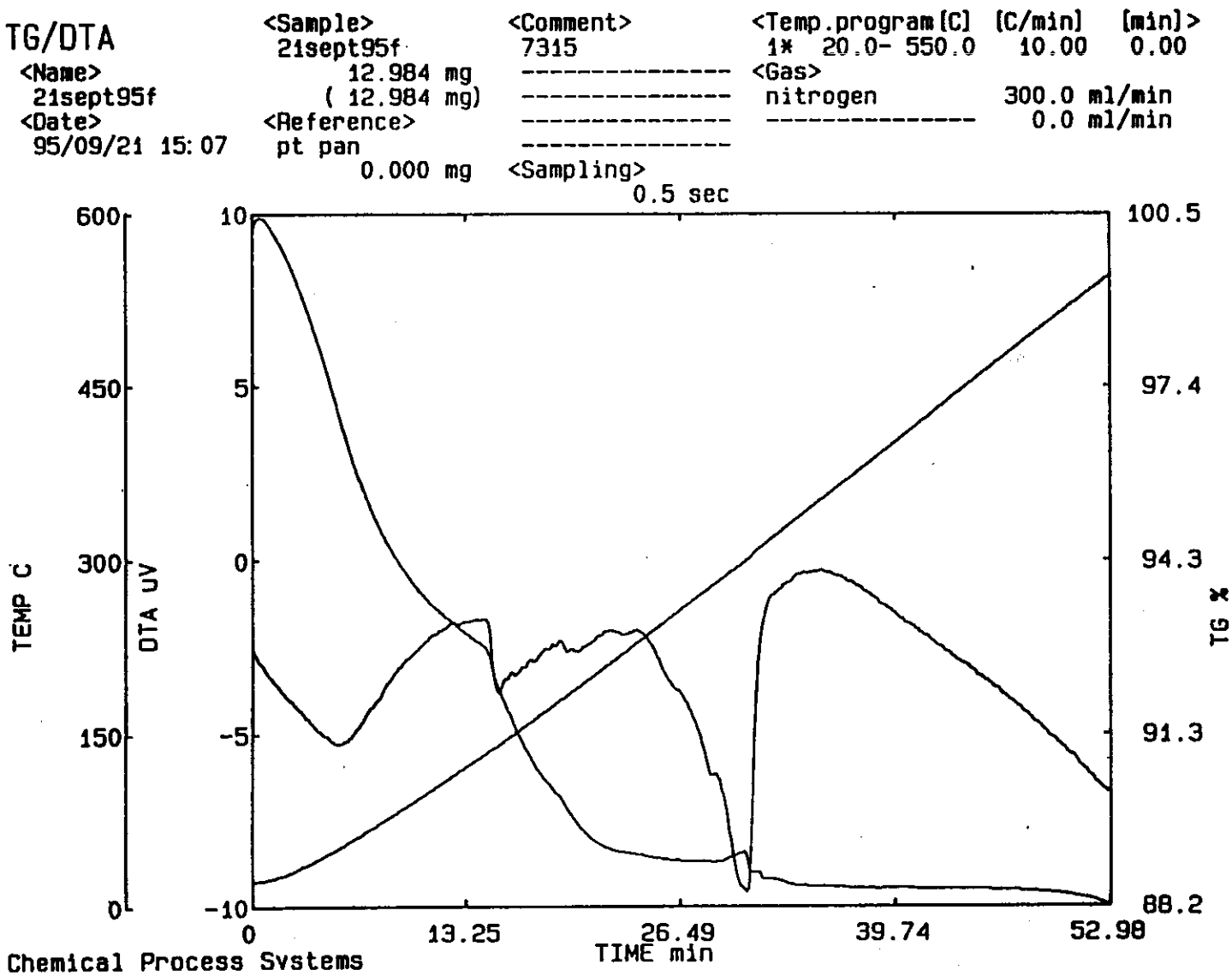
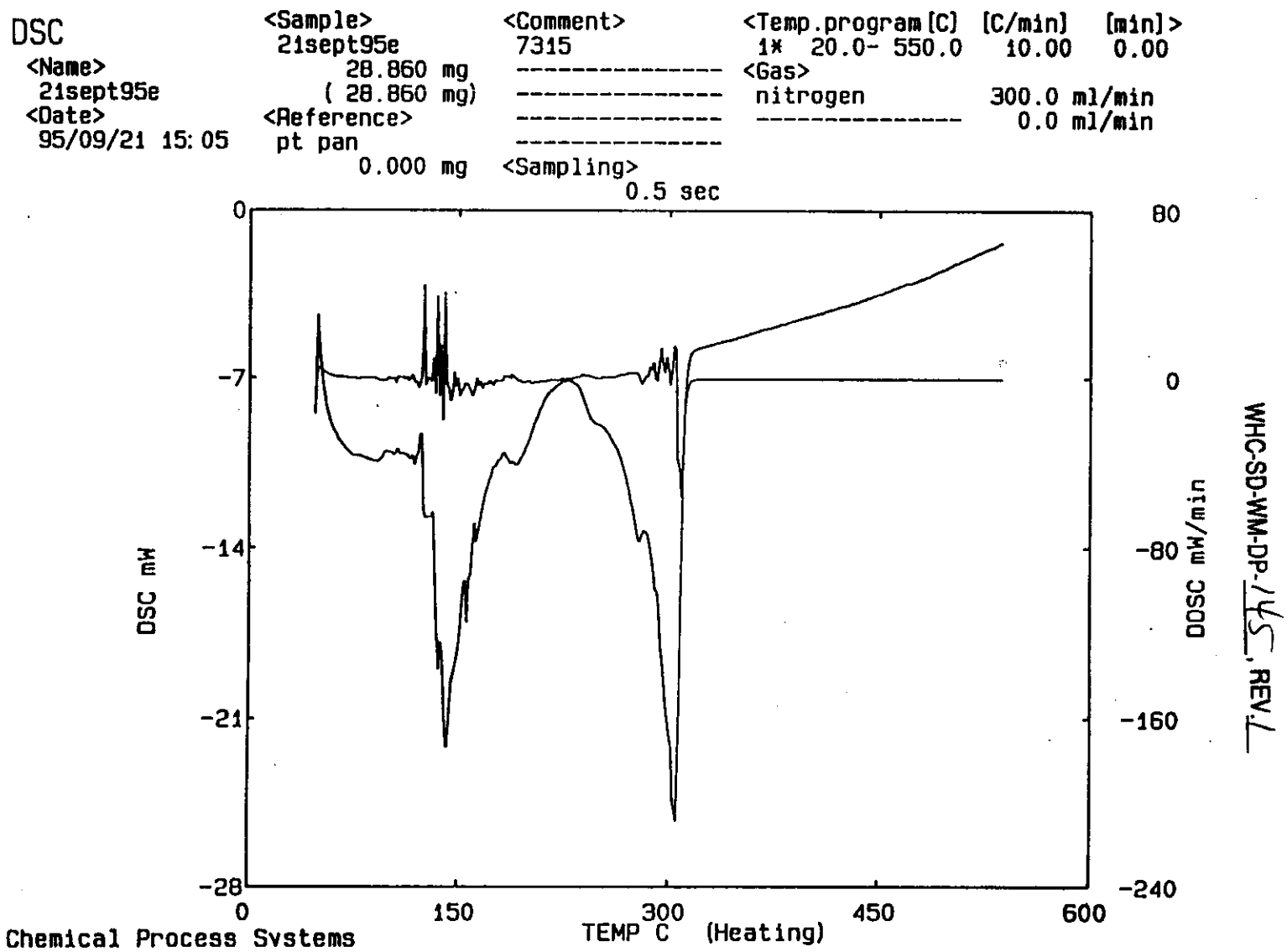
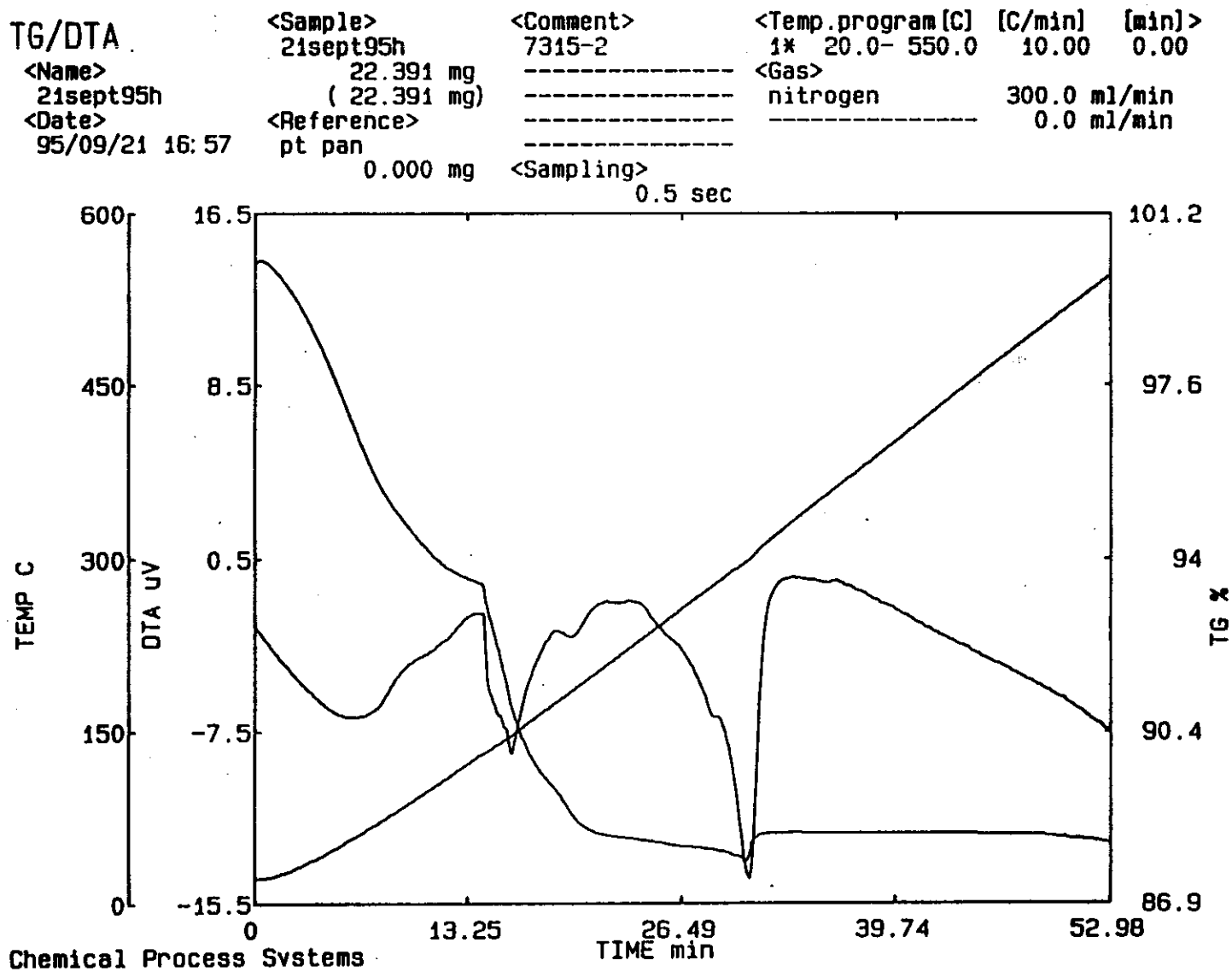
20sept95b
30.332 mg
(30.332 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
55
30
5
-20
-45
DTA uV
89.02
75.83
62.64
49.45
36.27
TG %
0
13.24
26.49
39.73
52.97
TIME min
Chemical Process Systems


TG/DTA
<Name>
21sept95f
<Date>
95/09/21 15:07
<Sample>
21sept95f
12.984 mg
(12.984 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7315
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
10
5
0
-5
-10
DTA uV
100.5
97.4
94.3
91.3
88.2
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

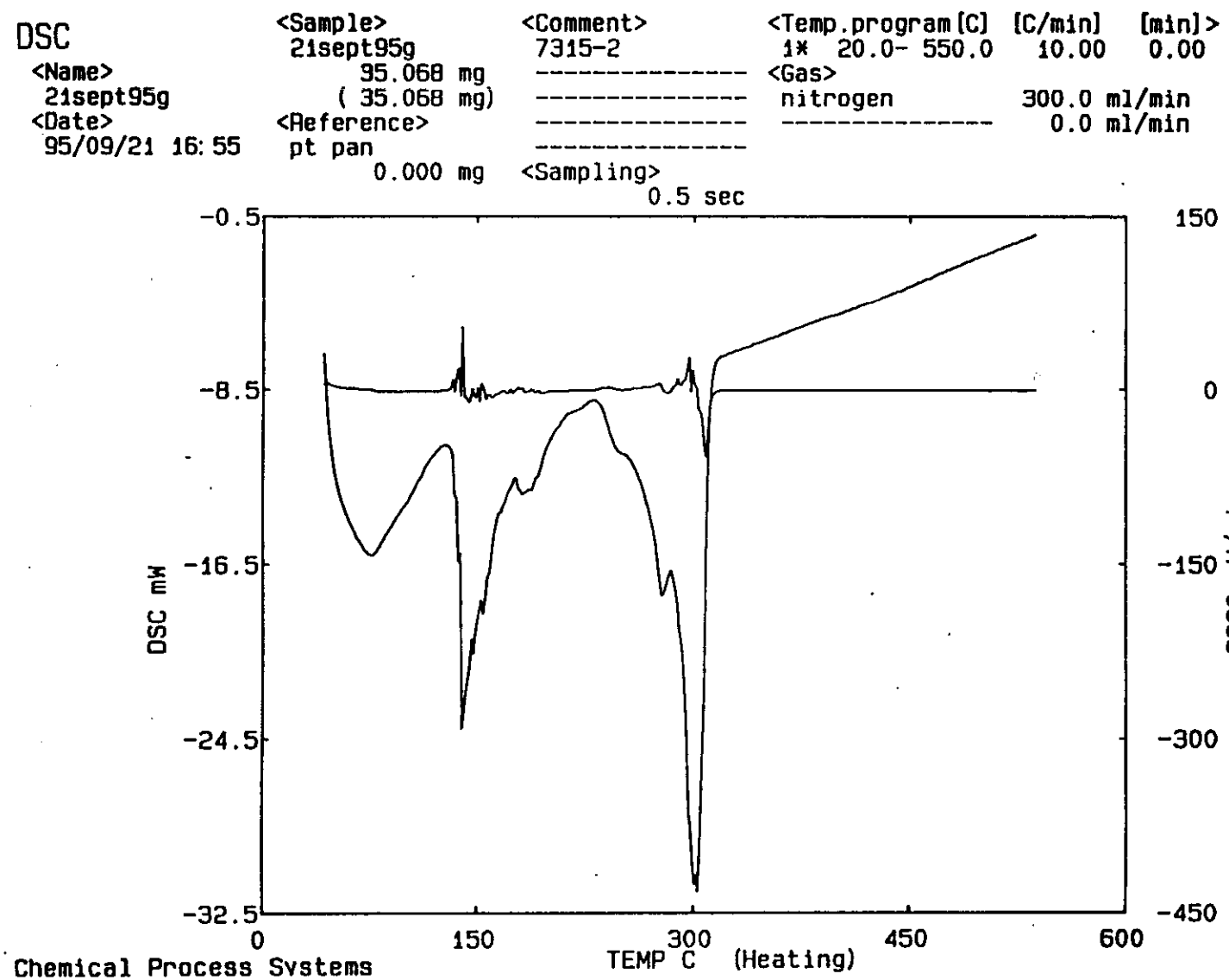


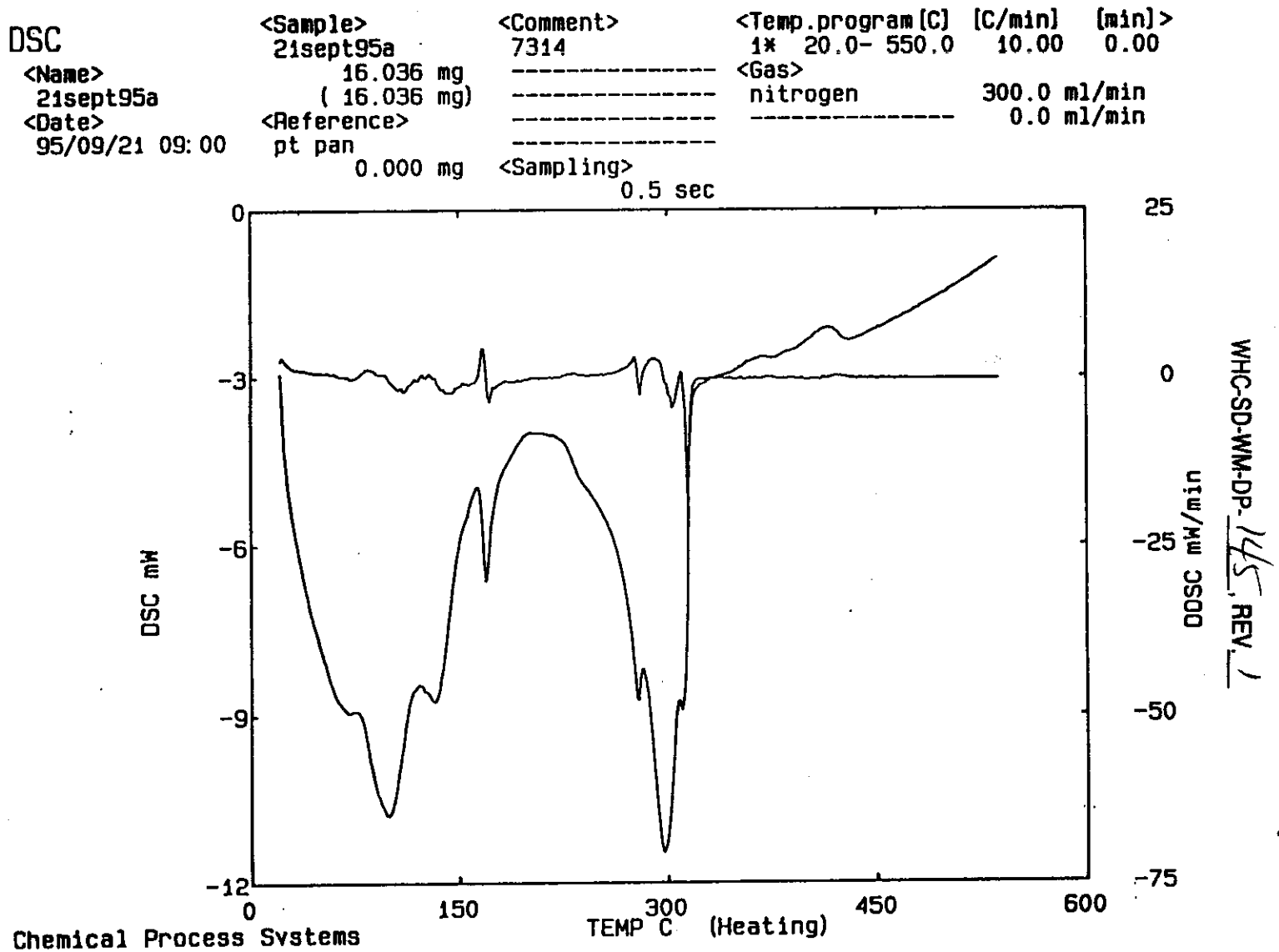
WHC-SD-WM-DP-145, REV. 1

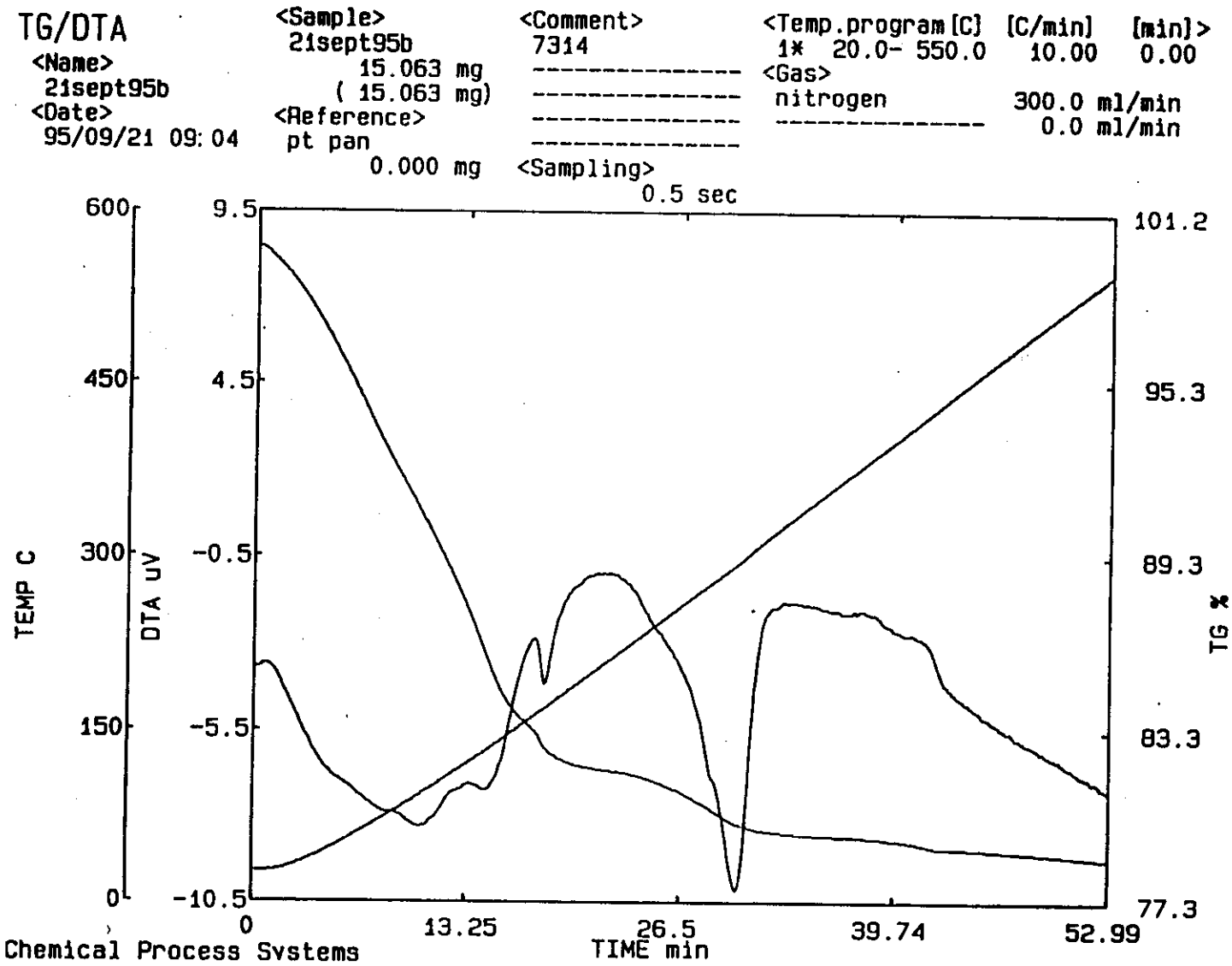
1.5



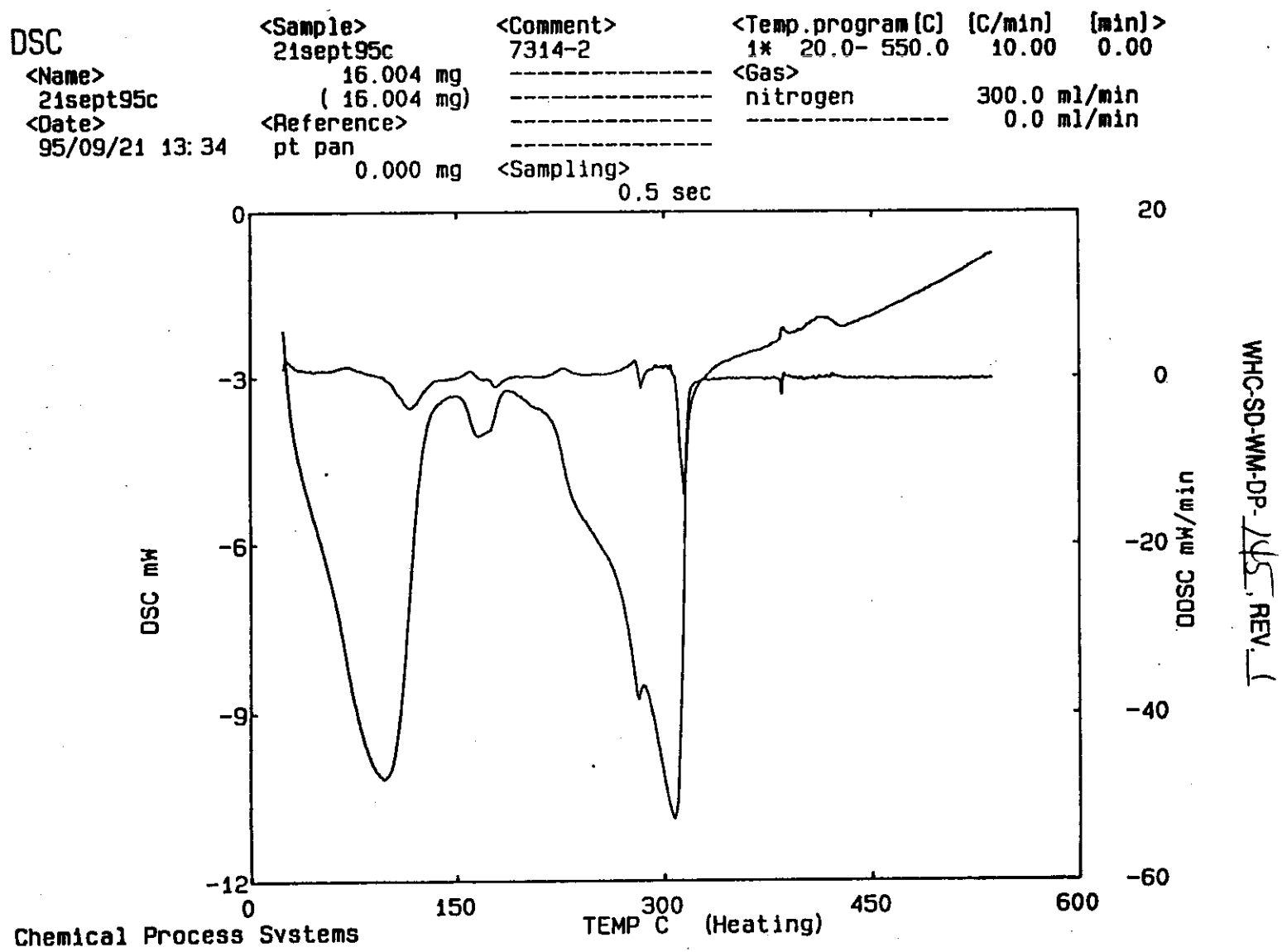
WHC-SD-WM-DP-145, REV. 1

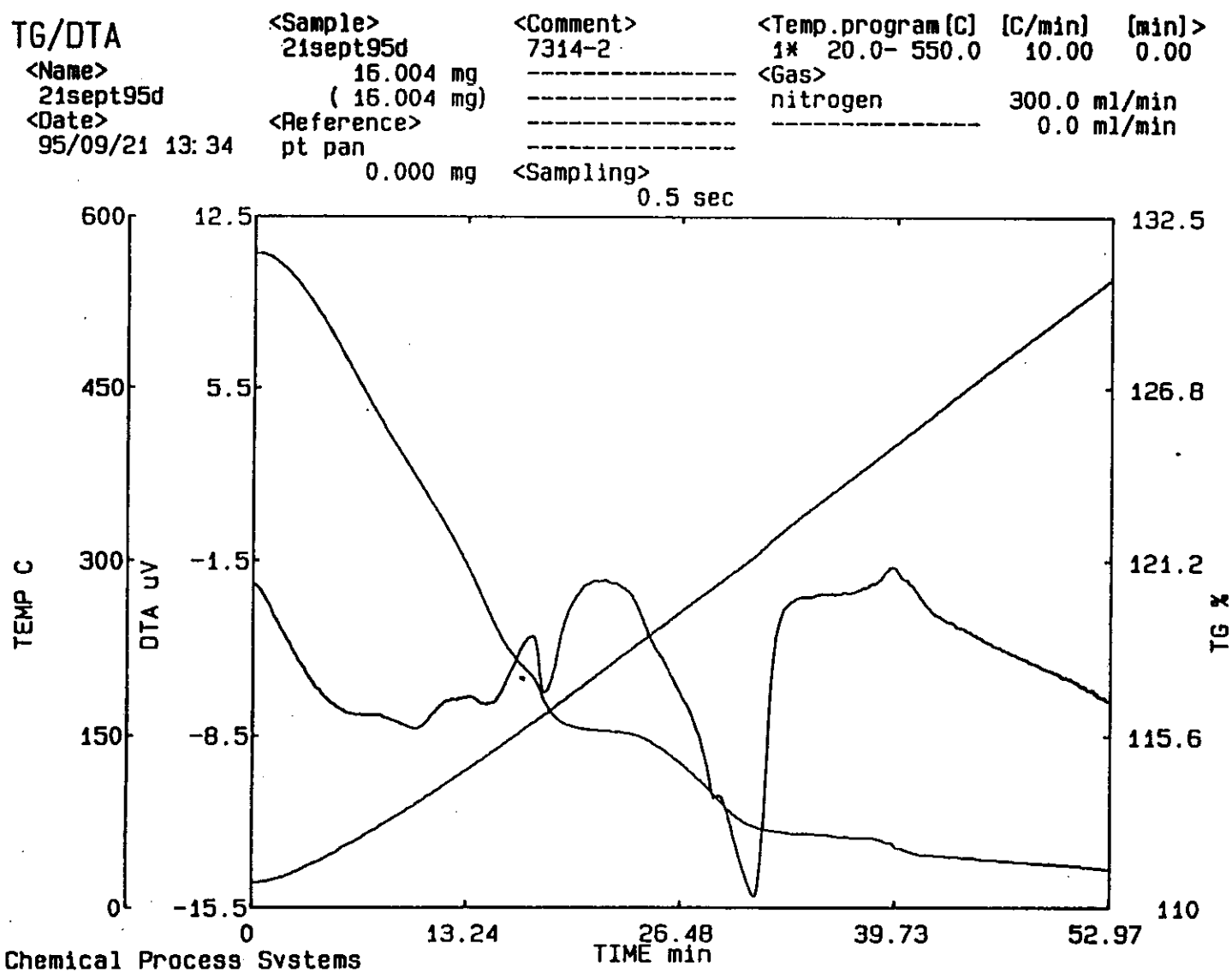

DSC
<Name>
21sept95g
<Date>
95/09/21 16:55
<Sample>
21sept95g
95.068 mg
(35.068 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7315-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
-0.5
-8.5
-16.5
-24.5
-32.5
DSC mW
150
0
-150
-300
-450
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems

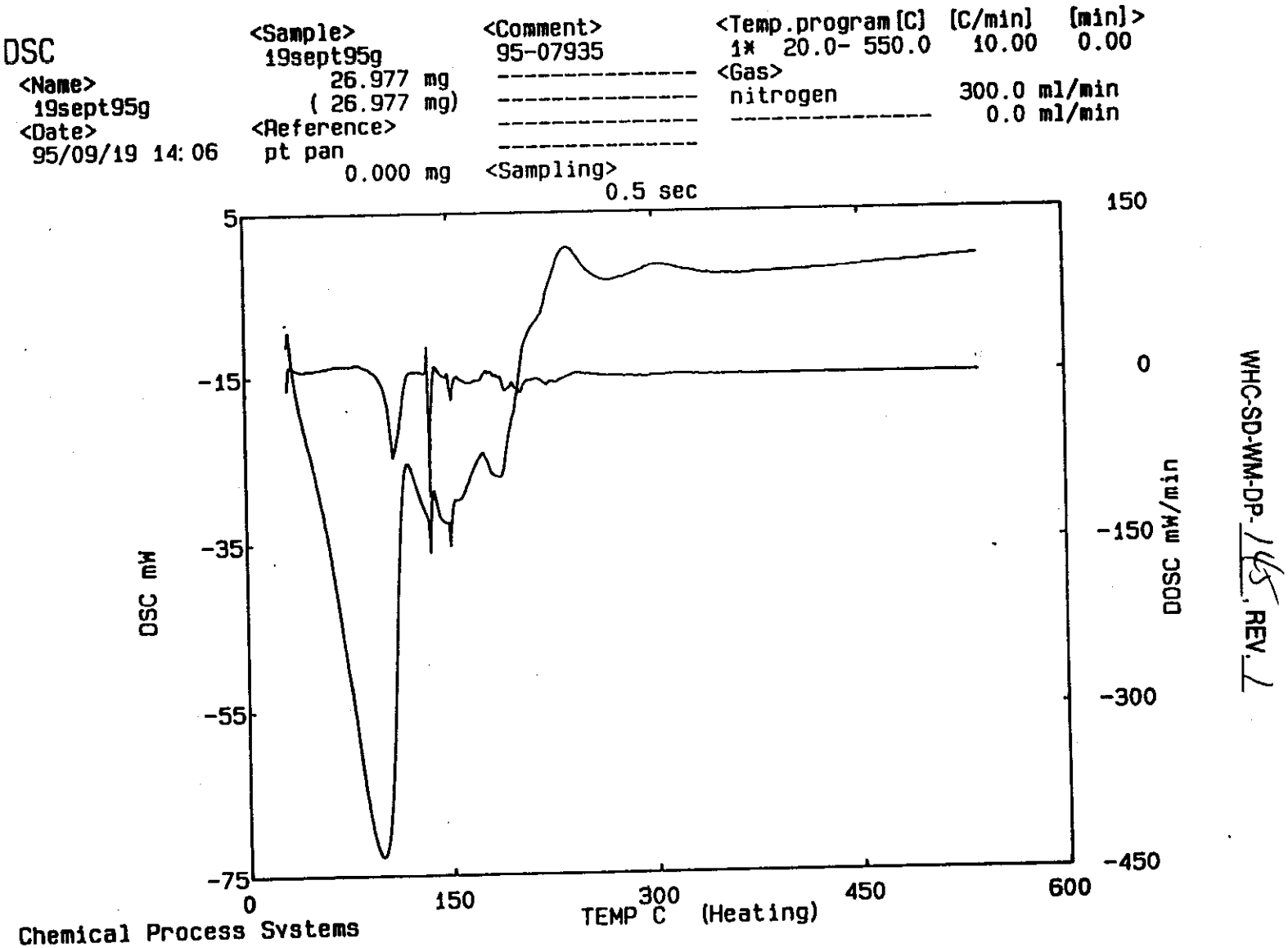

DSC
<Name>
21sept95a
<Date>
95/09/21 09:00
<Sample>
21sept95a
16.036 mg
(16.036 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7314
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
0
-3
-6
-9
-12
25
0
-25
-50
-75
0
150
300
450
600
Chemical Process Systems

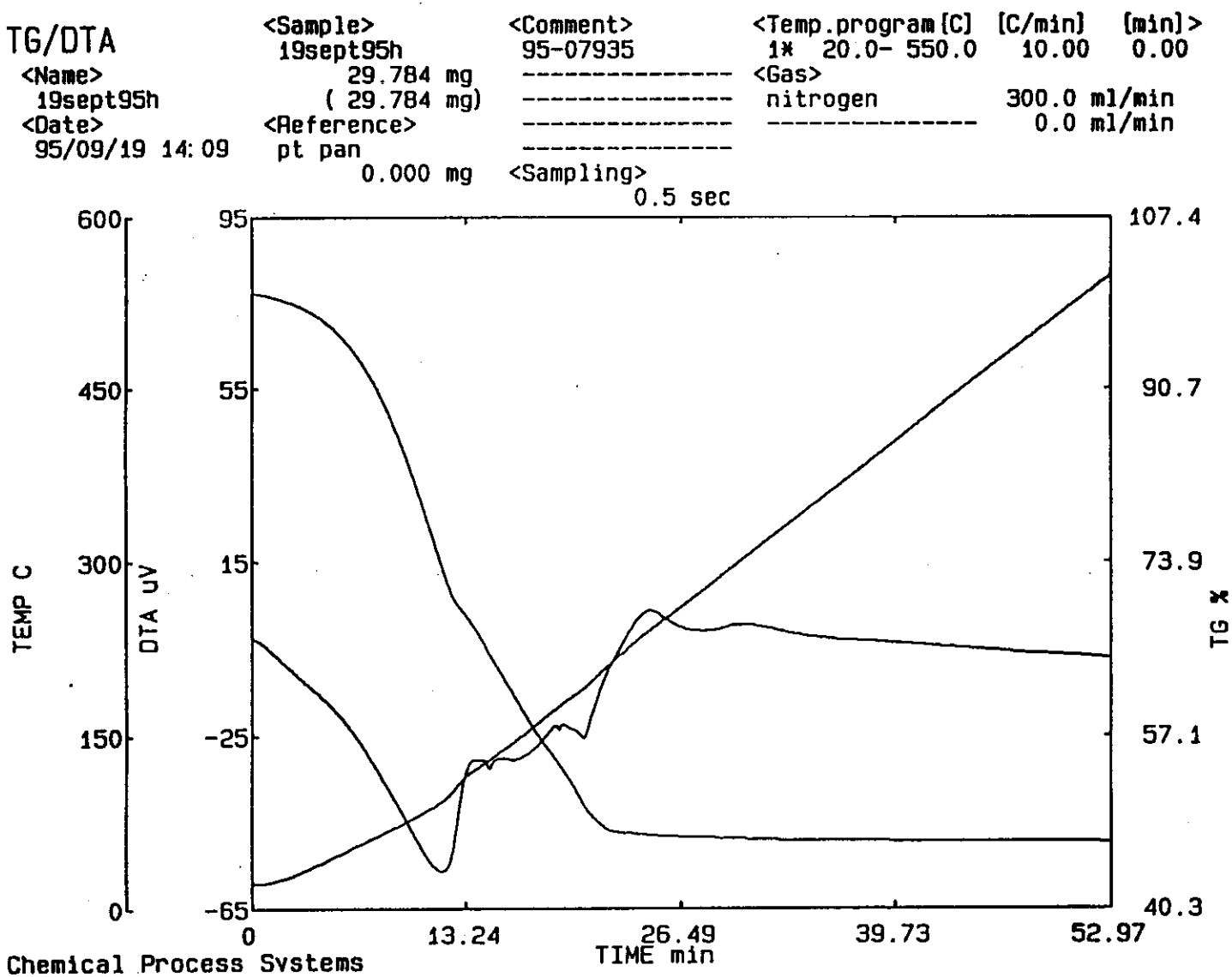

TG/DTA
<Name>
21sept95b
<Date>
95/09/21 09:04
<Sample>
21sept95b
15.063 mg
(15.063 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7314
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
9.5
4.5
-0.5
-5.5
-10.5
DTA uV
101.2
95.3
89.3
83.3
77.3
TG %
0
13.25
26.5
39.74
52.99
TIME min
Chemical Process Systems

C-1


DSC
<Name>
21sept95c
<Date>
95/09/21 13:34
<Sample>
21sept95c
16.004 mg
(16.004 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7314-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
21sept95d
<Date>
95/09/21 13:34
<Sample>
21sept95d
16.004 mg
(16.004 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7314-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
12.5
5.5
-1.5
-8.5
-15.5
DTA uV
132.5
126.8
121.2
115.6
110
TG %
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems


DSC
<Name>
19sept95g
<Date>
95/09/19 14:06
<Sample>
19sept95g
26.977 mg
(26.977 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07935
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept95h
<Date>
95/09/19 14:09
<Sample>
19sept95h
29.784 mg
(29.784 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07935
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
95
55
15
-25
-65
DTA uV
107.4
90.7
73.9
57.1
40.3
TG %
0
13.24
26.49
39.73
52.97
TIME min
Chemical Process Systems

DSC

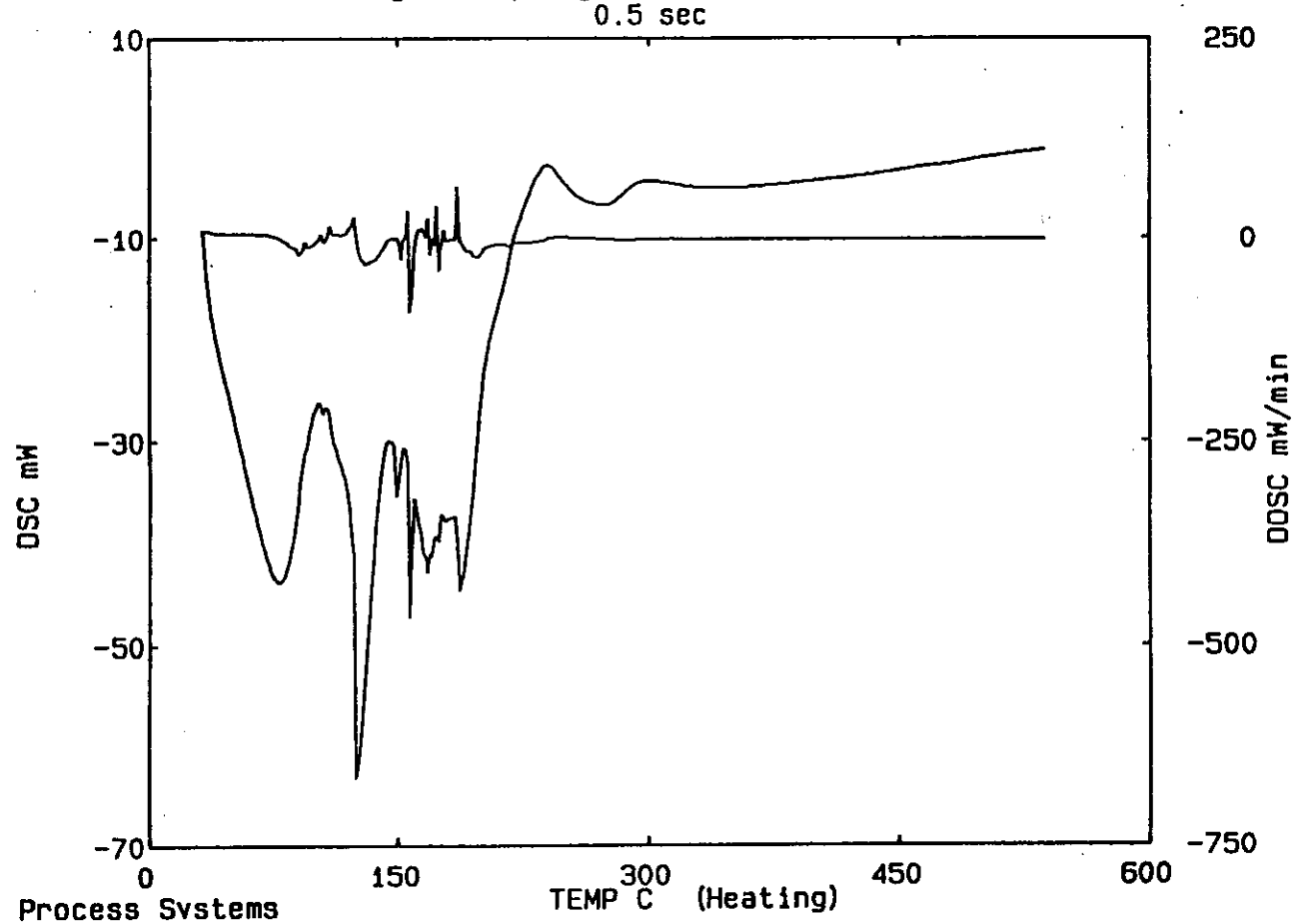
<Name>
19sept95i
<Date>
95/09/19 16:58

<Sample>
19sept95i
24.205 mg
(24.205 mg)
<Reference>
pt pan
0.000 mg

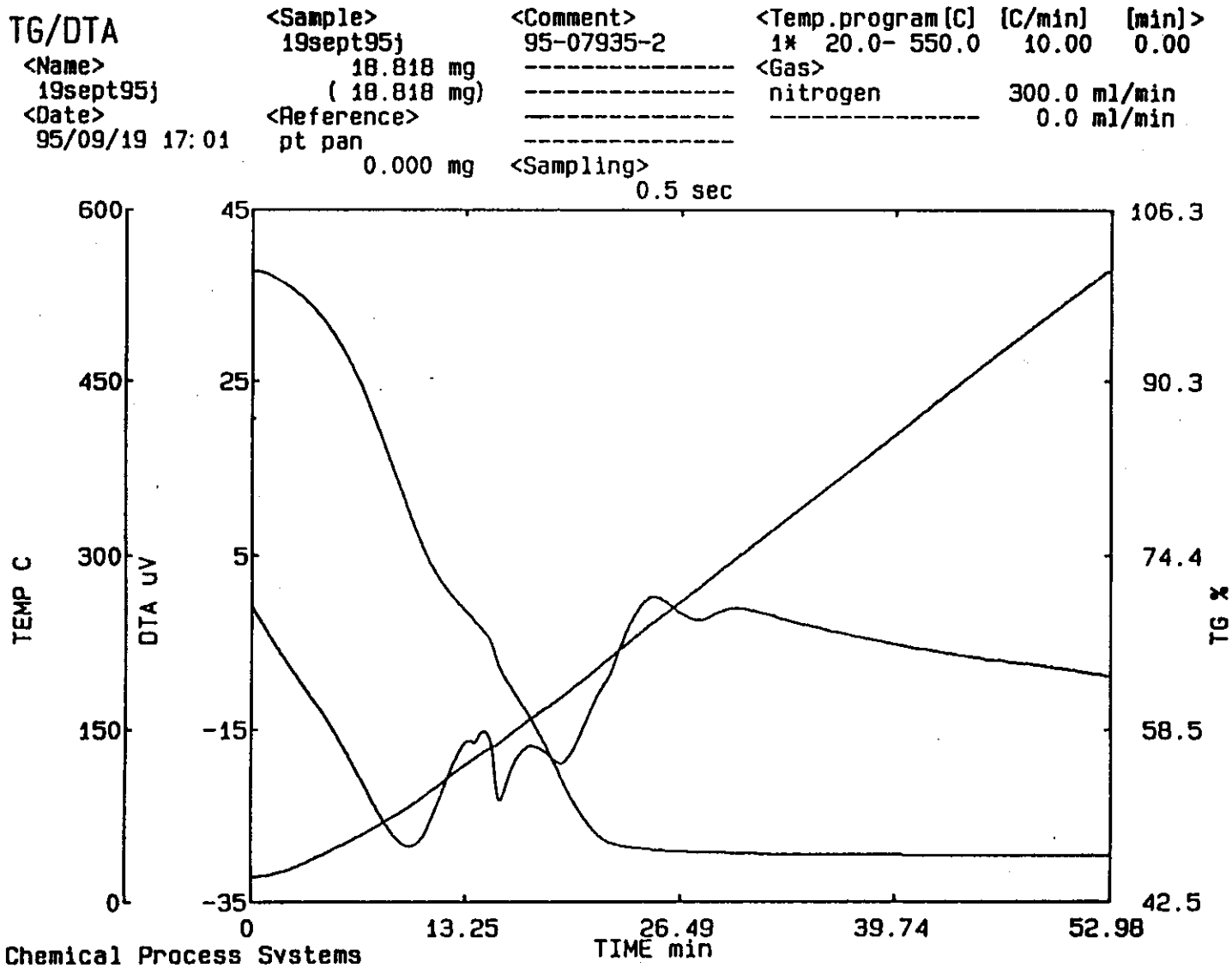
<Comment>
95-07935-2

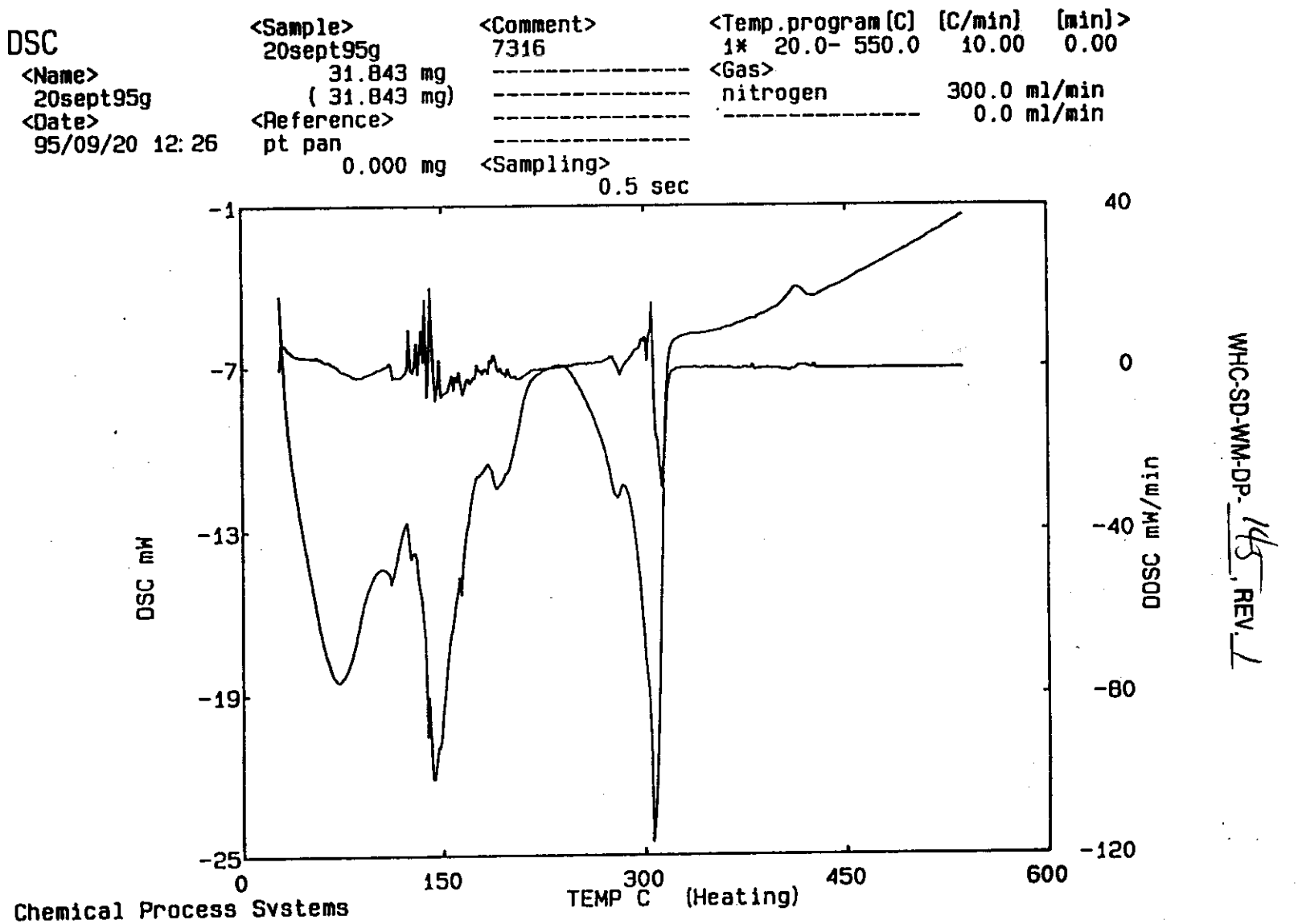
<Sampling>
0.5 sec

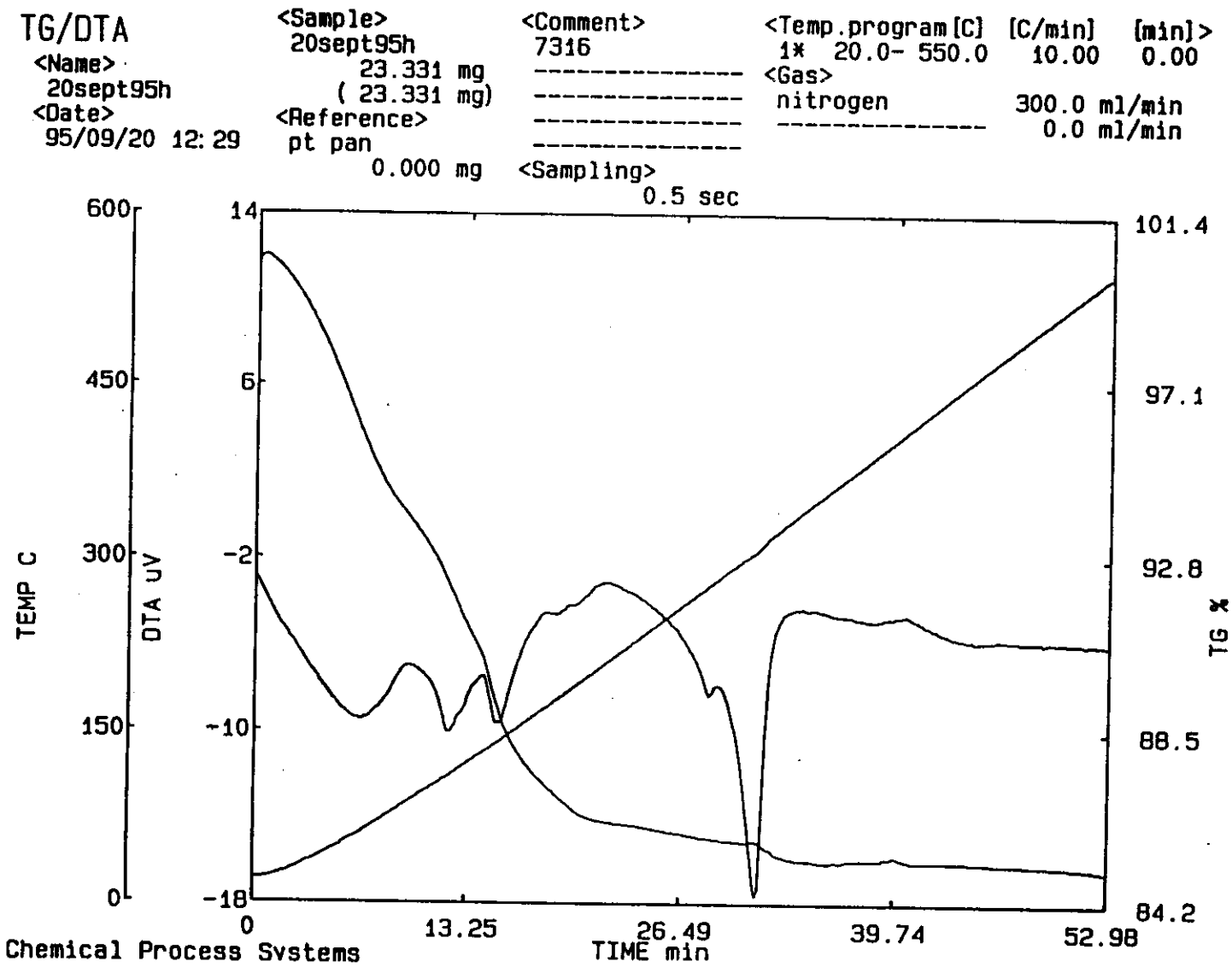
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
---------- 0.0 ml/min

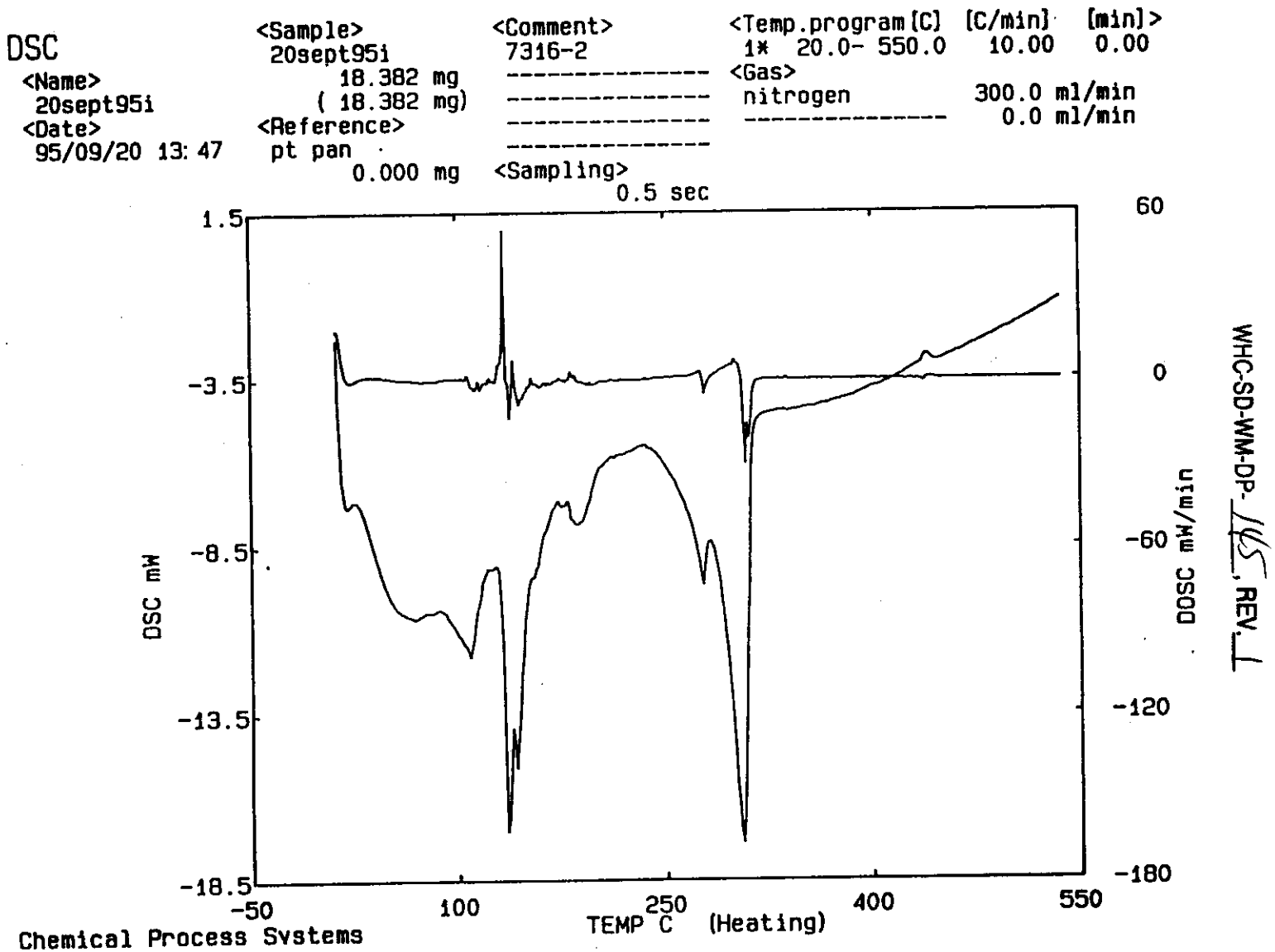


Chemical Process Systems

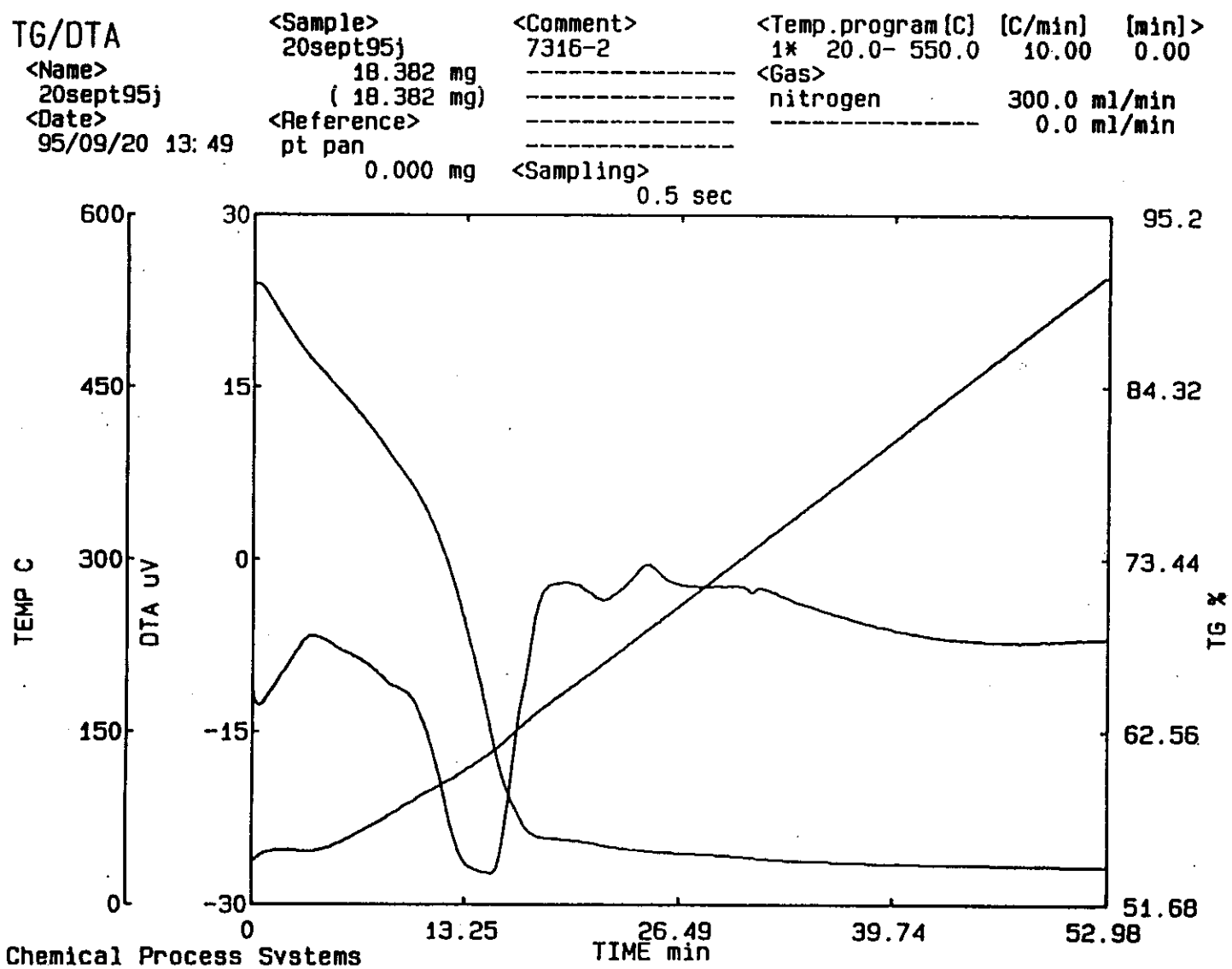

TG/DTA
<Name>
19sept95j
<Date>
95/09/19 17:01
<Sample>
19sept95j
18.818 mg
(18.818 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07935-2
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
45
25
5
-15
-35
DTA UV
106.3
90.3
74.4
58.5
42.5
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

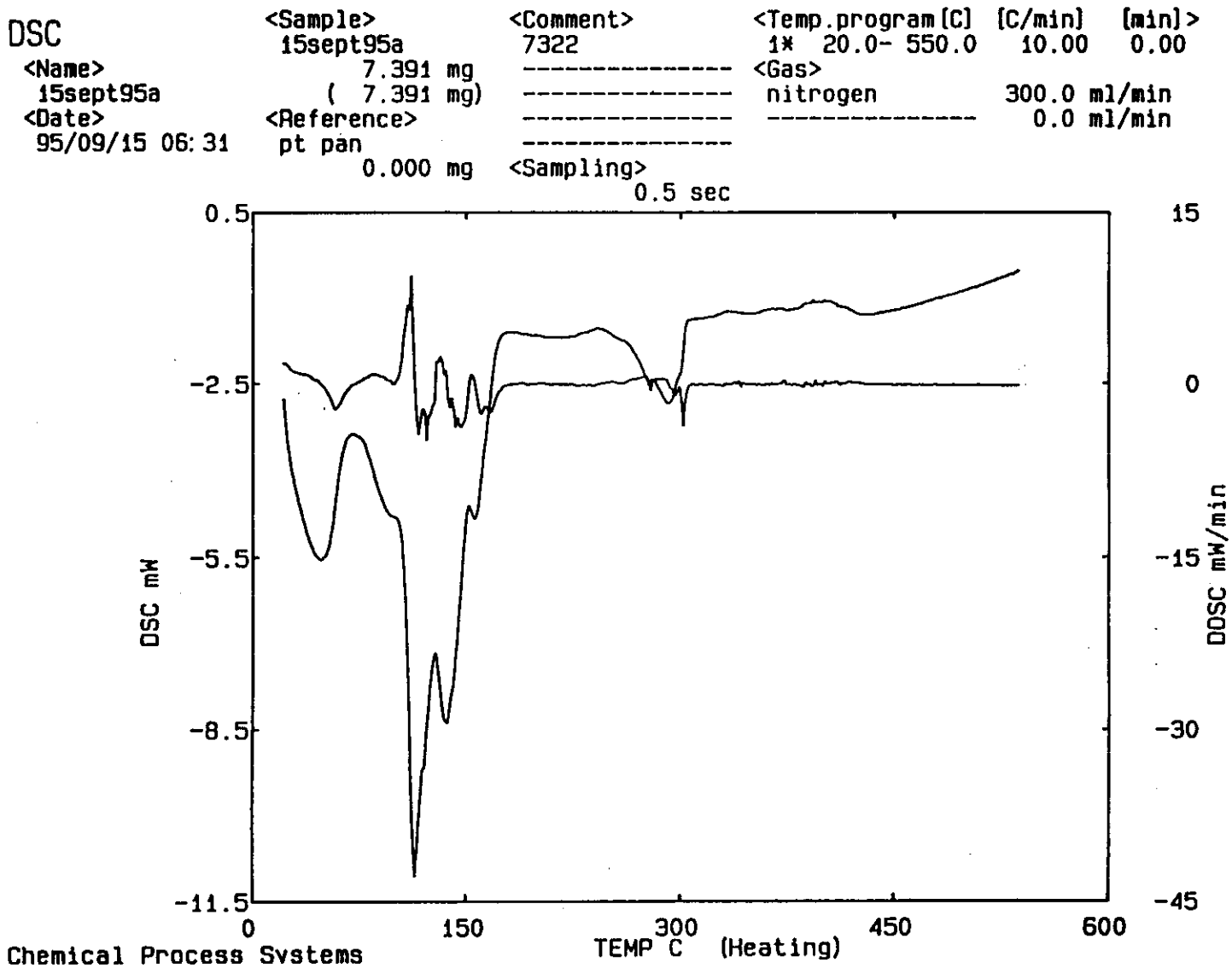

DSC
<Name>
20sept95g
<Date>
95/09/20 12:26
<Sample>
20sept95g
31.843 mg
(31.843 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7316
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
-1
-7
-13
-19
-25
40
0
-40
-80
-120
0
150
300
450
600
Chemical Process Systems

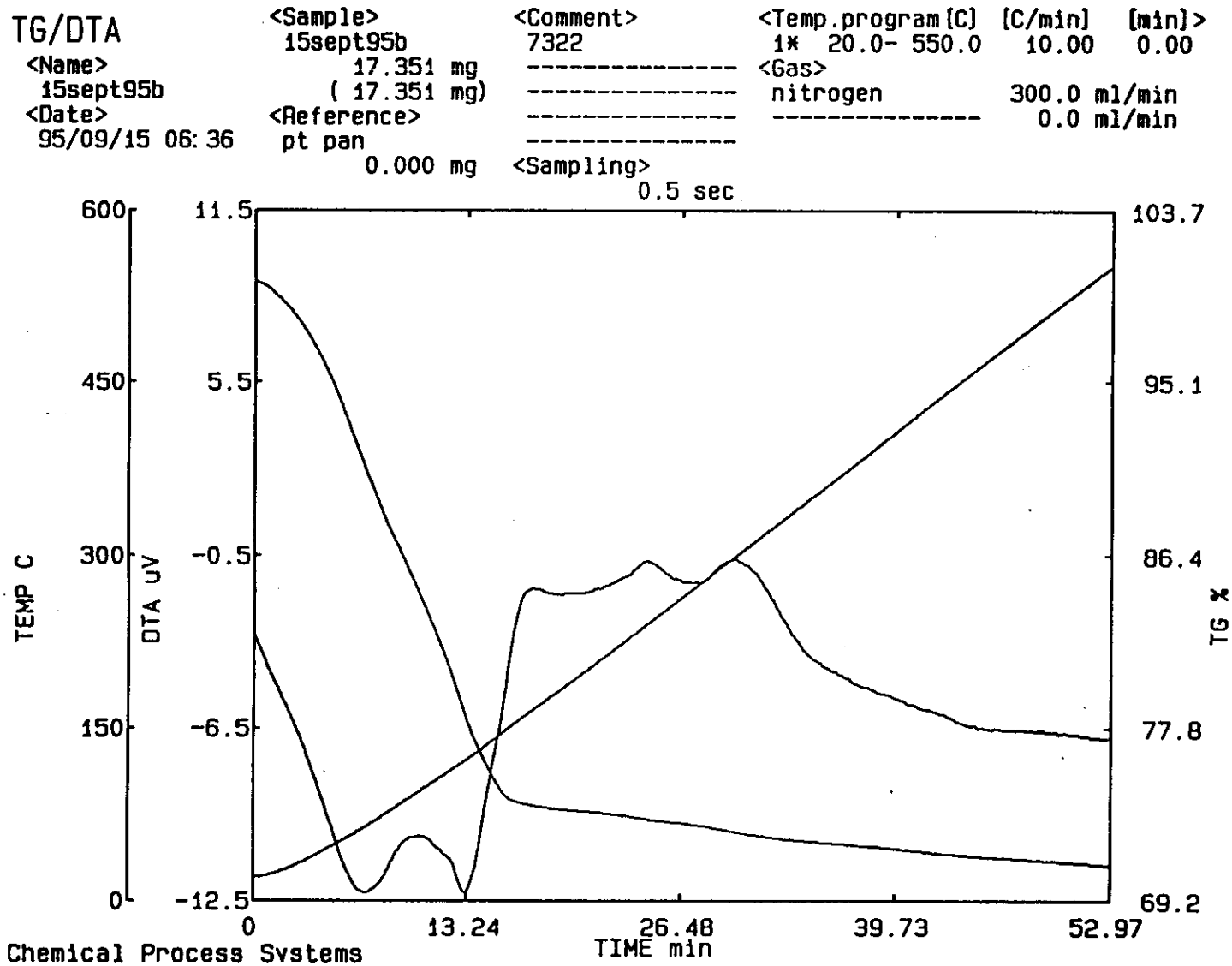

TG/DTA
<Name>
20sept95h
<Date>
95/09/20 12:29
<Sample>
20sept95h
23.331 mg
(23.331 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7316
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
TEMP C
DTA uV
TG %
600
450
300
150
0
14
6
-2
-10
-18
101.4
97.1
92.8
88.5
84.2
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

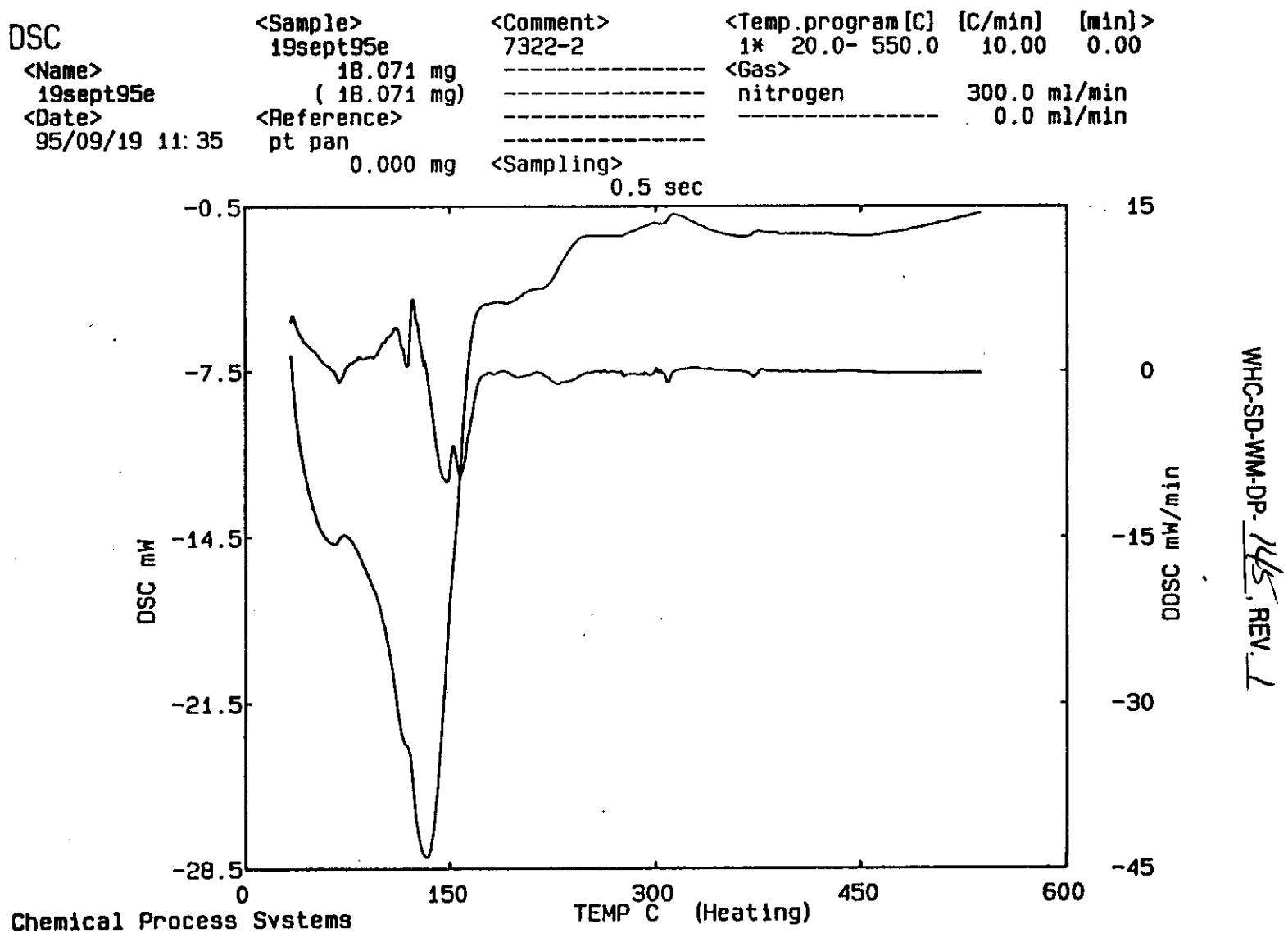


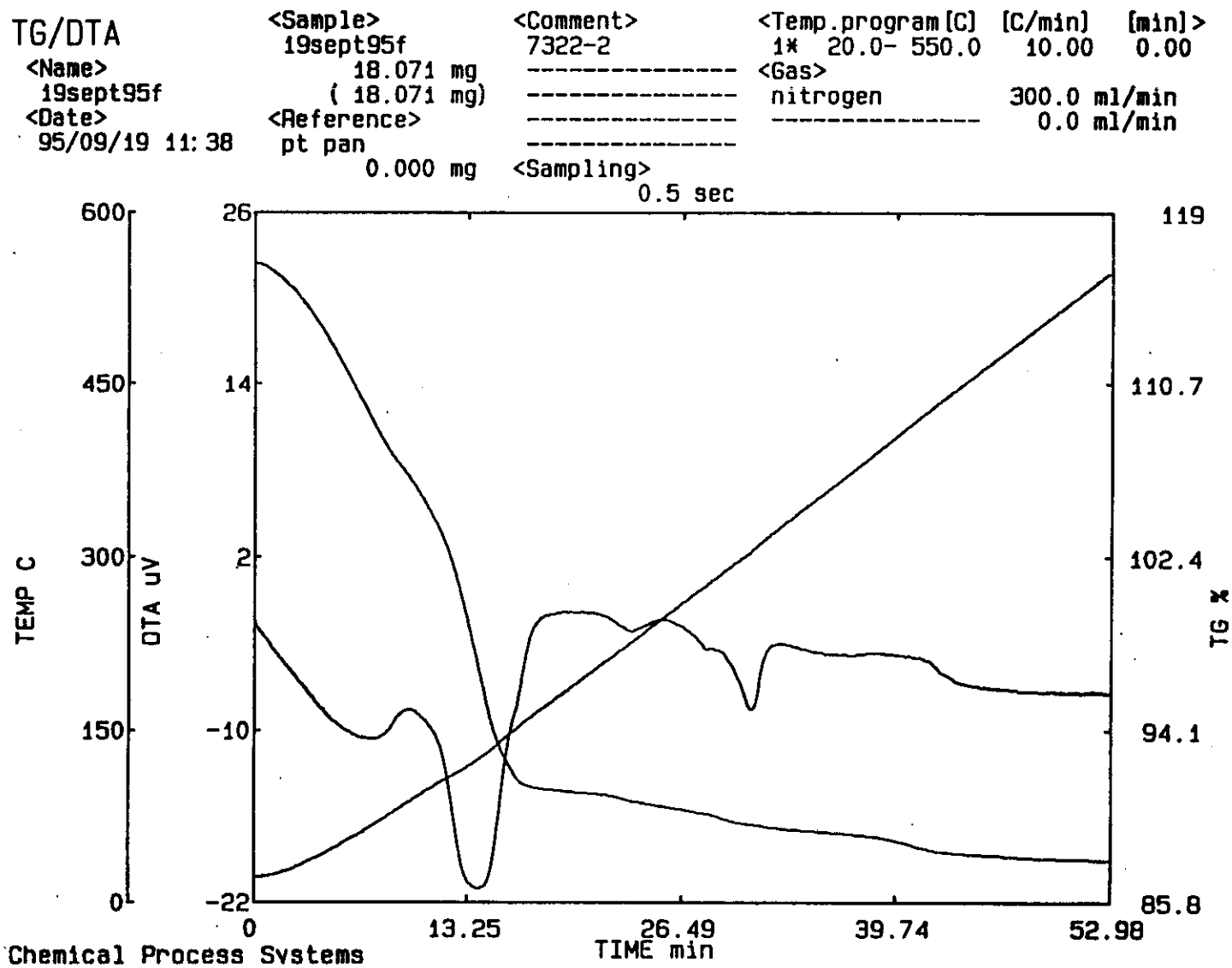
WHC-SD-WM-DP-[illegible], REV. 1

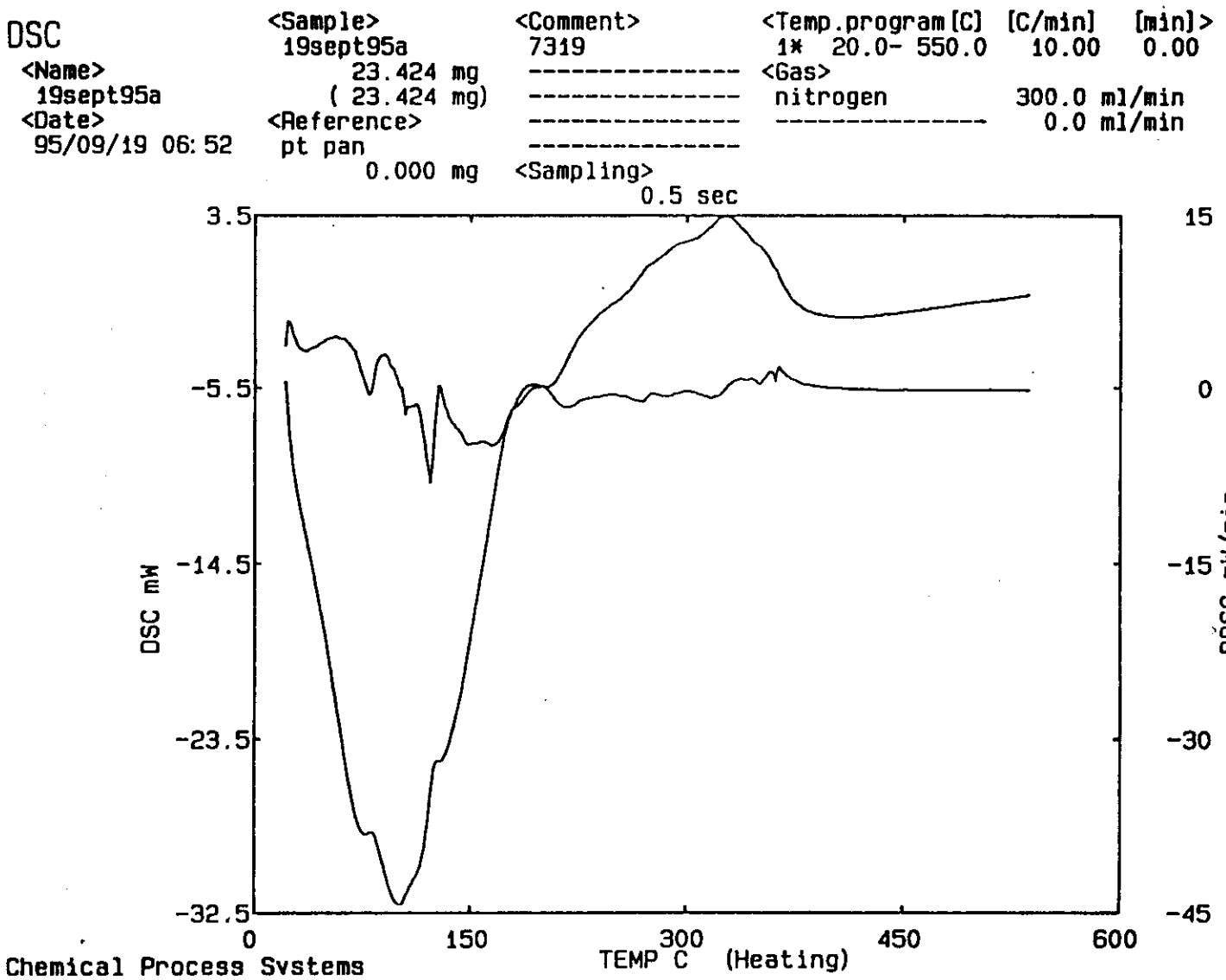

TG/DTA
<Name>
20sept95j
<Date>
95/09/20 13:49
<Sample>
20sept95j
18.382 mg
(18.382 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7316-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
30
15
0
-15
-30
DTA uV
95.2
84.32
73.44
62.56
51.68
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

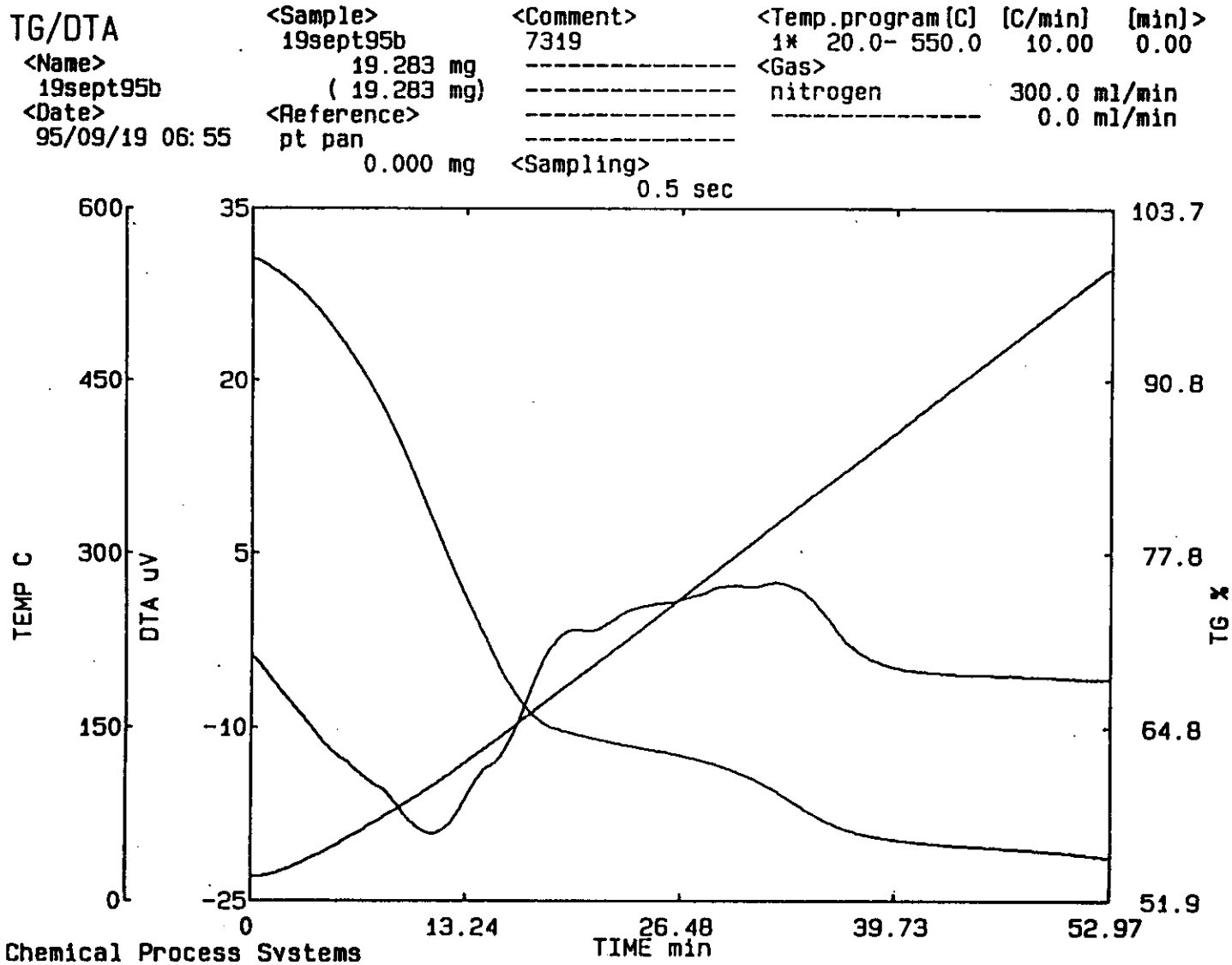

DSC
<Name>
15sept95a
<Date>
95/09/15 06:31
<Sample>
15sept95a
7.391 mg
(7.391 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7322
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
0.5
-2.5
-5.5
-8.5
-11.5
DSC mW
15
0
-15
-30
-45
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems

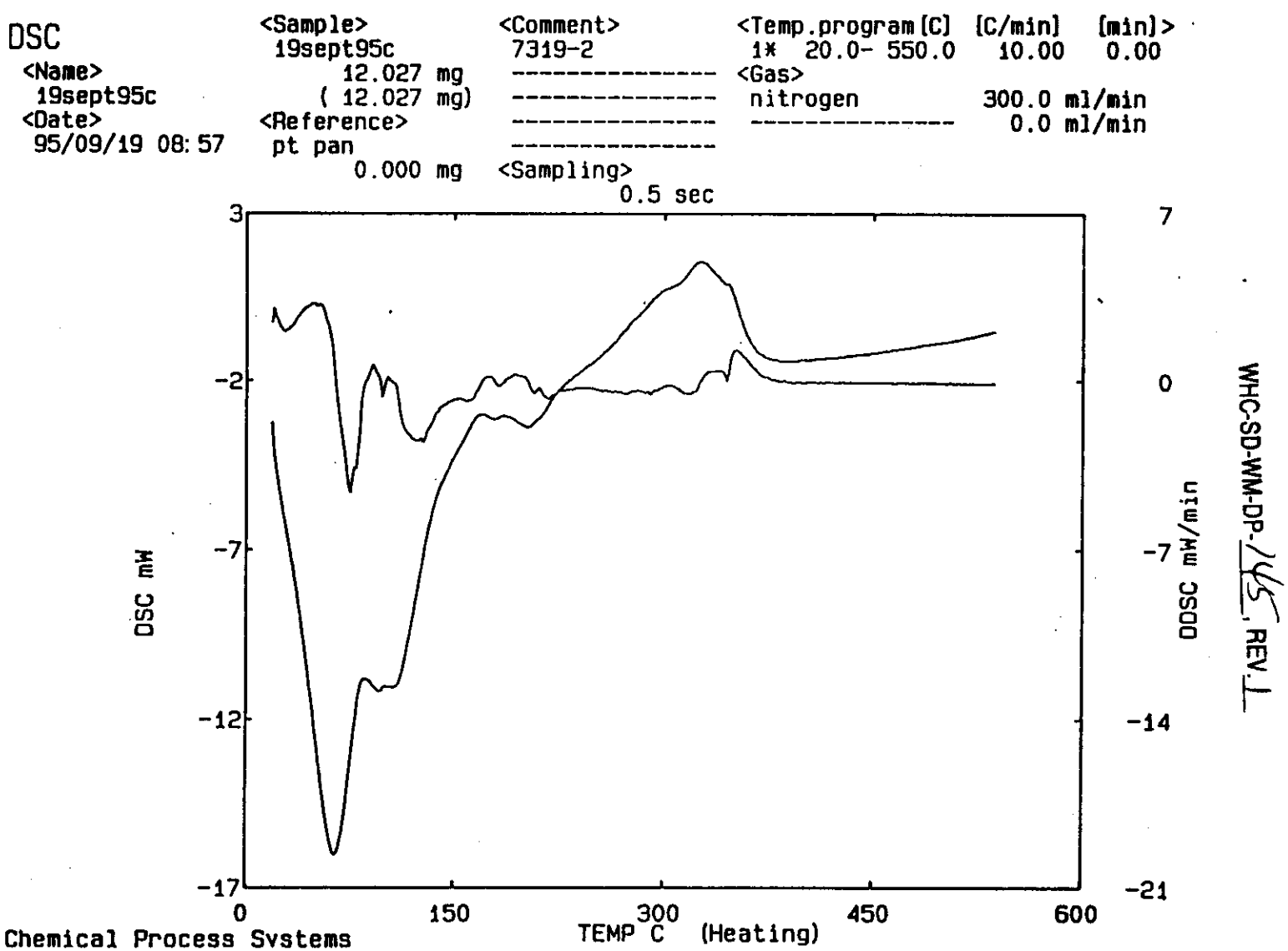

TG/DTA
<Name>
15sept95b
<Date>
95/09/15 06:36
<Sample>
15sept95b
17.351 mg
(17.351 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7322
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
11.5
5.5
-0.5
-6.5
-12.5
DTA uV
103.7
95.1
86.4
77.8
69.2
TG %
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems

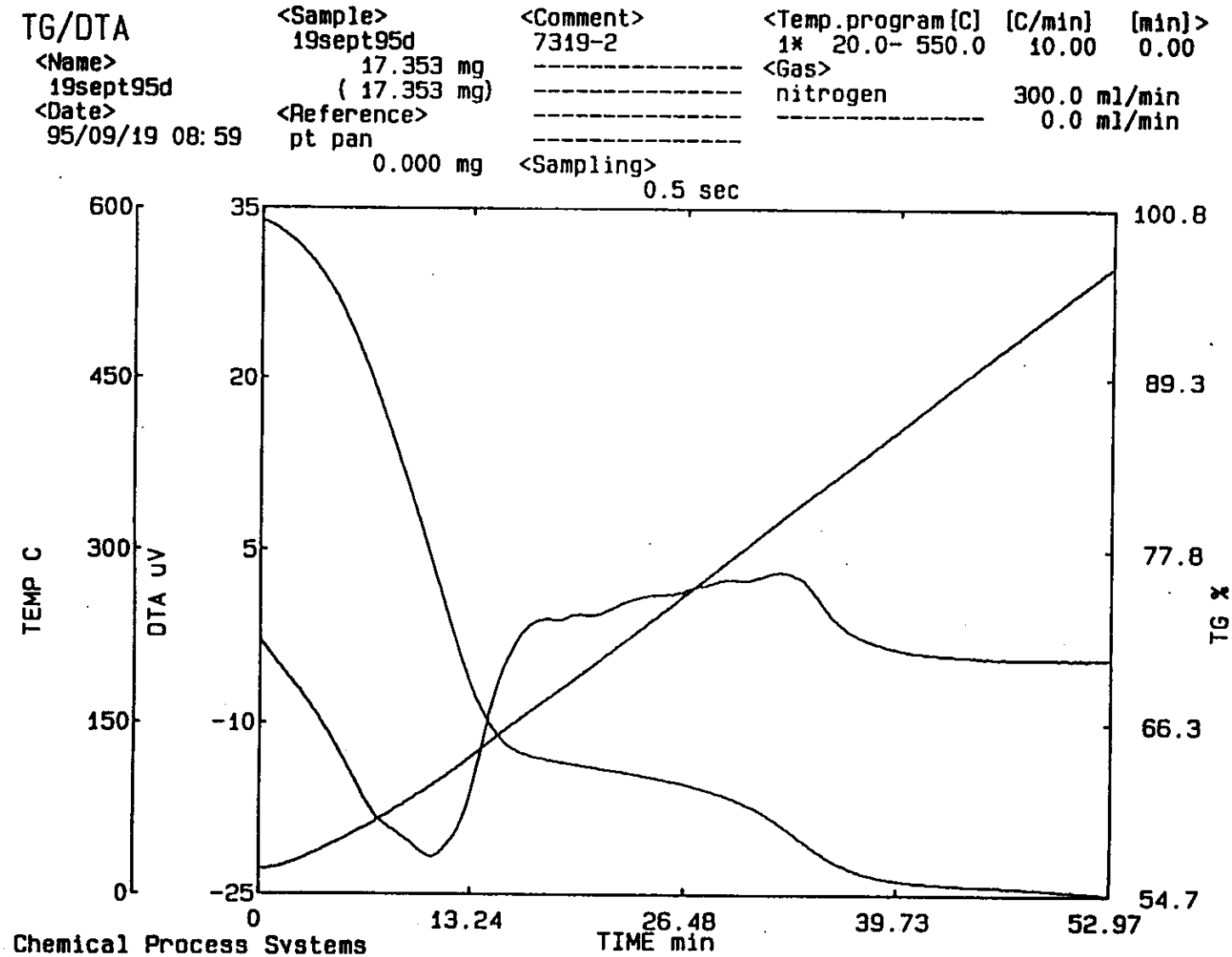

DSC
<Name>
19sept95e
<Date>
95/09/19 11:35
<Sample>
19sept95e
18.071 mg
(18.071 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7322-2
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
-0.5
-7.5
-14.5
-21.5
-28.5
DSC mW
15
0
-15
-30
-45
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept95f
<Date>
95/09/19 11:38
<Sample>
19sept95f
18.071 mg
(18.071 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7322-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
26
14
2
-10
-22
DTA uV
119
110.7
102.4
94.1
85.8
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems


DSC
<Name>
19sept95a
<Date>
95/09/19 06:52
<Sample>
19sept95a
23.424 mg
(23.424 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7319
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
3.5
-5.5
-14.5
-23.5
-32.5
DSC mW
15
0
-15
-30
-45
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept95b
<Date>
95/09/19 06:55
<Sample>
19sept95b
19.283 mg
(19.283 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7319
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
35
20
5
-10
-25
DTA uV
103.7
90.8
77.8
64.8
51.9
TG %
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems


DSC
<Name>
19sept95c
<Date>
95/09/19 08:57
<Sample>
19sept95c
12.027 mg
(12.027 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7319-2
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DSC mW/min
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept95d
<Date>
95/09/19 08:59
<Sample>
19sept95d
17.353 mg
(17.353 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7319-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
35
20
5
-10
-25
DTA uV
100.8
89.3
77.8
66.3
54.7
TG %
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems

DSC

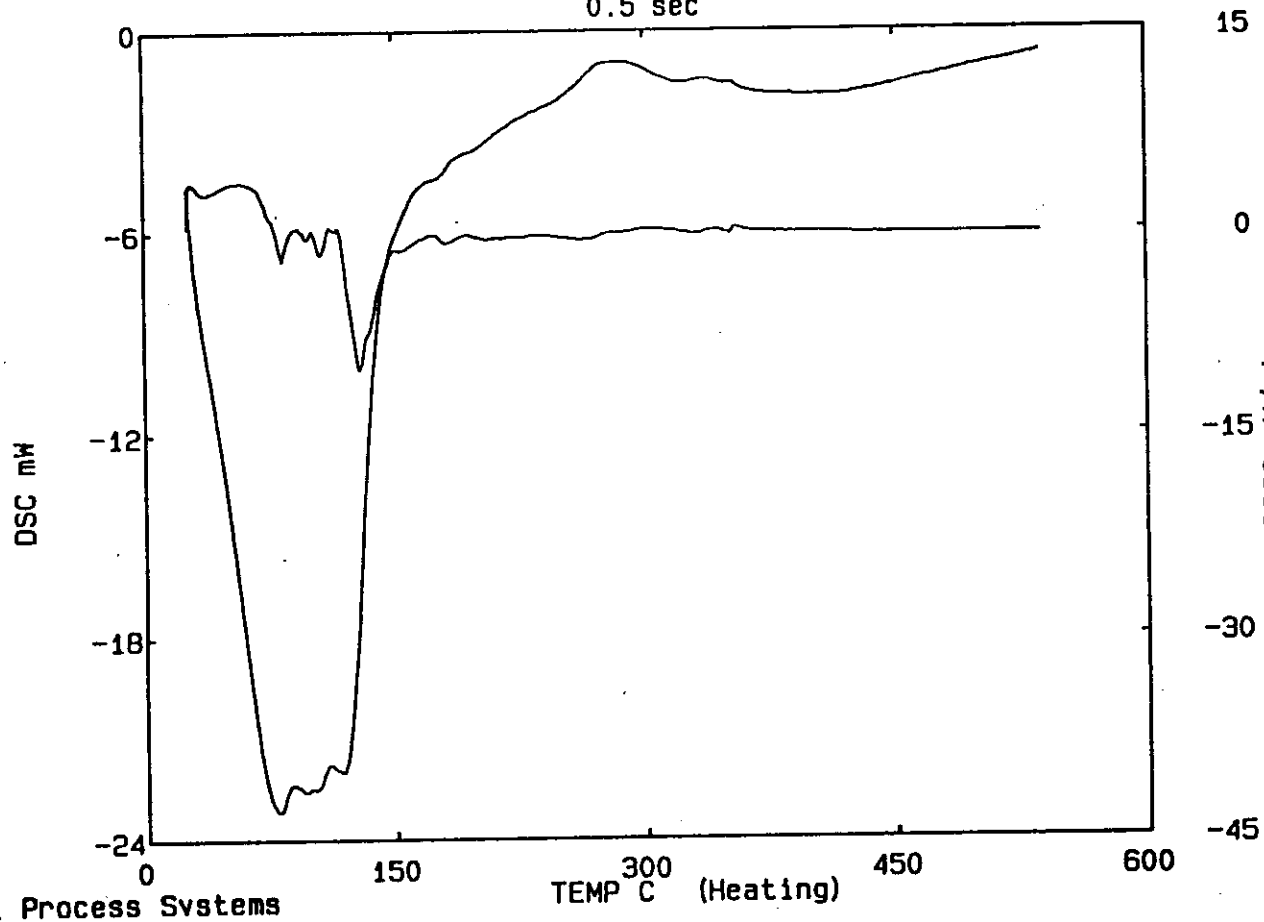
<Name>
18sept95e
<Date>
95/09/18 17:33

<Sample>
18sept95e
15.000 mg
(15.000 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7318

<Sampling>
0.5 sec

<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

TG/DTA

<Name>
18sept95f
<Date>
95/09/18 17:35

<Sample>
18sept95f
11.944 mg
(11.944 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7318

<Sampling>
0.5 sec

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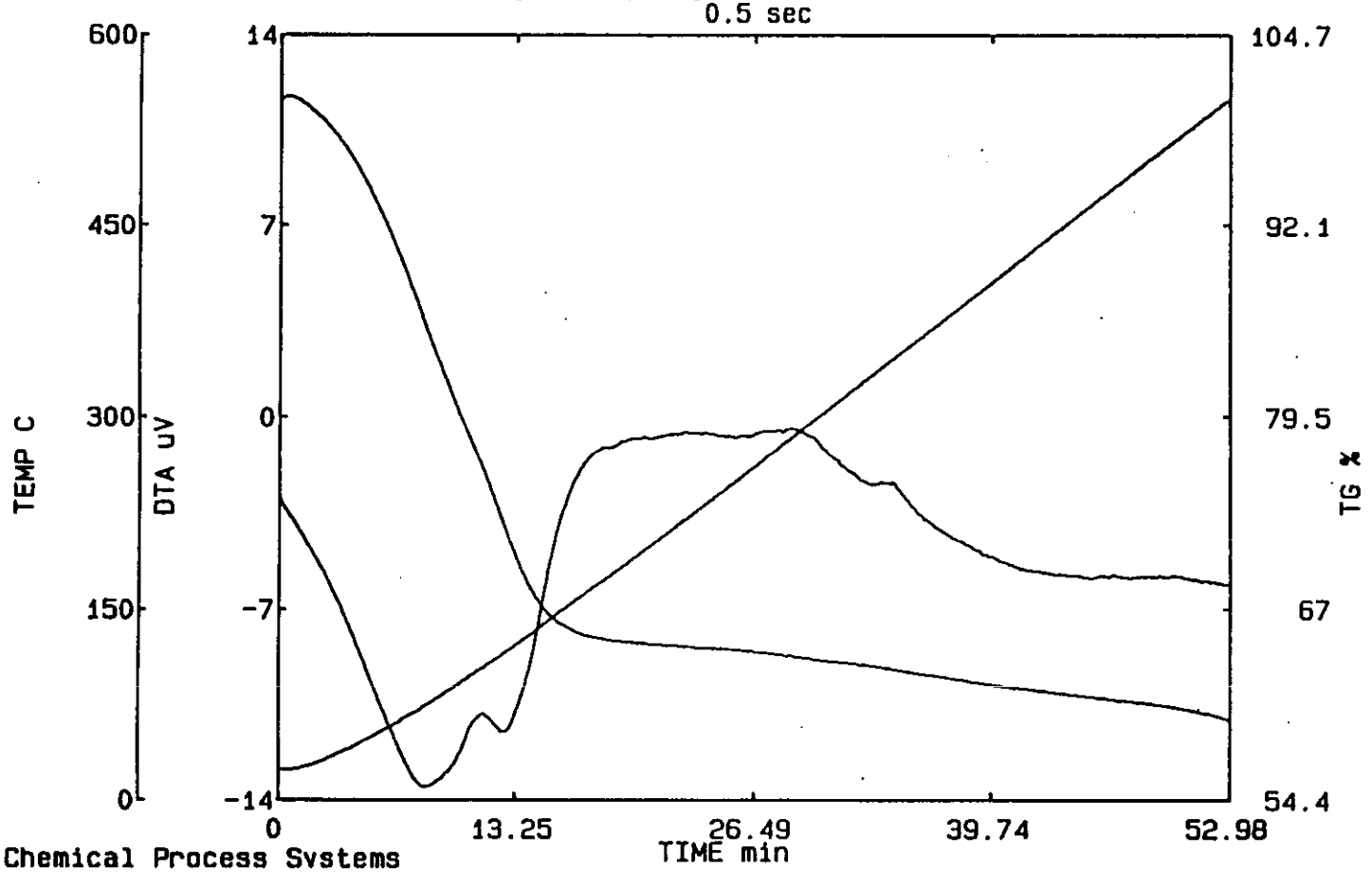
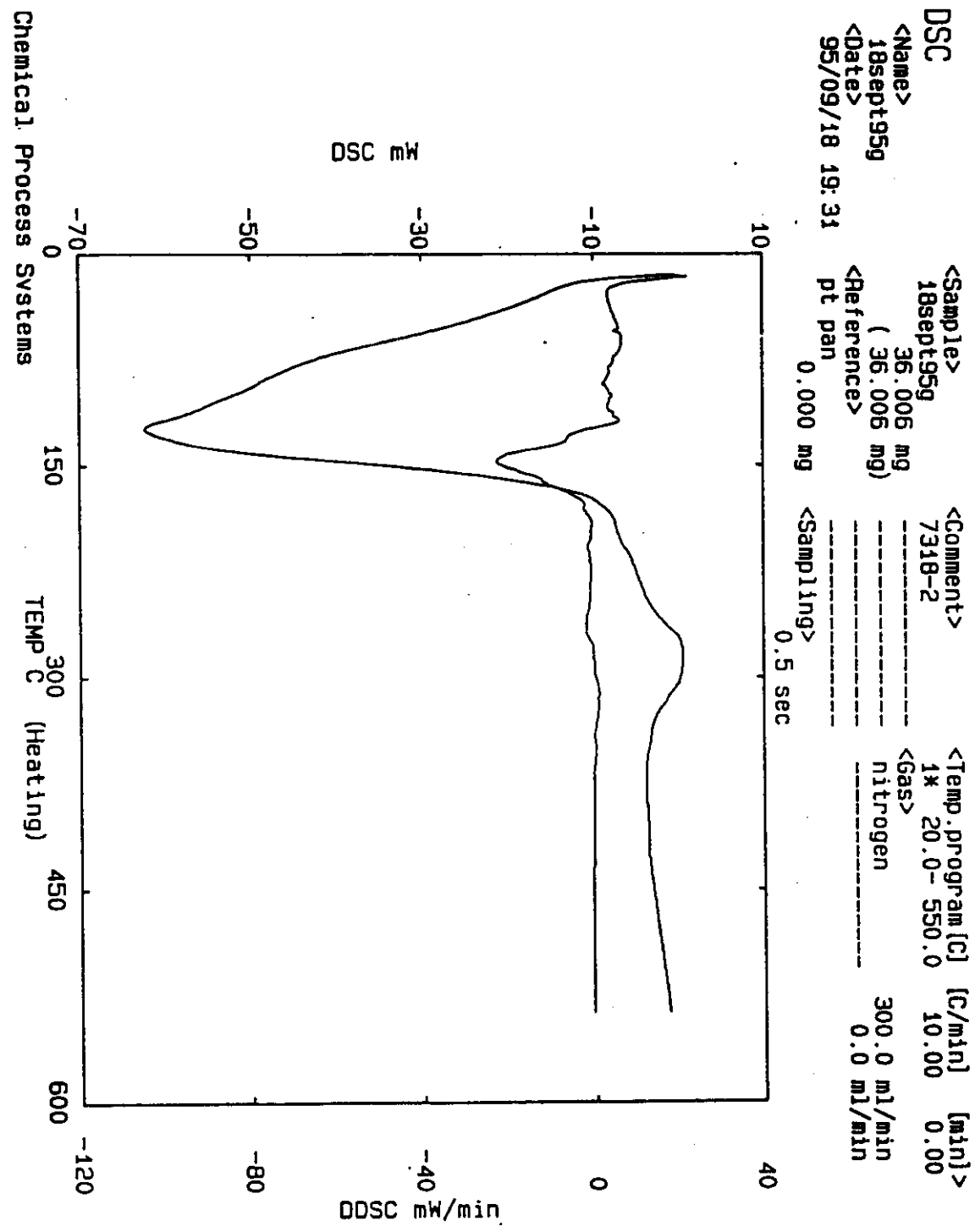
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min




DSC
<Name>
18sept95g
<Date>
95/09/18 19:31
<Sample>
18sept95g
36.006 mg
(36.006 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7318-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C
Chemical Process Systems
(Heating)

TG/DTA

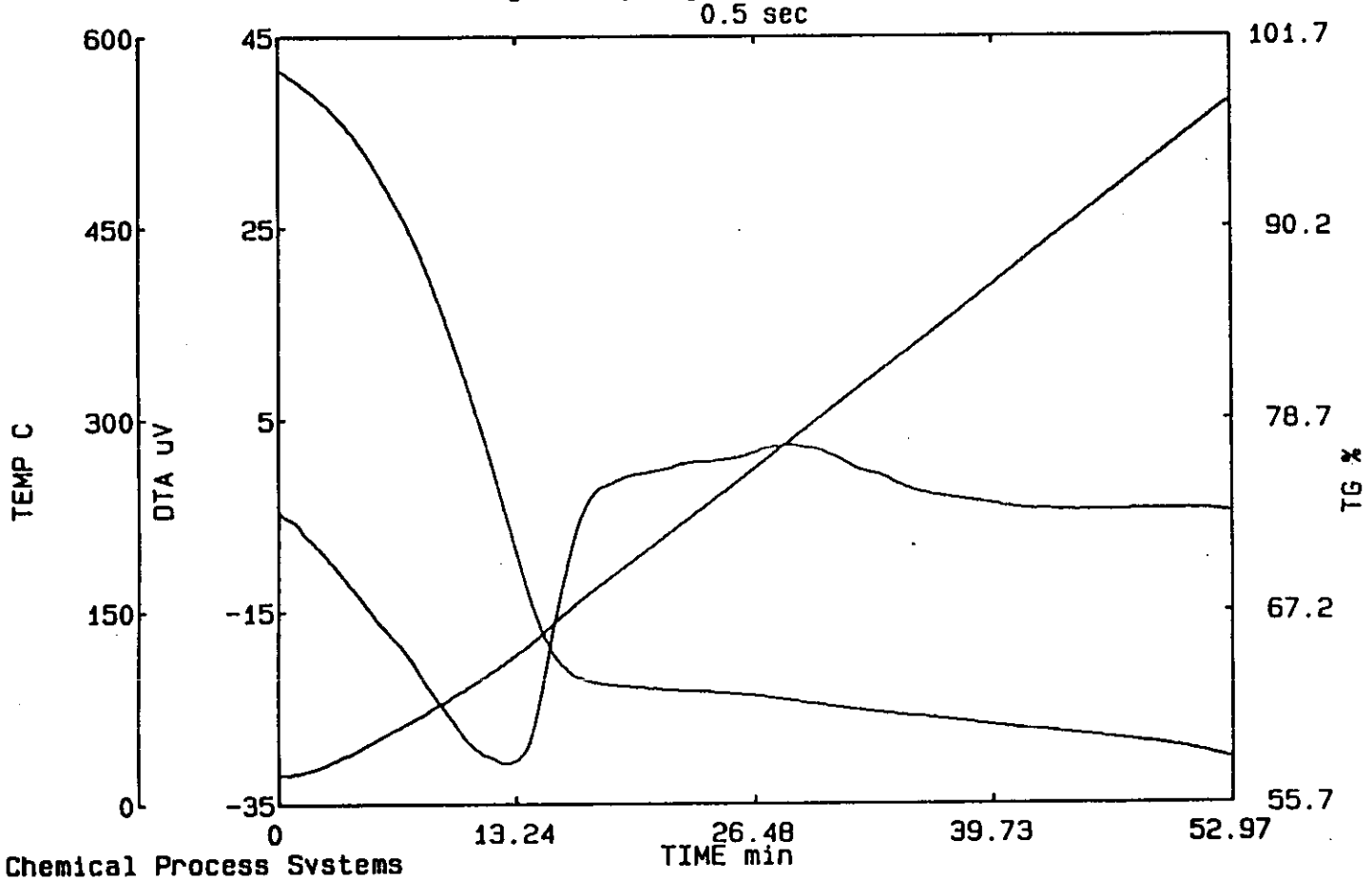
<Name>
18sept95h
<Date>
95/09/18 19:34

<Sample>
18sept95h
26.051 mg
(26.051 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7318-2

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



I-52

DSC

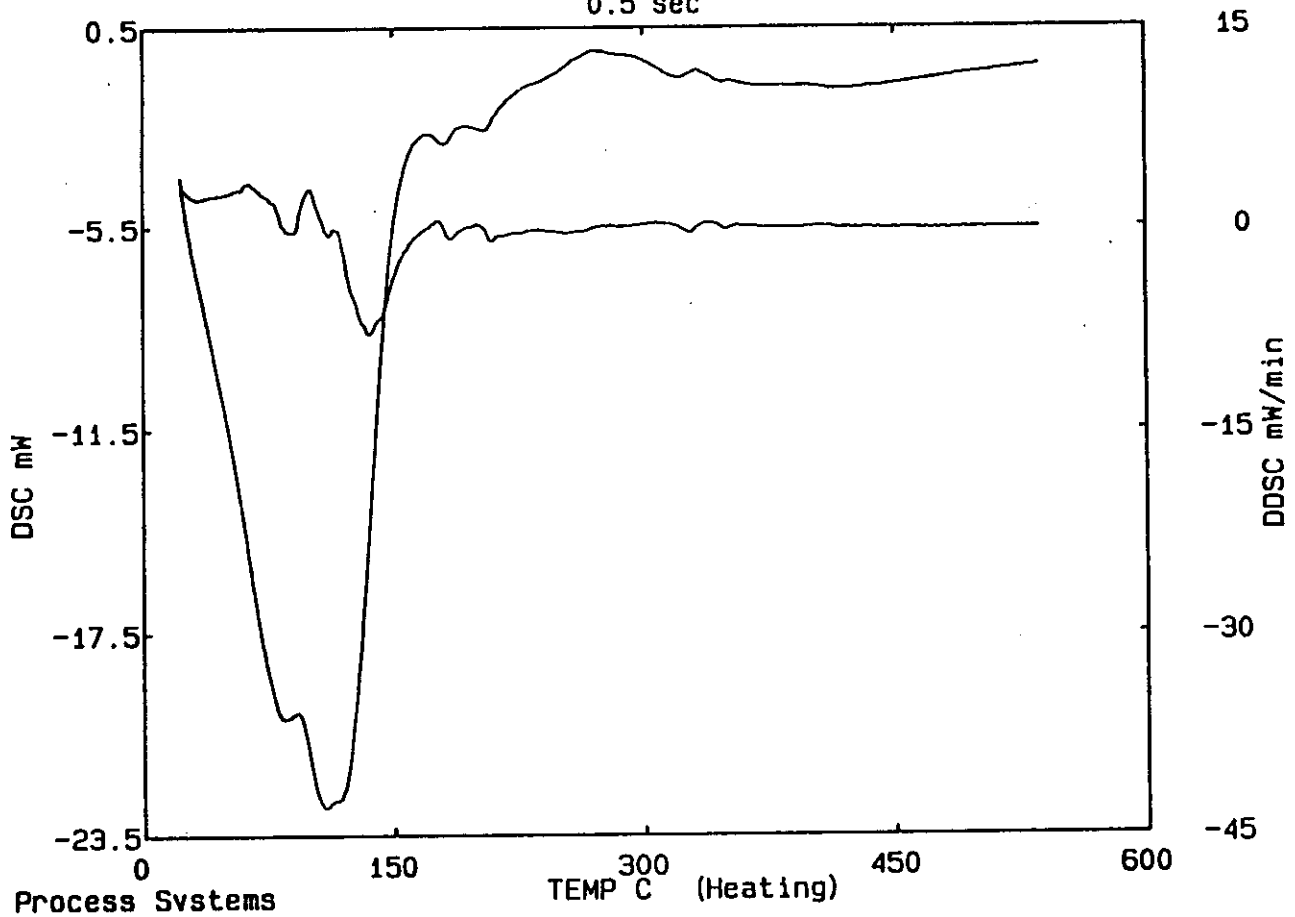
<Name>
18sept95a
<Date>
95/09/18 09:46

<Sample>
18sept95a
13.397 mg
(13.397 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7317

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

TG/DTA

<Name>
18sept95b

<Date>
95/09/18 09:49

<Sample>
18sept95b
14.483 mg
(14.483 mg)

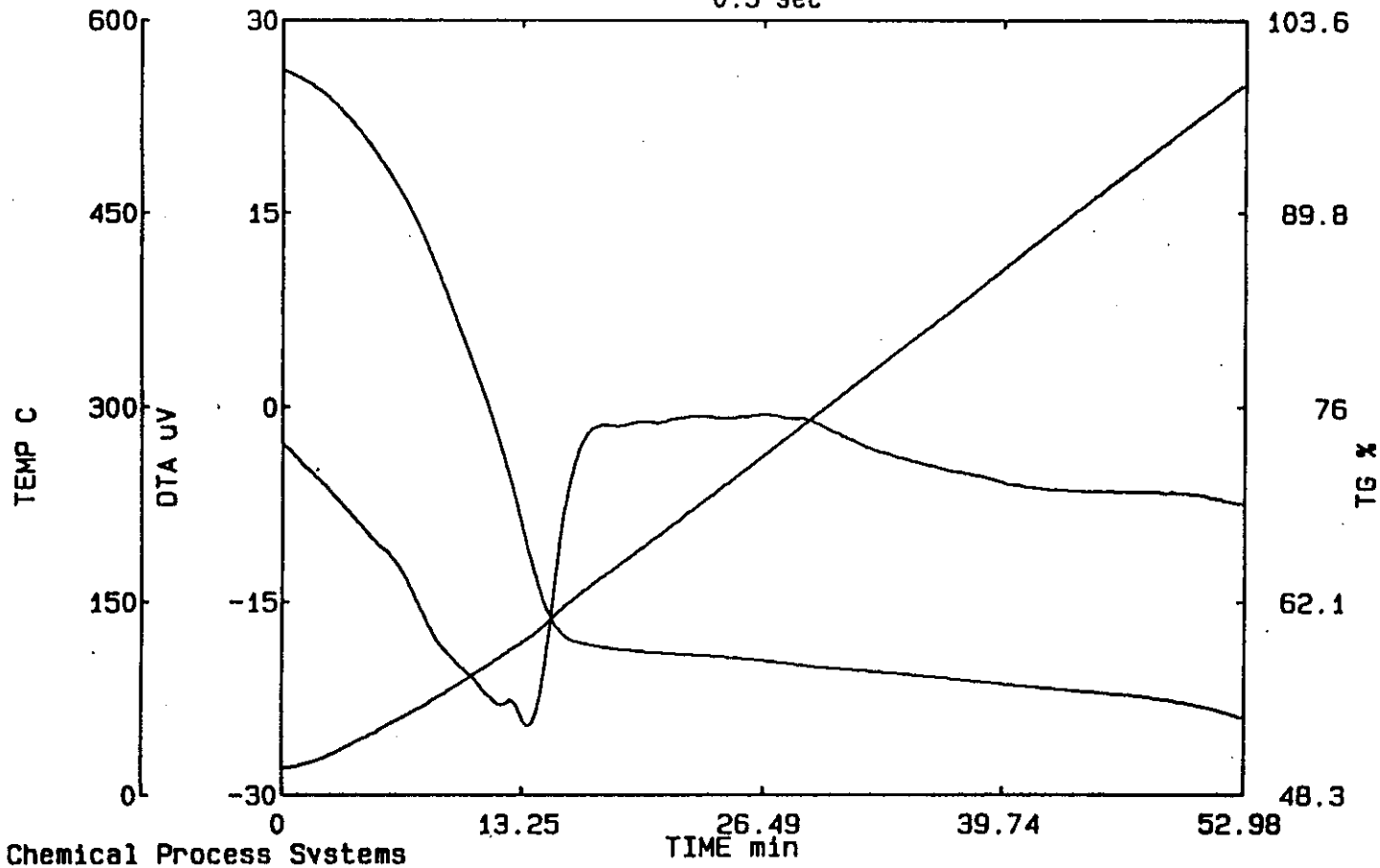
<Reference>
pt pan
0.000 mg

<Comment>
7317

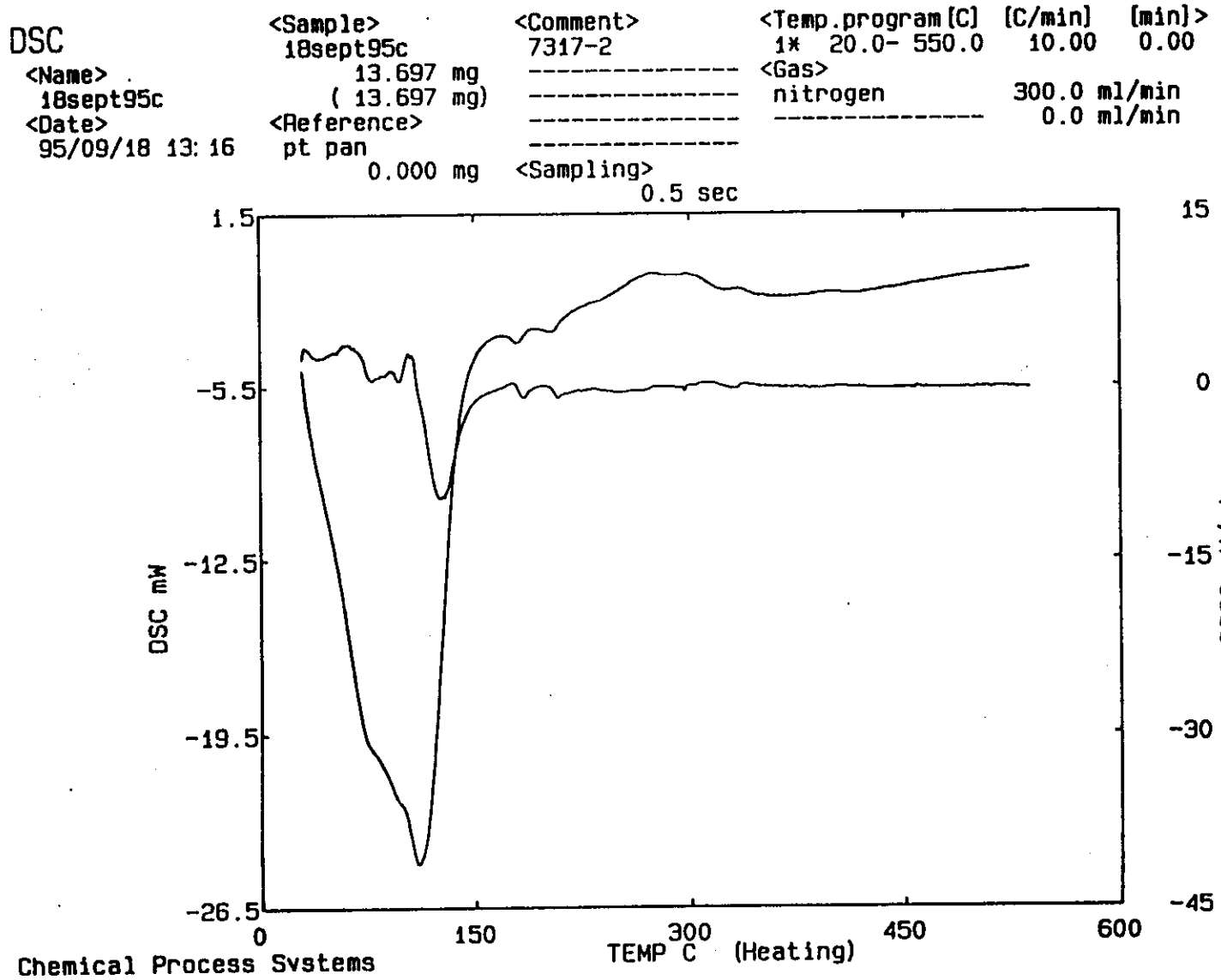
<Sampling>
0.5 sec

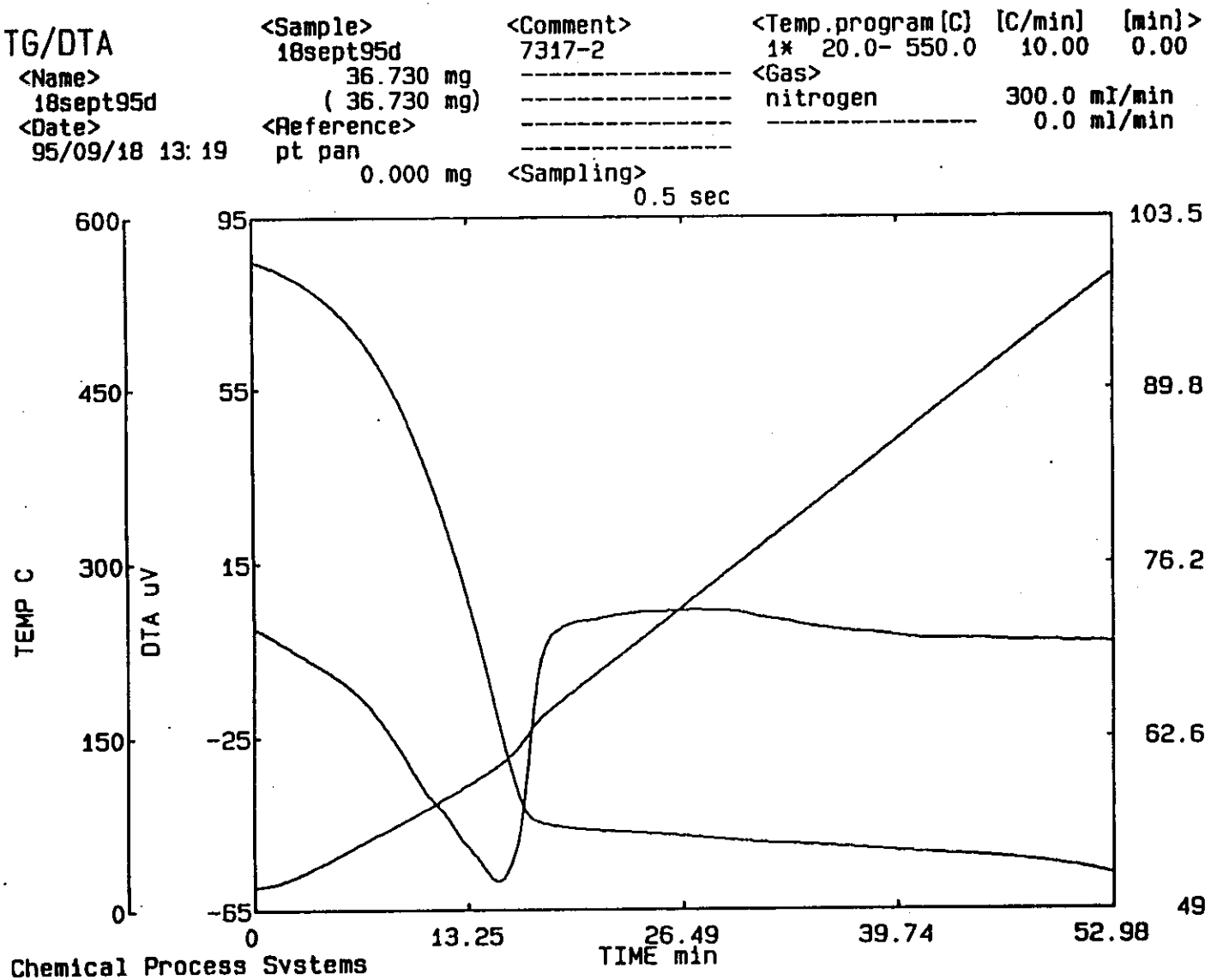
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00

<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems


DSC
<Name>
18sept95c
<Date>
95/09/18 13:16
<Sample>
18sept95c
13.697 mg
(13.697 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7317-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
1.5
-5.5
-12.5
-19.5
-26.5
DSC mW
15
0
-15
-30
-45
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
18sept95d
<Date>
95/09/18 13:19
<Sample>
18sept95d
36.730 mg
(36.730 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7317-2
<Sampling>
0.5 sec
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
95
55
15
-25
-65
DTA uV
103.5
89.8
76.2
62.6
49
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

Density

The density of each sample with the exception of Quarter Segment 2A was measured using a displacement method. Due to the limited sample available for these analyses, only a single measurement was made for each sample. The density of Segment 2A was not measured because sufficient sample was not available to perform an accurate density measurement. The density methods described in PNL technical procedure PNL-ALO-501 could not be followed because of the limited sample available. The results of density measurements are given in Table 1-8.

Table 1-8: Tank BY-108, Core 99 Density Results

WHC Sample Number	Segment ID	Density (g/mL)
7313	1	1.59
7314	2D	1.36
7397	2 Drainable Liquid	1.21
7316	3A	1.57
7398	3 Drainable Liquid	1.21
7322	4A	1.51
7319	4B	1.51
7318	4C	1.53
7317	4D	1.55

Experimental Procedure

The density of the solid samples was obtained by a displacement method. The samples were placed in preweighed graduated cylinder with a known volume and mass of mineral oil. After the sample was placed in the mineral oil, the volume and mass of the sample and oil were measured. The density of the sample was then calculated from the sample mass and sample volume obtained from subtracting the mass and volume of the mineral oil from the mass and volume of the sample plus mineral oil. The density of the drainable liquid

was obtained by accurately measuring the mass of the liquid pipetted from a fixed volume pipet.

SECTION 2

INORGANIC CHEMISTRY

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Inductively Coupled Plasma (ICP) Spectrometry Analysis

Sample Preparation and Analysis:

ICP analyses were performed on fusions prepared from homogenized material from Core 99 Segment 1 and Quarter Segments 2A, 2D, 3A, and 4A through 4D. The samples were prepared following procedures PNL-ALO-114 "Solubilization of Metals from Solids Using a Na_2O_2-NaOH Fusion" and PNL-ALO-115 "Solubilization of Metals from Solids Using a KOH-KNO_3 Fusion." Also, ICP analyses were performed on acid digestions of the drainable liquids from Segment 2 and Segment 3. The drainable liquids samples were prepared following procedure PNL-ALO-128 "HNO_3-HCl Acid Extraction of Liquids for Metals Analysis Using a Dry-block Heater." The core material fusions and drainable liquid acid digestions were performed in the Shielded Analytical Laboratory (SAL) with sample solution aliquots being transferred to the Inorganic Analysis Group for ICP analysis. All ICP metals analyses were performed on a Jarrell-Ash ICP 800A system following procedure PNL-ALO-211, "Determination of Elements by Inductively Coupled Argon Plasma Atomic Emission Spectrometry".

Analytical Results:

The KOH-KNO_3 fusion analytical results are presented in Tables 2.1a through 2.1e, the Na_2O_2-NaOH fusion results are presented in Tables 2.2a through 2.2c, and the drainable liquid HNO_3-HCl digestion results are presented in Tables 2.3a and 2.3b. In general, the agreement between the results from the two fusion methods is good, considering the very small sample sizes used (i.e., approximately 0.2 grams) and the difficulty in obtaining homogeneous samples. An estimate of the sample detection limit can be obtained from the tables by multiplying the estimated instrument detection limit (IDL) for each analyte by the appropriate sample processing/dilution factor (Dil Fctr). It should be noted that the processing blank has not been subtracted from any of the reported sample results. Based on the crucible material used for each fusion, nickel and potassium results should be obtained from the Na_2O_2-NaOH fusions and the sodium, zirconium and phosphorus results should be obtained from the KOH-KNO_3 fusions. Of interest for the core

sludge material is the significant decrease in aluminum and significant increase in calcium, iron, nickel, strontium, and uranium with depth (i.e., from Segment 1 to Segment 4).

Quality Control, Precision, and Accuracy:

The results for both drainable liquids and each segment and quarter segment sample (except Segment 2A for the Na_2O_2-NaOH fusion) are reported, along with the associated batch processing blanks. Duplicate sample results are reported for both drainable liquids and for all segments and quarter segments prepared by KOH-KNO_3 fusions; however, only Segment 1 was prepared and analyzed in duplicate from the Na_2O_2-NaOH fusion. Pre-digestion blank spike and matrix spike results are included with the drainable liquid reports, and post-fusion blank spike and matrix spike results are included with both the KOH-KNO_3 and Na_2O_2-NaOH fusion reports.

To evaluate the precision of the analytical laboratory sampling, preparation, and analysis, the relative percent difference (RPD) between duplicates is used. The RPD is shown for all samples analyzed in duplicate, and the RPD is flagged with a "*" whenever the RPD has exceeded the 10% criteria required by the TCP and the sample and duplicate results exceed 10 times the instrument detection limit (IDL). As can be seen in the tables, RPDs are very high for many of the segments and quarter segments analyzed. The inconsistency seen in the RPDs is attributed primarily to the difficulties in obtaining fully homogenized samples (either due to the limited sample available or the consistency/texture of the sample material), the complexity and diversity of each of the segments, and the very small sample sizes prepared for analysis.

The accuracy of the ICP results for the analytes of interest is estimated by either the pre/post spike recovery or percent difference (%D) from serial dilution. For serial dilution, the %D is calculated and reported when the initial sample exceeds fifty times the IDL; interferences are suspected if the reported %D exceeds 10%. Except in a very few isolated instances, the %D is well within the TCP 10% criteria. For post spikes of the initial analytical

runs, the TCP requirement of 90-110% matrix spike recovery was not met for all analytes of interest. This is attributed primarily to the sample matrix or the manual dilution operation, since analytical QC samples, such as the continuing calibration verifications, have acceptable results. The $KOH-KNO_3$ and Na_2O_2-NaOH fusions post spiking reanalyses results using a special mixed spiking solution containing 31 analytes are shown in Tables 2.1e and 2.2c. Except for a few analytes (specifically, Al, Be, Na, Tl, and U on the $KOH-KNO_3$ fusions, and Al, As, Ca, Li, Sb, Tl, and U on the Na_2O_2-NaOH fusions), the TCP recovery criteria has been met; the failures are attributed to final analyte concentrations below the method detection limit (i.e., 10 times the IDL) or high analyte concentrations in the samples. In general the recoveries for the post blank spike track the recoveries for the post matrix spike, suggesting that the failures are not matrix related. Typically for those analytes demonstrating spike recoveries exceeding the 90%-110% TCP criteria, recoveries were within 85%-115%.

The processing blank provides information on contamination potentially introduced during the fusion processing. The sodium contamination in the $KOH-KNO_3$ fusion blank is above 10 times the IDL; however, since the sodium concentration is very high, the level of contamination does not impact the reported sodium results. However, iron, manganese, and boron contamination in the $KOH-KNO_3$ fusion blank render these results questionable for all but those samples containing high analyte levels. The calcium and boron contamination is sufficient enough in the Na_2O_2-NaOH fusion blank to render calcium results on Segments 1, 2A, 2D, and 3A and boron results on all segments unusable. The sodium contamination in the HNO_3-HCl acid digestion blank is above 10 times the IDL; however, the level of contamination has no effect on the reported high sodium concentration. Boron is also above 10 times the IDL, rendering the low concentration of boron found in the drainable liquid samples unreliable.

The majority of analytes reported (including the TCP analytes of interest defined in the introduction) are supported by the required verification QC (e.g., verification standards and blanks analyzed every 10 samples). However, some reported analytes (specifically, Ce, Eu, La, Nd, P, Pd, Rh, Sn, Te, Th,

Te, Th, Tl, U, W and Y) have only beginning and closing QC verification, and are presented for information only. In general the analytical results for these analytes are expected to be good; however, the QC performed with the analytical run does not conform to the governing QA plan.

Additional Analyses:

Besides the analyses required by the TCP, core homogenization tests of Segment 1 and Segment 4B and water leach analyses of sludge segments, quarter segments, and drainable liquids were performed. Although no spiking was performed for these analyses, all other processing QC (e.g., duplicates and blanks) and analytical QC (e.g., verification standards) analyses were performed. The reports and data from the ICP analysis for the homogenization test samples and water leach samples can be found in Appendix C.

Table 2-1a: Tank BY-108, Core 99 Sludge, Segments 1 & 2D, ICP ($KOH-KNO_3$ Fusions)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395a
09/13/95

Core: 99

		Seg 1			Seg 1		Seg 2D	Seg 2D			Seg 1	
Sam Log#:		95-07941-			95-07941-		95-07943-	95-07943-			95-07941-	95-07941-
Split#:		H1T-Smp			H2T-Dup		H1-Smp	H2-Dup			HCB-Blk	H1T-SmpPS
ICP Dil:		2.00	10.00		2.00		2.00	2.00			2.00	5.00
Dil Fctr:		1990.0	9950.2		1949.3		594.9	612.9			924.2	4975.1	
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD		Batch Blk ug/g	Net PSpk ug/mL	Post Spk Rec
0.015	Ag	ND	ND		ND		ND	ND			ND	ND	
0.060	Al	135,670	141,075	4	131,864	3	70,942	67,093	6		(427)	8.45	84.5%
0.080	As	(282)	ND		(222)		(83)	(73)			ND	ND	
0.020	B	(383)	(455)		(363)		(63)	(64)			(163)	0.00	
0.010	Ba	(24)	ND		ND		ND	ND			ND	ND	
0.005	Be	ND	ND		ND		ND	ND			ND	ND	
0.100	Bi	(316)	ND		ND		ND	ND			ND	ND	
0.050	Ca	(739)	(647)		(437)		855	888	4		(80)	4.61	92.2%
0.015	Cd	ND	ND		ND		ND	ND			ND	0.24	96.3%
0.100	Ce	ND	ND		ND		ND	ND			ND	ND	
0.010	Co	(58)	(115)		(45)		(27)	(31)			(20)	(0.00)	
0.020	Cr	(146)	ND		(152)		177	173	3		ND	1.41	93.9%
0.010	Cu	ND	ND		ND		234	(23)			ND	ND	
0.050	Dy	ND	ND		ND		ND	ND			ND	ND	
0.100	Eu	ND	ND		ND		ND	ND			ND	ND	
0.020	Fe	1,488	(1,641)		971	42 *	710	1,145	47 *		270	(0.00)	
2.000	K	n/a	n/a		n/a		n/a	n/a			n/a	n/a	
0.050	La	ND	ND		ND		ND	ND			ND	ND	
0.030	Li	(109)	ND		(121)		(54)	(49)			(51)	ND	
0.100	Mg	(366)	ND		(247)		(75)	ND			ND	(0.11)	
0.005	Mn	305	(329)		269	12 *	206	285	32 *		66	0.09	92.2%
0.030	Mo	ND	ND		ND		ND	ND			ND	ND	
0.080	Na	95,300	101,561	7	95,728	0	139,877	146,959	5		1,890	13.35	
0.050	Nd	(101)	ND		ND		ND	ND			(50)	(0.00)	
0.030	Ni	n/a	n/a		n/a		n/a	n/a			n/a	n/a	
0.100	P	23,897	24,574	3	29,552	21 *	2,505	2,230	12 *		ND	(0.04)	
0.060	Pb	(351)	(704)		(256)		(106)	(94)			(86)	4.89	97.8%
0.300	Pd	ND	ND		ND		ND	ND			ND	ND	
0.300	Rh	ND	ND		ND		ND	ND			ND	ND	
0.050	Sb	(129)	ND		(106)		ND	ND			(48)	ND	
0.100	Se	ND	ND		ND		ND	ND			ND	ND	
0.500	Si	(6,917)	(7,371)		(4,939)		(1,183)	(1,150)			(837)	9.38	93.8%
1.000	Sn	ND	ND		ND		ND	ND			ND	ND	
0.005	Sr	(27)	ND		(22)		(15)	(13)			ND	0.00	
0.500	Te	ND	ND		ND		ND	ND			ND	ND	
0.800	Th	ND	ND		ND		ND	ND			ND	ND	
0.005	Ti	358	(400)		181	65 *	(23)	(22)			101	(0.00)	
0.500	Tl	ND	ND		ND		ND	ND			ND	ND	
2.000	U	ND	ND		ND		ND	ND			ND	(18.70)	93.5%
0.010	V	(57)	(105)		(48)		(7)	ND			ND	(0.00)	
0.500	W	ND	ND		ND		ND	ND			ND	ND	
0.010	Y	ND	ND		ND		ND	ND			ND	ND	
0.020	Zn	ND	ND		ND		(50)	(49)			ND	ND	
0.010	Zr	(174)	(218)		(187)		ND	ND			(62)	0.46	92.0%

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Table 2-1b: Tank BY-108, Core 99 Sludge, Segments 2A & 3A, ICP ($KOH-KNO_3$ Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/N1 Fusions

m091395b
09/13/95

Core 99

		Seg 2A			Seg 2A		Seg 3A	Seg 3A		
Sam Log#:		95-07942-			95-07942-		95-07944-	95-07944-		95-07942-
Split#:		H1-Smp			H2-Dup		H1-Smp	H2-Dup		H3-Blk
ICP Dil:		2.00	10.00		2.00		2.00	2.00		2.00
Dil Fctr:		1736.1	8680.6		1803.4		1650.2	1408.5		1635.0
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g
0.015	Ag	ND	ND		ND		ND	ND		(25)
0.060	Al	8,327	8,892	7	10,449	23 *	37,342	32,120	15 *	(316)
0.080	As	ND	ND		ND		ND	ND		ND
0.020	B	598	(666)		(149)		1,088	415	89 *	365
0.010	Ba	ND	ND		ND		ND	(16)		ND
0.005	Be	ND	ND		ND		ND	ND		ND
0.100	Bi	ND	ND		ND		ND	ND		ND
0.050	Ca	1,925	ND		2,164	12 *	1,132	1,035	9	(224)
0.015	Cd	ND	ND		ND		ND	ND		ND
0.100	Ce	ND	ND		ND		ND	ND		ND
0.010	Co	(44)	ND		(42)		(63)	(50)		(88)
0.020	Cr	(72)	ND		(122)		(164)	(178)		(35)
0.010	Cu	ND	ND		327		(100)	(75)		(23)
0.050	Dy	ND	ND		ND		ND	ND		ND
0.100	Eu	ND	ND		ND		ND	ND		ND
0.020	Fe	5,112	5,464	7	2,510	68 *	1,608	1,769	10	815
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a
0.050	La	ND	ND		ND		ND	ND		ND
0.030	Li	ND	ND		ND		ND	ND		ND
0.100	Mg	ND	ND		ND		(199)	(147)		ND
0.005	Mn	335	(356)		298	12 *	746	535	33 *	677
0.030	Mo	ND	ND		ND		ND	ND		ND
0.080	Na	201,659	220,212	9	201,554	0	169,524	181,983	7	4,892
0.050	Nd	(108)	ND		ND		(97)	(82)		(120)
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a
0.100	P	(709)	ND		(828)		5,405	7,079	27 *	ND
0.060	Pb	(159)	ND		(144)		(167)	(150)		(156)
0.300	Pd	ND	ND		ND		ND	ND		ND
0.300	Rh	ND	ND		ND		ND	ND		ND
0.050	Sb	(91)	ND		ND		ND	ND		(100)
0.100	Se	ND	ND		ND		ND	ND		ND
0.500	Si	ND	ND		(1,072)		(1,935)	(1,582)		ND
1.000	Sn	ND	ND		ND		ND	ND		ND
0.005	Sr	ND	ND		ND		162	201	22 *	ND
0.500	Te	ND	ND		ND		ND	ND		ND
0.800	Th	ND	ND		ND		ND	ND		ND
0.005	Ti	(22)	ND		(26)		(38)	(28)		(24)
0.500	Tl	ND	ND		ND		ND	ND		ND
2.000	U	ND	ND		ND		ND	ND		ND
0.010	V	ND	ND		ND		(22)	(22)		(18)
0.500	W	ND	ND		ND		ND	ND		ND
0.010	Y	ND	ND		ND		ND	ND		ND
0.020	Zn	(71)	ND		(250)		(103)	(98)		(75)
0.010	Zr	ND	ND		ND		ND	ND		ND

Note: 1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Table 2-1c: Tank BY-108, Core 99 Sludge, Segments 4A & 4C, ICP ($KOH-KNO_3$ Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395c
09/13/95

Core 99

		Seg 4A			Seg 4A		Seg 4C	Seg 4C			Seg 4A	
Sam Log#:		95-07945-			95-07945-		95-07947-	95-07947-		95-07945-	95-07945-	
Split#:		H1-Smp			H2-Dup		H1-Smp	H2-Dup		H3-Blk	H1-SmpPS	
ICP Dil:		2.00	10.00		2.00		2.00	2.00		2.00	5.00	
Dil Fctr:		1857.0	9285.1		1706.5		1836.5	1384.1		1672.6	4642.5	
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Rec
0.015	Ag	(32)	ND		(33)		(39)	(31)		ND	ND	
0.060	Al	14,622	15,819	8	14,338	2	7,155	7,158	0	(354)	9.05	90.5%
0.080	As	ND	ND		ND		ND	(115)		ND	ND	
0.020	B	(293)	(354)		390		828	543	42 *	1,043	0.00	
0.010	Ba	257	(291)		262	2	(87)	(90)		ND	0.00	
0.005	Be	ND	ND		ND		ND	ND		ND	ND	
0.100	Bi	(1,279)	(1,350)		(1,369)		(878)	(926)		ND	(0.01)	
0.050	Ca	11,276	11,872	5	11,406	1	15,618	15,516	1	(149)	4.57	91.4%
0.015	Cd	ND	ND		ND		ND	ND		ND	0.25	98.5%
0.100	Ce	ND	ND		(214)		(202)	(188)		ND	ND	
0.010	Co	(81)	ND		(71)		(96)	(74)		(55)	(0.00)	
0.020	Cr	613	(661)		545	12 *	(90)	(79)		ND	1.41	94.3%
0.010	Cu	(128)	(157)		ND		435	269	47 *	(150)	0.01	
0.050	Dy	ND	ND		ND		ND	ND		ND	ND	
0.100	Eu	ND	ND		ND		ND	ND		ND	ND	
0.020	Fe	19,490	21,229	9	19,044	2	32,264	35,089	8	738	(0.13)	
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a	n/a	
0.050	La	ND	ND		ND		ND	ND		ND	ND	
0.030	Li	ND	ND		ND		ND	ND		ND	ND	
0.100	Mg	(1,293)	(1,477)		(1,143)		(1,141)	(1,186)		ND	(0.09)	
0.005	Mn	1,024	1,105	8	467	75 *	1,069	966	10	384	0.09	68.8%
0.030	Mo	ND	ND		ND		ND	ND		ND	ND	
0.080	Na	135,458	154,142	14	121,043	11 *	111,761	114,902	3	4,494	13.25	
0.050	Nd	(143)	ND		(166)		(191)	(174)		(111)	ND	
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a	n/a	
0.100	P	14,255	15,057	6	12,926	10	24,626	24,629	0	ND	(0.07)	
0.060	Pb	(1,075)	(1,212)		1,156		(1,047)	1,125		(152)	4.92	98.4%
0.300	Pd	ND	ND		ND		ND	ND		ND	ND	
0.300	Rh	ND	ND		ND		ND	ND		ND	ND	
0.050	Sb	ND	ND		(106)		(107)	(84)		ND	ND	
0.100	Se	ND	ND		ND		ND	(152)		ND	ND	
0.500	Si	(2,929)	ND		(4,696)		(2,175)	(2,045)		ND	9.66	96.6%
1.000	Sn	ND	ND		ND		ND	ND		ND	ND	
0.005	Sr	12,458	13,734	10	12,751	2	1,084	1,097	1	ND	(0.09)	
0.500	Te	ND	ND		ND		ND	ND		ND	ND	
0.800	Th	ND	ND		ND		ND	ND		ND	ND	
0.005	Ti	(64)	(73)		(56)		(58)	(56)		(22)	(0.00)	
0.500	Tl	ND	ND		ND		ND	ND		ND	ND	
2.000	U	(30,957)	(34,843)		(31,604)		40,875	44,374	8	ND	18.37	91.8%
0.010	V	(23)	ND		(27)		(28)	(25)		ND	ND	
0.500	W	ND	ND		ND		ND	ND		ND	ND	
0.010	Y	ND	ND		ND		(21)	(21)		ND	ND	
0.020	Zn	(297)	(305)		(228)		(354)	310		(129)	0.01	
0.010	Zr	ND	ND		ND		ND	ND		ND	0.46	91.9%

Note:
1) Method Detection Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Table 2-1d: Tank BY-108, Core 99 Sludge, Segments 4B & 4D, ICP ($KOH-KNO_3$ Fusions)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395d
09/13/95

Core 99

		Seg 4B			Seg 4B		Seg 4D	Seg 4D		
Sam Log#:		95-07946-			95-07946-		95-07948-	95-07948-		95-07946-
Split#:		H1T-Smp			H2T-Dup		H1-Smp	H2-Dup		HCB-Blk
ICP Dil:		2.00	10.00		2.00		2.00	2.00		2.00
Dil Fctr:		1996.0	9980.0		2016.1		2024.3	2283.1		2073.6
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g
0.015	Ag	ND	ND		(32)		(33)	(38)		(42)
0.060	Al	13,068	13,685	5	10,380	23 *	8,608	8,725	1	(1,116)
0.080	As	(220)	ND		(214)		ND	ND		(222)
0.020	B	460	(532)		405	13 *	1,119	(456)		(385)
0.010	Ba	619	(666)		445	33 *	(117)	(120)		ND
0.005	Be	ND	ND		ND		ND	ND		ND
0.100	Bi	3,245	(3,512)		2,502	26 *	(1,123)	(1,174)		(255)
0.050	Ca	11,867	12,099	2	8,471	33 *	7,973	8,038	1	(260)
0.015	Cd	(57)	ND		(76)		ND	ND		ND
0.100	Ce	ND	ND		ND		ND	ND		(255)
0.010	Co	(93)	(140)		(89)		(94)	(129)		(91)
0.020	Cr	567	(578)		(398)		(103)	(119)		(77)
0.010	Cu	(63)	(122)		(45)		247	(165)		(66)
0.050	Dy	ND	ND		ND		ND	ND		ND
0.100	Eu	ND	ND		ND		ND	ND		ND
0.020	Fe	29,045	30,298	4	21,333	31 *	44,493	44,702	0	(397)
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a
0.050	La	ND	ND		ND		ND	ND		ND
0.030	Li	(127)	ND		(171)		ND	ND		ND
0.100	Mg	(1,511)	(1,798)		(1,199)		(1,233)	(1,209)		(224)
0.005	Mn	803	836	4	644	22 *	1,234	1,554	23 *	390
0.030	Mo	ND	ND		ND		ND	ND		ND
0.060	Na	103,437	113,594	10	114,857	10	117,626	117,166	0	4,504
0.050	Nd	(154)	ND		(176)		(171)	(200)		(238)
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a
0.100	P	20,056	20,254	1	28,137	33 *	26,870	27,825	3	(364)
0.060	Pb	(1,141)	(1,484)		(902)		1,544	1,628	5	(332)
0.300	Pd	ND	ND		ND		ND	ND		(926)
0.300	Rh	ND	ND		ND		ND	ND		ND
0.050	Sb	(135)	ND		(148)		(102)	ND		(186)
0.100	Se	ND	ND		ND		ND	ND		ND
0.500	Si	(4,194)	ND		(4,532)		(2,567)	(2,746)		ND
1.000	Sn	ND	ND		ND		ND	ND		ND
0.005	Sr	27,379	28,536	4	18,725	38 *	1,452	1,471	1	(18)
0.500	Te	ND	ND		ND		ND	ND		ND
0.800	Th	ND	ND		ND		ND	ND		ND
0.005	Ti	478	513		412	15 *	(76)	(83)		322
0.500	Tl	ND	ND		ND		ND	ND		ND
2.000	U	61,811	(69,317)		46,561	28 *	51,491	51,633	0	ND
0.010	V	(26)	ND		(29)		(26)	(32)		(35)
0.500	W	ND	ND		ND		ND	ND		ND
0.010	Y	ND	ND		ND		(24)	(25)		ND
0.020	Zn	(63)	ND		ND		(396)	(368)		ND
0.010	Zr	(33)	ND		ND		ND	ND		(32)

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Table 2-1e: Tank BY-108, Core 99 Sludge, Post Spike Reanalysis, ICP ($KOH-KNO_3$ Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

File: m091995b
Analyzed: 09/19/95

Core 99
Post Spike Reruns (Special)

			Seg 1	Seg 1		Blank	Blank Spk	
		Sam Log#:	95-07941-	95-07941-		95-07941-	95-07941-	
		Split#:	H1T-Smp	H1T-Smp-PS		HCB-Smp	HCB-Smp-PS	
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	4975.1	4975.1		4975.1	4975.1	
		Run Time:	13:46	13:50		13:39	13:43	
Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	0.50	Ag	ND	(0.62)	123.0%	ND	(0.60)	120.3%
0.060	75.00	Al	144,823	68.17	90.9%	(1,119)	69.05	92.1%
0.080	2.50	As	ND	(2.83)	113.2%	ND	(2.69)	107.7%
0.020	2.00	B	(442)	1.87	93.7%	(405)	1.84	92.0%
0.010	0.50	Ba	ND	(0.50)	99.7%	ND	(0.47)	94.3%
0.005	0.10	Be	ND	(0.09)	92.1%	ND	(0.09)	89.3%
0.100	25.00	Bi	ND	24.11	96.4%	ND	23.23	92.9%
0.050	50.00	Ca	(749)	48.43	96.9%	(363)	46.80	93.6%
0.015	1.75	Cd	ND	1.74	99.5%	ND	1.73	98.7%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	(66)	1.00	100.1%	(55)	0.98	98.4%
0.020	8.50	Cr	(139)	8.37	98.4%	ND	8.18	96.3%
0.010	1.00	Cu	ND	0.98	97.9%	ND	0.92	92.3%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,606	19.61	98.1%	(674)	19.13	95.7%
2.000	125.00	K	n/a	n/a	n/a	n/a	n/a	n/a
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.87	93.3%	ND	1.82	91.1%
0.100	25.00	Mg	(571)	26.81	107.3%	ND	26.53	106.1%
0.005	1.00	Mn	329	0.98	98.1%	(204)	0.96	95.6%
0.030	1.00	Mo	ND	(1.01)	101.1%	ND	(1.01)	101.1%
0.080	106.85	Na	107,789	94.87	88.8%	4,976	95.32	89.2%
0.050		Nd	ND	ND		ND	(0.27)	
0.030	26.00	Ni	n/a	n/a	n/a	n/a	n/a	n/a
0.100		P	24,798	(0.29)		ND	ND	
0.060	27.50	Pb	(448)	28.33	103.0%	(346)	27.68	100.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	(259)	2.66	106.4%	ND	2.73	109.4%
0.100	2.50	Se	ND	(2.58)	103.1%	ND	(2.57)	102.7%
0.500	70.00	Si	(7,343)	66.81	95.4%	ND	67.10	95.9%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(31)	0.48	95.3%	ND	0.47	94.2%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	390	0.96	95.6%	(246)	0.94	93.7%
0.500	2.50	Tl	ND	(2.93)	117.0%	ND	(2.61)	104.3%
2.000	100.00	U	ND	(91.13)	91.1%	ND	(88.99)	89.0%
0.010	1.00	V	(69)	0.95	95.2%	ND	0.96	96.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	(109)	1.00	100.2%	ND	1.03	103.2%
0.010	4.50	Zr	(185)	4.31	95.8%	(150)	4.18	92.8%

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Table 2-2a: Tank BY-108, Core 99 Sludge, Segments 1, 2D, & 3A, ICP (Na_2O_2-NaOH Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

Core 99

File: m091295c
Analyzed: 09/12/95

Sam Log#:	Seg 1 95-07941-		Seg 1 95-07941-		Seg 2D 95-07943-	Seg 3A 95-07944-		Seg 1 95-07941-	
Split#:	N1-Smp		N2-Dup		N1-Smp	N1-Smp		N3-Blk	N1-Smp-PS
ICP Dil:	2.00	10.00	2.00		2.00	2.00		2.00	5.00
Dil Fctr:	1511.7	7558.6	2114.2		886.5	1506.0		1366.8	3779.3
Run Time:	15:39	15:35	15:59		16:10	17:10		15:30	15:45

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Sample ug/g	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND		ND	ND	ND	(0.08)	
0.060	Al	104,424	115,669	11	135,410	26 *	60,889	25,702	(123)	33.00	66.0%
0.080	As	(167)	ND		(256)		(112)	ND	ND	(0.22)	
0.020	B	694	(779)		1,038	40 *	(147)	635	417	0.03	
0.010	Ba	(15)	ND		(23)		(13)	(17)	ND	ND	
0.005	Be	ND	ND		ND		ND	ND	ND	ND	
0.100	Bi	ND	ND		ND		ND	ND	ND	ND	
0.050	Ca	3,071	(3,150)		3,978	26 *	1,759	3,257	2,665	20.45	81.8%
0.015	Cd	ND	ND		ND		ND	ND	ND	1.09	87.5%
0.100	Ce	ND	ND		ND		ND	ND	ND	(0.59)	
0.010	Co	(20)	ND		(35)		(19)	(22)	ND	(0.05)	
0.020	Cr	(127)	ND		(169)		(176)	(154)	(35)	6.30	64.0%
0.010	Cu	(90)	(83)		(43)		(20)	(32)	(16)	(0.00)	
0.050	Dy	ND	ND		ND		ND	ND	ND	ND	
0.100	Eu	ND	ND		ND		ND	ND	ND	ND	
0.020	Fe	1,028	(1,190)		1,411	31 *	544	1,247	(195)	0.03	
2.000	K	(4,498)	ND		(8,232)		(4,416)	(3,879)	ND	(87.97)	88.0%
0.050	La	ND	ND		ND		ND	ND	ND	ND	
0.030	Li	(52)	ND		(80)		(60)	(46)	ND	ND	
0.100	Mg	(186)	ND		(313)		(126)	ND	ND	(0.79)	
0.005	Mn	(24)	ND		(29)		(13)	(15)	ND	0.42	83.7%
0.030	Mo	ND	ND		ND		ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a		n/a	n/a	n/a	n/a	
0.050	Nd	(125)	ND		(232)		(106)	(127)	(88)	(0.32)	
0.030	Ni	473	(530)		674	35 *	532	836	(314)	21.52	86.1%
0.100	P	3,821	(4,259)		(715)		(233)	(490)	ND	0.04	
0.060	Pb	(232)	ND		(345)		(177)	(177)	(65)	22.63	90.5%
0.300	Pd	ND	ND		ND		ND	ND	ND	ND	
0.300	Rh	ND	ND		ND		ND	ND	ND	ND	
0.050	Sb	ND	ND		(111)		(56)	ND	ND	ND	
0.100	Se	ND	ND		ND		ND	ND	ND	ND	
0.500	Si	(2,650)	ND		(4,150)		(1,127)	(1,086)	ND	41.99	84.0%
1.000	Sn	ND	ND		ND		ND	ND	ND	ND	
0.005	Sr	(58)	(67)		(70)		(35)	310	(41)	(0.00)	
0.500	Te	ND	ND		ND		ND	ND	ND	ND	
0.800	Th	ND	ND		ND		ND	ND	ND	ND	
0.005	Ti	(45)	(56)		(70)		(22)	(20)	(10)	(0.03)	
0.500	Tl	ND	ND		ND		ND	ND	ND	ND	
2.000	U	ND	ND		ND		ND	ND	ND	(85.86)	85.9%
0.010	V	(57)	(79)		(55)		(15)	(19)	ND	(0.05)	
0.500	W	ND	ND		ND		ND	ND	ND	ND	
0.010	Y	ND	ND		ND		ND	ND	ND	ND	
0.020	Zn	(42)	ND		(50)		(32)	(69)	ND	ND	
0.010	Zr	n/a	n/a		n/a		n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Table 2-2b: Tank BY-108, Core 99 Sludge, Segments 4A, 4B, 4C, & 4D, ICP (Na_2O_2-NaOH Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

File: m091295d
Analyzed: 09/12/95

Core 99

		Seg 4A			Seg 4B	Seg 4C	Seg 4D		Seg 4A	
Sam Log#:		95-07945-			95-07946-	95-07947-	95-07948-	95-07941-	95-07945-	
Split#:		N1-Smp			N1-Smp	N1-Smp	N1-Smp	N3-Blk	N1-Smp-PS	
ICP Dil:		2.00	10.00		2.00	2.00	2.00	2.00	5.00	
Dil Fctr:		1926.8	9633.9		1857.0	1912.0	1816.5	1877.1	4817.0	
Run Time:		17:19	17:15		17:30	17:39	18:02	15:30	17:22	
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Sample ug/g	Sample ug/g	Sample ug/g	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND	ND	ND	ND	ND	
0.060	Al	15,478	16,543	7	11,193	7,430	8,166	(169)	45.50	91.0%
0.080	As	ND	ND		ND	ND	ND	ND	ND	
0.020	B	404	(475)		433	(254)	397	572	(0.03)	
0.010	Ba	265	(321)		556	(99)	(115)	ND	(0.02)	
0.005	Be	ND	ND		ND	ND	ND	ND	ND	
0.100	Bi	(1,378)	(1,428)		2,823	(933)	(1,075)	ND	(0.10)	
0.050	Ca	16,028	16,885	5	15,459	20,636	11,455	3,660	23.71	94.8%
0.015	Cd	ND	ND		ND	ND	ND	ND	1.20	96.2%
0.100	Ce	ND	ND		ND	ND	ND	ND	ND	
0.010	Co	(41)	ND		(38)	(34)	(37)	ND	(0.02)	
0.020	Cr	619	(664)		479	(97)	(109)	(48)	7.22	96.2%
0.010	Cu	(36)	ND		(31)	(66)	(105)	(22)	ND	
0.050	Dy	ND	ND		ND	ND	ND	ND	ND	
0.100	Eu	ND	ND		ND	ND	ND	ND	ND	
0.020	Fe	20,151	22,079	10	27,212	34,805	41,981	(266)	1.15	
2.000	K	(4,826)	ND		(4,904)	(4,549)	(4,777)	ND	(87.50)	87.5%
0.050	La	ND	ND		ND	ND	ND	ND	ND	
0.030	Li	ND	ND		ND	ND	ND	ND	ND	
0.100	Mg	(1,480)	(1,664)		(1,459)	(1,280)	(1,374)	ND	(0.69)	
0.005	Mn	300	(330)		328	366	498	ND	0.49	97.8%
0.030	Mo	ND	ND		ND	ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a	n/a	n/a	n/a	n/a	
0.050	Nd	(145)	ND		(161)	(174)	(199)	(120)	ND	
0.030	Ni	14,673	16,121	10	16,741	6,710	7,209	(432)	25.37	101.5%
0.100	P	(625)	ND		3,640	(1,605)	(1,437)	ND	(0.25)	
0.060	Pb	(1,154)	(1,370)		(995)	(1,144)	2,856	(117)	25.11	100.5%
0.300	Pd	ND	ND		ND	ND	ND	ND	ND	
0.300	Rh	ND	ND		ND	ND	ND	ND	ND	
0.050	Sb	ND	ND		ND	ND	ND	ND	ND	
0.100	Se	ND	ND		ND	ND	ND	ND	ND	
0.500	Si	(2,720)	ND		(2,267)	(1,554)	(1,784)	ND	48.66	97.3%
1.000	Sn	ND	ND		ND	ND	ND	ND	ND	
0.005	Sr	13,885	15,346	11	25,031	1,260	1,468	(57)	1.04	
0.500	Te	ND	ND		ND	ND	ND	ND	ND	
0.800	Th	ND	ND		ND	ND	ND	ND	ND	
0.005	Ti	(41)	(50)		(46)	(34)	(40)	(13)	(0.01)	
0.500	Tl	ND	ND		ND	ND	ND	ND	ND	
2.000	U	(33,219)	(38,672)		54,717	46,937	50,669	ND	97.64	97.6%
0.010	V	ND	ND		(20)	ND	(21)	ND	ND	
0.500	W	ND	ND		ND	ND	ND	ND	ND	
0.010	Y	ND	ND		(20)	(20)	(25)	ND	ND	
0.020	Zn	(235)	(243)		(150)	(247)	(303)	ND	0.01	
0.010	Zr	n/a	n/a		n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Table 2-2c: Tank BY-108, Core 99 Sludge, Post Spike Reanalysis, ICP (Na_2O_2-NaOH Fusion)

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

Core 99
Post Spike Reruns (Special)

File: m091995a
Analyzed: 09/19/95

			Seg 1	Seg 1		Blank	Blank Spk	
		Sam Log#:	95-07941-	95-07941-		95-07941-	95-07941-	
		Split#:	N1-Smp	N1-Smp-PS		N3-Blk	N3-Blk-PS	
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	3779.3	3779.3		3779.3	3779.3	
		Run Time:	14:16	14:20		14:08	14:12	
Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	0.50	Ag	ND	(0.61)	121.1%	(64)	(0.58)	115.5%
0.060	75.00	Al	122,327	64.48	86.0%	(321)	71.44	95.3%
0.080	2.50	As	ND	(2.80)	111.8%	ND	(2.81)	112.3%
0.020	2.00	B	836	1.85	92.4%	(516)	1.90	95.1%
0.010	0.50	Ba	ND	(0.48)	96.6%	ND	(0.48)	96.4%
0.005	0.10	Be	ND	(0.09)	90.2%	ND	(0.09)	90.3%
0.100	25.00	Bi	ND	23.74	95.0%	ND	24.30	97.2%
0.050	50.00	Ca	4,222	47.04	94.1%	7,612	43.51	87.0%
0.015	1.75	Cd	ND	1.72	98.0%	ND	1.78	101.5%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	ND	1.03	102.9%	ND	1.05	105.0%
0.020	8.50	Cr	(150)	8.19	96.3%	ND	8.39	98.6%
0.010	1.00	Cu	(130)	0.96	95.6%	(60)	0.98	97.9%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,209	19.18	95.9%	(262)	19.53	97.7%
2.000	125.00	K	ND	122.60	98.1%	ND	125.64	100.5%
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.79	89.3%	ND	1.77	88.7%
0.100	25.00	Mg	ND	26.85	107.4%	ND	27.31	109.2%
0.005	1.00	Mn	(30)	0.96	96.2%	ND	0.99	99.2%
0.030	1.00	Mo	ND	(1.00)	100.1%	ND	(1.01)	101.0%
0.080	106.85	Na	n/a	n/a	n/a	n/a	n/a	n/a
0.050		Nd	ND	(0.30)		(208)	(0.07)	
0.030	26.00	Ni	(575)	25.60	98.5%	(410)	25.97	99.9%
0.100		P	4,074	0.11		ND	ND	
0.060	27.50	Pb	(273)	28.01	101.8%	ND	28.78	104.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	ND	2.79	111.6%	ND	2.78	111.4%
0.100	2.50	Se	ND	(2.50)	99.9%	ND	(2.62)	105.0%
0.500	70.00	Si	(3,046)	66.27	94.7%	ND	68.12	97.3%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(69)	0.46	92.7%	(54)	0.47	93.5%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	(53)	0.94	94.3%	ND	0.98	98.2%
0.500	2.50	Tl	ND	(2.88)	115.3%	ND	(2.64)	105.6%
2.000	100.00	U	ND	(88.92)	88.9%	ND	(87.75)	87.8%
0.010	1.00	V	(65)	0.94	93.5%	ND	0.98	98.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	ND	1.10	110.0%	(89)	0.97	97.1%
0.010	4.50	Zr	n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Table 2-3a: Tank BY-108, Core 99 Drainable Liquid, Segment 2, ICP (Acid Digestion)

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295a
Report Page 1 of 2

Samp Log#:	Seg 2 95-07932-A1 Sam	95-07932-A1 SamDil		Seg 2 95-07932-A2 Dup	95-07932-A2 DupDil		95-07932-A3 Blank		**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00		12.50			
ICP Dil:	10.00	50.00		10.00	50.00		1.00			
	<---------Sample--------->			<---------Duplicate--------->			<----Blank----->			
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	ug/mL		ug/mL	ug/mL
Ag	ND	ND		ND	ND		ND		0.015	0.1500
Al	35,454	36,139	2%	34,929	34,667	1%	(2)		0.060	0.6000
As	(30)	ND		(32)	ND		ND		0.080	0.8000
B	43	(43)		40	(41)		20	>MDL	0.020	0.2000
Ba	ND	ND		ND	ND		ND		0.010	0.1000
Be	ND	ND		ND	ND		ND		0.005	0.0500
Bi	ND	ND		ND	ND		ND		0.100	1.0000
Ca	ND	ND		ND	ND		ND		0.050	0.5000
Cd	ND	ND		ND	ND		ND		0.015	0.1500
Ce	ND	ND		ND	ND		ND		0.100	1.0000
Co	(9)	(8)		(9)	(9)		ND		0.010	0.1000
Cr	280	285	2%	277	277	0%	ND		0.020	0.2000
Cu	(4)	ND		(4)	ND		ND		0.010	0.1000
Dy	ND	ND		ND	ND		ND		0.050	0.5000
Eu	ND	ND		ND	ND		ND		0.100	1.0000
Fe	118	(123)		117	(120)		ND		0.020	0.2000
K	2,656	(2,716)		2,614	(2,713)		ND		2.000	20.0000
La	ND	ND		ND	ND		ND		0.050	0.5000
Li	ND	ND		ND	ND		ND		0.030	0.3000
Mg	ND	ND		ND	ND		ND		0.100	1.0000
Mn	ND	ND		ND	ND		ND		0.005	0.0500
Mo	(14)	ND		(14)	ND		ND		0.030	0.3000
Na	OvrRng	201,647		OvrRng	188,042	8%	24	>MDL	0.080	0.8000
Nd	ND	ND		ND	ND		ND		0.050	0.5000
Ni	310	319	3%	306	314	3%	ND		0.030	0.3000
P	467	(456)		462	(453)		ND		0.100	1.0000
Pb	91	(76)		91	(86)		ND		0.060	0.6000
Pd	ND	ND		ND	ND		ND		0.300	3.0000
Rh	ND	ND		ND	ND		ND		0.300	3.0000
Sb	ND	ND		ND	ND		ND		0.050	0.5000
Se	ND	ND		ND	ND		ND		0.100	1.0000
Si	ND	ND		ND	ND		(25)		0.500	5.0000
Sn	ND	ND		ND	ND		ND		1.000	10.0000
Sr	ND	ND		ND	ND		ND		0.005	0.0500
Te	ND	ND		ND	ND		ND		0.500	5.0000
Th	ND	ND		ND	ND		ND		0.800	8.0000
Ti	ND	ND		ND	ND		ND		0.005	0.0500
Tl	(76)	ND		(75)	ND		ND		0.500	5.0000
U	ND	ND		ND	ND		ND		2.000	20.0000
V	ND	ND		ND	ND		ND		0.010	0.1000
W	(63)	ND		ND	ND		ND		0.500	5.0000
Y	ND	ND		ND	ND		ND		0.010	0.1000
Zn	(7)	ND		(7)	ND		ND		0.020	0.2000
Zr	ND	ND		ND	ND		ND		0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) ">MDL" indicates analyte found in process blank above the MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Table 2-3a: Tank BY-108, Core 99 Drainable Liquid, Segment 2, ICP (Acid Digestion) - cont.

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
**** QC Results *****

09/12/95 : Analyzed
m091295a : File
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				Seg 2											
			Samp Log# >>>	95-07932-A4 Smp+Spk					95-07932-A5 Blk Spk			Post Spk			
			Spk Dil Fctr >>	100.00					100.00						
			Sam Dil Fctr >>	125.00											
			ICP Dil >>>	10.00					1.00						
Analyte ↓	Average A1 & A2 ug/mL	RPD	20% Flg	PreSpk STD ug/mL	Spk Conc in Sam/Blk ug/mL	Net Spk Conc ug/mL	Rec	Spk Flg	Net Blk Spk Cntrl ug/mL	Rec	10% Spk Flg	PostSpk STD ug/mL	Post Spike ug/mL	Rec	Spk Flg
Ag	---														
Al	35,192	1%		1000	10.000	12.93	129.3%	N	8.619	86.2%	N				
As	---														
B	42	6%													
Ba	---														
Be	---														
Bi	---														
Ca	---			500	5.000	5.92	118.5%	N	4.236	84.7%					
Cd	---			25	0.250	0.24	95.4%		0.207	82.6%					
Ce	---														
Co	---														
Cr	279	1%		150	1.500	1.38	92.0%		1.314	87.6%					
Cu	---														
Dy	---														
Eu	---														
Fe	118	1%													
K	2,635	2%		2000	20.000	20.69	103.4%		16.984	84.9%					
La	---														
Li	---														
Mg	---														
Mn	---			10	0.100	0.09	94.4%		0.088	87.7%					
Mo	---														
Na	194,845	7%													
Nd	---														
Ni	308	1%		500	5.000	4.70	94.1%		4.539	90.8%					
P	465	1%													
Pb	91	1%		500	5.000	4.92	98.5%		4.373	87.5%					
Pd	---														
Rh	---														
Sb	---														
Se	---														
Si	---			1000	10.000	10.53	105.3%		9.833	98.3%					
Sn	---														
Sr	---														
Te	---														
Th	---														
Ti	---														
Tl	---														
U	---			2000	20.000	19.64	98.2%		17.555	87.8%					
V	---														
W	---														
Y	---														
Zn	---														
Zr	---			50	0.500	0.41	n/a		0.438	87.6%					

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Above 5 times MDL, precision is estimated at +/-10% and accuracy at +/-15%.
3) Where "Blank" results are >IDL the blank has been subtracted from the "Spike Control".
4) Spike Flag (N) indicates spike is outside the QC recovery criteria.
5) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
6) If spike is <25% of sample concentration, Rec is not calculated as indicated by the "n/a".
7) If sample or duplicate results are <MDL then average is not calculated (i.e., "---").

Table 2-3b: Tank BY-108, Core 99 Drainable Liquid, Segment 3, ICP (Acid Digestion)

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295b
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Samp Log#:	Seg 3 95-07935-A1 Sam	95-07935-A1 SamDil		Seg 3 95-07935-A2 Dup	95-07935-A2 DupDil			**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00				
ICP Dil:	10.00	50.00		10.00	50.00				
	<---Sample--->			<---Duplicate--->			20%		
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	RPD Flg	ug/mL	ug/mL
Ag	ND	ND		ND	ND			0.015	0.1500
Al	37,441	37,802	1%	37,429	38,529	3%	0%	0.060	0.6000
As	(34)	ND		(32)	ND			0.080	0.8000
B	44	(46)		45	(49)		0%	0.020	0.2000
Ba	ND	ND		ND	ND			0.010	0.1000
Be	ND	ND		ND	ND			0.005	0.0500
Bi	ND	ND		ND	ND			0.100	1.0000
Ca	ND	ND		ND	ND			0.050	0.5000
Cd	ND	ND		ND	ND			0.015	0.1500
Ce	ND	ND		ND	ND			0.100	1.0000
Co	(9)	(9)		(9)	(9)			0.010	0.1000
Cr	294	304	3%	291	300	3%	1%	0.020	0.2000
Cu	(10)	(8)		(10)	(8)			0.010	0.1000
Dy	ND	ND		ND	ND			0.050	0.5000
Eu	ND	ND		ND	ND			0.100	1.0000
Fe	97	(101)		104	(109)		7%	0.020	0.2000
K	2,780	(2,787)		2,811	(2,836)		1%	2.000	20.0000
La	ND	ND		ND	ND			0.050	0.5000
Li	ND	ND		ND	ND			0.030	0.3000
Mg	ND	ND		ND	ND			0.100	1.0000
Mn	ND	ND		ND	ND			0.005	0.0500
Mo	(15)	ND		(15)	ND			0.030	0.3000
Na	OvrRng	185,321		OvrRng	194,961		5%	0.080	0.8000
Nd	ND	ND		ND	ND			0.050	0.5000
Ni	238	247	4%	243	256	5%	2%	0.030	0.3000
P	452	(453)		457	(454)		1%	0.100	1.0000
Pb	100	(99)		97	(88)		2%	0.060	0.6000
Pd	ND	ND		ND	ND			0.300	3.0000
Rh	ND	ND		ND	ND			0.300	3.0000
Sb	ND	ND		ND	ND			0.050	0.5000
Se	ND	ND		ND	ND			0.100	1.0000
Si	(108)	ND		(119)	ND			0.500	5.0000
Sn	ND	ND		ND	ND			1.000	10.0000
Sr	(2)	ND		(5)	(5)			0.005	0.0500
Te	ND	ND		ND	ND			0.500	5.0000
Th	ND	ND		ND	ND			0.800	8.0000
Ti	ND	ND		ND	ND			0.005	0.0500
Tl	(77)	ND		(77)	ND			0.500	5.0000
U	ND	ND		ND	ND			2.000	20.0000
V	ND	ND		ND	ND			0.010	0.1000
W	776	(760)		772	(777)		1%	0.500	5.0000
Y	ND	ND		ND	ND			0.010	0.1000
Zn	(12)	ND		(12)	ND			0.020	0.2000
Zr	ND	ND		ND	ND			0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", then RPD >20% AND both sample and duplicate results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/ 95D255a

Ion Chromatographic Analysis

Sample Preparation and Analysis:

The IC analyses were performed on the water leaches prepared from homogenized material from Core 99 Segment 1 and Quarter Segments 2A, 2D, 3A, and 4A through 4D and on dilutions of the drainable liquids from Segment 2 and Segment 3. The water leach samples were prepared following procedures PNL-ALO-103, "Water Leach of Sludges, Soils, and Other Solid Samples." The leaches and dilutions were performed in the SAL with sample and QC solution aliquots being transferred to the Inorganic Analysis Group for IC analysis. All IC analyses for the anions fluoride, chloride, nitrite, nitrate, phosphate, and sulfate were performed on a Dionex 4500i Ion Chromatograph system following procedure PNL-ALO-212, "Determination of Inorganic Anions by Ion Chromatography."

Analytical Results:

The IC analytical results are presented in Tables 2.4a through 2.4e. The IC analyses were conducted on 9/14/95, 9/18/95, and 9/28/95; the results reported are restricted to the 9/14/95 and 9/28/95 runs due to consistent failure of the verification standards on 9/18/95. The results for the drainable liquids are reported in μg/mL and the results for the water leaches of the sludges in μg/g. After applying the dilution and leaching processing factors, the typical detection limits are 30 μg/mL (or 30 μg/g) halides and 50 μg/mL (or 50 μg/g) oxy-anions. However, due to the necessity to dilute the samples to assure that all reported results fell within the calibration range, some reported detection limits are adjusted for additional analytical dilutions.

Quality Control, Precision, and Accuracy:

Sample and duplicate results are reported for both drainable liquids and water leaches of the sludge segment and quarter segment samples. Matrix spikes, blank spikes, and leach processing blanks are also reported for the

sludge samples, as well as a dilution blank for drainable liquids. Significant difficulties were experienced with fluoride and phosphate analyses. The fluoride is impacted by significant interferences (most probably from organic anions which elute near the same retention times a fluoride), and the phosphate appeared to experience a matrix-related interference or column degradation (i.e., the verification standard for phosphate experienced consistent failure). The phosphate is considered to be reasonably reliable since ICP phosphorus analysis of the same samples confirms the reported phosphate results; however, the fluoride results are considered best available estimates. Beside phosphate and fluoride, nitrite and sulfate also slightly degrades with time and additional sample loading on the column. Based on the continuing calibration verifications standards, nitrite and sulfate may be bias high by as much as ten percent.

The RPD between duplicates is used to evaluate the precision of the sample processing, analytical sampling, and IC analysis. The majority of RPD values meet the TCP 10% criteria; however, a few anions demonstrate very poor RPDs (i.e., up to 90%) for specific samples. The poor RPDs are attributed primarily to the inconsistency of the sample material and/or the inability to obtain fully representative analytical samples. Reanalyses were performed for the majority of the samples exhibiting greater than 20% RPD; the reanalyses confirmed the original results. Very large RPD are restricted primarily to Segment 4 samples (4A through 4D); this is not unrealistic since Segment 4 is most likely the tank heel and may represent the largest variability in the tank material.

The accuracy of the IC results is estimated by the matrix spike recovery. Low recoveries on matrix spikes provide indications of matrix interferences which may adversely affect the reported analytical results. The matrix spiking solution was prepared based on the best available information on the anion concentrations suspected within Tank BY-108. Unfortunately, many of the matrix spikes are unusable due to the fact that the tank concentrations are significantly higher than anticipated. The spikes for Cl, NO_2, and NO_3 for the drainable liquids, F and PO_4 for the sludges could not be recovered due to the high concentration of the anions in the samples. The only matrix spike

spike meeting the 90-110% TCP criteria was SO_4 for the drainable liquids. However, other than those spikes too low to recover, all matrix spikes recovered within the 75%-125% acceptance criteria of the governing QA plan. In general, recoveries on blank spikes were good, except for Cl for the sludges (i.e., 120%) and NO_2 for both the sludges and drainable liquids (i.e., 86% and 88%, respectively). Degradation of the column, most likely caused by insoluble sample matrix components depositing on the column, was observed for all runs which involved Tank BY-108 leach samples.

The leaching/dilution processing blanks provide information on the contamination potentially introduced during the dilution process. Very slight chloride, nitrate, and sulfate blank concentrations were observed. However, these blanks typically have no impact on the reported results, since the anion concentration in the samples is high compared to the blank concentration.

The IC water leach blanks reported in Tables 2.4a through 2.4e have been increased from those reported in the IC data package (see Appendix C). The IC blank is typically calculated using an nominal 1 mL (or 1 g) "equivalent" sample size. However, the drainable liquids were processed using an average 0.2 mL samples size and the sludges were processed using a average 0.5 mL sample size. Therefore, the blank concentrations (or detection limits) reported in the data package have been increased 5-fold for the drainable liquids and 2-fold for the sludges. This provides a better representation of the blank's contribution to the sample concentration. Also, the IC results reported in the data package for the drainable liquid samples are calculated in $\mu g/g$; the results reported in Tables 2.4a through 2.4e have been adjusted for density and reported as $\mu g/mL$.

Sample Preparation and Analysis:

The total cyanide analyses were performed "directly" on homogenized material from Core 99 Segment 1 and Quarter Segments 2A, 2D, 3A, and 4A through 4D, and on diluted drainable liquids from Segment 2 and Segment 3. The sludge and drainable liquid samples were pre-treated and distilled following procedure PNL-ALO-285, "Total Cyanide by Remote Microdistillation and Argentometric Titration". The microdistillations were performed in the SAL and distillates transferred to the Inorganic Analysis Group for subsequent cyanide determination. Total cyanide was determined either by argentometric titration or calorimetrically using a Lachat Autoanalyzer following procedure PNL-ALO-289, "Total Cyanide Determination by Spectrophotometry (Manual or Automated) or Argentometric Titration".

Analytical Results:

The total cyanide results are presented in Tables 2.4a through 2.4e. Since the total CN was anticipated to be very high in Tank BY-108, titrations were initiated on the distillates prepared from the microdistillation operation. The initial samples were titrated, i.e., sludge Segments 1 sample and duplicate and Segment 2A sample and duplicate, and measured essentially no appreciable cyanide. Based on this information, the residual solutions from these samples and the remaining segment samples were analyzed calorimetrically. The results reported from agrentometric titration for sludge Segment 1 sample is an upper estimate only, and since the entire sample was titrated, there is no calorimetric result available. All sludge samples are reported in μg/g and the drainable liquids are reported in μg/mL.

Quality Control, Precision, and Accuracy:

Sample and duplicate results are reported for both drainable liquids and each segment and quarter segment. Distillation blanks, matrix spikes, and spike blanks are also reported for the distillation batch. In addition to the

SAL distillation batch QC samples, an additional distillation was performed by the Inorganic Analysis Group to provide an alternate verification standard to validate the calibration curve established by the calibration standards. For total cyanide, the distilled blank spike is considered the laboratory control standard; this standard recovered at 89% and 88%. Although this recovery is within the 85%-115% acceptance criteria for the governing QA Plan, it exceeds the 90%-110% criteria of the TCP. Besides the control standard, the continuing calibration verification standard failed to meet the 90%-110% TCP accuracy requirement, but is also within the 85%-115% acceptance criteria of the governing QA plan.

The TCP has established a 10% criteria for precision; the RPD between sample and duplicate is used to evaluate the precision of the cyanide analysis. Sludge Segment 1 RPD is unavailable due to the inability of the titration method to accurately measure low cyanide concentration. Also, since Segment 4C sample and Segment 4D duplicate were lost during the microdistillation, no RPDs could be calculated for these segments.

The accuracy of the total cyanide method (i.e., distillation and analysis) is estimated by the use of matrix spikes. Low recoveries on matrix spikes suggest that the reported results may be bias due to matrix interferences. The spike levels were selected based on the expected cyanide content of the tank material; however, in general the tank drainable liquids and sludge contained significantly less cyanide than anticipated. The spike recoveries were reasonably good at 88% for the drainable liquid and 79% for the sludge. Although the spike recovery for the sludge did not meet the TCP 90%-110% criteria, the spike is not considered representative of the samples since the spike is two orders of magnitude above the maximum sample concentration and required very high dilutions to be measured calorimetrically.

The distillation blank provides information regarding cyanide contamination introduced during the distillation and/or measurement process. Except for the Segment 4C sample and the Segment 4D duplicate, which have suspect results, the blank contributed less than 1% to any sample.

Besides the estimate reported for the Segment 1 sample, the results for the Segment 1 duplicate and the Segment 2A sample and duplicate are also reported as estimates, since the initial volume of the distillate and the final volume remaining (after attempts at measuring the cyanide by titration) are not accurately known. The volumes remaining after the attempt at titrating these samples is required to calculate the concentration of cyanide in the aliquots taken for the calorimetric measurement. These volumes have been estimated by weighing; however, errors associated with estimating the volume are not expected to affect the final reported concentration for these segments by more than five to ten percent. Due to the small added uncertainty for Segment 1 and Segment 2A results, and the loss of the Segment 4C sample and 4D duplicate, redistillation and analysis was considered for these segments. However, with the highest cyanide concentration being about 25 times lower than the threshold action limit, no reruns were performed.

Total Organic Carbon, Total Inorganic Carbon, & Total Carbon Analysis

Sample Preparation and Analysis:

The total organic carbon, total inorganic carbon, and total carbon (TOC/TIC/TC) analyses were performed "directly" on homogenized material from Core 99 Segment 1 and Quarter Segments 2A, 2D, 3A, and 4A through 4D, and on diluted drainable liquids from Segment 2 and Segment 3. The TOC/TIC/TC analyses of the core sludge segments and quarter segments were performed by the SAL using a UIC Coulometrics system following procedure PNL-ALO-381, "Determination of TC, TOC, and TIC in Radioactive Liquids, Soils, and Sludges by the Hot Persulfate Method." Dilutions of the drainable liquids were also performed in the SAL and sample aliquots then transferred to the Inorganic Analysis Group for subsequent UV-catalyzed TOC/TIC/TC analysis using a Dohrmann DC80 system following procedure PNL-ALO-382, "Solution Analysis: Carbon."

Analytical Results:

The TOC/TIC/TC analytical results are presented in Tables 2.4a through 2.4e. The drainable liquids are reported in μg/mL and the sludge segments and quarter segments are reported in μg/g. For all TOC/TIC/TC analyses, the results exceed the estimated method detection limit of the method used; that is, 30 μg/g TIC and 50 μg/g TOC for the hot persulfate method, and 50 μg/mL TC or TIC for the UV-catalyzed solution method. For the hot persulfate method, the TIC and TOC are analyzed on each sample and the TC is obtained by summation. For the UV-catalyzed solution method, the TC and TIC are analyzed on each sample and the TOC is obtained by difference.

Quality Control, Precision, and Accuracy:

Sample and duplicate results are reported for both drainable liquids and each segment and quarter segment sample. Processing blanks are also reported for the drainable liquids, since the drainable liquids were diluted by SAL prior to TOC/TIC/TC analysis. However, no processing blanks are reported for the sludge segment samples analyzed by the direct hot persulfate method. This method requires results to be corrected for the average blank carbon levels, as well as the average check standard recoveries. Therefore, all sludge sample results have been corrected for the blank contribution and the check standard recovery. Matrix spikes are included for both the drainable liquid UV-catalyzed analyses and the sludge segment hot persulfate analyses.

Neither the hot persulfate method nor the UV-catalyzed method undergo user calibration for the carbon measurements; the calibration of the instrumentation is established by the manufacturer. Both methods verify instrument response by the use of check standards. The hot persulfate method uses the check standards to adjust the reported result for the average standard recovery. The recoveries demonstrated by the hot persulfate method ranged from 90.5% to 97.1% for TIC and 87% to 96.6% for TOC. Although two TOC standards recovered at less than the 90% recovery required by the TCP, the average TOC recovery used to correct the analytical results was above 90% for each analytical run. Since the analytical results are corrected for the

average standard recovery, the demonstrated recovery should not affect the quality of the reported results.

The RPD between duplicates is used to evaluate the precision of the analytical laboratory sample processing and analysis. The majority of the RPD values for sludges (analyzed by the hot persulfate method) meet the TCP 10% criteria. However, a few sludge samples and both drainable liquid samples (analyzed by the UV-catalyzed method) do demonstrate very poor RPDs (i.e., up to 58% for the sludges and 75% for drainable liquids). The poor RPDs for the sludges are attributed primarily to the inconsistency of the sample material and/or the inability to obtain fully representative analytical samples. In the case of TOC for the UV-catalyzed method, the poor RPDs are attributed to the small difference between the TC and TIC sample concentrations.

The accuracy of the TOC/TIC/TC results is estimated by the matrix spike recovery. Low recoveries on matrix spikes provide indications of matrix interferences which may adversely affect the reported analytical results. The hot persulfate TOC/TIC/TC results show excellent recovery for Segment 1, but very low recovery for Quarter Segment 4A. Although the TOC/TIC are very high in Quarter Segment 4A, the TOC/TIC spikes added were 25% above the TOC/TIC measured in the sample, which should have provided adequate spike for determining recovery. Considering this and the fact that the RPD for Quarter Segment 4A is very good, suggests that the low spike recovery is matrix-related (perhaps a high salt content), and that the carbon values reported may be bias low. The UV-catalyzed TOC/TIC/TC sample spike recoveries were quite poor for both TC and TIC, recovering at 130% and 69%, respectively. Since the blank spike recoveries are within the 90%-110% acceptance criteria, the poor spike recoveries on the drainable liquids are attributed to poor analytical reproducibility (i.e., 28% RPD on TIC) and matrix interferences (e.g., possible residual suspended solids after filtering).

The processing blank for the drainable liquid samples analyzed by the UV-catalyzed method provides information on the contamination potential introduced during the dilution process. A very slight TC blank concentration

was observed. However, it has no impact on the reported results, since the TC concentration in the samples is very high compared to the blank concentration.

Table 2-4a: BY-108, Core 99 Drainable Liquid, Segment 2 & Segment 3, Anions/Carbon/CN

Segment 2 Drainable Liquid

Analyte	ALO Log #	Sample (µg/mL)	Duplicate (µg/mL)	RPD (%)	Blank (µg/mL)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07932-G	715	711	<1	0.25	88	88
TOC	95-07932-J	1400	3100	72	<50	--	--
TIC	95-07932-J	8500	6400	28	<50	69	98
TC	95-07932-J	9900	9500	5	64	130	110
Fluoride	95-07932-C	<400	<400	n/a	<35	75	100
Chloride	95-07932-C	3300	3300	0	<35	n/a	100
Nitrite	95-07932-C	57100	56300	1	<70	n/a	88
Nitrate	95-07932-C	230000	236000	2	110	n/a	103
Phosphate	95-07932-C	700	700	0	<70	76	94
Sulfate	95-07932-C	1100	1000	10	80	93	95

Segment 3 Drainable Liquid

Analyte	ALO Log #	Sample (µg/mL)	Duplicate (µg/mL)	RPD (%)	Blank (µg/mL)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07935-G	521	532	2	--	--	--
TOC	95-07935-J	2400	1100	72	--	--	--
TIC	95-07935-J	7200	8100	11	--	--	--
TC	95-07935-J	9600	9200	4	--	--	--
Fluoride	95-07935-C	<600	<600		--	--	--
Chloride	95-07935-C	3400	3400	0	--	--	--
Nitrite	95-07935-C	60500	61100	1	--	--	--
Nitrate	95-07935-C	204000	226000	10	--	--	--
Phosphate	95-07935-C	1300	1300	0	--	--	--
Sulfate	95-07935-C	1600	1600	0	--	--	--

Notes:

(a) "<" indicates not detected above reported value.

(b) RPD = "n/a" when either sample or duplicate are <MDL.

(c) Smp Spk = "n/a" when Sample result >4X spiking level.

(d) "--" indicates analysis not performed on sample; e.g., only one Blank, Sample Spike, and Blank Spike analyzed per batch or Blank and Blank Spike not required on TOC/TIC/TC.

Table 2-4b: BY-108, Core 99 Sludge, Segment 1 and Segment 2A, Anions/Carbon/CN

Segment 1 Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07941-G	<260 (e)	95 (f)	n/a	0.6	79	89
TOC	95-07941-J	1290	920	33	--	94	--
TIC	95-07941-J	1150	1170	2	--	100	--
TC	95-07941-J	2440	2090	15	--	--	--
Fluoride	95-07941-C	6600	5400	20	<20	n/a	100
Chloride	95-07941-C	700	700	0	80	80	120
Nitrite	95-07941-C	8000	8200	2	<60	85	86
Nitrate	95-07941-C	55000	67000	20	160	111	101
Phosphate	95-07941-C	63000	52000	19	<60	n/a	91
Sulfate	95-07941-C	1300	1100	17	120	87	97

Segment 2A Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07942-G	116 (f)	120 (f)	3	--	--	--
TOC	95-07942-J	890	870	2	--	--	--
TIC	95-07942-J	1470	1590	8	--	--	--
TC	95-07942-J	2360	2460	4	--	--	--
Fluoride	95-07942-C	<500	<500	n/a	--	--	--
Chloride	95-07942-C	800	800	0	--	--	--
Nitrite	95-07942-C	12400	11300	9	--	--	--
Nitrate	95-07942-C	590000	610000	3	--	--	--
Phosphate	95-07942-C	2200	2100	5	--	--	--
Sulfate	95-07942-C	900	900	0	--	--	--

Notes:

(a) "<" indicates not detected above reported value.

(b) RPD = "n/a" when either sample or duplicate are <MDL.

(c) Smp Spk = "n/a" when Sample result >4X spiking level.

(d) "--" indicates analysis not performed on sample; e.g., only one Blank, Sample Spike, and Blank Spike analyzed per batch or Blank and Blank Spike not required on TOC/TIC/TC.

(e) Sample result estimated by titration; see narrative.

(f) Estimated value based on an estimate of final distillate volume used for calorimetric analysis; see narrative.

Table 2-4c: BY-108, Core 99 Sludge, Segment 2D and Segment 3A, Anions/Carbon/CN

Segment 2D Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07943-G	149	135	10	--	--	--
TOC	95-07943-J	2490	2090	17	--	--	--
TIC	95-07943-J	2340	2480	6	--	--	--
TC	95-07943-J	4830	4570	6	--	--	--
Fluoride	95-07943-C	3900	3800	3	--	--	--
Chloride	95-07943-C	1200	1100	9	--	--	--
Nitrite	95-07943-C	20800	19300	7	--	--	--
Nitrate	95-07943-C	247000	254000	3	--	--	--
Phosphate	95-07943-C	14100	13500	4	--	--	--
Sulfate	95-07943-C	9800	9500	3	--	--	--

Segment 3A Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07944-G	195	191	2	--	--	--
TOC	95-07944-J	3540	2670	28	--	--	--
TIC	95-07944-J	13100	9100	36	--	--	--
TC	95-07944-J	16700	11700	35	--	--	--
Fluoride	95-07944-C	5600	4800	15	--	--	--
Chloride	95-07944-C	1200	1100	9	--	--	--
Nitrite	95-07944-C	20300	17700	14	--	--	--
Nitrate	95-07944-C	235000	329000	33	--	--	--
Phosphate	95-07944-C	7600	9700	24	--	--	--
Sulfate	95-07944-C	19600	15400	24	--	--	--

Notes:
(a) "<" indicates not detected above reported value.
(b) RPD = "n/a" when either sample or duplicate are <MDL.
(c) Smp Spk = "n/a" when Sample result >4X spiking level.
(d) "--" indicates analysis not performed on sample; e.g., only one Blank, Sample Spike, and Blank Spike analyzed per batch or Blank and Blank Spike not required on TOC/TIC/TC.

Table 2-4d: BY-108, Core 99 Sludge, Segment 4A and Segment 4B, Anions/Carbon/CN

Segment 4A Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07945-G	742	760	2	--	--	--
TOC	95-07945-J	16500	17100	3	--	80	--
TIC	95-07945-J	13600	12700	6	--	63	--
TC	95-07945-J	30100	29800	1	--	--	--
Fluoride	95-07945-C	8300	5200	46			
Chloride	95-07945-C	1400	1200	15			
Nitrite	95-07945-C	35000	31000	12			
Nitrate	95-07945-C	101000	197000	64			
Phosphate	95-07945-C	19700	13400	38			
Sulfate	95-07945-C	57800	21400	92			

Segment 4B Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07946-G	1660	1650	1	--	--	--
TOC	95-07946-J	13900	13300	5	--	--	--
TIC	95-07946-J	5090	5530	8	--	--	--
TC	95-07946-J	19000	18800	1	--	--	--
Fluoride	95-07946-C	<600	<500	n/a	--	--	--
Chloride	95-07946-C	1600	1400	13	--	--	--
Nitrite	95-07946-C	48000	44000	9	--	--	--
Nitrate	95-07946-C	69000	65000	6	--	--	--
Phosphate	95-07946-C	32000	46000	36	--	--	--
Sulfate	95-07946-C	6000	4000	40	--	--	--

Notes:
(a) "<" indicates not detected above reported value.
(b) RPD = "n/a" when either sample or duplicate are <MDL.
(c) Smp Spk = "n/a" when Sample result >4X spiking level.
(d) "--" indicates analysis not performed on sample; e.g., only one Blank, Sample Spike, and Blank Spike analyzed per batch or Blank and Blank Spike not required on TOC/TIC/TC.

Table 2-4e: BY-108, Core 99 Sludge, Segment 4C and Segment 4D, Anions/Carbon/CN

Segment 4C Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07947-G	(e)	1660	n/a	--	--	--
TOC	95-07947-J	5600	4170	29	--	--	--
TIC	95-07947-J	10500	11000	5	--	--	--
TC	95-07947-J	16100	15200	6	--	--	--
Fluoride	95-07947-C	<600	<500	n/a	--	--	--
Chloride	95-07947-C	1400	1300	7	--	--	--
Nitrite	95-07947-C	42000	43000	2	--	--	--
Nitrate	95-07947-C	54000	53000	2	--	--	--
Phosphate	95-07947-C	60000	67000	11	--	--	--
Sulfate	95-07947-C	15000	17000	13	--	--	--

Segment 4D Sludge

Analyte	ALO Log #	Sample (µg/g)	Duplicate (µg/g)	RPD (%)	Blank (µg/g)	Smp Spk (%Rec)	Blk Spk (%Rec)
CN	95-07948-G	1150	(e)	n/a	--	--	--
TOC	95-07948-J	3140	3700	16	--	--	--
TIC	95-07948-J	6050	6910	13	--	--	--
TC	95-07948-J	9190	10600	14	--	--	--
Fluoride	95-07948-C	<500	<400	n/a	--	--	--
Chloride	95-07948-C	1300	1100	17	--	--	--
Nitrite	95-07948-C	40000	34000	16	--	--	--
Nitrate	95-07948-C	50000	42000	17	--	--	--
Phosphate	95-07948-C	79000	78000	1	--	--	--
Sulfate	95-07948-C	21000	9000	80	--	--	--

Notes:

(a) "<" indicates not detected above reported value.

(b) RPD = "n/a" when either sample or duplicate are <MDL.

(c) Smp Spk = "n/a" when Sample result >4X spiking level.

(d) "--" indicates analysis not performed on sample; e.g., only one Blank, Sample Spike, and Blank Spike analyzed per batch or Blank and Blank Spike not required on TOC/TIC/TC.

(e) Distillation prep sheet indicates 95-7947 sample and 95-7948 duplicate lost during distillation.

SECTION 3

RADIOCHEMISTRY

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Radiochemical Analysis

Radiochemical analyses were performed on fusion preparations of samples from Segments 1, 2A, 2D, 3A, 4A, 4B, 4C, and 4D and on acid digestions of the drainable liquids from Segments 2 and 3. In all cases a sample and a duplicate were analyzed; for each batch of samples, a hot cell blank was also analyzed. The fused samples were analyzed for total alpha, total beta, ^{90}Sr, $^{238,239+240}Pu$, uranium, and by gamma energy analysis. The drainable liquids were only analyzed for total alpha, total beta, and by gamma energy analysis. Initially, all of the fusion samples were obtained from the potassium hydroxide fusion preparation. Due to contamination problems noted with one of the blanks for this fusion, analyses were also performed for two samples and a blank prepared by sodium peroxide fusions.

Results for all radiochemical analysis performed on Tank BY-108 are presented in Tables 3-1 through 3-4. It should be noted that both the relative percent difference (RPD) and mean difference (MD) have been calculated. The MD takes individual sample uncertainty into account. Thus, a mean difference less than 1.96 indicates that there is 95% confidence that the sample and duplicate results are in agreement. When the RPD fails but the MD meets this criteria (<1.96) sample precision should be considered acceptable.

Total Alpha Analyses -- Table 3-1: Total alpha analyses were initially performed according to procedures PNL-ALO-420/421. In this method, small aliquots are dried on counting disks and counted using Ludlum scintillation counters. Two problems were noted leading to further analyses. First, the samples for this tank have a very high beta-gamma/alpha ratio. Attempts to make counting plates with reasonable levels of alpha activity resulted in unacceptably high levels of beta-gamma activity. Consequently, samples had to be further diluted resulting in very weak alpha activity and prolonged counting times of 4-8 hours. It was further observed that the counting plates contained residual solids, suggesting probable alpha attenuation due to the residual mass. Although the mass loading due to the sample material was very low (typically < 0.1 mg), solids loading from the fusion flux may have resulted in an alpha absorption effect. Selected samples were reanalyzed

using about half the amount of material in an attempt to determine potential mass absorption effects. Since these tests indicated that mass absorption of the alphas was indeed a problem, most of the samples were reanalyzed with and without a matrix spike of a ^{239}Pu standard. The net ^{239}Pu count rate data was then averaged resulting in an average mass absorption correction of 0.722 ± 20%. This factor was applied uniformly to all data for fused samples. No correction was applied to the drainable liquid data since these samples were prepared by acid digestion (no additional salt flux).

The large relative uncertainty for the mass absorption correction is attributable to the loading density on the 1-inch counting plates. This uncertainty more fairly represents the "gross" nature of the alpha measurement from a complex matrix. At the low alpha levels detected in these samples, a 20% uncertainty should be inconsequential. Isotope-specific analyses are needed to obtain more accurate alpha data.

As a check on the quality of the data, an attempt was made to compare the total alpha results with the sum of the Pu and Am measurements. Unfortunately, ^{241}Am data are not available for most of the samples since Am analyses were not requested. Although ^{241}Am can also be detected by gamma energy analysis, positive results were only obtained for three samples. The compton scattering background from the higher-energy, high-activity ^{137}Cs precludes direct gamma measurement of ^{241}Am in the rest of the samples. Hence, there are only three cases where a direct comparison of total alpha and Pu/Am data can be made. In these cases, results are in reasonable agreement; in the other cases it appears that the results are consistent, but not conclusive.

The general agreement between samples and duplicates is poor; however, the uncertainties are quite high for the total alpha data. As discussed below, sample contamination is clearly evident in some of the samples accounting for the high RPD values seen with samples for Segments 1 and 2.

It is also evident that hot cell blanks for the first hot cell preparation batch (95-07941-HCB and 95-07942-H3) indicate significant

contamination above the required level of 5% of the sample activity; however, this was not a problem for subsequent hot cell preparation blanks. Sample 95-07942-H3 is the worst case with alpha contamination higher than the sample, but less than the sample duplicate. Consequently, analyses were rerun on the sodium peroxide hot cell fusion preparation, where samples were available. (Such samples have an "N" label, rather than a "H.") The hot cell blank for this preparation (95-07941-N3) indicated no detectable alpha activity. Unfortunately, such samples were not available for sample 95-07942; however, total alpha results for samples 95-07943 and 95-07944 are slightly less than the original fusion preparation results, suggesting that some alpha contamination may be present for these samples.

Plutonium Analyses -- Table 3-1: Plutonium separations and alpha energy analyses were performed for all of the fusion samples following procedures PNL-ALO-423/422. Samples were run in three batches, as indicated in the tables, and standard and matrix spike recoveries for ^{239}Pu were excellent for all three batches. Agreement between samples and duplicates is poor for the first hot cell preparation batch, although agreement is better for the subsequent hot cell preparation batches.

The first hot cell preparation blanks (especially 95-07942-H3) indicate significant plutonium contamination, falling between the sample and duplicate for ^{238}Pu and exceeding both the sample and duplicate for $^{239+240}Pu$. It is further interesting to note that the hot cell contamination appears to be predominately ^{238}Pu whereas the samples themselves are predominately $^{239+240}Pu$. This ratio can thus also be used to gauge the extent of the hot cell contamination. The sodium peroxide hot cell prep blanks indicate a much lower level of contamination and, as with the total alpha, the Pu levels are also lower than the first contaminated hot cell prep samples. Although the hot cell blanks still exceed the 5% criteria even for the sodium peroxide fusion, the absolute alpha activity levels are quite low (< 1 nCi/g). Hence, it might be concluded that it is difficult to measure such low levels of alpha activity for samples prepared in our hot cells due to facility contamination.

Most of the Pu activity appears to be concentrated in Segment 4 where Pu levels are typically 100 times higher than for the other segments. This trend is also mirrored in the total alpha data, although Segment 1 may indicate some contamination problems due to the high 238/239+240 Pu ratio. Hence, although contamination problems are evident for both total alpha and plutonium measurements in Segments 1 and 2, these segments appear to contain only about 1% of the alpha activity contained in the Core 99.

Total Beta Analyses -- Table 3-2: Total beta analyses were performed on all samples using procedures PNL-ALO-430/431. In this method, small aliquots of the prepared samples are dried on counting plates and counted using beta gas flow proportional counters. Due to the much longer range of beta particles, there was no concern regarding mass absorption effects as seen with the total alpha measurements.

Most of the total beta measurements show reasonable agreement between the sample and duplicate except for sample 95-07946. The reasons for this difference are not understood, but may be due to sample heterogeneity, as will be discussed later.

As with the alpha and plutonium data, the first hot cell prep batch also shows significant beta contamination, especially for the blank 95-07942-H3. The sodium peroxide fusion blank shows no beta contamination; however, the total beta results for these samples are in good agreement with the potassium hydroxide fusion samples.

The total beta activity results are in good agreement with the sum of the $^{90}Sr/^{90}Y$ and ^{137}Cs data, as discussed later.

^{90}Sr Analyses -- Table 3-2: ^{90}Sr separations were performed for all of the fusion samples following procedure PNL-ALO-433/431. In this method, ^{90}Sr is separated, dried on counting plates, and counted using beta gas flow proportional counters. A count is taken as soon as possible after the

separation and about three days later to measure the ingrowth of the ^{90}Y daughter activity.

The agreement between samples and duplicates is acceptable except for samples 95-07944 and 95-07946. The first hot cell fusion preparation batch again shows significant ^{90}Sr contamination in the blank 95-07942-H3, which is significantly higher than many of the samples. This may account for the high RPD value seen for sample 95-07944. The high RPD for sample 95-07946 may be attributable to sample heterogeneity, as discussed later.

Gamma Energy Analyses -- Table 3-3: Gamma energy analyses were performed for all samples using procedure PNL-ALO-450. Ten milliliters of the sampled prepared in the hot cell were directly counted using germanium gamma detectors. In all cases, the ^{137}Cs activity completely dominated the gamma measurements. ^{241}Am was detected in three samples and $^{154,155}Eu$ was seen in four samples. ^{60}Co was seen in some samples; however, the data are quite erratic suggesting that this might be due to hot cell contamination. ^{40}K was also detected; however, this was not reported since this activity may be due to naturally occurring ^{40}K contained in the potassium hydroxide fusion prep material.

The agreement between samples and duplicates for ^{137}Cs is generally quite good, except for sample 95-07942 (RPD = 32%) where there is known to be significant hot cell contamination, as evidenced in the blank 95-07942-H3 and discussed previously for other analyses. The sodium peroxide hot cell blank indicates no contamination and the samples prepared by this method are in good agreement with the ^{137}Cs results for the potassium hydroxide fusion.

As a check on the quality of the data, the total beta activities were compared to the sum of twice the ^{90}Sr (to account for the ^{90}Y daughter) results plus the ^{137}Cs data. Although each beta emitter has a different efficiency for detection, $^{90}Sr/^{90}Y$ and ^{137}Cs have nearly identical beta counting efficiencies. The good agreement between the total beta activity and the $^{90}Sr/^{90}Y$ and ^{137}Cs activity sum indicates that these three isotopes account for nearly all of the measured beta activity.

Sample 95-07946 appears to show significant heterogeneity effects between the sample and duplicate for both the total beta, ^{90}Sr, and ^{137}Cs results. All three results have high RPD values; however, the total beta activity is in excellent agreement with the sum of the $^{90}Sr/^{90}Y$ and ^{137}Cs activities. This suggests that a real difference between the sample and duplicate exist and may have occurred during the hot cell preparation.

Uranium Analyses -- Table 3-4: Total uranium measurements were performed for all of the fused samples following procedure PNL-ALO-445. In this method, the fluorescence induced by a laser is measured with the sample in solution both before and after the addition of a uranium standard (method of standard addition).

Agreement between samples and duplicates is generally acceptable except for samples 95-07942 where hot cell contamination is quite evident, as discussed previously. Unfortunately, the sodium peroxide hot cell blank also indicates similar levels of uranium contamination. However, it should also be pointed out that most of the uranium is contained in Segment 4 and that the uranium concentrations are at least a factor of 100 times lower in the other segments. As with the alpha problem, this may again be pointing to difficulties in detecting low levels of uranium in samples prepared in our hot cells.

Also, it should be noted that the uranium results from the ICP (see Tables 2-1c and 2-1d) track very favorably with the fluorescence uranium result.

Table 3-1: Tank BY-108, Core 99 Alpha Analysis Results

Sample Number	Prep Batch	*	Total Alpha Analytical Batch	Total Alpha uCi/g	+/- % error	Pu Analytical Batch	238-Pu uCi/g	+/- % error	239+240-Pu uCi/g	+/- % error
Segment 1										
95-07941-H1T	1	F/smp	1	4.22E-02	22	1	2.10E-02	21	5.97E-03	23
95-07941-H2T	1	F/dup	1	1.91E-01	21	1	8.33E-03	8	5.37E-03	8
Mean Difference				1.81			1.42		0.21	
RPD				128 x			86 x		11 x	
95-07941-HCB	1	F/blk	1	7.80E-03	27	1	2.63E-03	11	1.05E-03	14
		std	1	101%		1			98%	
		ms				1			101%	
		blk	1	<9.3E-04		1	<1.7E-04		<1.7E-04	
Segment 2 Drainable Liquid (uCi/mL) **										
95-07932-A1	3	A/smp	2	3.65E-03	29					
95-07932-A2	3	A/dup	2	<1.3E-03						
95-07932-A3	3	A/blk	2	<1.3E-05						
Segment 2A										
95-07942-H1	1	F/smp	1	1.86E-03	47	1	1.22E-03	16	3.53E-04	21
95-07942-H2	1	F/dup	1	7.84E-03	28	1	2.43E-03	11	8.28E-04	15
Mean Difference				1.27			1.83		1.64	
RPD				123 x			66 x		80 x	
95-07942-H3	1	F/blk	1	4.66E-03	27	1	1.52E-03	12	1.45E-03	12
Segment 2D										
95-07943-H1	1	F/smp	1	4.19E-03	25	1	1.15E-03	9	1.43E-03	9
95-07943-H2	1	F/dup	1	2.80E-03	26	1	2.35E-04	13	9.15E-04	11
Mean Difference				0.54			4.24 $		1.58	
RPD				40 x			132 x		44 x	
95-07943-N1	4	FZ/smp	3	2.10E-03	47	3	1.95E-04	16	9.75E-04	12
		std				3			102%	
		blk				3	<1.7E-04		<1.7E-04	
Segment 3 Drainable Liquid (uCi/mL) **										
95-07935-A1	3	A/smp	2	<1.4E-03						
95-07935-A2	3	A/dup	2	<1.4E-03						
Segment 3A										
95-07944-H1	1	F/smp	1	9.29E-03	23	1	1.87E-03	11	3.36E-03	11
95-07944-H2	1	F/dup	1	1.01E-02	23	1	1.60E-03	10	5.02E-03	10
Mean Difference				0.13			0.52		1.33	
RPD				8			16 x		40 x	
95-07944-N1	4	FZ/smp	3	7.99E-03	31	3	4.72E-04	13	3.08E-03	10
05-07941-N3	4	FZ/blk	3	<2.4E-03		3	2.84E-04	34	1.52E-04	37
Segment 4A										
95-07945-H1	2	F/smp	1	1.50E-01	22	2	1.11E-02	14	2.19E-01	9
95-07945-H2	2	F/dup	1	1.74E-01	22	2	3.02E-03	16	1.09E-01	10
Mean Difference				0.24			2.48 $		2.44 $	
RPD				15 x			114 x		67 x	
95-07945-H3	2	F/blk	1	<1.0E-03	15	2	5.04E-04	23	3.19E-04	25
		std				2			103%	
		ms				2			92%	
		blk				2	<1.9E-04		<1.9E-04	
Segment 4B										
95-07946-H1T	2	F/smp	1	3.78E-01	21	2	6.60E-03	15	2.47E-01	9
95-07946-H2T	2	F/dup	1	2.82E-01	21	2	6.06E-03	16	1.94E-01	9
Mean Difference				0.48			0.19		0.94	
RPD				29 x			9		24 x	
95-07946-HCB	2	F/blk	1	7.14E-03	25	2	3.34E-03	11	7.03E-04	15
Segment 4C										
95-07947-H1	2	F/smp	1	4.50E-01	21	2	9.58E-03	14	1.42E-01	10
95-07947-H2	2	F/dup	1	2.93E-01	21	2	7.54E-03	13	1.37E-01	9
Mean Difference				0.70			0.61		0.13	
RPD				42 x			24 x		4	
Segment 4D										
95-07948-H1	2	F/smp	1	3.67E-01	23	2	1.23E-02	13	1.69E-01	10
95-07948-H2	2	F/dup	1	3.02E-01	21	2	9.15E-03	14	1.65E-01	11
Mean Difference				0.31			0.77		0.08	
RPD				19 x			29 x		2	

$ = the mean difference result is greater than or equal to 1.96, there is 95% confidence that the two results are not equal.

* smp = sample, dup = duplicate, blk = methods blank, std = standard
F = KOH - KNO3 Fusion in Ni crucible, FZ = Na2O2 - NaOH Fusion in Zr crucible, A = Acid Digestion
x = RPD value is greater than 10%.
** Only Drainable Liquid samples are reported in uCi/mL.

Table 3-2: Tank BY-108, Core 99 Beta Analysis Results

Sample Number	Prep Batch	*	Total Beta uCi/g	+/- % error	Sr-90 AB	Sr-90 uCi/g	+/- % error
Segment 1							
95-07941-H1T	1	F/smp	2.61E+01	3	1	3.43E+00	8
95-07941-H2T	1	F/dup	2.21E+01	3	1	2.94E+00	8
Mean Difference			1.95			0.68	
RPD			17 x			15 x	
95-07941-HCB	1	F/blk	6.02E-01	10	1	1.19E-01	30
		std			1	104%	
		ms			1	114%	
		blk			1	<3.3E-02	
Segment 2 Drainable Liquid (uCi/mL) **							
95-07932-A1	3	A/smp	1.42E+02	4			
95-07932-A2	3	A/dup	1.44E+02	4			
Mean Difference			0.12				
RPD			1				
95-07932-A3	3	A/blk	1.93E-03	6			
Segment 2A							
95-07942-H1	1	F/smp	2.39E+01	3	1	2.60E-01	16
95-07942-H2	1	F/dup	3.03E+01	3	1	2.70E-01	15
Mean Difference			2.76 $			0.09	
RPD			24 x			4	
95-07942-H3	1	F/blk	1.07E+01	4	1	1.68E+00	9
Segment 2D							
95-07943-H1	1	F/smp	4.94E+01	3	1	2.94E+00	8
95-07943-H2	1	F/dup	4.57E+01	3	1	2.87E+00	8
Mean Difference			0.92			0.11	
RPD			8			2	
95-07943-N1	4	FZ/smp	5.45E+01	3	3	2.83	8
Segment 3 Drainable Liquid (uCi/mL) **							
95-07935-A1	3	A/smp	1.46E+02	4			
95-07935-A2	3	A/dup	1.41E+02	4			
Mean Difference			0.31				
RPD			3				
Segment 3A							
95-07944-H1	1	F/smp	5.23E+01	3	1	5.32E+00	8
95-07944-H2	1	F/dup	6.31E+01	3	1	1.01E+01	8
Mean Difference			2.20 $			2.62 $	
RPD			19 x			62 x	
95-07944-N1	4	FZ/smp	5.15E+01	3	3	6.65E+00	9
05-07941-N3	4	FZ/blk	<9. E-01		3	<3.3E-02	
		std			3	90%	
		blk				<2.4E-02	
Segment 4A							
95-07945-H1	2	F/smp	7.37E+02	4	2	3.38E+02	8
95-07945-H2	2	F/dup	7.21E+02	4	2	3.69E+02	8
Mean Difference			0.19			0.39	
RPD			2			9	
95-07945-H3	2	F/blk	1.30E-01	15	2	<3.3E-02	
		std			2	116%	
		ms			2	96%	
		blk			2	<3.3E-02	
Segment 4B							
95-07946-H1T	2	F/smp	1.22E+03	4	2	5.33E+02	8
95-07946-H2T	2	F/dup	8.41E+02	4	2	3.76E+02	8
Mean Difference			3.20 $			1.50	
RPD			37 x			35 x	
95-07946-HCB	2	F/blk	2.36E-01	11	2	<3.7E-02	
Segment 4C							
95-07947-H1	2	F/smp	2.52E+03	4	2	5.89E+02	8
95-07947-H2	2	F/dup	2.71E+03	4	2	6.62E+02	8
Mean Difference			0.64			0.51	
RPD			7			12 x	
Segment 4D							
95-07948-H1	2	F/smp	3.69E+03	4	2	7.65E+02	8
95-07948-H2	2	F/dup	3.84E+03	4	2	8.56E+02	8
Mean Difference			0.35			0.50	
RPD			4			11 x	

$ = the mean difference result is greater than or equal to 1.96, there is 95% confidence that the two results are not equal.

* smp = sample, dup = duplicate, blk = methods blank, ms = matrix spike, std = standard
F = KOH - KNO3 Fusion in Ni crucible, FZ = Na2O2 - NaOH Fusion in Zr crucible, A = Acid Digestion
x = RPD value is greater than 10%.
** Only Drainable Liquid samples are reported in uCi/mL.

Table 3-3: Tank BY-108, Core 99 Gamma Energy Analysis (GEA) Results

Sample Number	*	Co-60 uCi/g	+/- % Error	Cs-134 uCi/g	+/- % Error	Cs-137 uCi/g	+/- % Error	Eu-154 uCi/g	+/- % Error	Eu-155 uCi/g	+/- % Error	Am-241 uCi/g	+/- % Error
Segment 1													
95-7941-H1T	F/smp	8.49E-03	12	<8.E-03		2.02E+01	3					<3. E-02	
95-7941-H2T	F/dup	<6. E-03		<2.E-02		1.77E+01	3					1.16E-01	15
Mean Difference						1.55							
RPD						13 x							
95-7941-HCB	F/blk	1.77E-03	15	1.67E-03	18	4.30E-01	4					<4. E-03	
95-7941-N3		<6.E-03		<5E-03		3.81E-02	12	<2.E-02		<2.E-02		<2. E-02	
Segment 2 Drainable Liquid (uCi/mL) **													
95-7932-A1	A/smp	<3. E-03		<3. E-02		1.29E+02	6	<6. E-03		<1. E-01		<7. E-02	
95-7932-A2	A/dup	<3. E-03		<3. E-02		1.30E+02	6	<6. E-03		<1. E-01		<7. E-02	
Mean Difference						0.05							
RPD						1							
95-7932-A3	A/blk	<4. E-04		<3. E-04		7.91E-04	35	<6. E-04		<1. E-03		<6. E-04	
Segment 2A													
95-7942-H1	F/smp	<2. E-02		<5.E-02		2.39E+01	5					<1. E-01	
95-7942-H2	F/dup	<3. E-03		<2.E-02		3.30E+01	3					<6. E-02	
Mean Difference						2.93 $							
RPD						32 x							
95-7942-H3	F/blk	1.64E-03	15	<4.E-03		9.36E+00	4					<2. E-02	
Segment 2D													
95-7943-H1	F/smp	1.94E-03	14	<8.E-03		4.82E+01	3					<4. E-02	
95-7943-H2	F/dup	2.83E-03	17	<9.E-03		4.53E+01	3					<3. E-02	
Mean Difference		0.81				0.73							
RPD		37 x				6							
95-7943-N1	F/smp	<6. E-03		<3.E-02		5.23E+01	3	<2.E-02		<8.E-02		<8.E-02	
Segment 3 Drainable Liquid (uCi/mL) **													
95-7935-A1	A/smp	<3. E-03		<4. E-02		1.41E+02	6	<7. E-03		<1. E-01		<7. E-02	
95-7935-A2	A/dup	<3. E-03		<3. E-02		1.37E+02	6	<7. E-03		<1. E-01		<7. E-02	
Mean Difference						0.17							
RPD						3							
Segment 3A													
95-7944-H1	F/smp	3.29E-03	10	<9E-03		4.34E+01	3					<4. E-02	
95-7944-H2	F/dup	2.30E-03	13	<8E-03		4.96E+01	4					<3. E-02	
Mean Difference		1.11				1.31							
RPD		35 x				13 x							
95-7944-N1	FZ/smp	7.82E-3	6	<7E-03		4.33E+1	6	<4.E-03		<2.E-02		<3. E-02	
Segment 4A													
95-7945-H1	F/smp	1.32E-02	3	<5.E-03		7.05E+01	3	3.93E-02	3	3.83E-02	8	1.94E-02	45
95-7945-H2	F/dup	5.44E-03	5	<4.E-03		7.21E+01	3	3.54E-02	3	3.67E-02	8	1.64E-02	40
Mean Difference		8.08 $				0.26		1.23		0.19		0.14	
RPD		83 x				2		10 x		4		17 x	
95-7945-H3	F/blk	2.22E-03	9	<6.E-04		6.05E-02	4	<2. E-03		<2. E-03		<2. E-03	
Segment 4B													
95-7946-H1T	F/smp	6.21E-03	14	<2.E-02		1.13E+02	3	8.28E-02	4	8.62E-02	12	<9. E-02	
95-7946-H2T	F/dup	7.75E-03	11	<2.E-02		9.48E+01	3	6.20E-02	5	6.75E-02	14	3.20E-02	65
Mean Difference		0.63				2.06 $		2.29 $		0.67			
RPD		22 x				18 x		29 x		24 x			
95-7946-HCB	F/blk	1.75E-03	16	<1.E-03				<2. E-03		<2. E-03		<3. E-03	
Segment 4C													
95-7947-H1	F/smp	<3. E-02		<4.E-01		1.20E+03	5	<2. E-01		<2. E+00		<8. E-01	
95-7947-H2	F/dup	<3. E-02		<4.E-01		1.34E+03	5	<2. E-01		<2. E+00		<7. E-01	
Mean Difference						0.78							
RPD						11							
Segment 4D													
95-7948-H1	F/smp	<4. E-02		<5.E-01		2.08E+03	5	<2. E-01		<2. E+00		<1. E+00	
95-7948-H2	F/dup	<4. E-02		<5.E-01		2.12E+03	5	<2. E-01		<2. E+00		<2. E+00	
Mean Difference						0.13							
RPD						2							

$ = the mean difference result is greater than or equal to 1.96, there is 95% confidence that the two results are not equal.

* smp = sample, dup = duplicate, blk = methods blank
F = KOH - KNO3 Fusion in Ni crucible, FZ = Na2O2 - NaOH Fusion in Zr crucible, A = Acid Digestion

** Only Drainable Liquid samples are reported in uCi/mL.

Table 3-4: Tank BY-108, Core 99 Uranium Analysis Results

Sample Number	Prep Batch	*	Analytical Batch	Uranium ug/g	+/- % error	
Segment 1						
95-07941-H1T	1	F/smp	1	1.01E+02	14	
95-07941-H2T	1	F/dup	1	1.02E+02	14	
Mean Difference				0.02		
RPD				1		
95-07941-HCB	1	F/blk	1	3.33E+01	35	
		std	1	105%		
		blk	1	< 5. E-02		
Segment 2A						
95-07942-H1	1	F/smp	1	2.20E+01	51	
95-07942-H2	1	F/dup	1	3.05E+01	35	
Mean Difference				0.27		
RPD				32	x	
95-07942-H3	1	F/blk	1	1.58E+01	67	
Segment 2D						
95-07943-H1	1	F/smp	1	1.26E+02	5	
95-07943-H2	1	F/dup	1	1.24E+02	5	
Mean Difference				0.11		
RPD				2		
95-07943-N1	4	FZ/smp	3	1.35E+02	5	
		std	3	105%		
		blk	3	<2.6E-02		
Segment 3A						
95-07944-H1	1	F/smp	2	5.01E+02	24	
95-07944-H2	1	F/dup	2	5.35E+02	18	
Mean Difference				0.11		
RPD				7		
		std	2	100%		
		blk	2	<5. E-01		
95-07944-N1	4	FZ/smp	4	4.72E+02	17	
05-07941-N3	4	FZ/blk	3	1.34E+01	67	
		std	4	105%		
		blk	4	<3.3E-01		
Segment 4A						
95-07945-H1	2	F/smp	1	3.23E+04	6	
95-07945-H2	2	F/dup	1	3.19E+04	5	
Mean Difference				0.08		
RPD				1		
95-07945-H3	2	F/blk	1	2.19E+01	48	
Segment 4B						
95-07946-H1T	2	F/smp	2	5.49E+04	21	
95-07946-H2T	2	F/dup	2	4.86E+04	24	
Mean Difference				0.19		
RPD				12	x	
95-07946-HCB	2	F/blk	1	<1.1E+01		
Segment 4C						
95-07947-H1	2	F/smp	5	4.67E+04	21	
95-07947-H2	2	F/dup	5	4.82E+04	16	
Mean Difference				0.06		
RPD				3		
		std		103%		
		blk		<3. E-01		
Segment 4D						
95-07948-H1	2	F/smp	2	4.58E+04	26	
95-07948-H2	2	F/dup	1	5.04E+04	5	
Mean Difference				0.19		
RPD				10		

NOTE: If the mean difference result is greater than or equal to 1.96, there is 95% confidence that the two results are not equal.

* smp = sample, dup = duplicate, blk = methods blank, std = standard
F = KOH - KNO3 Fusion in Ni crucible, FZ = Na2O2 - NaOH Fusion in Zr crucible, A = Acid Digestion
x = RPD value is greater than 10%.

WHC-SD-WM-DP-145, REV.1

SINGLE SHELL TANK

WASTE CHARACTERIZATION PROJECT

TANK BY-108 CORE 99
Revision 0

September 1995

Prepared By: KL Silvers
LR Greenwood
RT Steele
JM Tingey
MW Urie

Pacific Northwest Laboratory

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WHC-SD-WM-DP-145, REV. 1

SINGLE SHELL TANK

WASTE CHARACTERIZATION PROJECT

APPENDICES

PRIMARY ANALYTICAL DATA

TANK BY-108 CORE 99
Revision 0

September 1995

Pacific Northwest Laboratory

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SINGLE SHELL TANK

WASTE CHARACTERIZATION PROJECT

APPENDIX A

SUPPORTING DOCUMENTATION

TANK BY-108 CORE 99

September 1995

Pacific Northwest Laboratory

A1 - SIGNATURE LIST

325 BUILDING STAFF
SIGNATURE LIST

ANALYST NAME	INITIALS	WRITTEN NAME	WRITTEN INITIALS
QA/QC			
KJ KUHL-KLINGER	KJK		
OP BREDT	OPB		
JD MATHESON	JDM		
RG SWOBODA	RGS		
PROJ MGMT & SUPPORT			
KL SILVERS	KLS		
BM THORNTON	BMT		
DL BELLOFATTO	DLB		
TL BURRUSS	TLB		
EA NELSON	EAN		
LE TOOKER	LET		
SHIELDED ANALYTICAL LABORATORY			
RT STEELE	RTS		
KJ SMITH	KJS		
FV HOOPES	FVH		
CE CHAMBERLIN	CEC		
LP DARNELL	LPD		
IC HENRY	ICH		
JK RAU	JKR		
INORGANIC			
MW URIE	MWU		
DL BALDWIN	DLB		
BJ COOK	BJC		
PK MELETHIL	PKM		
MM O'NEILL	MMO		
JJ WAGNER	JJW		
D ORTIZ	DO		
DR SANDERS	DRS		

L:\PPC\DATAPKG\CORE99

325 BUILDING STAFF SIGNATURE LIST

ANALYST NAME	INITIALS	WRITTEN NAME	WRITTEN INITIALS
ORGANIC			
EW HOPPE	EWH		
GS KLINGER	GSK		
GA ROSS	GAR		
MJ STEELE	MJS		
RADIOCHEMISTRY			
LR GREENWOOD	LRG		
SK FADEFF	SDF		
RT RATNER	RTR		
TL TRANG -LE	TLT		
KA POEPPEL	KAP		
KK THOMAS	KKT		
PROCESS CHEMISTRY			
JM TINGEY	JMT		
SM HEINISCH	SMH		
PR BREDT	PRB		
DL ALEXANDER	DLA		
GM RICHARDSON	GMR		
D RINEHART	DR		
SM TINGEY	SMT		

L:\PPC\DATAPKG\CORE99

A2 - WHC CHAINS OF CUSTODY

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DON'T SAY IT -- *Write It!* Date: September 28, 1995

To: File (BY-108 Core Analysis) From: KL Silvers

Subject: BY-108 SAMPLES RECEIVED WITHOUT CHAIN-OF-CUSTODY

Tank BY-108 Core 99, Segments 1-4 were received from the WHC 222-S Laboratory starting on August 15 and completing on August 25, 1995. All shipments were documented via a Radioactive Shipping Record (RSR). No chain-of-custody documentation accompanied the shipments. Sample identification (i.e. sample number) was communicated by a fax. During the removal of samples from the shipping casks it was noted that the sample numbers for Segment 4A, 4B, 4C, and 4D did not match the previous faxed sample identification information. The WHC point of contact (POC) was contacted and the issue communicated. The POC advised that Segment 4 had been further subsampled (30g) into new containers with new identification numbers. The new numbers were later faxed and the correlation to sample identification completed.

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A3 - PNL CHAINS OF CUSTODY

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WHC-SD-WM-DP-145, REV. 1

HLRF TO SAL CHAINS OF CUSTODY

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Page 1 of 1 Chain of Custody Number TWC-45

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Segment 1 and Qtr Segment 4B ORIGINATOR HLRF

APPLICABLE TEST INSTRUCTION TI95-TWC-01

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test

PREP METHOD N/A

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
~~95-07941-H1T~~ 95-07941-T-1	BY-108, C99, S1-Top	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07941-H2T~~ 95-07941-T-2	BY-108, C99, S1-Top Dup	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07941-H1B~~ 95-07941-B-1	BY-108, C99, S1-Bottom	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07941-H2B~~ 95-07941-B-2	BY-108, C99, S1-Bottom Dup	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07946-H1T~~ 95-07946-T-1	BY-108, C99, Qtr Seg 4B Top	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07946-H2T~~ 95-07946-T-2	BY-108, C99, Qtr Seg 4B Top Dup	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07946-H1B~~ 95-07946-B-1	BY-108, C99, Qtr Seg 4B Bottom	Scott Timpa	8/29/95	CEC	8-29-95
~~95-07946-H2B~~ 95-07946-B-2	BY-108, C99, Qtr Seg 4B Bottom Dup	Scott Timpa	8/29/95	CEC	8-29-95

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Page 1 of 1

Chain of Custody Number TWC-51

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR HLRF

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Chemical Analyses per Test Instruction

PREP METHOD None

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07945	7716	Scott T	9-6-95	CEC	9-6-95
95-07946	7717	Scott T	9-6-95		
95-07947	7718	Scott T	9-6-95		
95-07948	7719	Scott T	9-6-95		
95-07935	7398	Scott T	9-6-95		
95-07932	7397	Scott T	9-6-95		
95-07944	7379	Scott T	9-6-95		
95-07942	7506	Scott T	9-6-95		
95-07943	7505	Scott T	9-6-95		
95-07941	7504	Scott T	9-6-95		

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SAL TO LAB CHAINS OF CUSTODY

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Page 1 of 1 Chain of Custody Number TWC-46

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Segment 1 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test - ICP

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-H1T	BY-108, C99, Segment 1-Top	CEL	9-1-95	DKS	9-1-95
95-07941-H2T	BY-108, C99, Segment 1-Top Dup	↓	↓	↓	↓
95-07941-HCB	Methods Blank				
95-07941-H1B	BY-108, C99, Segment 1-Bottom				
95-07941-H2B	BY-108, C99, Segment 1- Bottom Dup				

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Page 1 of 1 Chain of Custody Number TWC-47

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Segment 1 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test - GEA

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-H1T	BY-108, C99, Segment 1-Top	C&E	9-1-95	K Poppel	9/1/95
95-07941-H2T	BY-108, C99, Segment 1-Top Dup	↓	↓	↓	↓
95-07941-HCB	Methods Blank				
95-07941-H1B	BY-108, C99, Segment 1-Bottom				
95-07941-H2B	BY-108, C99, Segment 1- Bottom Dup	↓	↓	K&R 9/1/95	K&R 9/1/95

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Page 1 of 1 Chain of Custody Number TWC-48

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Quarter Segment 4B ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test - ICP

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07946-H1T	BY-108, C99, Qtr Segment 4B Top	CEC	9-1-95	DKS	9-1-95
95-07946-H2T	BY-108, C99, Qtr Segment 4B Top Dup	↓	↓	↓	↓
95-07946-HCB	Methods Blank				
95-07946-H1B	BY-108, C99, Qtr Segment 4B Bottom				
95-07946-H2B	BY-108, C99, Qtr Segment 4B Bottom Dup				

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Chain of Custody Number TWC-49

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Quarter Segment 4B

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test - GEA

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07946-H1T	BY-108, C99, Qtr Segment 4B Top	CEC	9-1-95	[illegible]	9-1-95
95-07946-H2T	BY-108, C99, Qtr Segment 4B Top Dup				
95-07946-HCB	Methods Blank				
95-07946-H1B	BY-108, C99, Qtr Segment 4B Bottom				
95-07946-H2B	BY-108, C99, Qtr Segment 4B Bottom Dup				

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ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99, Segment 1 and Qtr Segment 4B ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-02

ANALYSIS REQUESTED OR DEPARTMENT Homogenization Test - ICP

PREP METHOD HNO3-HCl Acid Digestion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-H1T	BY-108, C99, Segment 1 Top	CRE	9-1-95	DRS	9-1-95
95-07941-H2T	BY-108, C99, Segment 1 Top Dup	↓	↓	↓	↓
95-07941-HCB	Methods Blank				
95-07946-H1T	BY-108, C99, Qtr Segment 4B Top				
95-07946-H2T	BY-108, C99, Qtr Segment 4B Top Dup				

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Page 1 of 1 **Chain of Custody Number** TWC-52

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP

PREP METHOD Water Leach

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-C1	BY108, C99, S1		9/8/95		9/8/95
95-07941-C2	BY108, C99, S1, Dup				9/8/95
95-07941-C3	Method Blank				
95-07942-C1	BY108, C99, Qtr Seg 2A				
95-07942-C2	BY108,C99,Qtr Seg 2A Dup				
95-07943-C1	BY108, C99 Qtr Seg 2D				
95-07943-C2	BY108, C99 Qtr Seg 2D Dup				
95-07944-C1	BY108, C99, Qtr Seg 3A				
95-07944-C2	BY108,C99,Qtr Seg 3A Dup				
95-07945-C1	BY108, C99, Qtr Seg 4A				
95-07945-C2	BY108,C99, Qtr Seg 4A Dup				
95-07946-C1	BY108, C99, Qtr Seg 4B				
95-07946-C2	BY108,C99, Qtr Seg 4B Dup				
95-07947-C1	BY108, C99, Qtr Seg 4C				
95-07947-C2	BY108,C99, Qtr Seg 4C Dup				
95-07948-C1	BY108, C99, Qtr Seg 4D				
95-07948-C2	BY108,C99, Qtr Seg 4D Dup				

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Page 1 of 1 Chain of Custody Number TWC-53

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT IC

PREP METHOD Water Leach

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-C1	BY108, C99, S1	[illegible]	9/2/95	M.M.O	9-7-95
95-07941-C2	BY108, C99, S1, Dup	[illegible]			
95-07941-C3	Method Blank	[illegible]			
95-07941-C4	Matrix Spike	[illegible]			
95-07941-C5	Blank Spike	[illegible]			
95-07942-C1	BY108, C99, Qtr Seg 2A	[illegible]			
95-07942-C2	BY108,C99,Qtr Seg 2A Dup	[illegible]			
95-07943-C1	BY108, C99 Qtr Seg 2D	[illegible]			
95-07943-C2	BY108, C99 Qtr Seg 2D Dup	[illegible]			
95-07944-C1	BY108, C99, Qtr Seg 3A	[illegible]			
95-07944-C2	BY108,C99,Qtr Seg 3A Dup	[illegible]			
95-07945-C1	BY108, C99, Qtr Seg 4A	[illegible]			
95-07945-C2	BY108,C99, Qtr Seg 4A Dup	[illegible]			
95-07946-C1	BY108, C99, Qtr Seg 4B	[illegible]			
95-07946-C2	BY108,C99, Qtr Seg 4B Dup	[illegible]			
95-07947-C1	BY108, C99, Qtr Seg 4C	[illegible]			
95-07947-C2	BY108,C99, Qtr Seg 4C Dup	[illegible]			
95-07948-C1	BY108, C99, Qtr Seg 4D	[illegible]			
95-07948-C2	BY108,C99, Qtr Seg 4D Dup	[illegible]			

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Page 1 of 1 Chain of Custody Number TWC-54

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-H1T	BY108, C99, S1 Top		9/12/95		9/12/95
95-07941-H2T	BY108, C99, S1 Top Dup				
95-07941-HCB	Method Blank				
95-07942-H1	BY108,C99, Qtr Seg 2A				
95-07942-H2	BY108,C99,Qtr Seg 2A Dup				
95-07942-H3	Method Blank				
95-07943-H1	BY108,C99,Qtr Seg 2D				
95-07943-H2	BY108,C99,Qtr Seg 2D Dup				
95-07944-H1	BY108,C99 Qtr Seg 3A				
95-07944-H2	BY108,C99,Qtr Seg 3A Dup				
SRM-2709-H	Standard Reference Material				

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Page 1 of 1 Chain of Custody Number TWC-55

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07945-H1	BY108, C99, Qtr Seg 4A		9/12/95		9/12/95
95-07945-H2	BY108,C99,Qtr Seg 4A Dup				
95-07945-H3	Method Blank				
95-07946-H1T	BY108,C99,Qtr Seg 4B Top				
95-07946-H2T	BY108,C99,Qtr Seg 4B Top Dup				
95-07946-HCB	Method Blank				
95-07947-H1	BY108,C99,Qtr Seg 4C				
95-07947-H2	BY108,C99,Qtr Seg 4C Dup				
95-07948-H1	BY108,C99 Qtr Seg 4D				
95-07948-H2	BY108,C99,Qtr Seg 4D Dup				
SRM-2709-H	Standard Reference Material				

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Page 1 of 1 Chain of Custody Number TWC-56

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP

PREP METHOD Zr/Na202 Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-N1	BY108, C99, Segment 1	[signature]	9/12/95	DKS	9/12/95
95-07941-N2	BY108,C99, Segment 1 Dup				
95-07941-N3	Method Blank				
~~95-07942-N1~~	~~BY108, C99, Qtr Seg 2A~~	9/8/11-95			
95-07943-N1	BY108, C99, Qtr Seg 2D				
95-07944-N1	BY108, C99, Qtr Seg 3A				
95-07945-N1	BY108, C99, Qtr Seg 4A				
95-07946-N1	BY108, C99, Qtr Seg 4B				
95-07947-N1	BY108, C99, Qtr Seg 4C				
95-07948-N1	BY108, C99, Qtr Seg 4D				
SRM-2709-N	Standard Reference Material				

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Page 1 of 1 Chain of Custody Number TWC-57

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP-Drainable Liquid

PREP METHOD Acid Digest

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07932-A1	BY108, C99, Segment 1	[signature]	9/11/95	[signature]	9/11/95
95-07932-A2	BY108,C99, Segment 1 Dup	↓	↓	↓	↓
95-07932-A3	Method Blank	↓	↓	↓	↓
95-07932-A4	Matrix Spike	↓	↓	↓	↓
95-07932-A5	Spike Control	↓	↓	↓	↓
95-07935-A1	BY108, C99, Segment 3	↓	↓	↓	↓
95-07935-A2	BY108,C99, Segment 3 Dup	↓	↓	↓	↓

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Chain of Custody Number TWC-58

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT IC-Drainable Liquid

PREP METHOD Water Leach

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07932-C1	BY108, C99, Segment 1	[illegible]	9/8/95	MMD	9-8-95
95-07932-C2	BY108,C99, Segment 1 Dup	[illegible]			
95-07932-C3	Method Blank	[illegible]			
95-07932-C4	Matrix Spike	[illegible]			
95-07932-C5	Spike Control	[illegible]			
95-07935-C1	BY108, C99, Segment 3	[illegible]			
95-07935-C2	BY108,C99, Segment 3 Dup	[illegible]			

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Page 1 of 1 Chain of Custody Number TWC-59

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT ICP-Drainable Liquid

PREP METHOD Water Leach

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07932-C1	BY108, C99, Segment 1	[illegible]	9/8/95	[illegible]	9/8/95
95-07932-C2	BY108,C99, Segment 1 Dup	[illegible]	↓	↓	↓
95-07932-C3	Method Blank	[illegible]			
95-07935-C1	BY108, C99, Segment 3	[illegible]			
95-07935-C2	BY108,C99, Segment 3 Dup	[illegible]	↓	↓	↓

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Chain of Custody Number TWC-60

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT Total Alpha, Total Beta, GEA - Drainable Liquid

PREP METHOD Acid Digest

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07932-A1	BY108, C99, Segment 1	[illegible]	9/11/95	[illegible]	9/14/95
95-07932-A2	BY108,C99, Segment 1 Dup	[illegible]		[illegible]	
95-07932-A3	Method Blank	[illegible]		[illegible]	
95-07935-A1	BY108, C99, Segment 3	[illegible]		[illegible]	
95-07935-A2	BY108,C99, Segment 3 Dup	[illegible]		[illegible]	

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Chain of Custody Number TWC-61

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT Total Alpha, Alpha/AEA, GEA, Total Beta, Sr-90, U/Laser

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-H1T	BY108, C99, Segment 1	[illegible]	9/12/95	K4p	9/12/95
95-07941-H2T	BY108,C99, Segment 1 Dup				
95-07941-HCB	Method Blank				
95-07942-H1	BY108, C99, Qtr Seg 2A				
95-07942-H2	BY108,C99,Qtr Seg 2A Dup				
95-07942-H3	Method Blank				
95-07943-H1	BY108, C99, Qtr Seg 2D				
95-07943-H2	BY108,C99,Qtr Seg 2D Dup				
95-07944-H1	BY108, C99, Qtr Seg 3A				
95-07944-H2	BY108,C99,Qtr Seg 3A Dup				

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Chain of Custody Number TWC-62

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT Total Alpha, Alpha/AEA, GEA, Total Beta, Sr-90, U/Laser

PREP METHOD Ni/KOH Fusion

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07945-H1	BY108, C99, Qtr Seg 4A	[illegible]	9/12/95	[illegible]	9/12/95
95-07945-H2	BY108,C99,Qtr Seg 4A Dup				
95-07945-H3	Method Blank				
95-07946-H1T	BY108, C99, Qtr Seg 4B				
95-07946-H2T	BY108,C99,Qtr Seg 4B Dup				
95-07946-HCB	Method Blank				
95-07947-H1	BY108, C99, Qtr Seg 4C				
95-07947-H2	BY108,C99,Qtr Seg 4C Dup				
95-07948-H1	BY108, C99, Qtr Seg 4D				
95-07948-H2	BY108,C99,Qtr Seg 4D Dup				

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Chain of Custody Number TWC-63

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99 ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT Cyanide - Drainable Liquid

PREP METHOD Microdistillation

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07932-G1	BY108, C99, Seg 2 Drainable Liquid	[illegible]	9-14-95	MMO	9-14-95
95-07932-G2	BY108,C99, Seg 2 Drainable Liquid Dup	↓	↓	↓	↓
95-07932-G3	Method Blank				
95-07932-G4	Matrix Spike				
95-07932-G5	Spike Control				
95-07935-G1	BY108, C99, Seg 3 Drainable Liquid				
95-07935-G2	BY108, C99, Seg 3 Drainable Liquid Dup				

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WHC-SD-WM-DP-145, REV.1

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Chain of Custody Number TWC-64

ACL CHAIN OF CUSTODY

SAMPLE DESCRIPTION Tank BY-108, Core 99

ORIGINATOR SAL

APPLICABLE TEST INSTRUCTION TI95-TWC-03

ANALYSIS REQUESTED OR DEPARTMENT Cyanide - Solids

PREP METHOD Microdistillation

ACL SAMPLE NUMBER	SAMPLE DESCRIPTION	SENDER	DATE	RECEIVER	DATE
95-07941-G1	BY108, C99, Seg 1	[signature]	9/14/95	MNO	9-14-95
95-07941-G2	BY108,C99, Seg 1 Dup				
95-07941-G3	Method Blank				
95-07941-G4	Matrix Spike				
95-07941-G5	Spike Control				
95-07942-G1	BY108, C99, Seg 2A	[signature]			
95-07942-G2	BY108, C99, Seg 2A				
95-07943-G1	BY108, C99, Seg 2D				
95-07943-G2	BY108, C99, Seg 2D Dup				
95-07944-G1	BY108, C99, Seg 3A				
95-07944-G2	BY108, C99, Seg 3A Dup	[signature]			
95-07945-G1	BY108, C99, Seg 4A				
95-07945-G2	BY108, C99, Seg 4A Dup				
95-07946-G1	BY108, C99, Seg 4B				
95-07946-G2	BY108, C99, Seg 4B Dup				
95-07947-G1	BY108, C99, Seg 4C				
95-07947-G2	BY108, C99, Seg 4C Dup				
95-07948-G1	BY108, C99, Seg 4D				
95-07948-G2	BY108, C99, Seg 4D Dup	[signature]			

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A4 - TEST INSTUCTIONS

CONTROLLED DOCUMENT
COPY NO. 01

WHC-SD-WM-DP-145, REV. 1

TANK CHARACTERIZATION
TEST INSTRUCTIONS FOR HLRF RECEIPT AND ANALYSES OF SST 241-BY-108, CORE 99 SEGMENTS 1-4

DATE PREPARED: August 23, 1995 PREPARED BY: KL Silvers

SAMPLE NUMBERS: 95-07931 - 95-07948

APPROVED BY: [signature] DATE: 8/25/95

CONTROLLING DOCUMENTS: Project No: 21372

WHC TCP: Tank 241-BY-108 Tank Characterization Plan (WHC-SD-WM-TP-275)
Revision OE - ECN No: 6621348 (August, 1995)
PNL QAP: MCS-033, Revision 2 (April, 1995)
Controlling Procedure: PNL-ALO-010

INTRODUCTION

This Test Instruction (TI) defines the scope of work to be completed on Single-Shell Tank (SST) 241-BY-108, Core 99 Segments 1, 2, 3 and 4. The samples from this tank will be analyzed according to TCP (WHC-SD-WM-TP-275 Rev. OE).

The subsampled tank material from WHC will be analyzed as-received for TGA (on unhomogenized tank material subsamples and an aliquot from each of the two drainable liquid samples). In addition, DSC and bulk density will be required on the homogenized samples.

Homogenization will be conducted on all non-TGA sample material. A homogenization check will be performed on Segment 1 and Quarter-Segment 4B. An aliquot of homogenized sample material will be removed and transferred to the Shielded Analytical Laboratory (SAL) for preparation of the homogenization check samples. An ICP and GEA analysis will be conducted to evaluate the homogenization process. If the analytical results indicate the sample to be non-homogenized, another attempt will be made to homogenize prior to performing any analytical determination.

Homogenized sample material will be transferred to the SAL for preparation and distribution to the analytical laboratories to complete the scope of work.

Sample receiving and homogenization activities should be charged against work package K28859 and K28860, respectively.

All activities identified in this Test Instruction shall be charged against Project 21372. All analyses are to be completed at Impact Level 2. All analyses are to be completed following the identified procedures. Any deviations to the procedures must be documented and this documentation must

accompany the analytical data. All analytical data are returned to the Laboratory Support Office.

REQUESTED ANALYSES

Requested Analysis		Procedure Number	WP#
TGA	unhomogenized sample	PNL-ALO-508	K28861
DSC	homogenized subsample	PNL-ALO-508	K28861
Bulk Density	homogenized subsample	PNL-ALO-501	K28865

A-HOT CELL SAMPLE INSTRUCTIONS

- All analyses should be performed in duplicate if adequate sample is available. If adequate sample is not available, document and notify the PM.
- Collect a TGA sample aliquot from each of the two drainable liquid samples (i.e. Segment 2 and Segment 3).
- Perform TGA analyses on the unhomogenized solid and liquid samples.
- All other samples should be homogenized. In the event insufficient sample exist to perform the traditional homogenization, a best effort should be made to thoroughly mix the material prior to analysis.
- A homogenization check will be conducted on Segment 1 and Quarter-Segment "B" from Segment 4 (i.e. 4B). Collect duplicate homogenization check samples from the top and bottom (approx. 3 grams) and transfer to the SAL. No further testing shall be conducted until results of the homogenization check are reviewed and results deemed valid. RLS 9/25/95
- The ACL sample numbers should be assigned as follows:

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Segment 1 (TGA-unhomogenized)	95-07931
Core 99 - Segment 1	95-07941
Core 99 - Segment 2 (liquid and subsample liquid for TGA)	95-07932
Core 99 - Quarter-Segment 2A (TGA-unhomogenized)	95-07933
Core 99 - Quarter-Segment 2D (TGA-unhomogenized)	95-07934
Core 99 - Quarter-Segment 2A (homogenized)	95-07942
Core 99 - Quarter-Segment 2D "	95-07943
Core 99 - Segment 3 (liquid and subsample liquid for TGA)	95-07935

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Quarter-Segment 3A (TGA-unhomogenized)	95-07936
Core 99 - Quarter-Segment 3A (homogenized)	95-07944
Core 99 - Quarter-Segment 4A (TGA-unhomogenized)	95-07937
Core 99 - Quarter-Segment 4B (TGA-unhomogenized)	95-07938
Core 99 - Quarter-Segment 4C (TGA-unhomogenized)	95-07939
Core 99 - Quarter-Segment 4D (TGA-unhomogenized)	95-07940

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Quarter-Segment 4A (homogenized)	95-07945
Core 99 - Quarter-Segment 4B "	95-07946
Core 99 - Quarter-Segment 4C "	95-07947
Core 99 - Quarter-Segment 4D "	95-07948

Tank BY-108 Core 99 Sample Identification

	WHC Sample Number	ACL Number	Sample Description	Sample Volume
Segment 1	Vial # 7313	95-07931	Unhomogenized TGA Sample	3.3 g
	Jar # 7504	95-07941	Segment 1 Solids	53.1 g
Segment 2	Jar # 7397	95-07932	Drainable Liquid	230 mL
	Jar # 7397	95-07932	Drainable Liquid - TGA Subsample	TBD
	Vial # 7315	95-07933	QS-2A TGA Sample	1.9 g
	Vial # 7314	95-07934	QS-2D TGA Sample	4.0 g
	Jar # 7506	95-07942	QS-2A Solids	7.1 g
	Jar # 7505	95-07943	QS-2D Solids	24.0 g
Segment 3	Jar # 7398	95-07935	Drainable Liquid	25 mL
	Jar # 7398	95-07935	Drainable Liquid - TGA Subsample	TBD
	Vial # 7316	95-07936	QS-3A TGA Sample	3.5 g
	Jar # 7379	95-07944	QS-3A Solids	18.9 g
Segment 4	Vial # 7322	95-07937	QS-4A TGA Sample	4.0 g
	Vial # 7319	95-07938	QS-4B TGA Sample	4.3 g
	Vial # 7318	95-07939	QS-4C TGA Sample	4.6 g
	Vial # 7317	95-07940	QS-4D TGA Sample	5.3 g
	Jar # 7478	95-07945	QS-4A Solids	TBD
	Jar # 7476	95-07946	QS-4B Solids	TBD
	Jar # 7400	95-07947	QS-4C Solids	TBD
	Jar # 7399	95-07948	QS-4D Solids	TBD

TANK CHARACTERIZATION
TEST INSTRUCTIONS FOR HOMOGENIZATION CHECK OF SST 241-BY-108, CORE 99 SEGMENT 1 AND QUARTER-SEGMENT 4B

DATE PREPARED: August 23, 1995 PREPARED BY: KL Silvers

SAMPLE NUMBERS: 95-07941 & 95-07946

APPROVED BY: K L Silvers DATE: 8/25/95

CONTROLLING DOCUMENTS: Project No: 21372

WHC TCP: Tank 241-BY-108 Tank Characterization Plan (WHC-SD-WM-TP-275)
Revision OE - ECN No: 6621348 (August, 1995)
PNL QAP: MCS-033, Revision 2 (April, 1995)
Controlling Procedure: PNL-ALO-010

INTRODUCTION

This Test Instruction (TI) defines the scope of work to be completed on Single-Shell Tank (SST) 241-BY-108, Core 99 Segment 1 and Quarter-Segment 4B homogenization check samples. The samples from this tank will be analyzed according to TCP (WHC-SD-WM-TP-275 Rev. OE).

All activities identified in this Test Instruction shall be charged against Project 21372. All analyses are to be completed at Impact Level 2. All analyses are to be completed following the identified procedures. Any deviations to the procedures must be documented and this documentation must accompany the analytical data. All analytical data are returned to the Laboratory Support Office.

SAL SAMPLE PREPARATION FOR HOMOGENIZATION CHECK:

Duplicate fusions should be completed for each of the two homogenization check samples. The samples will be distributed for both ICP and GEA. A single Methods Blank is required per batch.

Caustic Fusion (WPkg K28863) PNL-ALO-115
(QC Requirements: Duplicate, Blank)

Perform duplicate acid digestions via PNL-ALO-129 for visual confirmation of sample solubility.

REQUESTED ANALYSES FOR HOMOGENIZATION CHECK:

Requested Analysis	Procedure Number	Task Leader	WP#
ICP (Fusion)	PNL-ALO-211	Urie	K28866
GEA (Fusion)	PNL-ALO-450	Greenwood	K28872

SAMPLE IDENTIFICATION SYSTEM FOR HOMOGENIZATION CHECK:

Segment 1	Quarter-Segment 4B	
95-07941-H1T	95-07946-H1T	Sample - Top
95-07941-H2T	95-07946-H2T	Duplicate - Top
95-07941-HCB	95-07946-HCB	Methods Blank
95-07941-H1B	95-07946-H1B	Sample - Bottom
95-07941-H2B	95-07946-H2B	Duplicate - Bottom

TANK CHARACTERIZATION
TEST INSTRUCTIONS FOR ANALYSES OF
SST 241-BY-108, CORE 99 SEGMENTS 1-4

DATE PREPARED: September 12, 1995 PREPARED BY: KL Silvers

SAMPLE NUMBERS: 95-07931 - 95-07948

APPROVED BY: Kyle L. Silvers DATE: 9/12/95

CONTROLLING DOCUMENTS: Project No: 21372

WHC TCP: Tank 241-BY-108 Tank Characterization Plan (WHC-SD-WM-TP-275)
Revision OE - ECN No: 6621348 (August, 1995)
PNL QAP: MCS-033, Revision 2 (April, 1995)
Controlling Procedure: PNL-ALO-010

INTRODUCTION

This Test Instruction (TI) defines the scope of work to be completed on Single-Shell Tank (SST) 241-BY-108, Core 99 Segments 1, 2, 3 and 4. The samples from this tank will be analyzed according to TCP (WHC-SD-WM-TP-275 Rev. OE).

This TI contains instructions for the preparation and analyses by the ACL of all segments, quarter-segments, and drainable liquids from Core 99.

All activities identified in this Test Instruction shall be charged against Project 21372. All analyses are to be completed at Impact Level 2. All analyses are to be completed following the identified procedures. Any deviations to the procedures must be documented and this documentation must accompany the analytical data. All analytical data are returned to the Laboratory Support Office.

SAL SAMPLE PREPARATION INSTRUCTIONS FOR SEGMENTS AND QUARTER-SEGMENTS:

The following tank material samples were transferred from the HLRF:

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Segment 1 (homogenized, mechanical)	95-07941
Core 99 - Segment 2 (drainable liquid)	95-07932
Core 99 - Quarter-Segment 2A (homogenized, manual)	95-07942
Core 99 - Quarter-Segment 2D (homogenized, manual)	95-07943
Core 99 - Segment 3 (drainable liquid)	95-07935
Core 99 - Quarter-Segment 3A (homogenized, manual)	95-07944

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Quarter-Segment 4A (homogenized, mechanical)	95-07945
Core 99 - Quarter-Segment 4B (homogenized, mechanical)	95-07946
Core 99 - Quarter-Segment 4C (homogenized, mechanical)	95-07947
Core 99 - Quarter-Segment 4D (homogenized, mechanical)	95-07948

The following sample preparation steps are required:

Method		Procedure
Acid Digestion for ICP - liquid (QC Requirements: Duplicate, Blank, Spike, Spike Control)	(WPkg K28862)	PNL-ALO-128
Caustic Fusion - Na_2O_2 (QC Requirements - ICP : 1 Duplicate per batch, Blank, Post Digestion Spike, LCS per prep)	(WPkg K28863)	PNL-ALO-114
Caustic Fusion - KOH (QC Requirements - Radchem: Duplicate, Blank) (QC Requirements: Duplicate, Blank, Post Digestion Spike, LCS per prep)	(WPkg K28863)	PNL-ALO-115
Water Leach (QC Requirements - IC: Duplicate, Blank, Spike, Spike Control) (QC Requirements - ICP: Duplicate, Blank)	(WPkg K28864)	PNL-ALO-103
Total CN Prep (QC Requirements: Duplicate, Blank, Spike, Spike Control)	(WPkg K28868)	PNL-ALO-285

REQUESTED ANALYSES:

Requested Analysis	Procedure Number	Task Leader	WP#
ICP (Acid, Fusion, Water Leach)	PNL-ALO-211	Urie	K28866
IC (Water Leach)	PNL-ALO-212	Urie	K28867
CN (Direct)	PNL-ALO-285	Urie	K28868
TOC by Hot Persulfate (Direct - solids)	PNL-ALO-381	Steele	K28869
TOC (Direct - liquids)	PNL-ALO-382	Urie	K28869
Total Alpha (Fusion, Acid)	PNL-ALO-421	Greenwood	K28870
AEA (Pu-239/240) (Fusion)	PNL-ALO-422/423	Greenwood	K28871

Requested Analysis	Procedure Number	Task Leader	WP#
GEA (Fusion, Acid)	PNL-ALO-450	Greenwood	K28872
Total Beta (Fusion, Acid)	PNL-ALO-430/431	Greenwood	K28873
Sr-90 (Fusion)	PNL-ALO-433/431	Greenwood	K28874
U-Laser (Fusion)	PNL-ALO-445	Greenwood	K28875

SAMPLE IDENTIFICATION SYSTEM FOR SEGMENT AND QUARTER-SEGMENTS:

The following sample identification system will be followed. All samples will be idenitified as 95-XXXXX-Y#, where 95-XXXXX is the ACL number. The "Y" letter will identify a Sample Preparation Method. The "#" identifies replicate analyses using the sample preparation method (i.e., duplicates, spikes, blanks, etc.). The Sample Preparation Methods codes are:

A	Acid Digestion
C	Water Leach
D	Direct
G	Cyanide Sample Prep
H	Caustic Fusion - KOH
J	Carbon
N	Caustic Fusion - Na_2O_2

The replicate analysis codes are:

1	Sample
2	Sample Duplicate
3	Methods Blank
4	Matrix Spike
5	LCS / Blank Spike
6	Post Digestion Spike

CORE 99 SEGMENT 1 ANALYSES

Analysis	Segment 1 Unhomogenized	Segment 1	
TGA	95-07931		Run In Duplicate
Water Leach		95-07941-C1	Water Leach Sample (IC, ICP)
		95-07941-C2	Water Leach Duplicate
		95-07941-C3	Methods Blank (one per batch)
		95-07941-C4	Spike (IC Only) (one per batch)
		95-07941-C5	Blank Spike (IC Only) (one per batch)
Direct		95-07941-D1	DSC & Density Sample
		95-07941-D2	DSC & Density Duplicate
		95-07941-D3	Methods Blank (one per batch)
Total Cyanide		95-07941-G1	Total CN Sample
		95-07941-G2	Total CN Duplicate
		95-07941-G3	Methods Blank (one per batch)
		95-07941-G4	Matrix Spike (one per batch)
		95-07941-G5	Blank Spike (one per batch)
Homogenization Test Fusion Dissolution KOH		95-07941-H1T	Homogenization Test Fusion Sample - Top *
		95-07941-H2T	Homogenization Test Fusion Duplicate - Top
		95-07941-HCB	Homogenization Test Fusion Blank
		95-07941-H1B	Homogenization Test Fusion Sample - Bottom
		95-07941-H2B	Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH		95-07941-H1	KOH Fusion Sample (ICP, Radchem**)
		95-07941-H2	KOH Fusion Duplicate
		95-07941-H3	Methods Blank (one per batch)
		95-07941-H5	LCS (one per prep)
		95-07941-H6	Post Digestion Spike (ICP Only)
Carbon		95-07941-J1	Carbon Analysis Sample (TIC/TOC/TC)
		95-07941-J2	Carbon Analysis Duplicate
		95-07941-J3	Methods Blank (one per batch)
		95-07941-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2		95-07941-N1	Na2O2 Fusion Sample (ICP)
		95-07941-N2	Na2O2 Fusion Duplicate (one per batch)
		95-07941-N3	Methods Blank (one per batch)
		95-07941-N5	LCS (one per prep)
		95-07941-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA
** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 2 ANALYSES

Analysis	Segment 2 Drainable Liquid	Quarter Segment 2A Unhomogenized	Quarter Segment 2D Unhomogenized	Quarter Segment 2A	Quarter Segment 2D	
TGA	95-07932	95-07933	95-07934			Run in Duplicate
Acid Digestion	95-07932-A1					Acid Digestion Sample (ICP, Radchem *)
	95-07932-A2					Acid Digestion Duplicate
	95-07932-A3					Methods Blank (one per batch)
	95-07932-A4					Matrix Spike (one per batch)
	95-07932-A5					Blank Spike (one per batch)
Water Leach	95-07932-C1			95-07942-C1	95-07943-C1	Water Leach Sample **
	95-07932-C2			95-07942-C2	95-07943-C2	Water Leach Duplicate
	95-07932-C3			95-07942-C3	95-07943-C3	Methods Blank (one per batch)
	95-07932-C4			95-07942-C4	95-07943-C4	Spike (IC Only) (one per batch)
	95-07932-C5			95-07942-C5	95-07943-C5	Blank Spike (IC Only) (one per batch)
Direct	95-07932-D1			95-07942-D1	95-07943-D1	Direct Sample ***
	95-07932-D2			95-07942-D2	95-07943-D2	Direct Duplicate
	95-07932-D3			95-07942-D3	95-07943-D3	Methods Blank (one per batch)
Total Cyanide	95-07932-G1			95-07942-G1	95-07943-G1	Total CN Sample
	95-07932-G2			95-07942-G2	95-07943-G2	Total CN Duplicate
	95-07932-G3			95-07942-G3	95-07943-G3	Methods Blank (one per batch)
	95-07932-G4			95-07942-G4	95-07943-G4	Matrix Spike (one per batch)
	95-07932-G5			95-07942-G5	95-07943-G5	Blank Spike (one per batch)
Fusion Dissolution KOH				95-07942-H1	95-07943-H1	KOH Fusion Sample (ICP, Radchem****)
				95-07942-H2	95-07943-H2	KOH Fusion Duplicate
				95-07942-H3	95-07943-H3	Methods Blank (one per batch)
				95-07942-H5	95-07943-H5	LCS (one per prep)
				95-07942-H6	95-07943-H6	Post Digestion Spike (ICP Only)
Carbon	95-07932-J1			95-07942-J1	95-07943-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07932-J2			95-07942-J2	95-07943-J2	Carbon Analysis Duplicate
	95-07932-J3			95-07942-J3	95-07943-J3	Methods Blank (one per batch)
	95-07932-J4			95-07942-J4	95-07943-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2				95-07942-N1	95-07943-N1	Na2O2 Fusion Sample (ICP)
				95-07942-N2	95-07943-N2	Na2O2 Fusion Duplicate (one per batch)
				95-07942-N3	95-07943-N3	Methods Blank (one per batch)
				95-07942-N5	95-07943-N5	LCS (one per prep)
				95-07942-N6	95-07943-N6	Post Digestion Spike

* Acid Digestion Radchem: Total Alpha, Total Beta, GEA
** Water Leach: IC on Drainable Liquid and Quarter Segments, , ICP on Quarter Segments
*** Direct Sample: DSC on Drainable Liquid, DSC and Density on Quarter Segments
**** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 3 ANALYSES

Analysis	Segment 3 Drainable Liquid	Quarter Segment 3A Unhomogenized	Quarter Segment 3A	
TGA	95-07935	95-07936		Run in Duplicate
Acid Digestion	95-07935-A1			Acid Digestion Sample (ICP, Radchem *)
	95-07935-A2			Acid Digestion Duplicate
	95-07935-A3			Methods Blank (one per batch)
	95-07935-A4			Spike (one per batch)
	95-07935-A5			Blank Spike (one per batch)
Water Leach	95-07935-C1		95-07944-C1	Water Leach Sample **
	95-07935-C2		95-07944-C2	Water Leach Duplicate
	95-07935-C3		95-07944-C3	Methods Blank (one per batch)
	95-07935-C4		95-07944-C4	Spike (IC Only) (one per batch)
	95-07935-C5		95-07944-C5	Blank Spike (IC Only) (one per batch)
Direct	95-07935-D1		95-07944-D1	Direct Sample ***
	95-07935-D2		95-07944-D2	Direct Duplicate
	95-07935-D3		95-07944-D3	Methods Blank (one per batch)
Total Cyanide	95-07935-G1		95-07944-G1	Total CN Sample
	95-07935-G2		95-07944-G2	Total CN Duplicate
	95-07935-G3		95-07944-G3	Methods Blank (one per batch)
	95-07935-G4		95-07944-G4	Matrix Spike (one per batch)
	95-07935-G5		95-07944-G5	Blank Spike (one per batch)
Fusion Dissolution KOH			95-07944-H1	KOH Fusion Sample (ICP, Radchem****)
			95-07944-H2	KOH Fusion Duplicate
			95-07944-H3	Methods Blank (one per batch)
			95-07944-H5	LCS (one per prep)
			95-07944-H6	Post Digestion Spike (ICP Only)
Carbon	95-07935-J1		95-07944-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07935-J2		95-07944-J2	Carbon Analysis Duplicate
	95-07935-J3		95-07944-J3	Methods Blank (one per batch)
	95-07935-J4		95-07944-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2			95-07944-N1	Na2O2 Fusion Sample (ICP)
			95-07944-N2	Na2O2 Fusion Duplicate (one per batch)
			95-07944-N3	Methods Blank (one per batch)
			95-07944-N5	LCS (one per prep)
			95-07944-N6	Post Digestion Spike

* Acid Digestion Radchem: Total Alpha, Total Beta, GEA
** Water Leach: IC on Drainable Liquid and Quarter Segment, ICP on Quarter Segment
*** Direct Samples: DSC on Drainable Liquid, DSC and Density on Quarter Segment
**** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 4 ANALYSES

Analysis	Quarter Segment 4A Unhomogenized	Quarter Segment 4B Unhomogenized	Quarter Segment 4C Unhomogenized	Quarter Segment 4D Unhomogenized	Quarter Segment 4A	Quarter Segment 4B	Quarter Segment 4C	Quarter Segment 4D	
TGA	95-07937	95-07938	95-07939	95-07940					Run In Duplicate
Water Leach					95-07945-C1	95-07946-C1	95-07947-C1	95-07948-C1	Water Leach Sample (IC, ICP)
					95-07945-C2	95-07946-C2	95-07947-C2	95-07948-C2	Water Leach Duplicate
					95-07945-C3	95-07946-C3	95-07947-C3	95-07948-C3	Methods Blank (one per batch)
					95-07945-C4	95-07946-C4	95-07947-C4	95-07948-C4	Spike (IC Only) (one per batch)
					95-07945-C5	95-07946-C5	95-07947-C5	95-07948-C5	Blank Spike (IC Only) (one per batch)
Direct					95-07945-D1	95-07946-D1	95-07947-D1	95-07948-D1	DSC & Density Sample
					95-07945-D2	95-07946-D2	95-07947-D2	95-07948-D2	DSC & Density Duplicate
					95-07945-D3	95-07946-D3	95-07947-D3	95-07948-D3	Methods Blank (one per batch)
Total Cyanide					95-07945-G1	95-07946-G1	95-07947-G1	95-07948-G1	Total CN Sample
					95-07945-G2	95-07946-G2	95-07947-G2	95-07948-G2	Total CN Duplicate
					95-07945-G3	95-07946-G3	95-07947-G3	95-07948-G3	Methods Blank (one per batch)
					95-07945-G4	95-07946-G4	95-07947-G4	95-07948-G4	Matrix Spike (one per batch)
					95-07945-G5	95-07946-G5	95-07947-G5	95-07948-G5	Blank Spike (one per batch)
Homogenization Test Fusion Dissolution KOH						95-07946-H1T			Homogenization Test Fusion Sample - Top *
						95-07946-H2T			Homogenization Test Fusion Duplicate - Top
						95-07946-HCB			Homogenization Test Fusion Blank
						95-07946-H1B			Homogenization Test Fusion Sample - Bottom
						95-07946-H2B			Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH					95-07945-H1	95-07946-H1	95-07947-H1	95-07948-H1	KOH Fusion Sample (ICP, Radchem**)
					95-07945-H2	95-07946-H2	95-07947-H2	95-07948-H2	KOH Fusion Duplicate
					95-07945-H3	95-07946-H3	95-07947-H3	95-07948-H3	Methods Blank (one per batch)
					95-07945-H5	95-07946-H5	95-07947-H5	95-07948-H5	LCS (one per prep)
					95-07945-H6	95-07946-H6	95-07947-H6	95-07948-H6	Post Digestion Spike (ICP Only)
Carbon					95-07945-J1	95-07946-J1	95-07947-J1	95-07948-J1	Carbon Analysis Sample (TIC/TOC/TC)
					95-07945-J2	95-07946-J2	95-07947-J2	95-07948-J2	Carbon Analysis Duplicate
					95-07945-J3	95-07946-J3	95-07947-J3	95-07948-J3	Methods Blank (one per batch)
					95-07945-J4	95-07946-J4	95-07947-J4	95-07948-J4	Matrix Spike (one per batch)
Fusion Dissolution Na2O2					95-07945-N1	95-07946-N1	95-07947-N1	95-07948-N1	Na2O2 Fusion Sample (ICP)
					95-07945-N2	95-07946-N2	95-07947-N2	95-07948-N2	Na2O2 Fusion Duplicate (one per batch)
					95-07945-N3	95-07946-N3	95-07947-N3	95-07948-N3	Methods Blank (one per batch)
					95-07945-N5	95-07946-N5	95-07947-N5	95-07948-N5	LCS (one per prep)
					95-07945-N6	95-07946-N6	95-07947-N6	95-07948-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA

** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

TANK CHARACTERIZATION
TEST INSTRUCTIONS FOR ANALYSES OF
SST 241-BY-108, CORE 99 SEGMENTS 1-4

DATE PREPARED: September 6, 1995 PREPARED BY: KL Silvers

SAMPLE NUMBERS: 95-07931 - 95-07948

APPROVED BY: DATE: 9/6/95

CONTROLLING DOCUMENTS: Project No: 21372

WHC TCP: Tank 241-BY-108 Tank Characterization Plan (WHC-SD-WM-TP-275)
Revision OE - ECN No: 6621348 (August, 1995)
PNL QAP: MCS-033, Revision 2 (April, 1995)
Controlling Procedure: PNL-ALO-010

INTRODUCTION

This Test Instruction (TI) defines the scope of work to be completed on Single-Shell Tank (SST) 241-BY-108, Core 99 Segments 1, 2, 3 and 4. The samples from this tank will be analyzed according to TCP (WHC-SD-WM-TP-275 Rev. OE).

This TI contains instructions for the preparation and analyses by the ACL of all segments, quarter-segments, and drainable liquids from Core 99.

All activities identified in this Test Instruction shall be charged against Project 21372. All analyses are to be completed at Impact Level 2. All analyses are to be completed following the identified procedures. Any deviations to the procedures must be documented and this documentation must accompany the analytical data. All analytical data are returned to the Laboratory Support Office.

SAL SAMPLE PREPARATION INSTRUCTIONS FOR SEGMENTS AND QUARTER-SEGMENTS:

The following tank material samples were transferred from the HLRF:

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Segment 1 (homogenized, mechanical)	95-07941
Core 99 - Segment 2 (drainable liquid)	95-07932
Core 99 - Quarter-Segment 2A (homogenized, manual)	95-07942
Core 99 - Quarter-Segment 2D (homogenized, manual)	95-07943
Core 99 - Segment 3 (drainable liquid)	95-07935
Core 99 - Quarter-Segment 3A (homogenized, manual)	95-07944

CORE IDENTIFICATION	ACL NUMBER
Core 99 - Quarter-Segment 4A (homogenized, mechanical)	95-07945
Core 99 - Quarter-Segment 4B (homogenized, mechanical)	95-07946
Core 99 - Quarter-Segment 4C (homogenized, mechanical)	95-07947
Core 99 - Quarter-Segment 4D (homogenized, mechanical)	95-07948

The following sample preparation steps are required:

Method		Procedure
Acid Digestion for ICP - liquid (QC Requirements: Duplicate, Blank, Spike, Spike Control)	(WPkg K28862)	PNL-ALO-128
Caustic Fusion - NaOH (QC Requirements - Radchem: Duplicate, Blank) (QC Requirements - ICP : 1 Duplicate per batch, Blank, Post Digestion Spike)	(WPkg K28863)	PNL-ALO-114
Caustic Fusion - KOH (QC Requirements: Duplicate, Blank, Post Digestion Spike)	(WPkg K28863)	PNL-ALO-115
Water Leach (QC Requirements - IC: Duplicate, Blank, Spike, Spike Control) (QC Requirements - ICP: Duplicate, Blank)	(WPkg K28864)	PNL-ALO-103
Total CN Prep (QC Requirements: Duplicate, Blank, Spike, Spike Control)	(WPkg K28868)	PNL-ALO-285

REQUESTED ANALYSES FOR SEGMENTS & QUARTER-SEGMENTS:

Requested Analysis	Procedure Number	Task Leader	WP#
ICP (Acid, Fusion, Water Leach)	PNL-ALO-211	Urie	K28866
IC (Water Leach)	PNL-ALO-212	Urie	K28867
CN (Direct)	PNL-ALO-285	Urie	K28868
TOC by Hot Persulfate (Direct)	PNL-ALO-381	Steele	K28869
Total Alpha (Fusion)	PNL-ALO-421	Greenwood	K28870
AEA (Pu-239/240) (Fusion)	PNL-ALO-422/423	Greenwood	K28871
GEA (Fusion)	PNL-ALO-450	Greenwood	K28872

Requested Analysis	Procedure Number	Task Leader	WP#
Total Beta (Fusion)	PNL-ALO-430/431	Greenwood	K28873
Sr-90 (Fusion)	PNL-ALO-433/431	Greenwood	K28874
U-Laser (Fusion)	PNL-ALO-445	Greenwood	K28875

SAMPLE IDENTIFICATION SYSTEM FOR SEGMENT AND QUARTER-SEGMENTS:

The following sample identification system will be followed. All samples will be idenitified as 95-XXXXX-Y#, where 95-XXXXX is the ACL number. The "Y" letter will identify a Sample Preparation Method. The "#" identifies replicate analyses using the sample preparation method (i.e., duplicates, spikes, blanks, etc.). The Sample Preparation Methods codes are:

A	Acid Digestion for ICP
C	Water Leach
D	Direct
G	Cyanide Sample Prep
H	Caustic Fusion - KOH
J	Carbon
N	Caustic Fusion - NaOH

CORE 99 SEGMENT 1 ANALYSES

Analysis	Segment 1 Unhomogenized	Segment 1	
TGA	95-07931		Run in Duplicate
Water Leach		95-07941-C1	Water Leach Sample (IC, ICP)
		95-07941-C2	Water Leach Duplicate
		95-07941-C3	Methods Blank
		95-07941-C4	Spike (IC Only)
		95-07941-C5	Spike Control (IC Only)
Direct		95-07941-D1	DSC & Density Sample
		95-07941-D2	DSC & Density Duplicate
		95-07941-D3	Methods Blank
Total Cyanide		95-07941-G1	Total CN Sample
		95-07941-G2	Total CN Duplicate
		95-07941-G3	Methods Blank (min 1 per batch)
		95-07941-G4	Matrix Spike
		95-07941-G5	Spike Control
Homogenization Test Fusion Dissolution KOH		95-07941-H1T	Homogenization Test Fusion Sample - Top *
		95-07941-H2T	Homogenization Test Fusion Duplicate - Top
		95-07941-HCD	Homogenization Test Fusion Blank
		95-07941-H1B	Homogenization Test Fusion Sample - Bottom
		95-07941-H2B	Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH		95-07941-H1	KOH Fusion Sample (ICP, Radchem**)
		95-07941-H2	KOH Fusion Duplicate
		95-07941-H3	Methods Blank
		95-07941-H6	Post Digestion Spike (ICP Only)
Carbon		95-07941-J1	Carbon Analysis Sample (TIC/TOC/TC)
		95-07941-J2	Carbon Analysis Duplicate
		95-07941-J3	Methods Blank
		95-07941-J4	Matrix Spike
Fusion Dissolution NaOH		95-07941-N1	NaOH Fusion Sample (ICP)
		95-07941-N2	NaOH Fusion Duplicate (one per batch)
		95-07941-N3	Methods Blank
		95-07941-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA

** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 2 ANALYSES

Analysis	Segment 2 Drainable Liquid	Quarter Segment 2A Unhomogenized	Quarter Segment 2D Unhomogenized	Quarter Segment 2A	Quarter Segment 2D	
TGA	95-07932	95-07933	95-07934			Run in Duplicate
Acid Digestion	95-07932-A1					Acid Digestion Sample (ICP)
	95-07932-A2					Acid Digestion Duplicate
	95-07932-A3					Methods Blank (min 1 per batch)
	95-07932-A4					Matrix Spike
	95-07932-A5					Spike Control
Water Leach	95-07932-C1			95-07942-C1	95-07943-C1	Water Leach Sample *
	95-07932-C2			95-07942-C2	95-07943-C2	Water Leach Duplicate
	95-07932-C3			95-07942-C3	95-07943-C3	Methods Blank
	95-07932-C4			95-07942-C4	95-07943-C4	Spike (IC Only)
	95-07932-C5			95-07942-C5	95-07943-C5	Spike Control (IC Only)
Direct	95-07932-D1			95-07942-D1	95-07943-D1	Direct Sample **
	95-07932-D2			95-07942-D2	95-07943-D2	Direct Duplicate
	95-07932-D3			95-07942-D3	95-07943-D3	Methods Blank
Total Cyanide	95-07932-G1			95-07942-G1	95-07943-G1	Total CN Sample
	95-07932-G2			95-07942-G2	95-07943-G2	Total CN Duplicate
	95-07932-G3			95-07942-G3	95-07943-G3	Methods Blank (min 1 per batch)
	95-07932-G4			95-07942-G4	95-07943-G4	Matrix Spike
	95-07932-G5			95-07942-G5	95-07943-G5	Spike Control
Fusion Dissolution KOH				95-07942-H1	95-07943-H1	KOH Fusion Sample (ICP, Radchem***)
				95-07942-H2	95-07943-H2	KOH Fusion Duplicate
				95-07942-H3	95-07943-H3	Methods Blank
				95-07942-H6	95-07943-H6	Post Digestion Spike (ICP Only)
Carbon	95-07932-J1			95-07942-J1	95-07943-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07932-J2			95-07942-J2	95-07943-J2	Carbon Analysis Duplicate
	95-07932-J3			95-07942-J3	95-07943-J3	Methods Blank
	95-07932-J4			95-07942-J4	95-07943-J4	Matrix Spike
Fusion Dissolution NaOH				95-07942-N1	95-07943-N1	NaOH Fusion Sample (ICP)
				95-07942-N2	95-07943-N2	NaOH Fusion Duplicate (one per batch)
				95-07942-N3	95-07943-N3	Methods Blank
				95-07942-N6	95-07943-N6	Post Digestion Spike

* Water Leach: IC on Drainable Liquid and Quarter Segments., ICP on Quarter Segments
** Direct Sample: DSC on Drainable Liquid, DSC and Density on Quarter Segments
*** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 3 ANALYSES

Analysis	Segment 3 Drainable Liquid	Quarter Segment 3A Unhomogenized	Quarter Segment 3A	
TGA	95-07935	95-07936		Run in Duplicate
Acid Digestion	95-07935-A1			Acid Digestion Sample (ICP)
	95-07935-A2			Acid Digestion Duplicate
	95-07935-A3			Methods Blank
	95-07935-A4			Spike
	95-07935-A5			Spike Control
Water Leach	95-07935-C1		95-07944-C1	Water Leach Sample *
	95-07935-C2		95-07944-C2	Water Leach Duplicate
	95-07935-C3		95-07944-C3	Methods Blank
	95-07935-C4		95-07944-C4	Spike (IC Only)
	95-07935-C5		95-07944-C5	Spike Control (IC Only)
Direct	95-07935-D1		95-07944-D1	Direct Sample **
	95-07935-D2		95-07944-D2	Direct Duplicate
	95-07935-D3		95-07944-D3	Methods Blank
Total Cyanide	95-07935-G1		95-07944-G1	Total CN Sample
	95-07935-G2		95-07944-G2	Total CN Duplicate
	95-07935-G3		95-07944-G3	Methods Blank (min 1 per batch)
	95-07935-G4		95-07944-G4	Matrix Spike
	95-07935-G5		95-07944-G5	Spike Control
Fusion Dissolution KOH			95-07944-H1	KOH Fusion Sample (ICP, Radchem***)
			95-07944-H2	KOH Fusion Duplicate
			95-07944-H3	Methods Blank
			95-07944-H6	Post Digestion Spike (ICP Only)
Carbon	95-07935-J1		95-07944-J1	Carbon Analysis Sample (TIC/TOC/TC)
	95-07935-J2		95-07944-J2	Carbon Analysis Duplicate
	95-07935-J3		95-07944-J3	Methods Blank
	95-07935-J4		95-07944-J4	Matrix Spike
Fusion Dissolution NaOH			95-07944-N1	NaOH Fusion Sample (ICP)
			95-07944-N2	NaOH Fusion Duplicate (one per batch)
			95-07944-N3	Methods Blank
			95-07944-N6	Post Digestion Spike

* Water Leach: IC on Drainable Liquid and Quarter Segment, ICP on Quarter Segment
** Direct Samples: DSC on Drainable Liquid, DSC and Density on Quarter Segment
*** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

CORE 99 SEGMENT 4 ANALYSES

Analysis	Quarter Segment 4A Unhomogenized	Quarter Segment 4B Unhomogenized	Quarter Segment 4C Unhomogenized	Quarter Segment 4D Unhomogenized	Quarter Segment 4A	Quarter Segment 4B	Quarter Segment 4C	Quarter Segment 4D	
TGA	95-07937	95-07938	95-07939	95-07940					Run In Duplicate
Water Leach					95-07945-C1	95-07946-C1	95-07947-C1	95-07948-C1	Water Leach Sample (IC, ICP)
					95-07945-C2	95-07946-C2	95-07947-C2	95-07948-C2	Water Leach Duplicate
					95-07945-C3	95-07946-C3	95-07947-C3	95-07948-C3	Methods Blank
					95-07945-C4	95-07946-C4	95-07947-C4	95-07948-C4	Spike (IC Only)
					95-07945-C5	95-07946-C5	95-07947-C5	95-07948-C5	Spike Control (IC Only)
Direct					95-07945-D1	95-07946-D1	95-07947-D1	95-07948-D1	DSC & Density Sample
					95-07945-D2	95-07946-D2	95-07947-D2	95-07948-D2	DSC & Density Duplicate
					95-07945-D3	95-07946-D3	95-07947-D3	95-07948-D3	Methods Blank
Total Cyanide					95-07945-G1	95-07946-G1	95-07947-G1	95-07948-G1	Total CN Sample
					95-07945-G2	95-07946-G2	95-07947-G2	95-07948-G2	Total CN Duplicate
					95-07945-G3	95-07946-G3	95-07947-G3	95-07948-G3	Methods Blank (min 1 per batch)
					95-07945-G4	95-07946-G4	95-07947-G4	95-07948-G4	Matrix Spike
					95-07945-G5	95-07946-G5	95-07947-G5	95-07948-G5	Spike Control
Homogenization Test Fusion Dissolution KOH						95-07946-H1T			Homogenization Test Fusion Sample - Top *
						95-07946-H2T			Homogenization Test Fusion Duplicate - Top
						95-07946-HCB			Homogenization Test Fusion Blank
						95-07946-H1B			Homogenization Test Fusion Sample - Bottom
						95-07946-H2B			Homogenization Test Fusion Duplicate - Bottom
Fusion Dissolution KOH					95-07945-H1	95-07946-H1	95-07947-H1	95-07948-H1	KOH Fusion Sample (ICP, Radchem**)
					95-07945-H2	95-07946-H2	95-07947-H2	95-07948-H2	KOH Fusion Duplicate
					95-07945-H3	95-07946-H3	95-07947-H3	95-07948-H3	Methods Blank
					95-07945-H6	95-07946-H6	95-07947-H6	95-07948-H6	Post Digestion Spike (ICP Only)
Carbon					95-07945-J1	95-07946-J1	95-07947-J1	95-07948-J1	Carbon Analysis Sample (TIC/TOC/TC)
					95-07945-J2	95-07946-J2	95-07947-J2	95-07948-J2	Carbon Analysis Duplicate
					95-07945-J3	95-07946-J3	95-07947-J3	95-07948-J3	Methods Blank
					95-07945-J4	95-07946-J4	95-07947-J4	95-07948-J4	Matrix Spike
Fusion Dissolution NaOH					95-07945-N1	95-07946-N1	95-07947-N1	95-07948-N1	NaOH Fusion Sample (ICP, Radchem**)
					95-07945-N2	95-07946-N2	95-07947-N2	95-07948-N2	NaOH Fusion Duplicate (one per batch)
					95-07945-N3	95-07946-N3	95-07947-N3	95-07948-N3	Methods Blank
					95-07945-N6	95-07946-N6	95-07947-N6	95-07948-N6	Post Digestion Spike

* Homogenization Test: ICP & GEA

** Fusion Radchem: Total Alpha, Total Beta, Sr-90, PU-239/240, GEA, U)

A5 - SAMPLE PREP DATA SHEETS

DON'T SAY IT -- *Write It!* Date: September 20, 1995

To: Memo To File/BY108 PM/QAQC Mgr From: Rick Steele

Subject: Tank BY-108 Sample Prep Documentational Error

The "Controlling Procedure" block on many Sample Prep Sheets supporting BY-108 characterization incorrectly listed "PNL-ALO-110". The correct procedural citation should have been "PNL-ALO-010" in all cases. The major effect of PNL-ALO-010 is that it invokes internal Chain of Custody. This was accomplished real time as samples traversed through the laboratory.

Please address any questions or concerns related to this error directly to me.

Battelle
Pacific Northwest Laboratories

Project Number 21372

Internal Distribution

JM Latkovich
KL Silvers
OP Bredt
KJ Smith
File/LB

Date September 19, 1995

To TWRS Support Project File

From KJ Kuhl-Klinger

Subject Observations Performed on BY108

This memorandum serves as confirmation that all sample preparation activities (i.e., Water Leach, Acid Extraction and Fusion) used to process BY108 samples for analyses were subject to continual observation. The observations were conducted between 9/6/95 and 9/11/95. Observations were not conducted during homogeneity testing nor were they conducted on subsequent analyses such as TOC, CN and Hg.

The observations were conducted as assistance to the SAL but were also conducted to gain better understanding of the complexities associated with this scope of work.

Observations were conducted by one or more of the following personnel:

Kristine Kuhl-Klinger, Quality Operations — 9/19/95 Date

Orelia Bredt, Quality Operations — 9/20/95 Date

Karla Smith, SAL Operations — 9/19/95 Date

WHC-SD-WM-DP-145, REV. 1

KOH FUSION AND SOLUBILITY TEST FOR HOMOGENIZATION CHECK

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DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Fusion and Solubility Test for Homogenization Checks

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07941-H1T 95-07941-H2T 95-07941-HCB 95-07941-H1B 95-07941-H2B
95-07946-H1T 95-07946-H2T 95-07946-HCB 95-07946-H1B 95-07946-H2B

Julia Buck

PNL ACL Quality Representative

9/20/95

Date

WHC-SD-WM-DP-145, REV.1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: TWC/21372 WP Number: K28863

Test Instruction: TI95-TWC-02 Procedure: PNL-ALO-115

	Sample Ident.	Wet Sample Gross Wt (g)	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)
1	95-07946-H1T	44.1871	44.0869	0.1002			
2	95-07946-H2T	45.8278	45.7286	0.0992			
Blk 3	95-07946-HCB	~~45.7378~~ 45.7378	45.6777				
4	95-07946-H1B	45.7378	45.6262	0.1116			
5	95-07946-H2B	45.5056	45.4099	0.0957			

All samples brought to 100 mL total volume.

4.9400 $\bar{X}$ 4.9493 ~~Sept~~ 9/1/95

4.9544 S 0.0082

4.9434 RSD 17%

4.9485

4.9603 Pefv 4.9653 ml

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: Date: Reviewer: Date:

9-1-95 9/1/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: TWC/21372 WP Number: K28863

Test Instruction: TI95-TWC-02 Procedure: PNL-ALO-115

	Sample Ident.	Wet Sample Gross Wt (g)	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)
6	95-07941-H1T	46.4294	46.3289	0.1005			
7	95-07941-H2T	44.8966	44.7940	0.1026			
Blk 8	95-07941-HCB	XXXX	45.8179	~~0.1028~~ KS 9/1/95			
9	95-07941-H1B	52.8967	52.7939	0.1028			
10	95-07941-H2B	~~44.5022~~	~~44.4021~~ KS 9/1/95	0.1289			
		39.9403	39.8114				

All samples brought to 100 mL total volume.
See 95-07946 Rev. Fusion Bench Sheet for Pipet Info.

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: Date: Reviewer: Date:

9-1-95 9/1/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI NO.: TI95-TWC-02 PROJECT NO.: 21372 WBS NO.: 020501 SAMPLE TYPE: SLUDGE

ISSUED BY: Rick T. Steele DATE: 8/28/95 PREP TYPE: NI/KOH FUSION

ANALYST: Clyde Chamberlain DATE: 9-1-95 CONTROLLING PROCEDURE: PNL-ALO-010

REVIEW: Rick T. Steele D TE: 9/1/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	ANALYTICAL PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28872	95-07941-H1T	PNL-ALO-450	GEA	0.1005		100					4.9653	SAMP
	95-07941-H2T			0.1026		↓						SAMP DUP
	95-07941-HCB											BLANK
	95-07941-H1B			0.1028								SAMP
	95-07941-H2B			0.1289								SAMP DUP
		Delivered 9.9305 mL of each sample to the lab.										

PAGE 1 OF 1

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WHC-SD-WM-DP-145, REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI NO.: TI95-TWC-02 PROJECT NO.: 21372 WBS NO.: 020501 SAMPLE TYPE: SLUDGE

ISSUED BY: Rick T. Steele DATE: 8/28/95 PREP TYPE: NI/KOH FUSION

ANALYST: [signature] DATE: 9-1-95 CONTROLLING PROCEDURE: PNL-ALO-010

REVIEW: Rick T. Steele D TE: 9/1/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	ANALYTICAL PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28872	95-07946-H1T	PNL-ALO-450	GEA	0.1002		100					4.9653	SAMP
	95-07946-H2T			0.0992								SAMP DUP
	95-07946-HCB											BLANK
	95-07946-H1B			0.1116								SAMP
	95-07946-H2B			0.0957		↓						SAMP DUP
		Delivered 9.9305ml of each sample to the lab.										

PAGE 1 OF 1

WHC-SD-WM-DP-045, REV 1

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI NO.: TI95-TWC-02 PROJECT NO.: 21372 WBS NO.: 020501 SAMPLE TYPE: SLUDGE

ISSUED BY: Rick T. Steele DATE: 8/28/95 PREP TYPE: NI/KOH FUSION

ANALYST: Clyde Chamberlain DATE: 9-1-95 CONTROLLING PROCEDURE: PNL-ALO-010

REVIEW: Rick T. Steele D TE: 9/1/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	ANALYTICAL PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07941-H1T	PNL-ALO-211	ICP	0.1005		100						SAMP
	95-07941-H2T			0.1026								SAMP DUP
	95-07941-HCB											BLANK
	95-07941-H1B			0.1028								SAMP
	95-07941-H2B			0.1289								SAMP DUP

PAGE 1 OF 1

WHC-SD-WM-DP-145, REV. 1

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI NO.: T195-TWC-02 PROJECT NO.: 21372 WBS NO.: 020501 SAMPLE TYPE: SLUDGE

ISSUED BY: Rick T. Steele DATE: 8/28/95 PREP TYPE: NI/KOH FUSION

ANALYST: Chad Chamberlain DATE: 9-1-95 CONTROLLING PROCEDURE: PNL-ALO-010

REVIEW: Rick T. Steele D TE: 9/1/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	ANALYTICAL PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07946-H1T	PNL-ALO-211	ICP	0.1002		100						SAMP
	95-07946-H2T			0.0992								SAMP DUP
	95-07946-HCB											BLANK
	95-07946-H1B			0.1116								SAMP
	95-07946-H2B			0.0957		↓						SAMP DUP

PAGE 1 OF 1

WHC-SD-WM-DP-145, REV 1

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory/Sample Receiving Laboratory

EXHIBIT I
PAGE 1 of 1

PNL-ALO-129 HNO_3-HCl Acid Extraction of Solids for Metals Analysis Using a Dry-Block Heater

Client name: Kurt Silvers
Work Auth. Doc (WAD): TI95-TWC-02 / ASR 2388
Tank/Core/Project: Tank BY-108, Core 99, Segment 1 and Qtr Segment 4B / Tank Waste Characterization
Special instructions

Work package number: K28866
Project number: 21372
PNL QA plan: MCS-033
PNL impact level: II
Prep. lab (SAL/SRPL/other): SAL
Preparation batch number: N/A

	ACL Sample ID	ACL order number or Client sample ID	Vial identifier	Vial weight (g)	Vial & sample weight (g)	Sample weight (g)	Spike added Vol. (ml)	Spike added Weight (g)	Final solution Volume (ml)	Process Factor (1)
1	95-07941-H1T	Segment 1 Top		21.5632	22.0188	0.4556			25	
2	95-07941-H2T	Segment 1 Top-Dup		21.6672	22.1335	0.4663				
3	95-07941-HCB	Methods Blank								
4	95-07946-H1T	Qtr Segment 4B Top		21.5403	22.0056	0.4653				
5	95-07946-H2T	Qtr Segment 4B Top-Dup		21.4616	22.0536	0.5920				
6										
7										
8										
9										
10										
11										
12										
13										
14										

Analyst's sample preparation comments:
11.01X dilutions of All samples Above were made prior to distribution. Dil. Factor: .9980 → 9.9903 = 11.01X / .9980

Spike source:
PNL spike ID number:
Anal. balance M&TE: 360-06-01.016
Sample filtered (yes/no):

(1) Process factor = Final volume (ml) / [Vial & sample weight (g) - Vial weight (g)]

Other sample preparation worksheets may be substituted at the discretion of the Cognizant Scientist. Use one worksheet per client.

Analyst/Date: [signature] 9/1/95
Reviewer/Date: [signature] 9/1/95

Rev. 2.0 7-28-95 JMR

WHC-SD-WM-DP-145, REV. 1

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
Bench Sheet

Client: Kurt Silvers WP Number: K28863

TI#/ARF: TI95-TWC-02 / ASR 2388 Procedure: PNL-ALO-129

95-07941 Segment 1 95-07946 QTR Segment 4B Soluability Test
SAMPLE IDENTIFICATION

95-7941-1&2 clear, but had a white colored film of solids on bottom of vials.

95-7946 1&2 slightly colored, more so at the top and cloudy; no solids settled in the bottom.

1 ml Pipet DIW @ 23°C Made an 11.01 x Dilution

.9926g $\bar{x}$ = .9953 g.
.9987g
.9995g s = .0048
1.0011g
.9943g RSD = .48%

Del = .9980 ml.

Fixed glass = 9.9903 ml. for DIW

M&TE:

✓ Mettler AE160 (360-06-01-016) Mettler AE200 (362-06-01-038) ___

___ Sartorius R200D (360-06-01-024) Corning pH Meter Model 240 S/N 6629 ___

Analyst: [signature] Date: 9/1/95 Reviewer: [signature] Date: 9/1/95

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WHC-SD-WM-DP-145, REV.1

WATER LEACH

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DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Water Leach - Drainable Liquid

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07932-C1 95-07932-C2 95-07932-C3 95-07932-C4 95-07932-C5
95-07935-C1 95-07935-C2

PNL ACL Quality Representative

9/20/95
Date

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
WATER LEACH

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28864

TI Number: TI95-TWC-03 Procedure: PNL-ALO-103

Sample Ident.	Sample Gross Wt (g)	Sample Tare Wt (g)	Sample Net Wt (g)	DIW Gross Wt (g)	DIW Tare Wt (g)	DIW Net Wt (g)	Spike Volume ml
95-07932-C1 SEG 2 DL	21.8166	21.5311	0.2855	32.8628	13.7781	19.0847	
95-07932-C2 SEG 2 DL DUP	21.6743	21.3791	0.2952	33.7486	13.4535	20.2951	
95-07932-C3 METHODS BLK	N/A	N/A	N/A	41.3352	21.4985	19.8367	
MS 95-07932-C4 SEG 2 DL SPIKE	21.7945	21.5113	0.2832	33.6736	14.1280	19.5456	.1996
95-07932-C5 BLANK SPIKE	N/A	Kp 9/7/95 ~~21.5088~~	N/A	34.2553	13.5922	20.6631	.1996
95-07935-C1 SEG 3 DL	21.8441	21.5552	0.2889	33.6416	13.6214	20.0202	
95-07935-C2 SEG 3 DL DUP	21.8552	21.5756	0.2796	33.9918	13.5510	20.4408	

Both segments had observable solids in the bottom of Jar. I Aliquoted only the liquid portion.

200λ Pipe
DIW @ 25°C
.1995 x̄=.19
.1984 S=.00
.1996 RS
.1991
.1994
Del=.1996

Spike Id: # 950831ICSP1

Ave. WT = 0.2882g. using 4 weights.

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/7/95 Reviewer: [signature] Date: 9/8/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: LIQUID

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: [signature] DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/8/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28867	95-07932-C1	PNL-ALO-212	IC	0.2855	19.0847						.1996	SAMP
	95-07932-C2		TOC 9/20/95	0.2952	20.2951							DUP
	95-07932-C3			—	19.8367							BLANK
	95-07932-C4			0.2832	19.5456		950833ICSP1	.1996				MS
	95-07932-C5			—	20.6631		↓	↓				BLK SPK
	95-07935-C1			0.2889	20.0202							SAMP
	95-07935-C2			0.2796	20.4408							DUP

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: LIQUID

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: [signature] DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/8/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
~~K28966~~ ~~K28966~~	95-07932-C1	PNL-ALO-211	ICP	0.2855	19.0847							SAMP
dup	95-07932-C2			0.2952	20.2951							DUP
	95-07932-C3		(ATS 9-8-95)	~~19.5438~~	19.8367							BLANK
	95-07935-C1			0.2899	20.0202							SAMP
	95-07935-C2			0.2796	20.4408							DUP

PAGE 1 OF 1

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Water Leach

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07941-C1	95-07941-C2	95-07941-C3	95-07941-C4
95-07941-C5			
95-07942-C1	95-07942-C2		
95-07943-C1	95-07943-C2		
95-07944-C1	95-07944-C2		
95-07945-C1	95-07945-C2		
95-07946-C1	95-07946-C2		
95-07947-C1	95-07947-C2		
95-07948-C1	95-07948-C2		

PNL ACL Quality Representative

9/20/95
Date

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
WATER LEACH

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28864

TI Number: TI95-TWC-03 Procedure: PNL-ALO-103

Sample Ident.	Sample Gross Wt (g)	Sample Tare Wt (g)	Sample Net Wt (g)	DIW Gross Wt (g)	DIW Tare Wt (g)	DIW Net Wt (g)	Spike ~~Volume~~ g.
95-07941-C1 SEG 1	91.6629	91.1490	0.5139	89.0226	38.8388	50.1838	
95-07941-C2 SEG 1 DUP	83.1335	82.6363	0.4972	90.2340	40.2525	49.9815	
95-07941-C3 METHODS BLK*	XXX	74.8676		125.3482	74.8676	50.4806	
95-07941-C4 MATRIX SPIKE	84.6592	84.1619	0.4973	94.5467	42.6344	51.9123	85.1769 84.6592 0.5177
95-07941-C5 SPIKE CONT.	85.8571	85.3388	0.5183	89.5364	38.7847	50.7517	
95-07942-C1 QTR SEG 2A	86.8215	86.3063	0.5152	92.2424	41.9017	50.3407	
95-07942-C2 QTR SEG 2A DUP	84.7279	84.2228	0.5051	92.8365	41.6529	51.1836	
95-07943-C1 QTRA SEG 2D	86.1853	85.6115	0.5738	96.3848	43.1204	53.2644	
95-07943-C2 QTR SEG 2D DUP	89.4940	88.8780	0.6160	92.6429	41.8188	50.8241	

* The me[illegible] blank fe[illegible] in H_2O [illegible] but b[illegible] visual inspec[illegible] the inte[illegible] of the seal wa[illegible] not bro[illegible] [illegible] 9/4[illegible]

Spike Id: Tank Spike for SAL Prep. Spike Id 950831ICSP1

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/6/95 Reviewer: [signature] Date: 9/7/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
WATER LEACH

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28864

TI Number: TI95-TWC-03 Procedure: PNL-ALO-103

Sample Ident.	Sample Gross Wt (g)	Sample Tare Wt (g)	Sample Net Wt (g)	DIW Gross Wt (g)	DIW Tare Wt (g)	DIW Net Wt (g)	Spike Volume
95-07944-C1 QTR SEG 3A	86.3989	85.8747	0.5242	94.7222	43.4411	51.2811	
95-07944-C2 QTR SEG 3A DUP	89.2134	88.7311	0.4823	93.8675	42.5354	51.3321	
95-07945-C1 QTR SEG 4A	87.1099	86.6210	0.4889	93.8845	42.3392	51.5453	
95-07945-C2 QTR SEG 4A DUP	90.2466	89.6430	0.6035	88.8333	38.8147	50.0186	
95-07946-C1 QTR SEG 4B	89.4803	89.0818	0.3985	90.3757	40.3788	49.9969	
95-07946-C2 QTR SEG 4B DUP	87.1453	86.5840	0.5613	92.4692	41.4173	51.0519	
95-07947-C1 QTR SEG 4C	81.1101	80.6485	0.4616	90.9456	40.4098	50.5358	
95-07947-C2 QTRA SEG 4C DUP	89.9728	89.4526	0.5202	90.2248	39.9628	50.2620	

Spike Id: _____

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: _____ Date: 9/6/95 Reviewer: _____ Date: 9/7/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
WATER LEACH

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28864

TI Number: TI95-TWC-03 Procedure: PNL-ALO-103

Sample Ident.	Sample Gross Wt (g)	Sample Tare Wt (g)	Sample Net Wt (g)	DIW Gross Wt (g)	DIW Tare Wt (g)	DIW Net Wt (g)	Spike Volume
95-07948-C1 QTR SEG 4D	88.5036	88.0085	0.4951	93.9045	42.1162	51.7883	
95-07948-C2 QTR SEG 4D DUP	87.1724	86.5109	0.6615	91.2758	39.4423	51.8335	
0.5 mL pipet calibration for Spike Addition							
				DIW @ 24°C			
0.4910 g	$\bar{X}$ =	0.4923					
0.4898 g	S =	.0022					
0.4952 g	RSD =	0.44%					
0.4938 g	n =	5					
0.4917 g	DLW	4936 mL					

Spike Id: _____

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/6/95 Reviewer: [signature] Date: 9/7/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: R. T. Steele DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/7/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28966 -K28968-	95-07941-C1	PNL-ALO-211	ICP		0.5139	50.1838						SAMP
	95-07941-C2				0.4972	49.9815						DUP
	95-07941-C3					50.4806						BLANK
	95-07942-C1				0.5152	50.3407						SAMP
	95-07942-C2				0.5051	51.1836						DUP
	95-07943-C1				0.5738	53.2644						SAMP
	95-07943-C2				0.6160	50.8241						DUP
	95-07944-C1				0.5242	51.2811						SAMP
	95-07944-C2				0.4823	51.3321						DUP
	95-07945-C1				0.4889	51.5453						SAMP
	95-07945-C2				0.6835	50.0186						DUP
	95-07946-C1				0.3985	49.5969						SAMP
	95-07946-C2				0.5613	51.0519						DUP
	95-07947-C1				0.4616	50.5358						SAMP

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: Robert S. Steele DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/7/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
~~K28866~~ KP 9/11/95	95-07947-C2	PNL-ALO-211	ICP	0.5202	50.2620							DUP
	95-07948-C1			0.4951	51.7883							SAMP
	95-07948-C2			0.6615	51.8335							DUP

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WHC-SD-WM-DP-145, REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: Rick T. Steele DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/7/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT (g)	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL ~~(mL)~~ wt (g)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28867	95-07941-C1	PNL-ALO-212	IC	0.5139	50.1838						0.4936	SAMP
	95-07941-C2			0.4972	49.9815							DUP
	95-07941-C3				50.4806							BLANK
	95-07941-C4			0.4973	51.9123		75083 IICSP	0.5177				MS
	95-07941-C5		RTS 9-7-95	~~0.5183~~	50.7517			0.5183				SPK BLK
	95-07942-C1			0.5152	50.3407							SAMP
	95-07942-C2			0.5051	51.1836							DUP
	95-07943-C1			0.5738	53.2644							SAMP
	95-07943-C2			0.6160	50.8241							DUP
	95-07944-C1			0.5242	51.2811							SAMP
	95-07944-C2			0.4823	51.3321							DUP
	95-07945-C1			0.4889	51.5453							SAMP
	95-07945-C2			0.6035	50.0186							DUP
	95-07946-C1			0.3985	49.9969							SAMP
	95-07946-C2			0.5613	51.0519							DUP
	95-07947-C1			0.4616	50.5358							SAMP

PAGE 1 OF 2

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Water Leach

ANALYST: Rick T. Steele DATE: 9/7/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/7/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT (g)	WATER WT (g)	TOTAL VOL (mL)	SPIKE ~~ID~~ wt (g) KP 9/19/95	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28867	95-07947-C2	PNL-ALO-212	IC	0.5202	50.2620							DUP
	95-07948-C1			0.4951	51.7883							SAMP
	95-07948-C2			0.6615	51.8335							DUP

PAGE 2 OF _

WHC-SD-WM-DP-145, REV. 1

ACID DIGESTION

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Acid Digest (Drainable Liquid)

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07932-A1 95-07932-A2 95-07932-A3 95-07932-A4 95-07932-A5
95-07935-A1 95-07935-A2

PNL ACL Quality Representative

9/20/95
Date

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 SAL-SRPL

PNL-ALO-128

Nitric and Hydrochloric Acid Extraction of High-level Radioactive Liquids and TCLP Leachates

Client: K. SILVERS — QA plan: MCS-033
Work Auth. Doc (WAD): ASR 2388 TI95-TWC-03 — Impact level: II
Work Package/Project: K28866 — Balance M&TE:
Tank/Core/Other ID: TANK BY-108 CORE 99 DRAINABLE LIQUIDS — Prep. lab (SAL or SRPL): SAL
Additional Information:

	ALO #	Client ID	Sample weight (g)	Spike volume (ml)	Final extract volume (ml)	Process Factor			
1	95-07932-A1	SEG 2 DL	2.7817		25	8.99			
2	95-07932-A2	SEG 2 DL DUP	2.7705			9.02			
3	95-07932-A3	METHODS BLANK	~~2.8757~~						
4	95-07932-A4	MATRIX SPIKE	2.8757	0.2526		8.69			
5	95-07932-A5	SPIKE CONTROL		0.2526					
6	95-07935-A1	SEG 3 DL	2.8016			8.92			
7	95-07935-A2	SEG 3 DL DUP	2.8259			8.85			
8									
9									
10									
11									
12									
13									
14									
15									
16									

Analyst comments (e.g. identification number for spikes, sample preparation problems encountered, unusual sample properties): SAMPLES FILTERED: YES [ ] NO [ ]

SPiKe ID # 950830H901 ICP AES. .250 ml Pipet DIW @ 25°C
.2525 $\bar{x}$ = .2519 g
.2520 S = .0004
.2514 RSD = .17%
.2515
.2519 Del = .2526 me

Analyst/Date: [signature] 9/8/95 Reviewer/Date: [signature] 9/8/95

rev.2.0 3-9-95 JMR

White flocculant noted upon acid additions

250 ul pipet Check

5ml Pipet Check (GEA) DIW @ 25°C

~~4.9747~~	Void MC 9-8-95	4.9845
~~4.9861~~		4.9547
~~4.9649~~		4.9917
~~4.9553~~		5.0001
~~4.9845~~		4.9750

$\bar{X} = 4.9812$
$S = 0.0175$
RSD = 0.35%
n = 5
DIVY = 4.9959 mL

Analyst: [signature] Date: 9/8/95

Reviewer [signature] Date: 9/19/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: DRAINABLE LIQUID

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: ACID DIGESTION

ANALYST: [signature] DATE: 9/8/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07932-A1	PNL-ALO-211	ICP									SAMP
	95-07932-A2											DUP
	95-07932-A3											BLANK
	95-07932-A4											MS
	95-07932-A5											SPK CONT
	95-07935-A1											SAMP
	95-07935-A2											DUP

WHC-SD-WM-DP- 145 REV. 1

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Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: DRAINABLE LIQUID

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: ACID DIGESTION

ANALYST: [signature] DATE: 9/8/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
SEE BELOW	95-07932-A1	SEE BELOW	SEE BELOW									samp
	95-07932-A2											dup
	95-07932-A3											blank
	95-07935-A1											samp
	95-07935-A2											dup
K28870		PNL-ALO-421	T. ALPHA									
K28872		PNL-ALO-450	GEA									
K28873		PNL-ALO-431	T. BETA									

PAGE 1 OF 1

WHC-SD-WM-DP-145, REV. 1

3-200

You received 9.9919 mL of each of samples above.

KOH FUSION

DATE TO QC: 09/19/95 WHC-SD-WM-DP-145, REV.1

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - KOH Fusion

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07942-H1	95-07942-H2	95-07942-H3
95-07943-H1	95-07943-H2	
95-07944-H1	95-07944-H2	
95-07945-H1	95-07945-H2	95-07945-H3
95-07947-H1	95-07947-H2	
95-07948-H1	95-07948-H2	

PNL ACL Quality Representative

9/20/95
Date

3-202

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: TWC/21372 WP Number: K28862

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-115

	Sample Ident.	Wet Sample Gross Wt (g)	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)
1	95-07942-H1 QTR SEG 2A	54.7145	54.5993	0.1152			
2	95-07942-H2 QTR SET 2A DUP	48.7459	48.6350	0.1109			
3	95-07942-H3 METHODS BLANK	XXXX	XXXX				
4	95-07943-H1 QTR SEG 2D	54.3861	54.0499	0.3362			
5	95-07943-H2 QTR SEG 2D DUP	55.4510	55.1247	0.3263			
6	95-07944-H1 QTR SEG 3A	55.7204	55.5992	0.1212			
7	95-07944-H2 QTR SEG 3A DUP	54.4753	54.3333	0.1420			

M&TE:

X Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/11/95 Reviewer: [signature] Date: 9/11/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: TWC/21372 WP Number: K28862

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-115

	Sample Ident.	Wet Sample Gross Wt (g)	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)
✓8	95-07945-H1 QTR SEG 4A*	53.3293	53.2216	0.1077			
✓9	95-07945-H2 QTR SET 4A DUP	56.4366 ~~56.4613~~ 9/7/95 OTB	56.3194 ~~56.2912~~ 9/7/95 OTB	0.1172 ~~0.1701~~ ** 9/7/95 OTB			
✓10	95-07945-H3 METHODS BLANK						
✓11	95-07947-H1 QTR SEG 4C	55.7426	55.6337	0.1089			
✓12	95-07947-H2 QTR SEG 4C DUP	54.1167 ~~54.0671~~ OTB 9/6/95	53.9722	0.1445			
13	95-07948-H1 QTR SEG 4D	52.8227	52.7239	0.0988			
14	95-07948-H2 QTR SEG 4D DUP	54.9214	54.8338	0.0876			
	M&TE: #15 *SRM 2709	54.1551	54.0560	0.0991			

* started pin ye llow in color → put on the plate ... pink in color → put on the plate the solution boil over (will need to be repeated) OTB 9/7

___ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/6/95 Reviewer: [signature] Date: 9/11/95

* SRM 2709 Barcode # 80804

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: NI/KOH FUSION

ANALYST: [signature] DATE: 9/11/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
SEE BELOW	95-07945-H1	SEE BELOW	SEE BELOW	0.1077		100						SAMP
	95-07945-H2			0.1172								DUP
	95-07945-H3											BLANK
	95-07946-H1T			0.1002								SAMP
	95-07946-H2T			0.0992								DUP
	95-07946-HCB											BLANK
	95-07947-H1			0.1089								SAMP
	95-07947-H2			0.1445								DUP
	95-07948-H1			0.0988								SAMP
	95-07948-H2			0.0876								DUP
K28870		PNL-ALO-421	T. ALPHA									
K28871		PNL-ALO-422/423	AEA									
K28872		PNL-ALO-450	GEA				You received 9.98 mL of each sample					
K28873		PNL-ALO-431	T. BETA									
K28874		PNL-ALO-433/431	Sr-90									
K28875		PNL-ALO-445	U-LASER									

PAGE 1 OF _

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WHC-SD-WM-DP-145, REV. 1

9/11/95 Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

5.0ml pipet calibration check (GEA)

~~4.8603g~~ OPB 9/11/95
4.9688g
4.9692g
4.9822g
4.9863g
4.9815g

$\bar{X}$ = 4.9772g
S = 0.0086
RSD = 0.17%
n = 5
dLuy = 4.9919ml

cell 2 temperature: 25°C

Analyst: [signature] Date: 9/19/95

Reviewer [signature] Date: 9/~~18~~ 19/95
RCS 9-19-95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: NI/KOH FUSION

ANALYST: [signature] DATE: 9/11/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
SEE BELOW	95-07941-H1T	SEE BELOW	SEE BELOW	0.1005		100						SAMP
	95-07941-H2T			0.1026								DUP
	95-07941-HCB											BLANK
	95-07942-H1			0.1152								SAMP
	95-07942-H2			0.1109								DUP
	95-07942-H3											BLANK
	95-07943-H1			0.3362								SAMP
	95-07943-H2			0.3263								DUP
	95-07944-H1			0.1212								SAMP
	95-07944-H2			0.1420								DUP
K28870		PNL-ALO-421	T. ALPHA									
K28871		PNL-ALO-422/423	AEA			You received 9.98 39 mL of each SAMPLE.						
K28872		PNL-ALO-450	GEA									
K28873		PNL-ALO-431	T. BETA									
K28874		PNL-ALO-433/431	Sr-90									
K28875		PNL-ALO-445	U-LASER									

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WHC-SD-WM-DP-[illegible], REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Ni/KOH FUSION

ANALYST: [signature] DATE: 9/11/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: Rich S. Steele DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07941-H1T	PNL-ALO-211	ICP	0.1005		100						SAMP
	95-07941-H2T			0.1026								DUP
	95-07941-HCB											BLANK
	95-07942-H1			0.1152								SAMP
	95-07942-H2			0.1109								DUP
	95-07942-H3											BLANK
	95-07943-H1			0.3362								SAMP
	95-07943-H2			0.3263								DUP
	95-07944-H1			0.1212								SAMP
	95-07944-H2			0.1420								DUP
	~~95-07941-H1T~~ SRM-2709-H	RTS 9-11-95		0.0991								

PAGE 1 OF 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: T195-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: NI/KOH FUSION

ANALYST: [signature] DATE: 9/6/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07945-H1	PNL-ALO-211	ICP	0.1077		100						SAMP
	95-07945-H2			0.1172								DUP
	95-07945-H3											BLANK
	95-07946-H1T			0.1002								SAMP
	95-07946-H2T			0.0992								DUP
	95-07946-HCB											BLANK
	95-07947-H1			0.1089								SAMP
	95-07947-H2			0.1445								DUP
	95-07948-H1			0.0988								SAMP
	95-07948-H2			0.0876								DUP
	~~[illegible]~~ SRM-2709-H	ASR-11-95		0.0991								

PAGE 1 OF .

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WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 1

Na_2O_2 FUSION

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Zr Fusions

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07941-N1 95-07941-N2 95-07941-N3
95-07942-N1
95-07943-N1
95-07944-N1
95-07945-N1
95-07946-N1
95-07947-N1
95-07948-N1

Julie Bredt
PNL ACL Quality Representative

9/20/95
Date

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28863

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-114

	*36.3677 Sample Ident.	Wet Sample Gross Wt (g) 9-7-95	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)	
1	95-07941-N1 SEG 1	~~36.3806~~ ~~36.3677~~ ~~36.3974~~ 9-7-95	36.2354	0.1383 ~~0.1620~~ 9-7-95				hard small chunks rem after NaOH addition. K dissolved
3	95-07941-N2 SEG 1 DUP	36.6589	36.5643	0.0946				ditto
4	95-07941-N3 METH BLANK		36.6181					okay
5	95-07942-N1 QTR SEG 2A	36.4918	36.3868	0.1050				okay
9	95-07943-N1 QTR SEG 2D	37.2343	37.0087	0.2256				okay
13	95-07944-N1 QTR SEG 3A	36.7272 ~~36.7112~~ GPB 9/7/95	36.5944	0.1328 ~~0.1168~~ GPB 9/7/95				Chunks of NaOH

M&TE:

X Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/11/95 Reviewer: [signature] Date: 9/11/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
FUSIONS

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28863

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-114

	Sample Ident.	Wet Sample Gross Wt (g)	Wet Sample Tare Wt (g)	Wet Sample Net Wt (g)	Dry Sample Gross Wt (g)	Dry Sample Tare Wt (g)	Dry Sample Net Wt (g)	
14	95-07945-N1 QTR SEG 4A	37.4115	37.3077	0.1038				Chunks NaOH
15	95-07946-N1 QTR SEG 4B	37.5889	37.4812	0.1077				Chunks a NaOH
17	95-07947-N1 QTR SEG 4C	37.2300	37.1254	0.1046				Chunks of NaOH
18	95-07948-N1 QTR SEG 4D	36.9533	36.8432	0.1101				Chunks NaOH
19	SRM 2709	36.4637	36.3009	0.1628				Okay

M&TE:

X Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: _____ Date: 9/11/95 Reviewer: _____ Date: 9/11/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: Zr/Na2O2 FUSION

ANALYST: [signature] DATE: 9/11/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: Robert T. Steele DATE: 9/11/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28866	95-07941-N1	PNL-ALO-211	ICP	0.1323		100						SAMP
	95-07941-N2			0.0946								DUP
	95-07941-N3											BLANK
	~~95-07942-N1~~	RS 9-11-95		0.1050								~~SAMP~~
	95-07943-N1			0.2256								SAMP
	95-07944-N1			0.1328								SAMP
	95-07945-N1			0.1038								SAMP
	95-07946-N1			0.1077								SAMP
	95-07947-N1			0.1046								SAMP
	95-07948-N1			0.1101								
	SRM 2709			0.1628		↓						

WHC-SD-WM-DP-[illegible], REV. 1

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WHC-SD-WM-DP-145, REV.1

SINGLE SHELL TANK

WASTE CHARACTERIZATION PROJECT

APPENDIX B

PHYSICAL PROPERTIES

TANK BY-108 CORE 99

September 1995

Pacific Northwest Laboratory

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B1 - INTRODUCTION

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Introduction to Physical Properties Primary Data Package

This section of the BY-108 Core 99 Primary Data Package contains primary or "raw" data collected during preparation and analysis of physical properties on Core 99 samples.

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B2 - DSC/TGA ANALYSIS

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/29/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - DSC/TGA

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 7313 7313-2 95-07932 95-07932-2 7315 7315-2 7314 7314-2 95-07935 95-07935-2 7316 7316-2 7322 7322-2 7319 7319-2 7318 7318-2 7317 7313 7317-2

JD Mathews

PNL ACL Quality Representative

9-29-95

Date

Scanning Thermogravimetric Analysis (TGA) and Differential Scanning Calorimetry (DSC) were performed on the unhomogenized solids and drainable liquids from Core 99 Segments 1 through 4. These two thermal analysis techniques are useful in determining the thermal stability and reactivity of the material. DSC measures heat released or absorbed while the temperature of the sample is increased at a constant rate. Data generated by the DSC analysis is often used to measure thermal decomposition temperatures, heats of reaction, reaction temperatures, melting points and solid-solid transition temperatures. TGA measures the mass of a sample while the temperature of the sample is increased at a constant rate. The TGA data is used to measure thermal decomposition temperatures, water content and reaction temperatures. Both methods can be modified to measure isothermal changes in the material and provide complimentary information.

The calibration of the DSC and TGA instruments were checked before running these samples. An indium standard was run on the DSC to check the temperature and enthalpy calibrations. The balance calibration of the TGA was checked with a 100 mg standard weight, and the temperature calibration was checked with a lead standard. The temperature and enthalpy calibration checks were all within 1°C and 0.2 J/g of their reported values, and the balance calibration was within 0.01 mg.

The results from the DSC and TGA analyses are reported in Tables 1-6 and 1-7, respectively. The temperature range of the scans was from ambient to 550°C, with a scan rate of 10°C per minute. These analyses were all performed in platinum pans under nitrogen cover gas.

The major transition in all of these samples was an endotherm due to water loss from the sample. This was also the major mass loss in all of the samples. The onset temperature of this transition could not be measured because the transition began at the initial temperature of the run (ambient temperature). The water loss endotherm ends at approximately 200°C. This endotherm is a complicated system of several unresolvable transitions with each sample containing slightly different proportions of these transitions.

An exotherm was identified in all quarter segment samples from Segment 4 and the drainable liquids. This exotherm has an onset temperature of between 197 and 225°C. The enthalpy of this transition varied with each quarter segment. The temperature range for this transition was from 195 to 400°C. It appears that this exotherm is commingled with some endothermic behavior which cannot be resolved; therefore, it is difficult to determine onset temperatures for each sample. The enthalpy of this transition is also dependent upon resolution of this exotherm for the commingled endotherms and the initial water loss endotherm. In most cases the most conservative approach (the largest exothermic energy) has been taken.

In Segments 1 through 3 a second endotherm is observed. Several transitions are observed in this endotherm and the onset temperature varies depending upon the size of the first transition in comparison with the second

Table 1-6: Tank BY-108, Core 99 Differential Scanning Calorimetric (DSC) Results

Sample Number	Segment ID	Enthalpy (J/g)	Range (°C)	Onset (°C)
7313	1	725.6 311.2	8-153 193-333	 219
7313-2	1	521.2 305.2	16-158 181-343	 221
95-07932	2-DL	737.5 -11.6 -14.9	45-226 226-265 265-340	 278
95-07932-2	2-DL	1243.6 -35.8 -10.5	20-216 216-270 272-330	 279
7315	2A	201.3 108.6	48-227 227-324	 250
7315-2	2A	177.3 114.1	43-231 231-322	 251
7314	2D	263.0 127.3 -2.8	22-204 215-332 375-430	 261 385
7314-2	2D	194.7 161.7 -2.8	24-185 187-345 380-430	 211
95-07935	3-DL	1178.2 26.1	31-236 236-303	 237
95-07935-2	3-DL	1279.2 26.9	32-239 239-300	238
7316	3A	303.4 81.1 -1.2	28-230 236-336 400-427	 249
7316-2	3A	343.5 101.1 -0.7	12-215 233-327 430-450	 259
7322	4A	385.5 33.6	22-183 243-310	 259
7322-2	4A	556.7	33-255	
7319	4B	651.6 -191.1	22-193 200-411	 207

Table 1-6: Tank BY-108, Core 99 Differential Scanning Calorimetric (DSC) Results (Cont.)

Sample Number	Segment ID	Enthalpy (J/g)	Range (°C)	Onset (°C)
7319-2	4B	476.0 -133.2	19-224 224-385	
7318	4C	644.5 -67.0	26-192 192-375	197
7318-2	4C	876.6 -77.8	15-196 200-361	237
7317	4D	693.4 -73.7	23-195 205-369	206
7317-2	4D	613.9 -60.2	30-193 203-350	204

transition. It appears that the onset temperature for the first transition in this endotherm is 220°C, and the onset temperature for the second transition is between 250 and 260°C.

The TGA analysis also indicated two different waste types in this core sample. All of the segments had a large mass loss associated with the water loss endotherm. This mass loss was observed between ambient temperature and 180°C. A small mass loss was observed over the remainder of the temperature range of the TGA analysis for all of the Segment 4 samples, but no significant transitions were observed at higher temperatures. In the Segment 1 through 3 solid samples, a second significant mass loss was observed. This mass loss has an onset temperature of approximately 245°C. This transition correlates with the second endothermic transition observed in the DSC analyses. These samples also continued to have a small mass loss throughout the remainder of the temperature range.

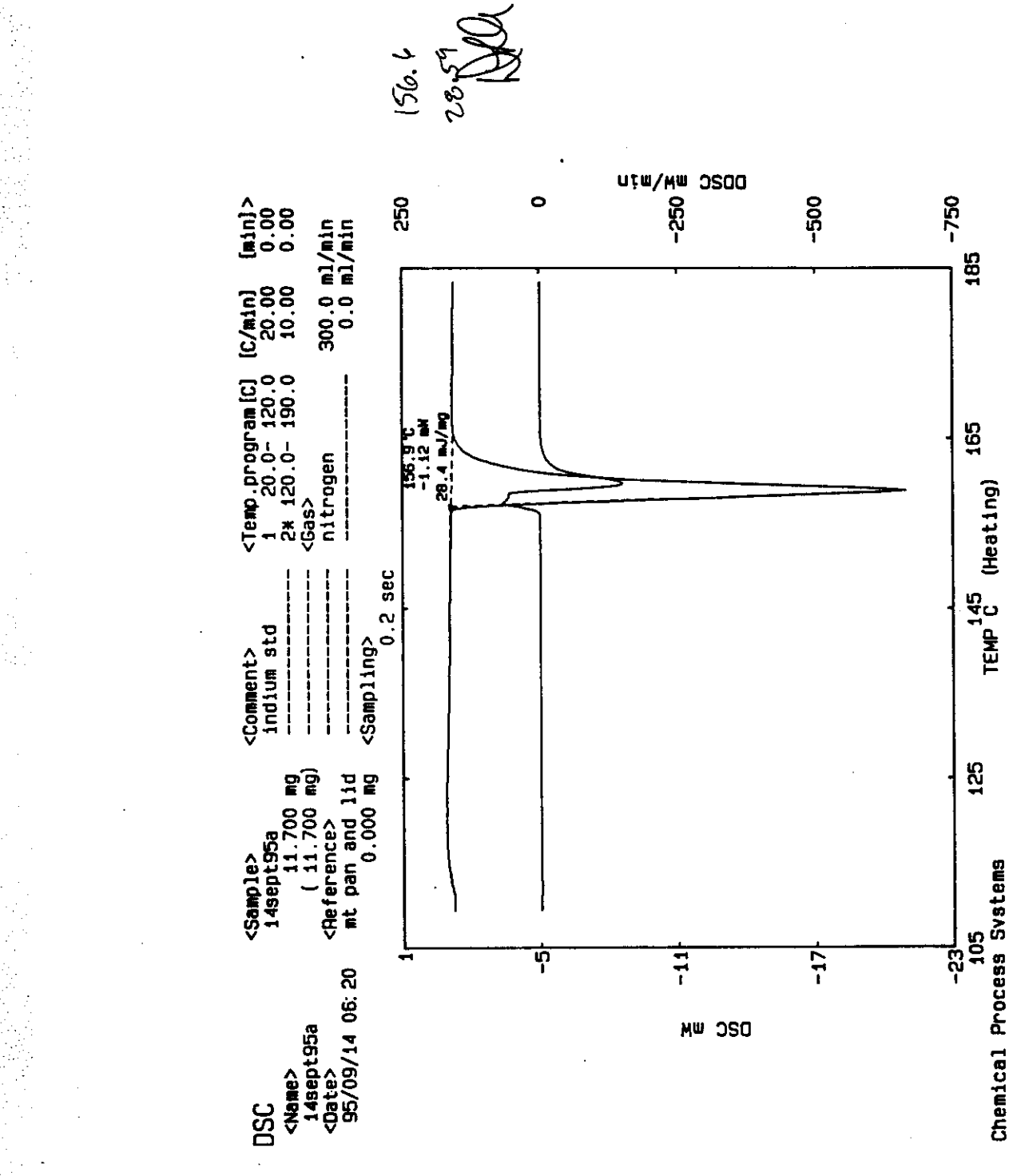
Table 1-7: Tank BY-108, Core 99 Thermogravimetric Analysis (TGA) Results

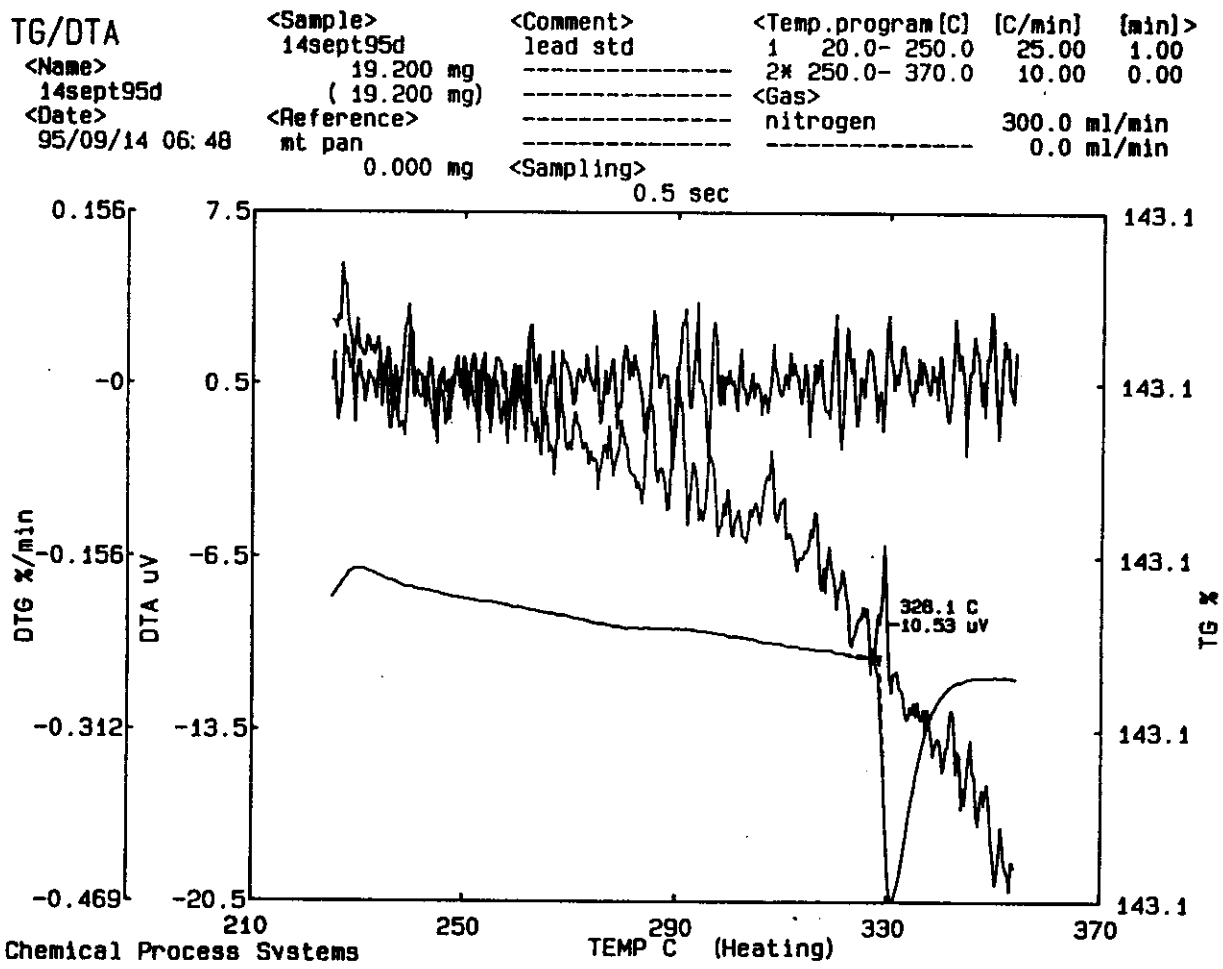
Sample	Segment	Range (°C)	Onset (°C)	Mass Loss (%)
7313	1	23-157 157-309 309-548	247	32.7 9.7 2.6
7313-2	1	28-145 145-318 318-548	249	26.1 13.2 3.5
7316	3A	22-212 212-344 344-548	310	14.1 0.9 0.2
7316	3A	40-170 170-548		35.0 1.9
7314	2D	27-198 198-328 328-545	245	17.9 2.2 0.9
7314-2	2D	23-203 203-328 328-442 442-545	242 393	15.5 3.3 0.8 0.4
7315	2A	23-136 136-256 256-545		7.8 3.6 0.8
7315-2	2A	23-130 130-215 215-545		6.6 5.2 0.1
7317	4D	23-167 167-550		40.6 5.1
7317-2	4D	22-178 178-549		44.0 3.8
7318	4C	24-173 173-549		35.6 5.3
7318-2	4C	24-172 172-549		36.2 4.5
7319	4B	22-187 187-403 403-548	309	35.3 7.9 1.3

Table 1-7: Tank BY-108, Core 99 Thermogravimetric Analysis (TGA) Results (Cont.)

Sample	Segment	Range (°C)	Onset	Mass Loss (%)
7319-2	4B	23-172 172-412 412-549	300	35.9 8.1 0.8
7322	4A	22-160 160-550		25.8 3.1
7322-2	4A	23-171 171-548		25.1 3.4
95-07935	3-DL	23-227 227-548		52.1 0.8
95-07935	3-DL	24-235 235-548		52.6 0.7
95-07932	2-DL	28-218 218-548		52.6 0.8
95-07932	2-DL	23-236 236-547		46.7 0.6

156.6
28.5


DSC
<Name>
14sept95a
<Date>
95/09/14 06:20
<Sample>
14sept95a
11.700 mg
(11.700 mg)
<Reference>
mt pan and lid
0.000 mg
<Comment>
indium std
<Sampling>
0.2 sec
<Temp.program[C] [C/min] [min]>
1 20.0- 120.0 20.00 0.00
2* 120.0- 190.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
156.9°C
-1.12 mW
28.4 mJ/mg
DSC mW/min
250
0
-250
-500
-750
DSC mW
1
-5
-11
-17
-23
105
125
145
165
185
TEMP °C (Heating)
Chemical Process Systems



327.5

WHC-SD-WM-DP-[illegible] REV. 1

DSC

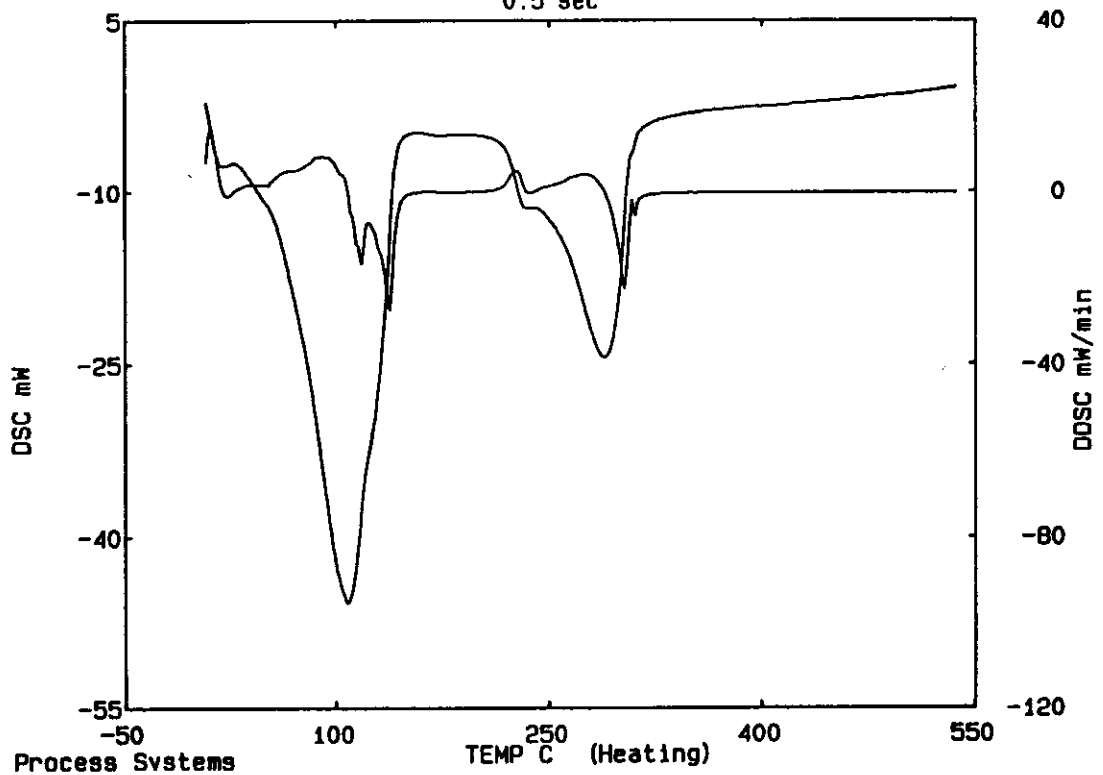
<Name>
20sept95c
<Date>
95/09/20 08:38

<Sample>
20sept95c
19.935 mg
(19.935 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7313

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

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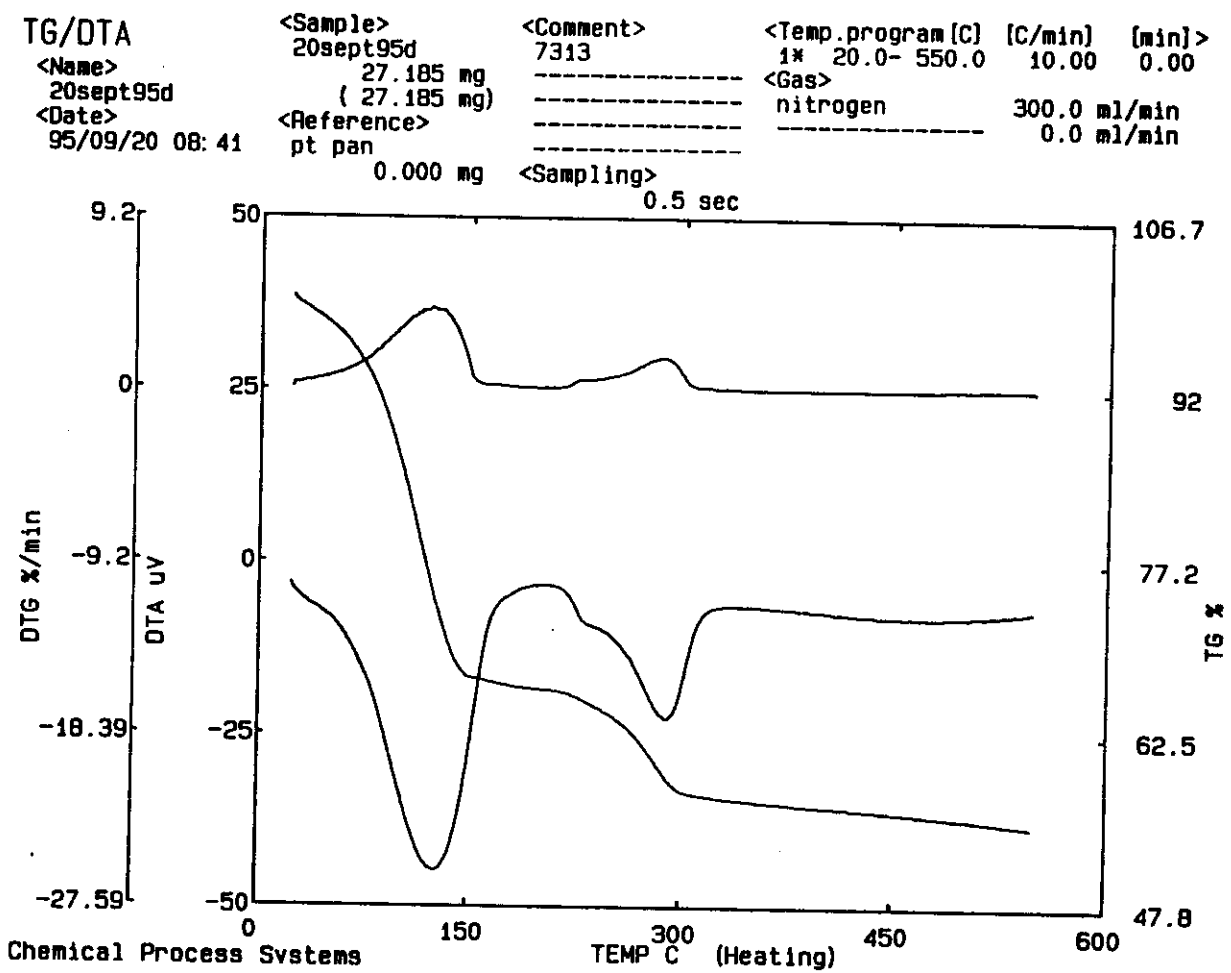
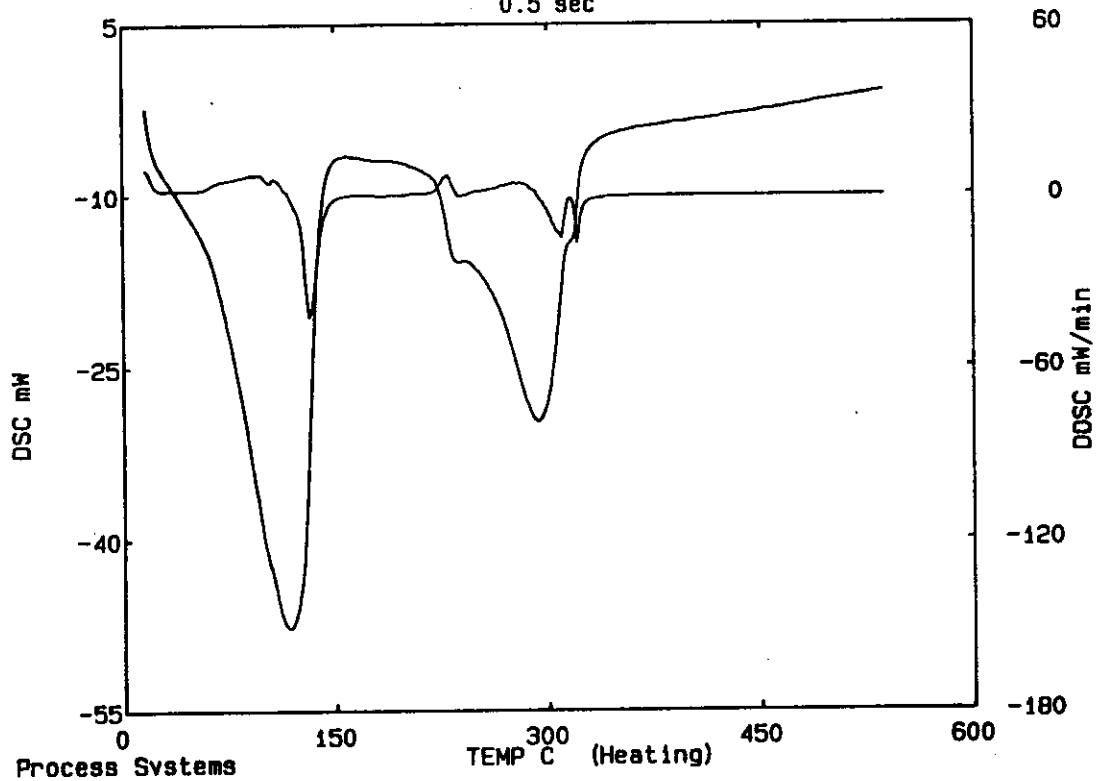
WHC-SD-WM-DP-145, REV. 1

1 of 1


TG/DTA
<Name>
20sept95d
<Date>
95/09/20 08:41
<Sample>
20sept95d
27.185 mg
(27.185 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7313
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
9.2
0
-9.2
-18.39
-27.59
DTG %/min
DTA uV
50
25
0
-25
-50
106.7
92
77.2
62.5
47.8
TG %
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems

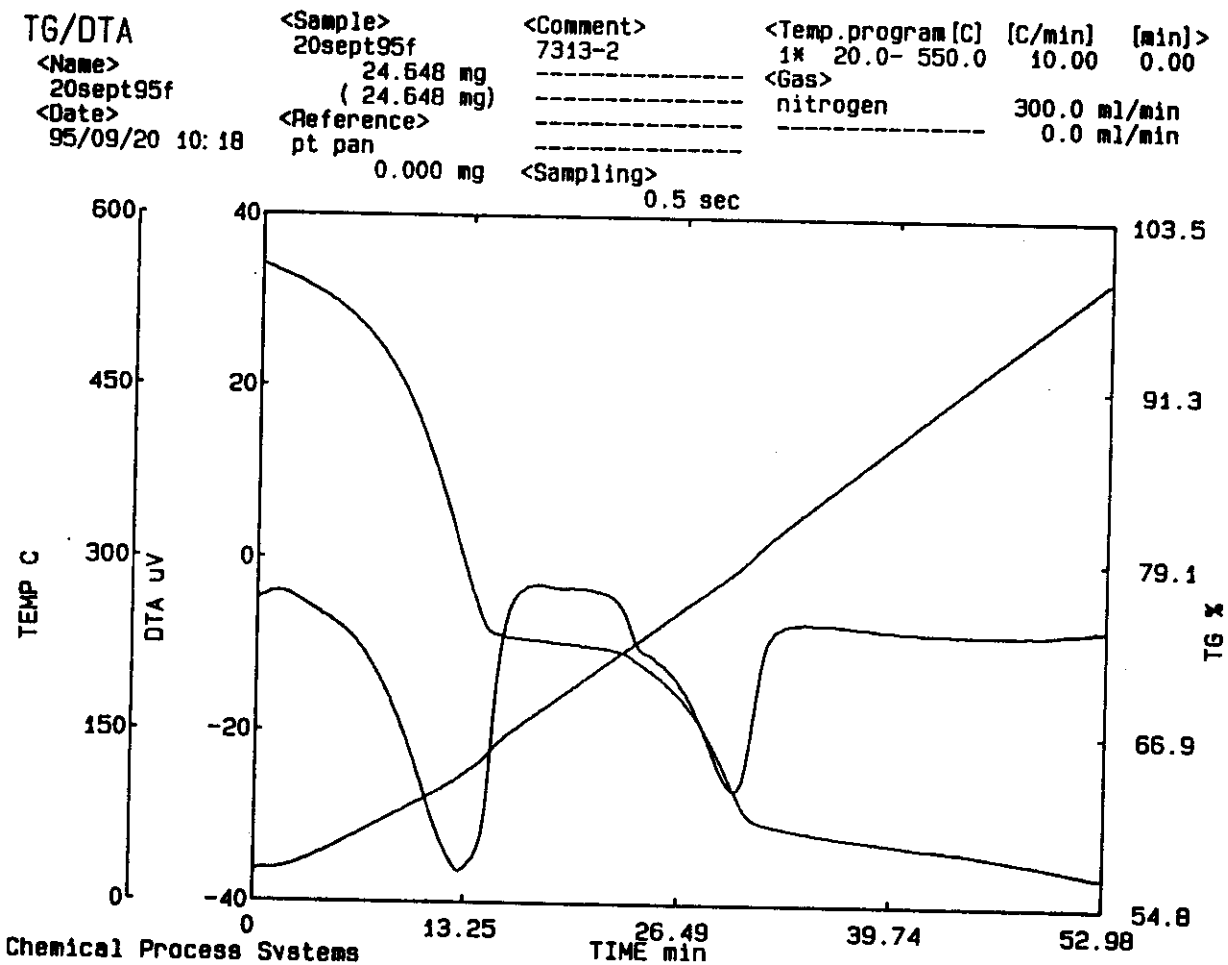
DSC

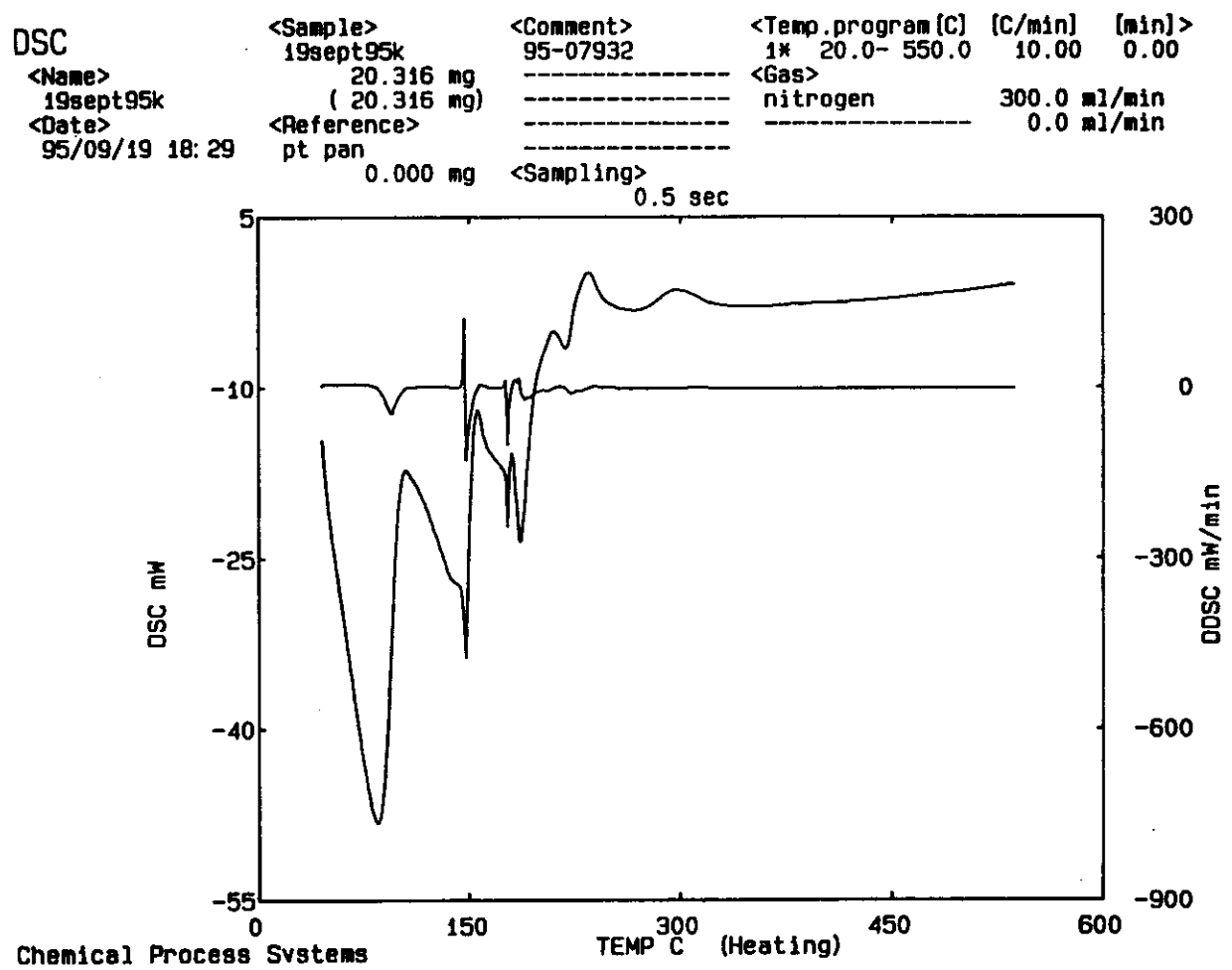
<Name>	<Sample>	<Comment>	<Temp.program[C]	[C/min]	[min]>
20sept95e	20sept95e	7313-2	1* 20.0- 550.0	10.00	0.00
<Date>	29.313 mg	----------	<Gas>		
95/09/20 10:14	(29.313 mg)	----------	nitrogen	300.0 ml/min	
	<Reference>	----------	----------	0.0 ml/min	
	pt pan	----------			
	0.000 mg	<Sampling>			
		0.5 sec			

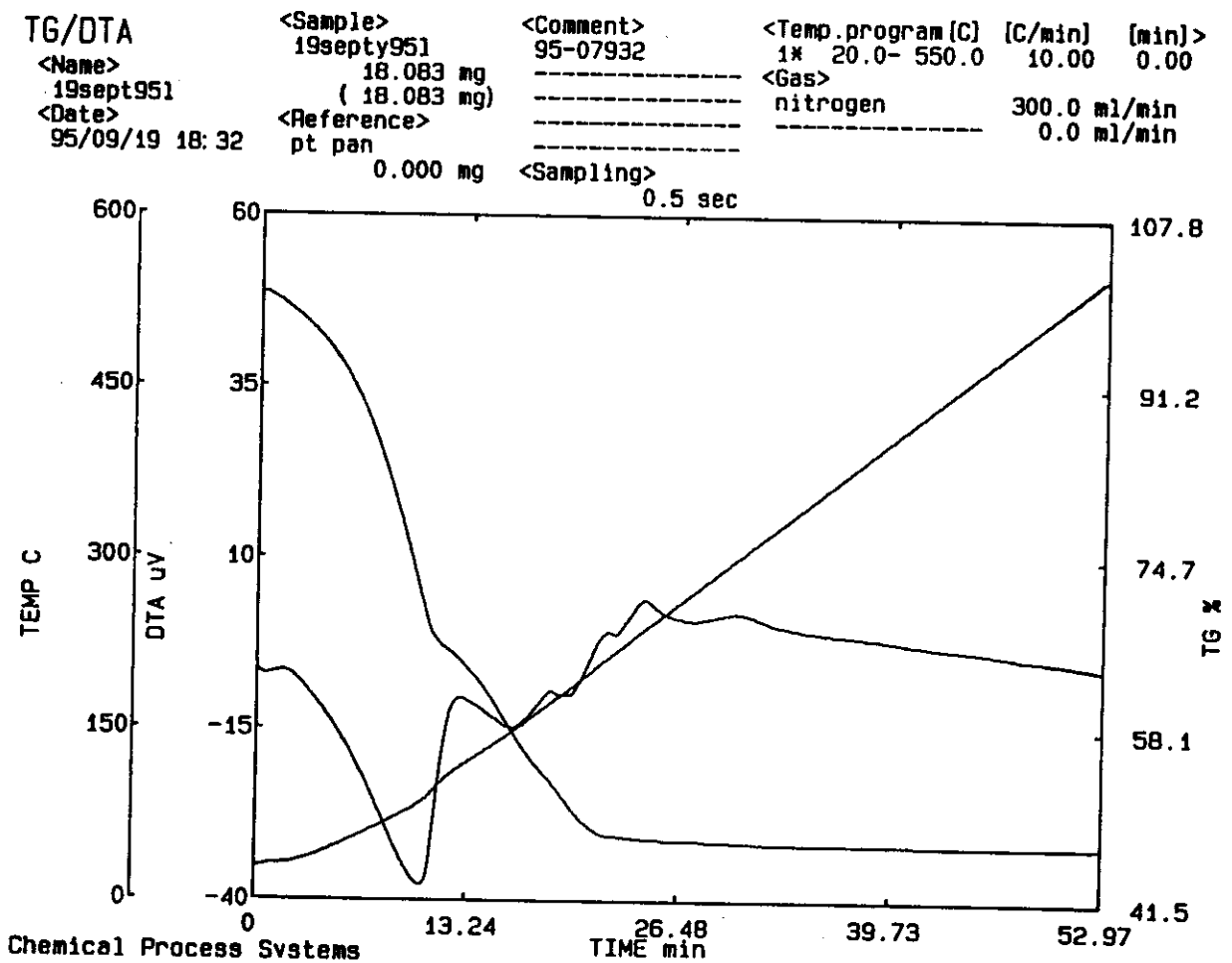


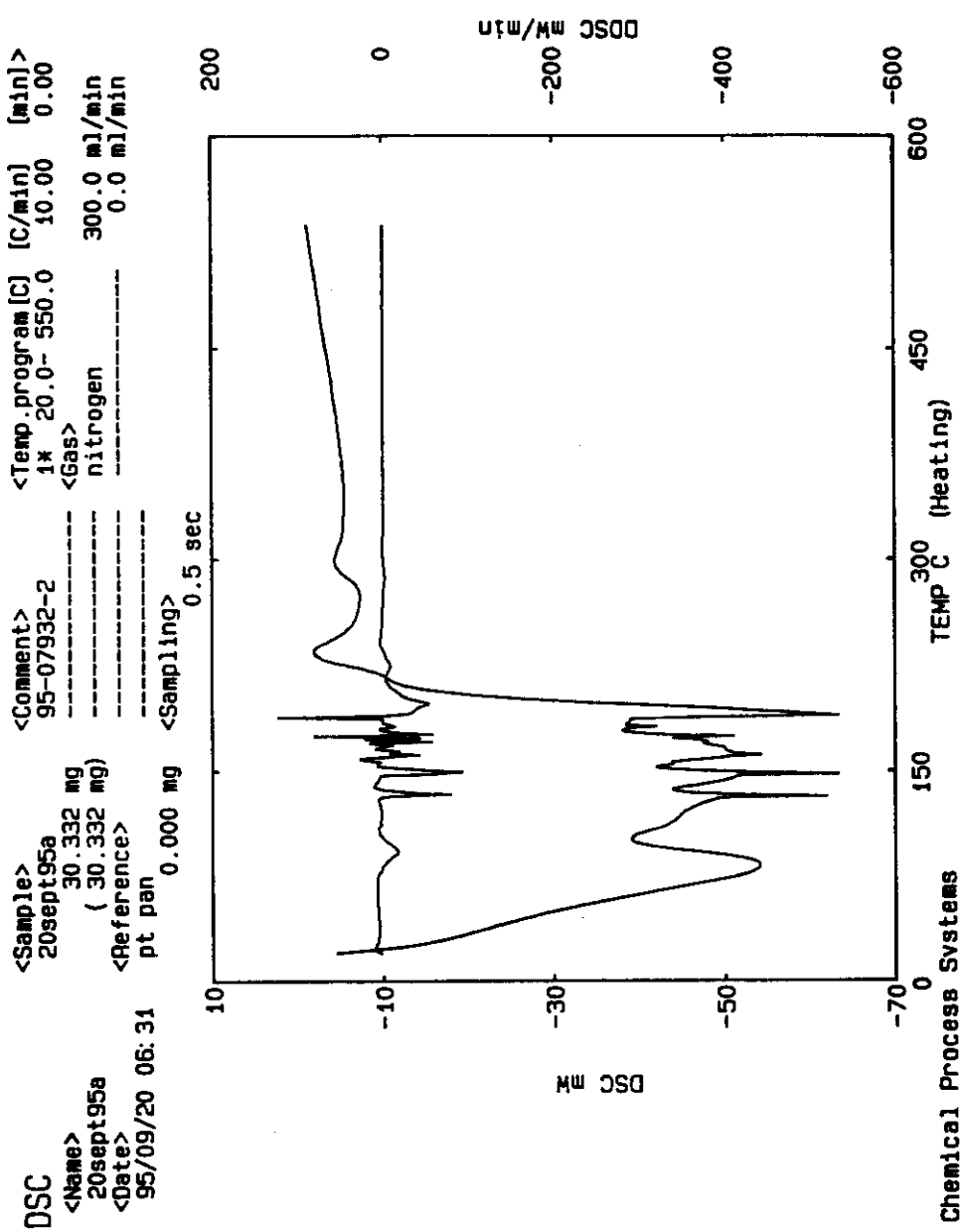
Chemical Process Systems

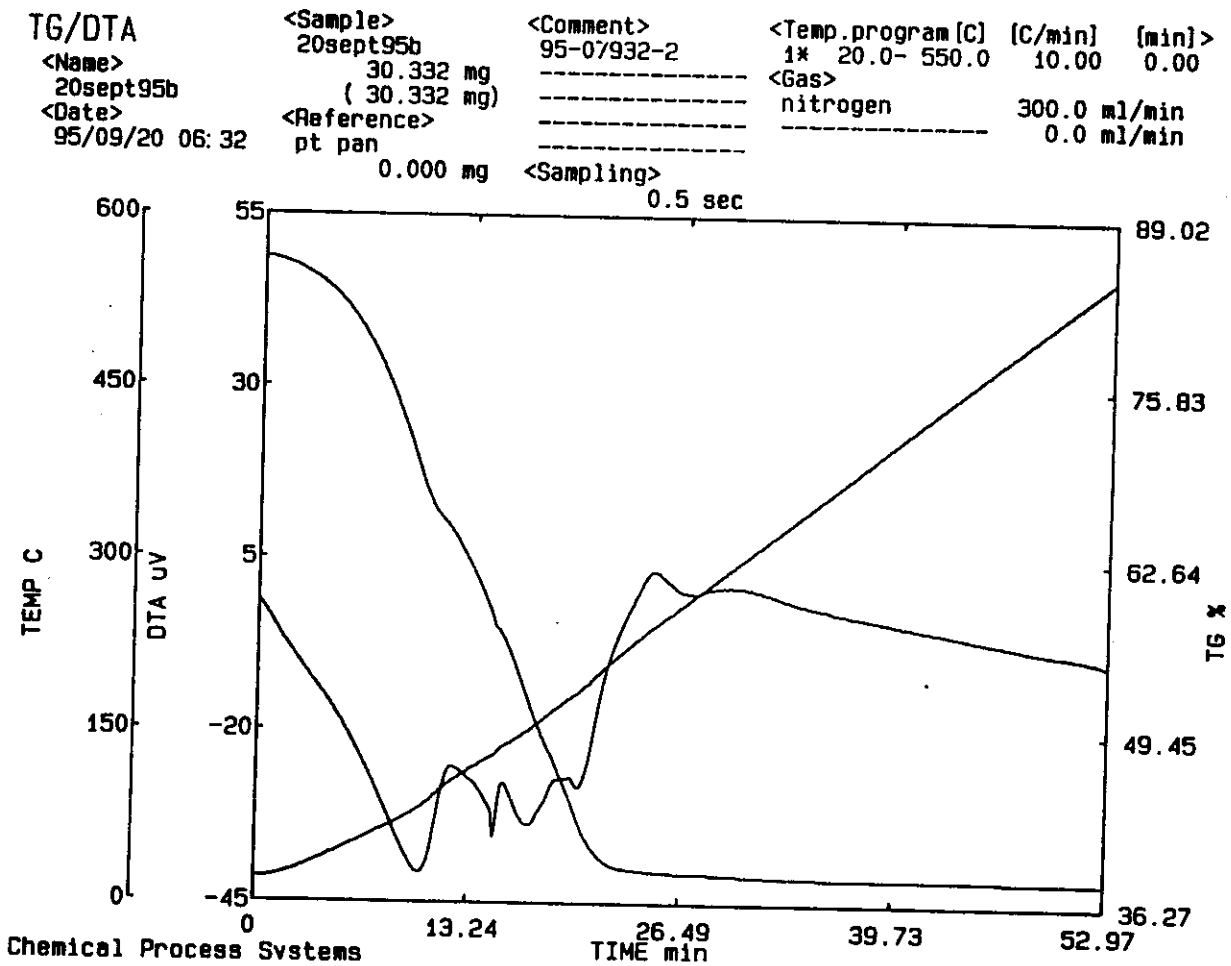
WHC-SD-WM-DP-145, REV. 1

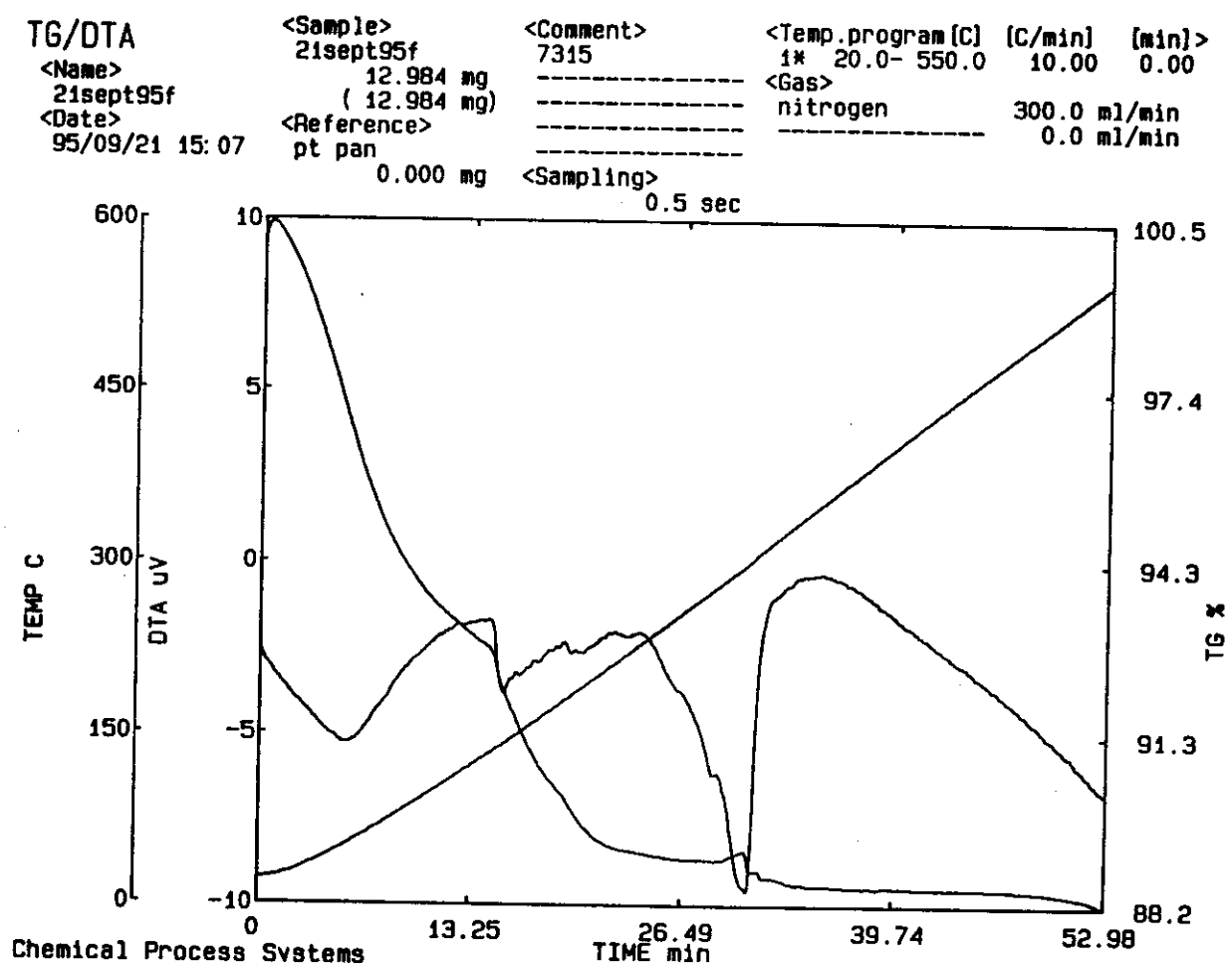



DSC
<Name>
19sept95k
<Date>
95/09/19 18:29
<Sample>
19sept95k
20.316 mg
(20.316 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems


TG/DTA
<Name>
19sept951
<Date>
95/09/19 18:32
<Sample>
19septy951
18.083 mg
(18.083 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932
<Sampling>
0.5 sec
<Temp.program(C) (C/min) (min)>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
TEMP C
DTA uV
TG %
600
450
300
150
0
60
35
10
-15
-40
107.8
91.2
74.7
58.1
41.5
0
13.24
26.48
39.73
52.97
TIME min
Chemical Process Systems


DSC
<Name>
20sept95a
<Date>
95/09/20 06:31
<Sample>
20sept95a
30.332 mg
(30.332 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0~ 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C
(Heating)
Chemical Process Systems


TG/DTA
<Name>
20sept95b
<Date>
95/09/20 06:32
<Sample>
20sept95b
30.332 mg
(30.332 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07932-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
TEMP C
DTA uV
TG %
600
450
300
150
0
55
30
5
-20
-45
89.02
75.83
62.64
49.45
36.27
0
13.24
26.49
39.73
52.97
TIME min
Chemical Process Systems



WHC-SD-WM-DP-145, REV. 1

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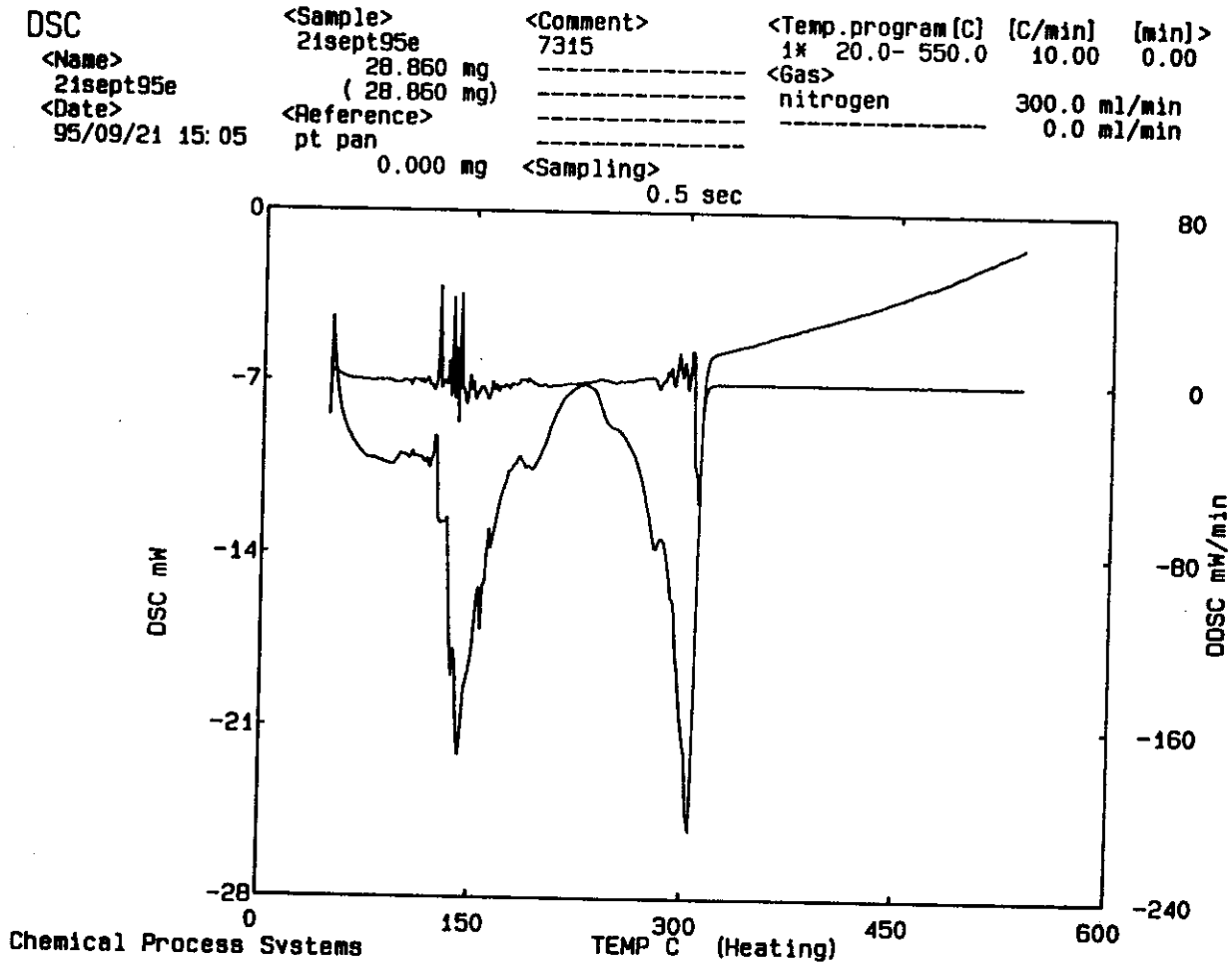

DSC
<Name>
21sept95e
<Date>
95/09/21 15:05
<Sample>
21sept95e
28.860 mg
(28.860 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7315
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
0
-7
-14
-21
-28
DSC mW
80
0
-80
-160
-240
DDSC mW/min
0
150
300
450
600
TEMP C (Heating)
Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

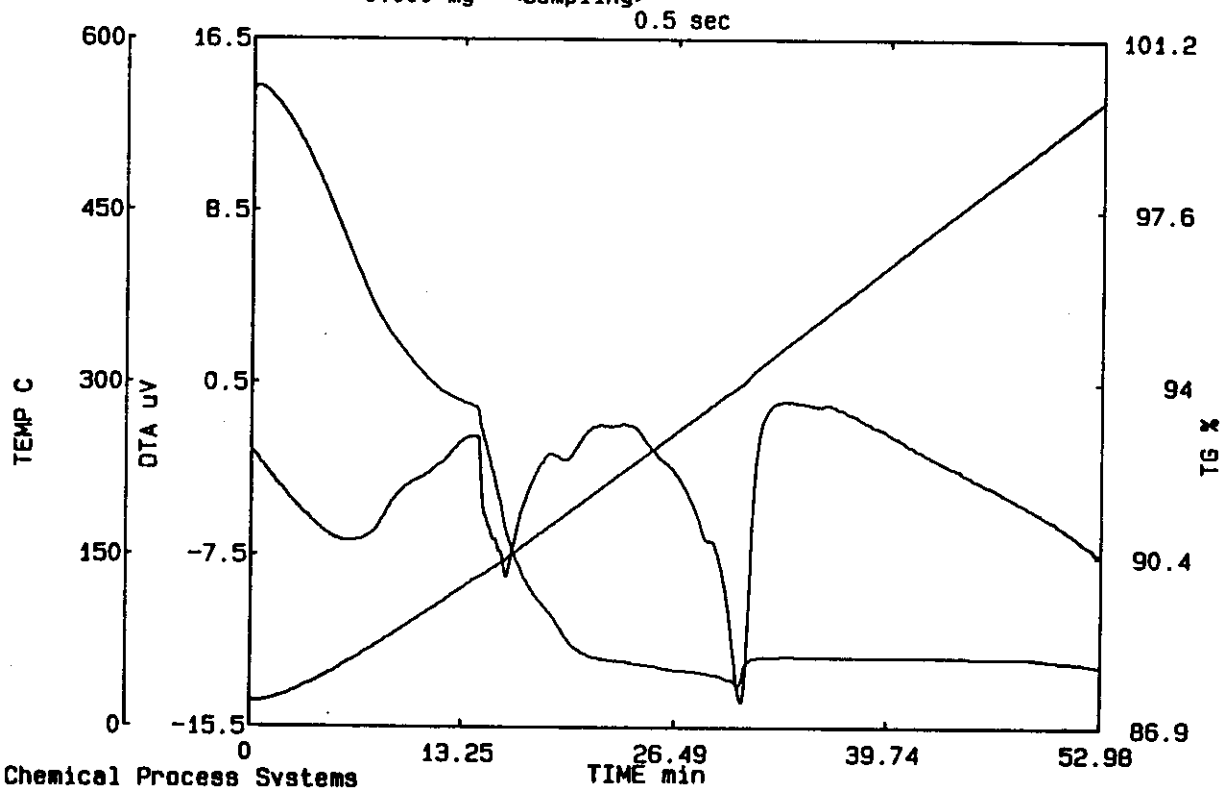
TG/DTA

<Name>
21sept95h
<Date>
95/09/21 16:57

<Sample>
21sept95h
22.391 mg
(22.391 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7315-2
<Sampling>
0.5 sec

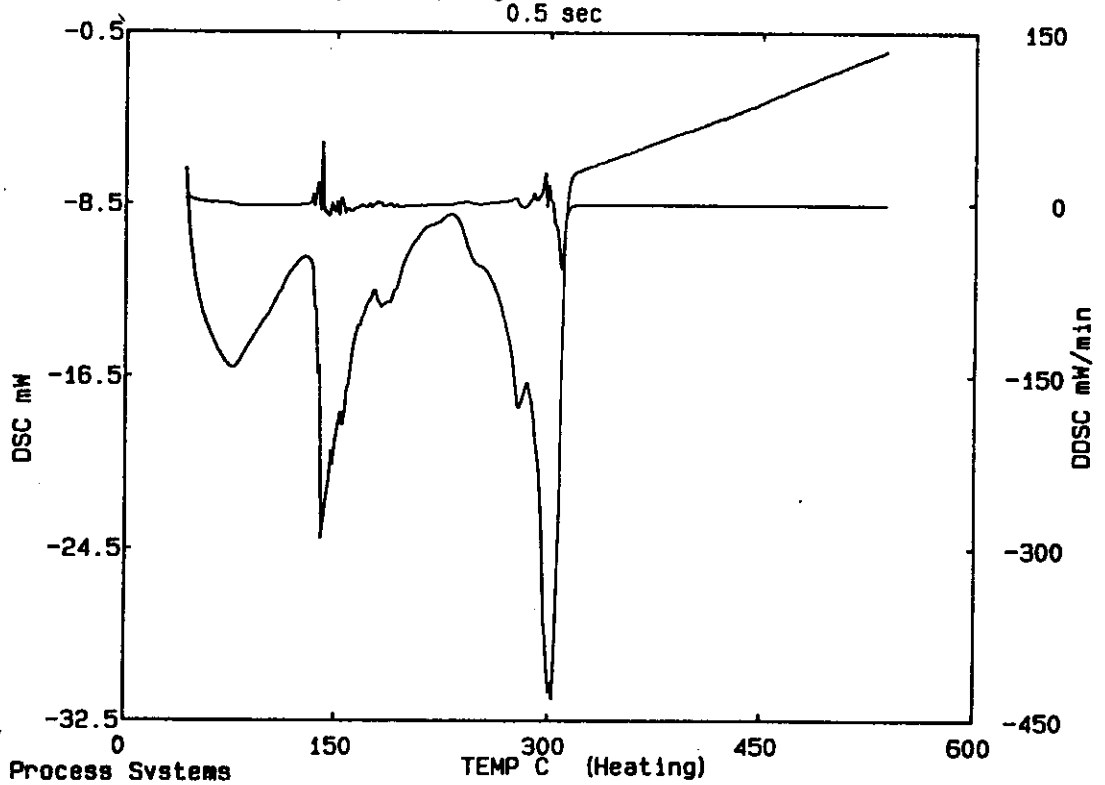
<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min



Chemical Process Systems

DSC

<Name>	<Sample>	<Comment>	<Temp.program[C]	[C/min]	[min]>
21sept95g	21sept95g	7315-2	1* 20.0- 550.0	10.00	0.00
<Date>	35.068 mg	---	<Gas>		
95/09/21 16:55	(35.068 mg)	---	nitrogen	300.0	ml/min
	<Reference>	---	---	0.0	ml/min
	pt pan	---			
	0.000 mg	<Sampling>			
		0.5 sec			



Chemical Process Systems

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WHC-SD-WM-DP-165, REV. 1

DSC

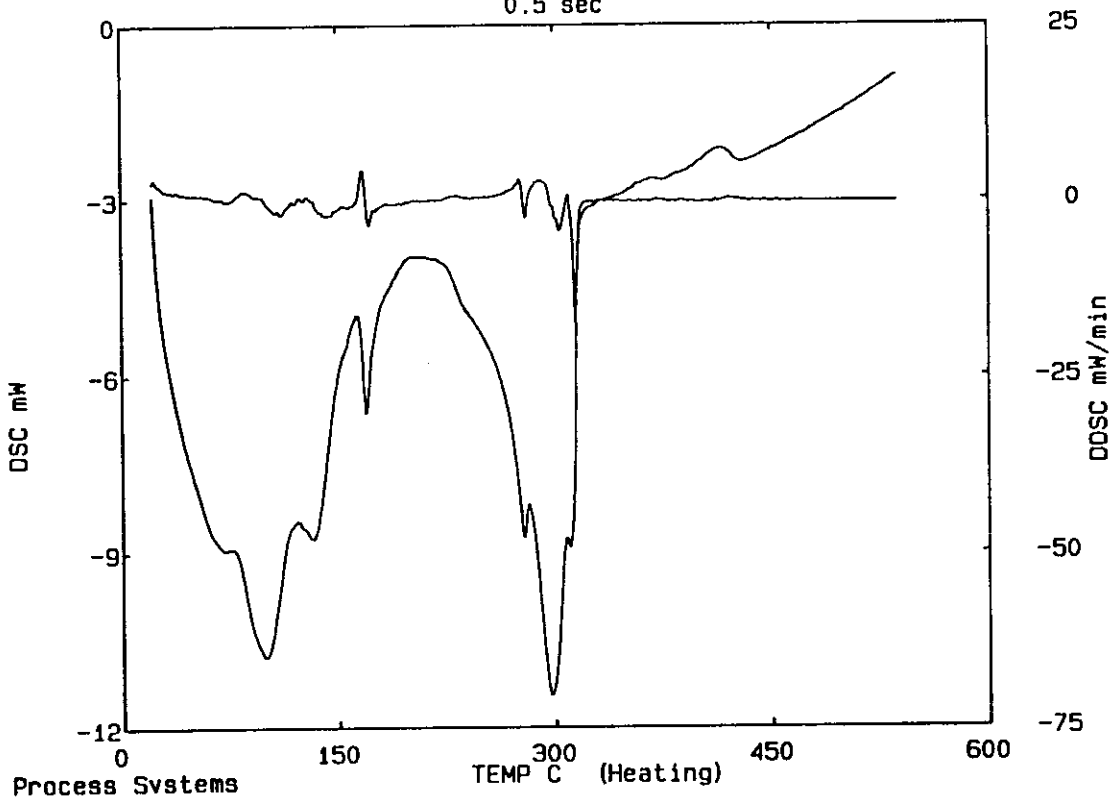
<Name>
21sept95a
<Date>
95/09/21 09:00

<Sample>
21sept95a
16.036 mg
(16.036 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7314

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
---------- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

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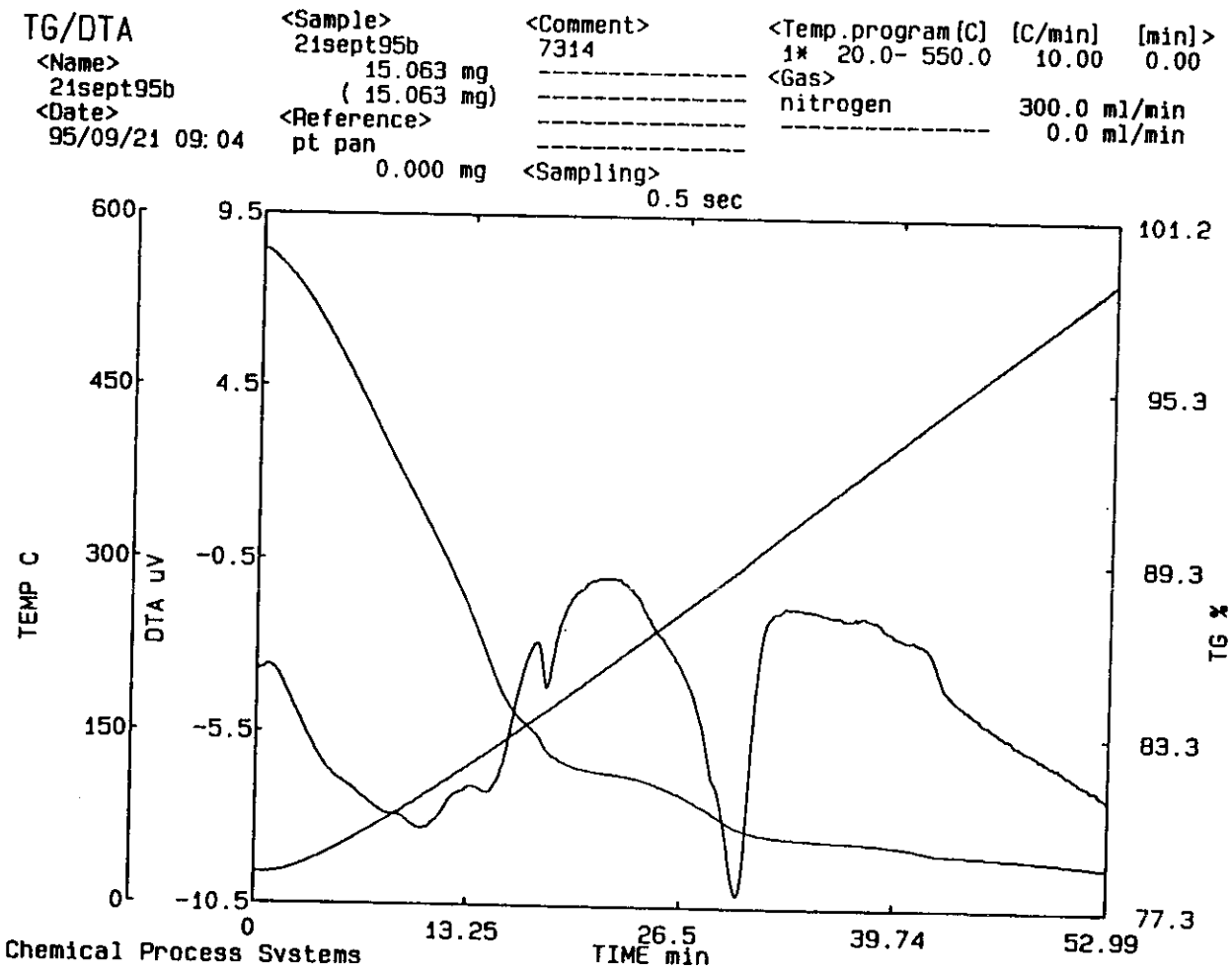
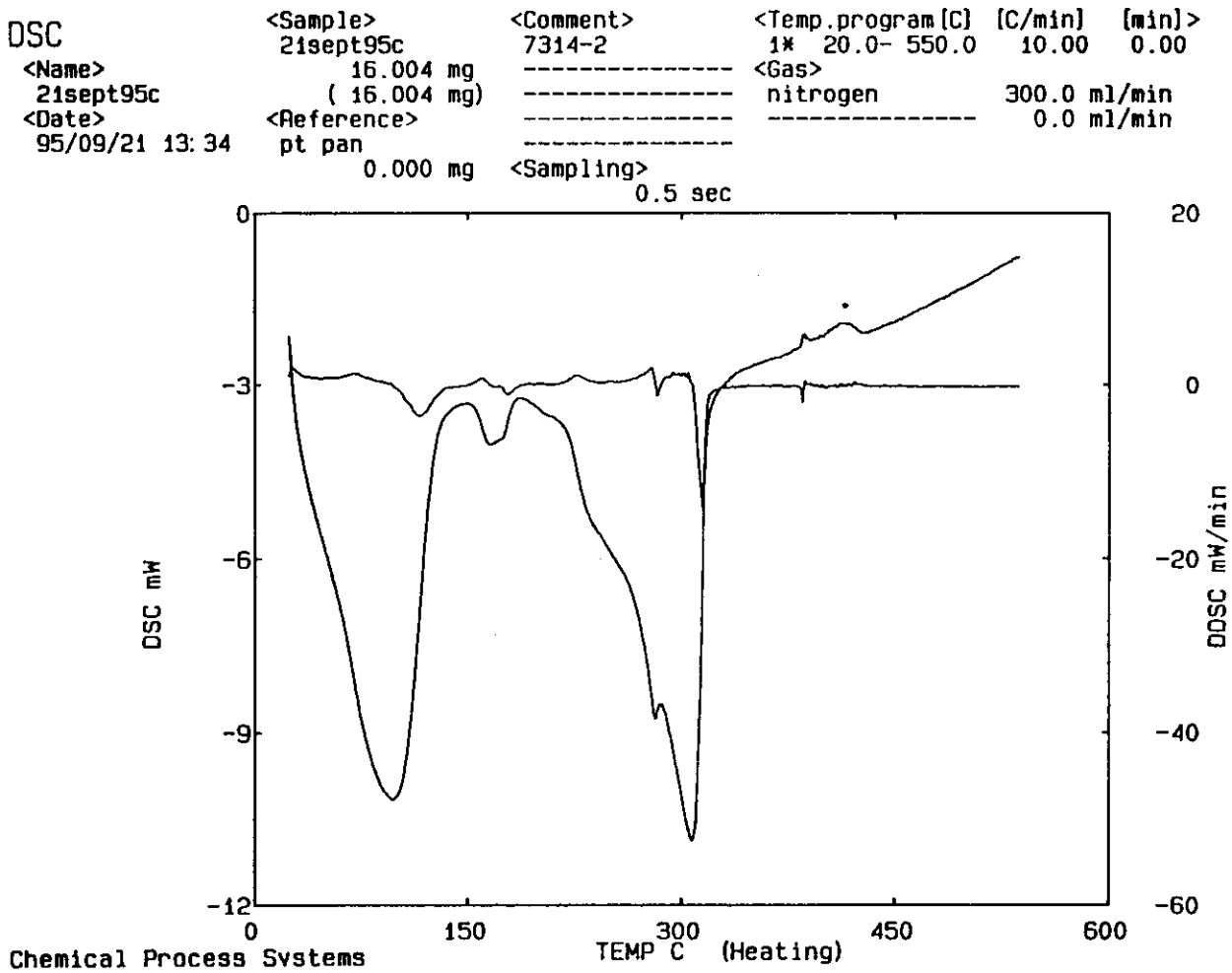
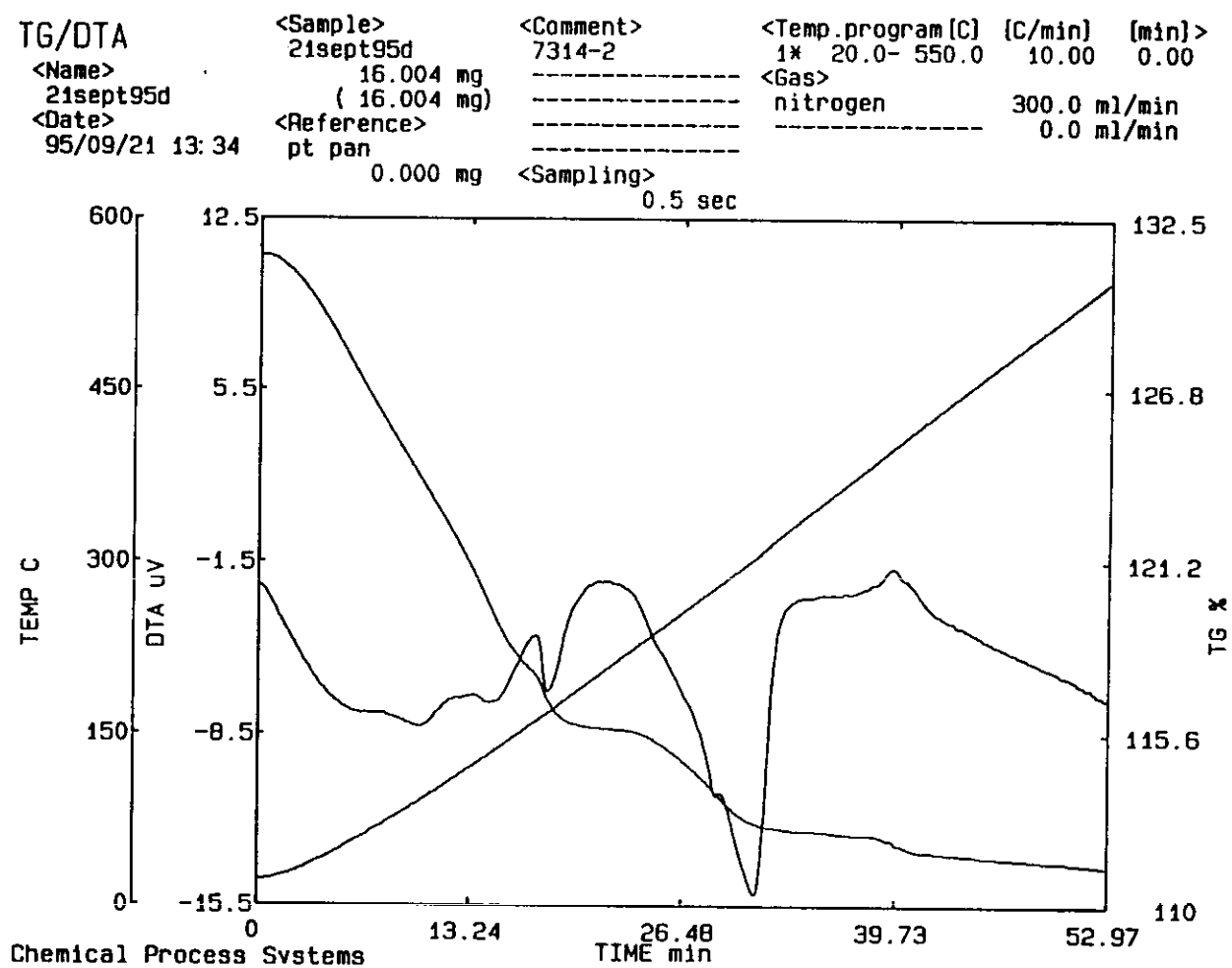


WHC-SD-WM-DP-145, REV. 1


DSC
<Name>
21sept95c
<Date>
95/09/21 13:34
<Sample>
21sept95c
16.004 mg
(16.004 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7314-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems



WHC-SD-WM-DP-145, REV. 1

DSC

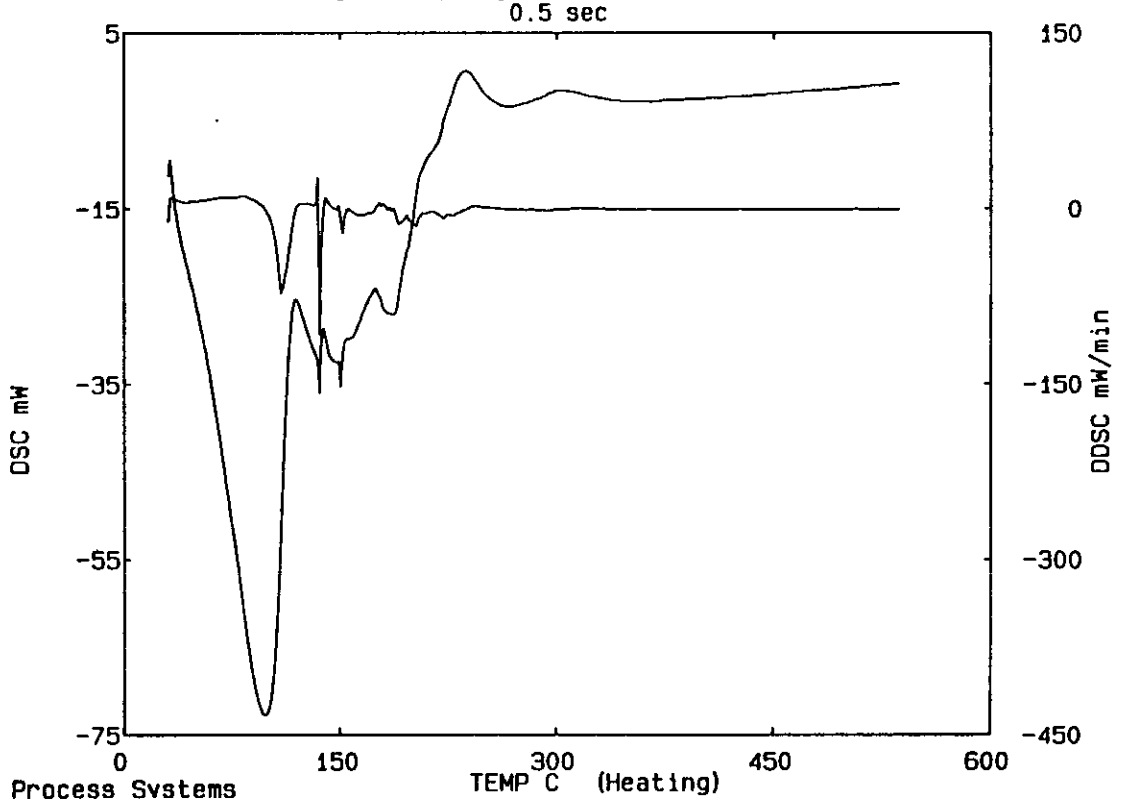
<Name>
19sept95g
<Date>
95/09/19 14:06

<Sample>
19sept95g
26.977 mg
(26.977 mg)
<Reference>
pt pan
0.000 mg

<Comment>
95-07935

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min



Chemical Process Systems

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HUC-SD-WM-DP-145, REV. 1

TG/DTA

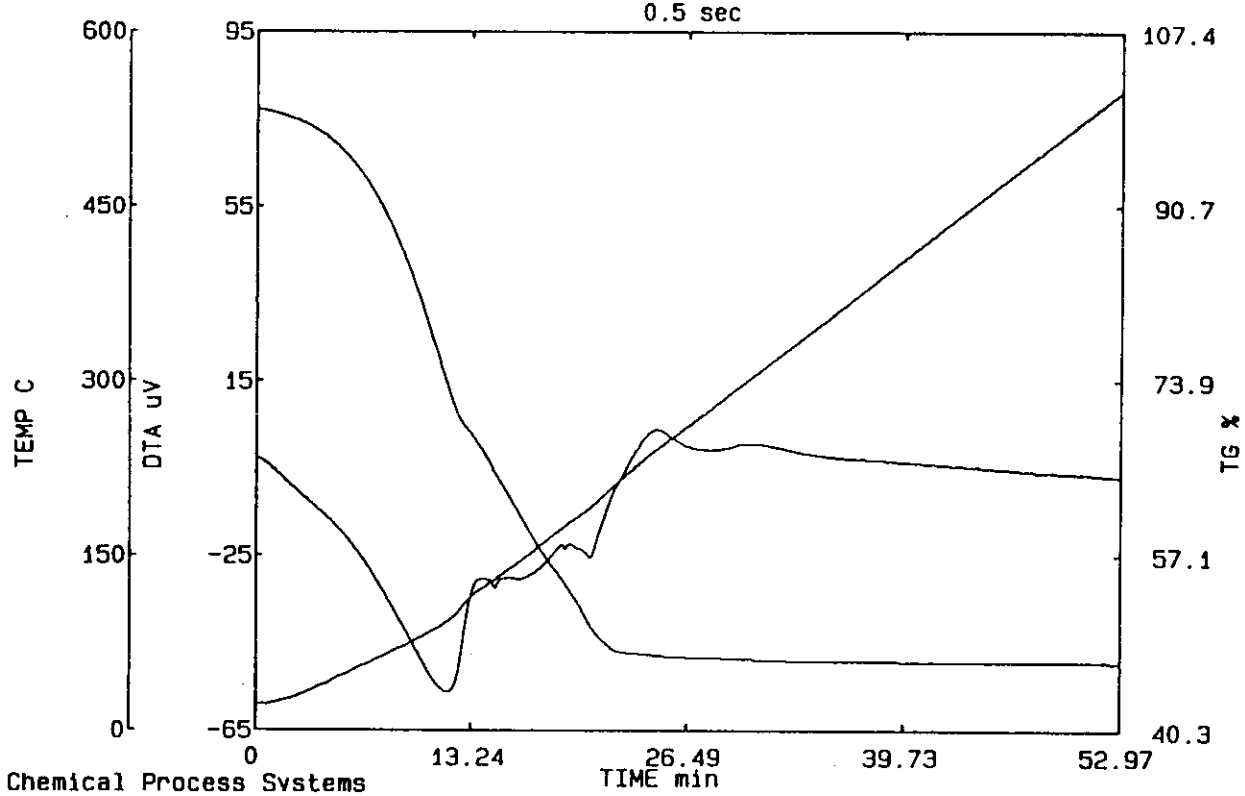
<Name>
19sept95h
<Date>
95/09/19 14:09

<Sample>
19sept95h
29.784 mg
(29.784 mg)
<Reference>
pt pan
0.000 mg

<Comment>
95-07935

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

DSC

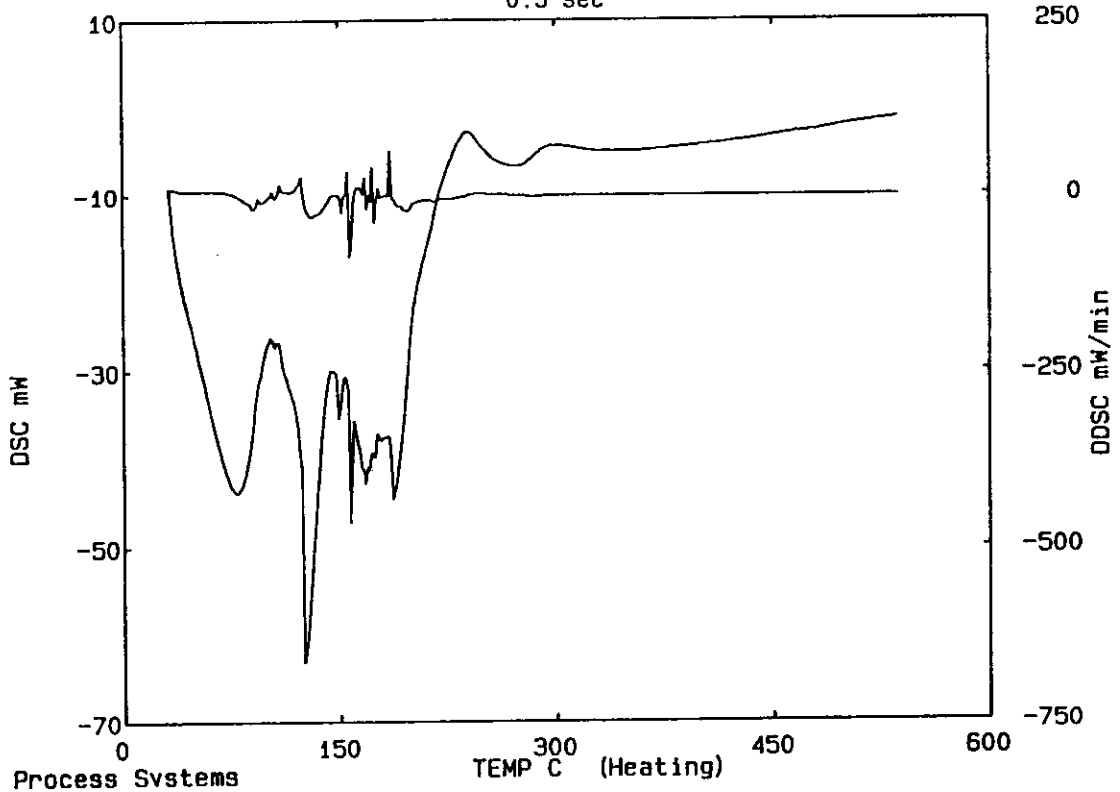
<Name>
19sept95i
<Date>
95/09/19 16:58

<Sample>
19sept95i
24.205 mg
(24.205 mg)
<Reference>
pt pan
0.000 mg

<Comment>
95-07935-2

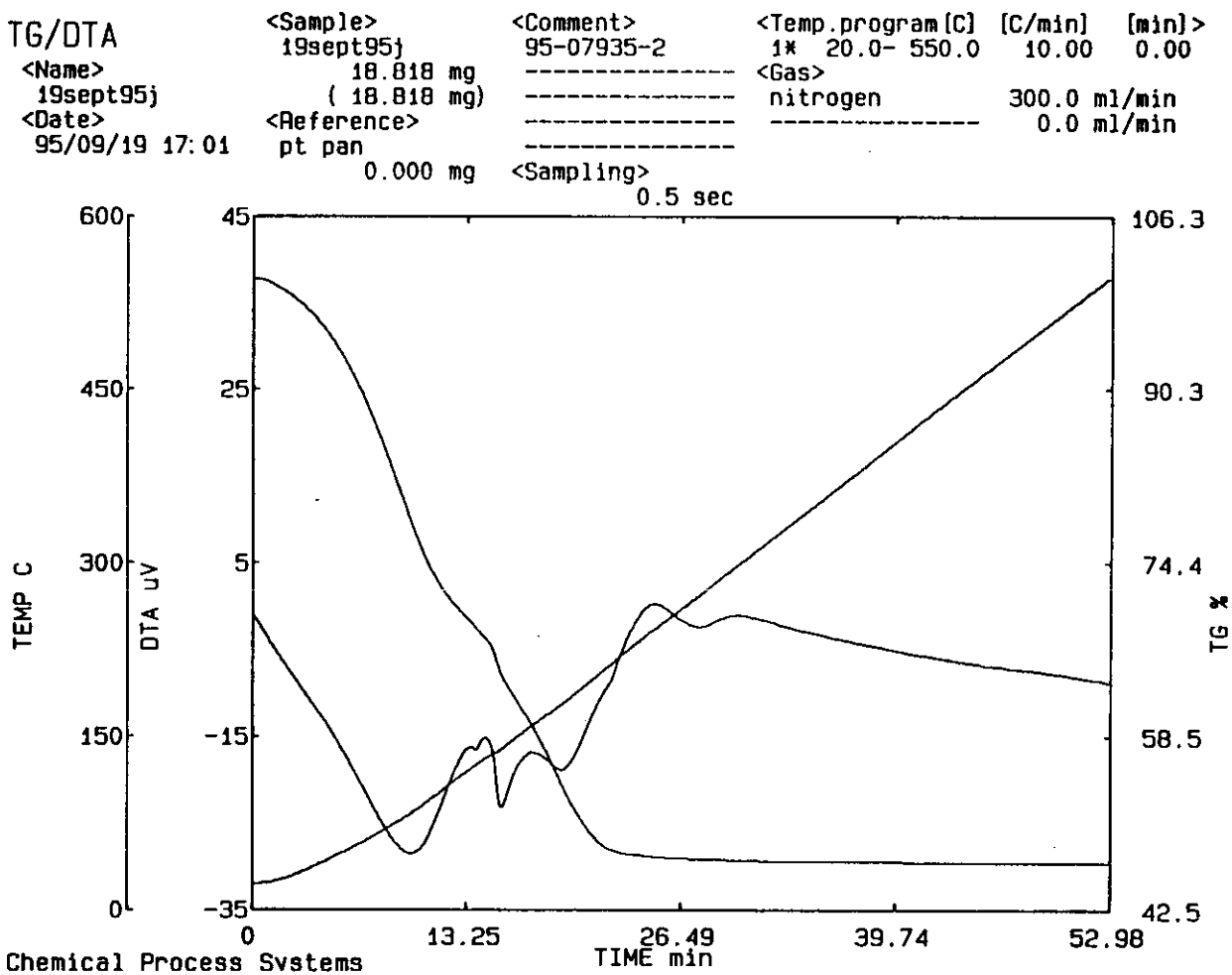
<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min

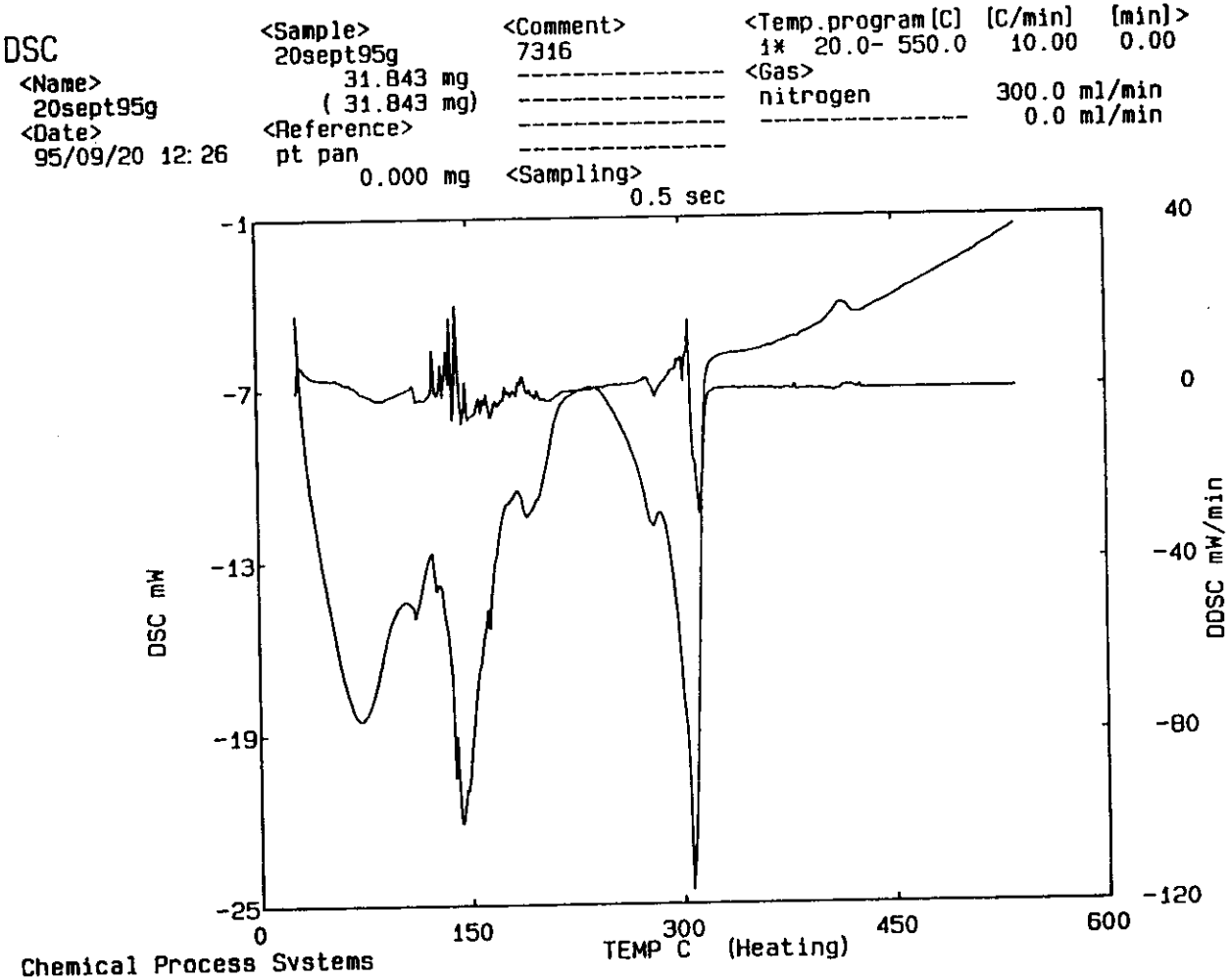


Chemical Process Systems

WSRC-3D-WM-DP-[illegible], REV 7


TG/DTA
<Name>
19sept95j
<Date>
95/09/19 17:01
<Sample>
19sept95j
18.818 mg
(18.818 mg)
<Reference>
pt pan
0.000 mg
<Comment>
95-07935-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
45
25
5
-15
-35
DTA uV
106.3
90.3
74.4
58.5
42.5
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

WHC-SD-WM-DP-



WHC-SD-WM-DP-145, REV. 1

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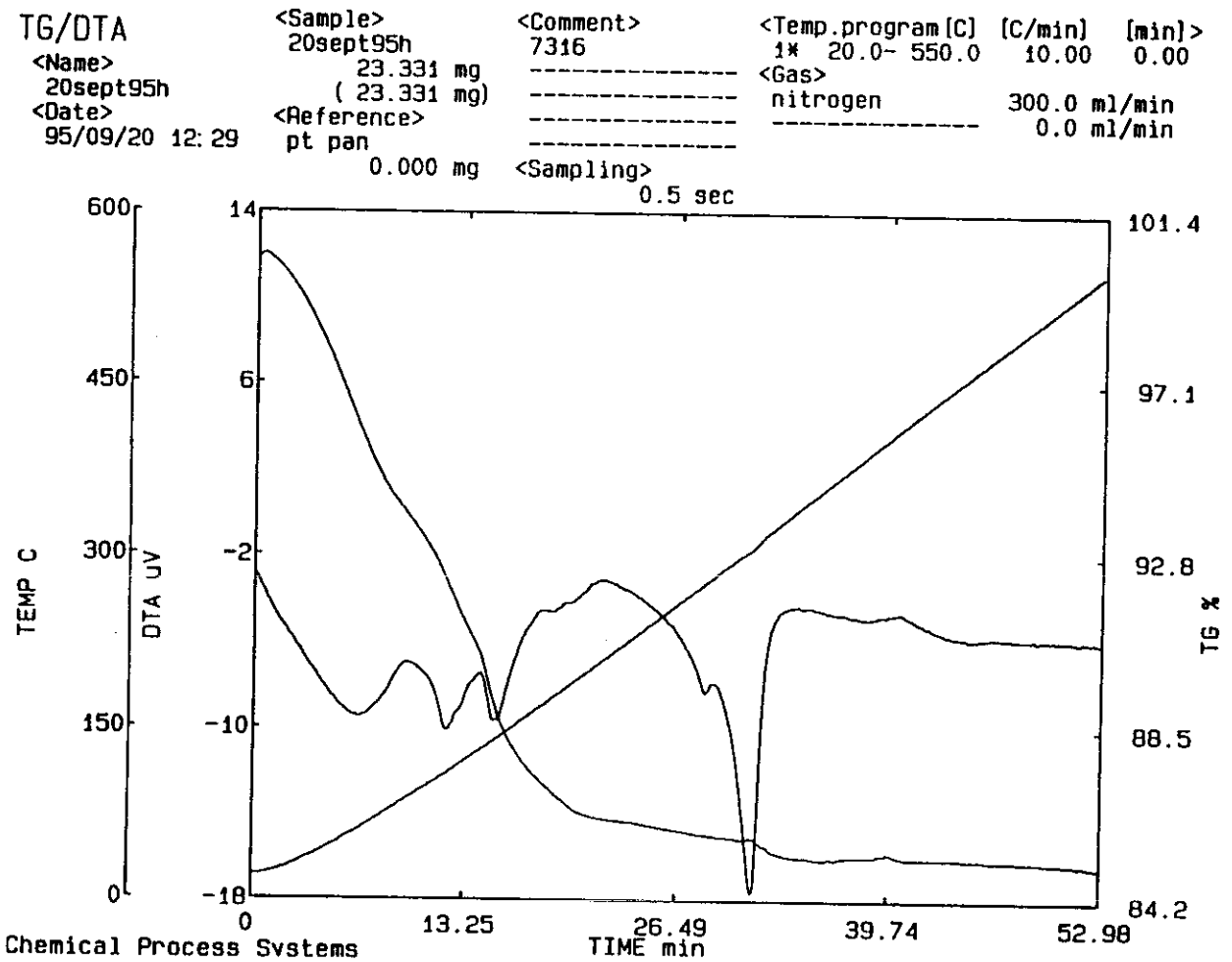
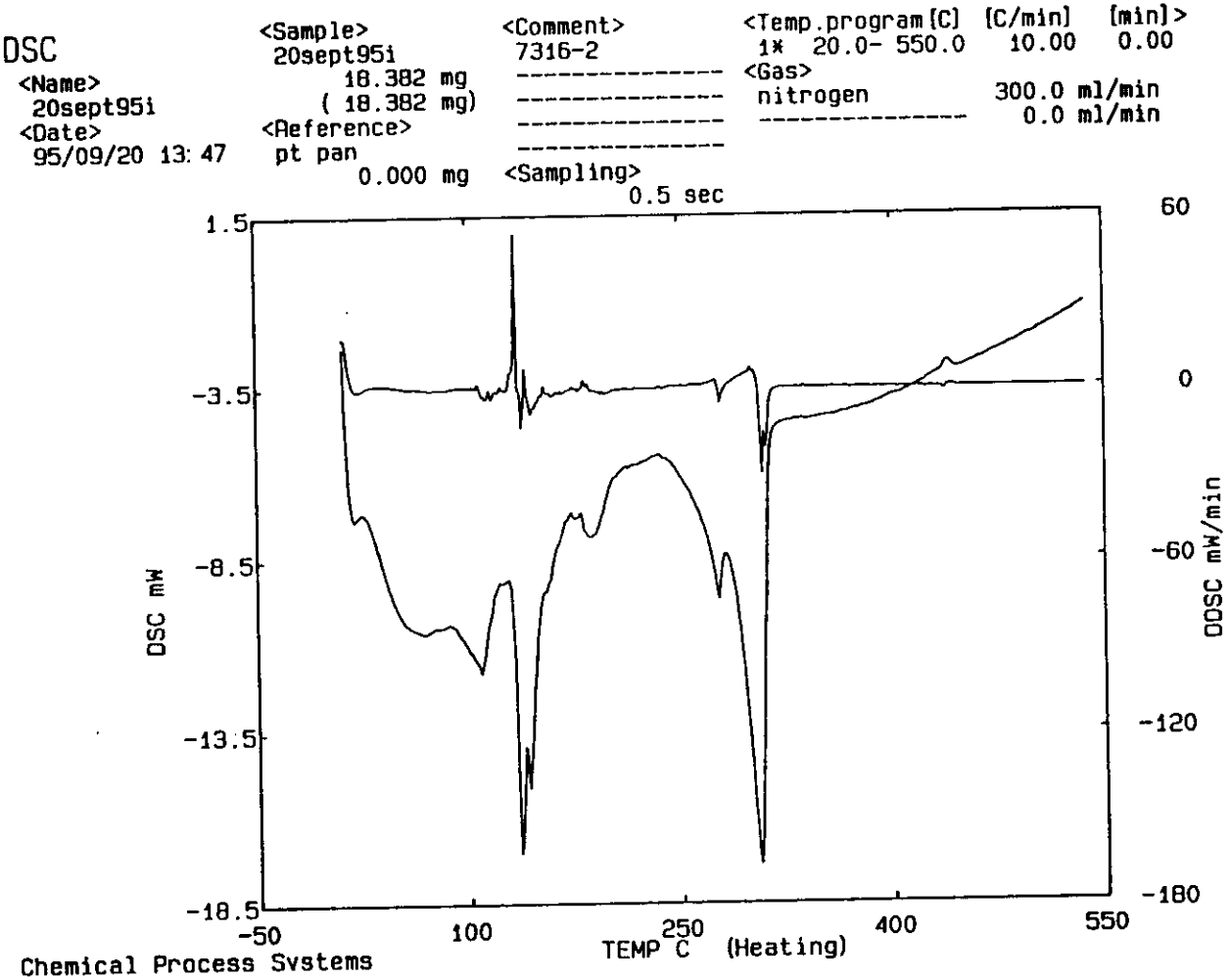
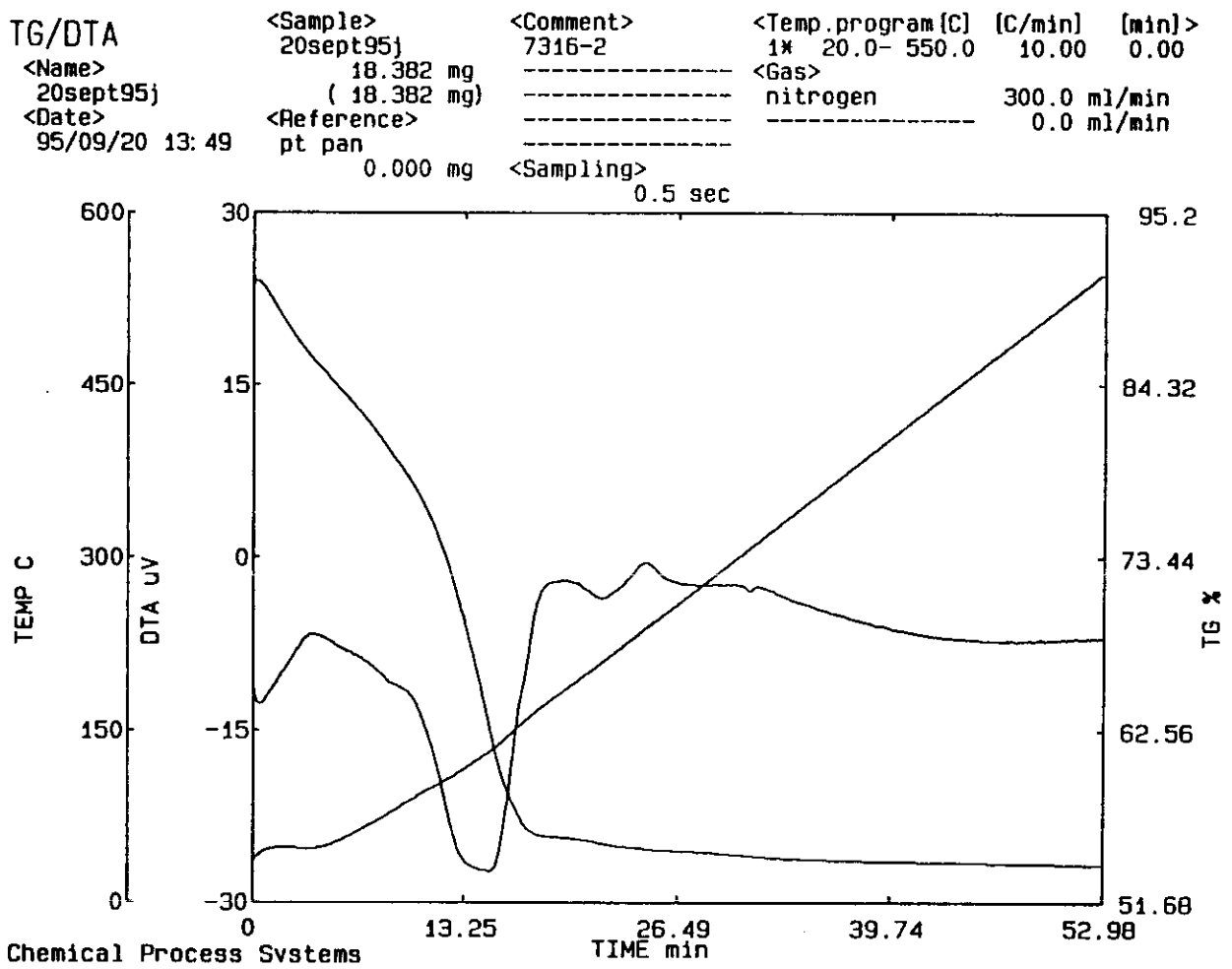


WHC-SD-WM-DP-165, REV. 1



WHC-SD-WM-DP-145, REV. 1



WHC-SD-WM-DP-145, REV. 1

DSC

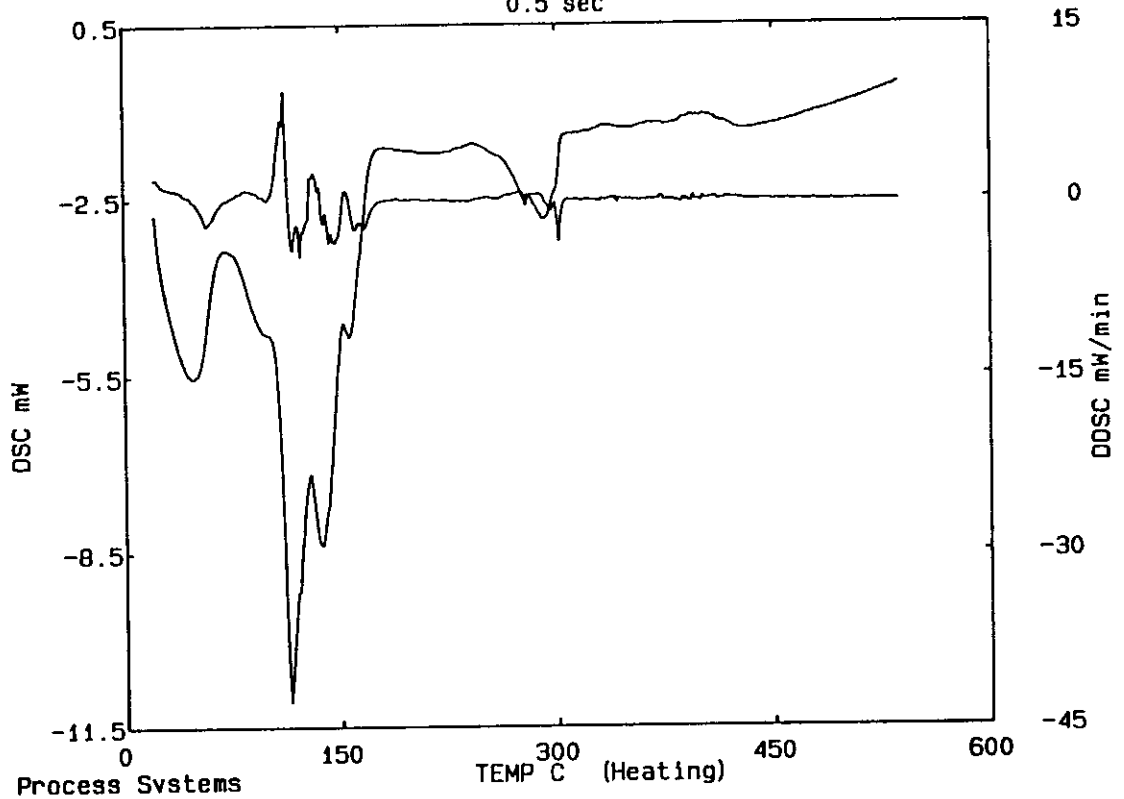
<Name>
15sept95a
<Date>
95/09/15 06:31

<Sample>
15sept95a
7.391 mg
(7.391 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7322

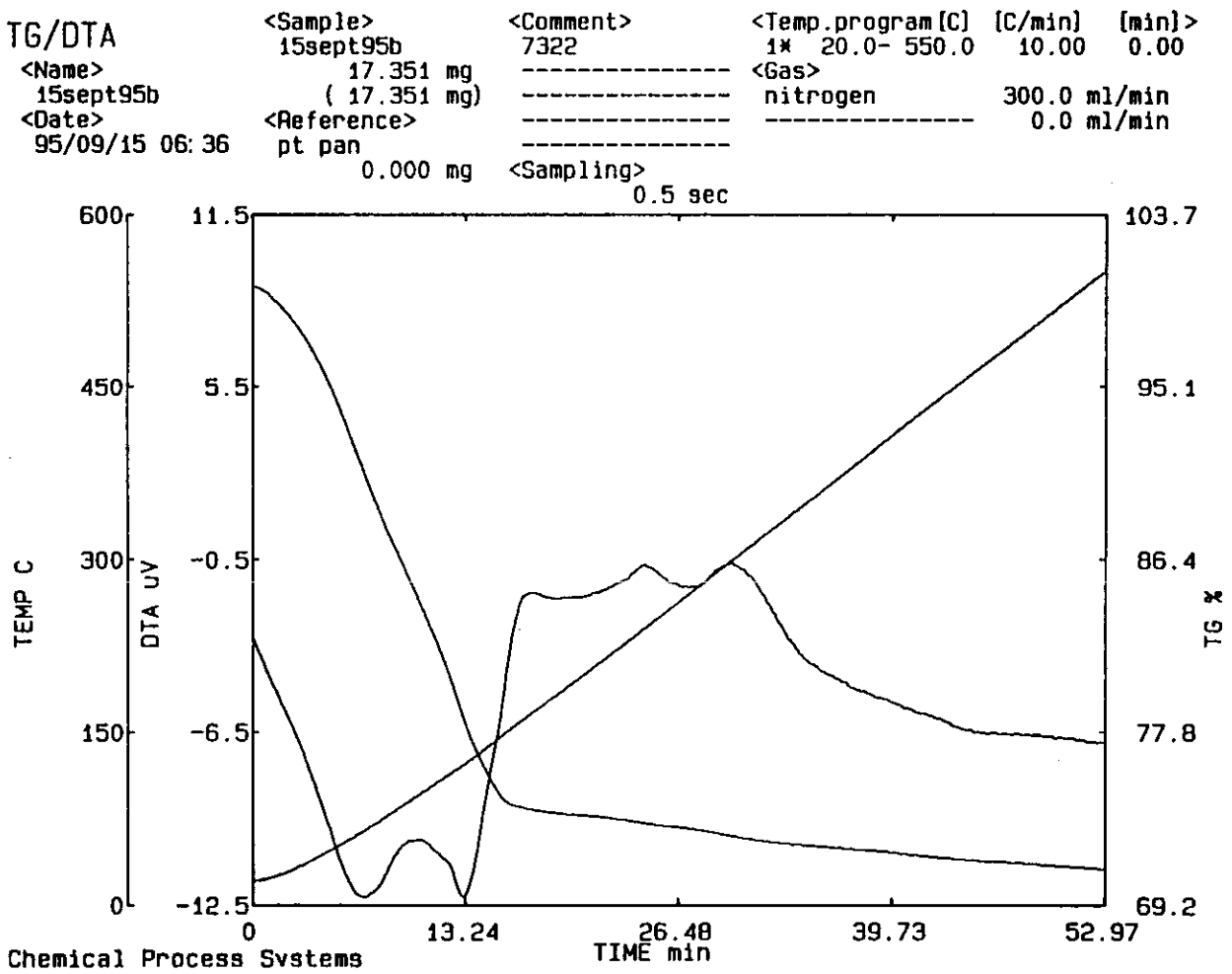
<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min

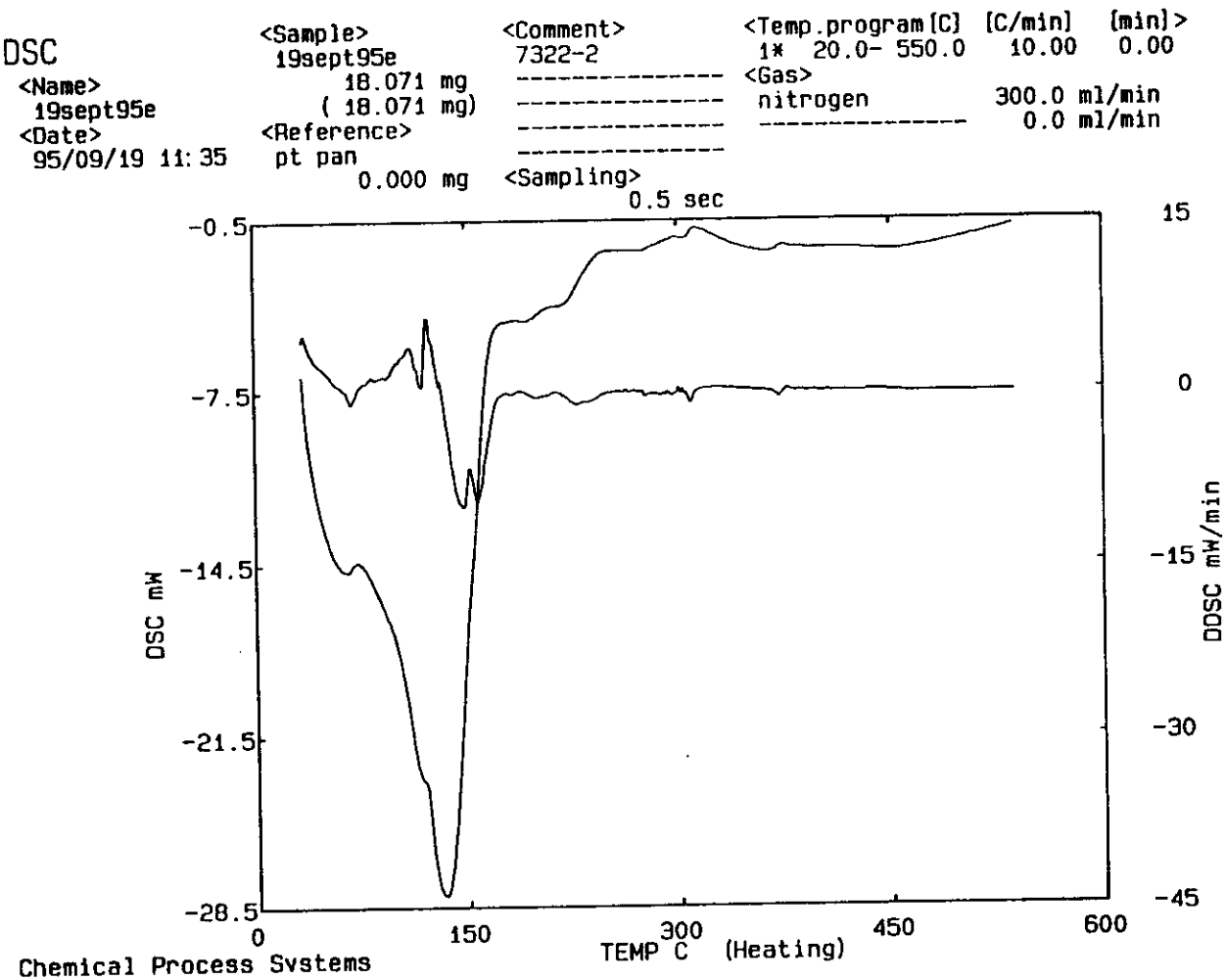


Chemical Process Systems

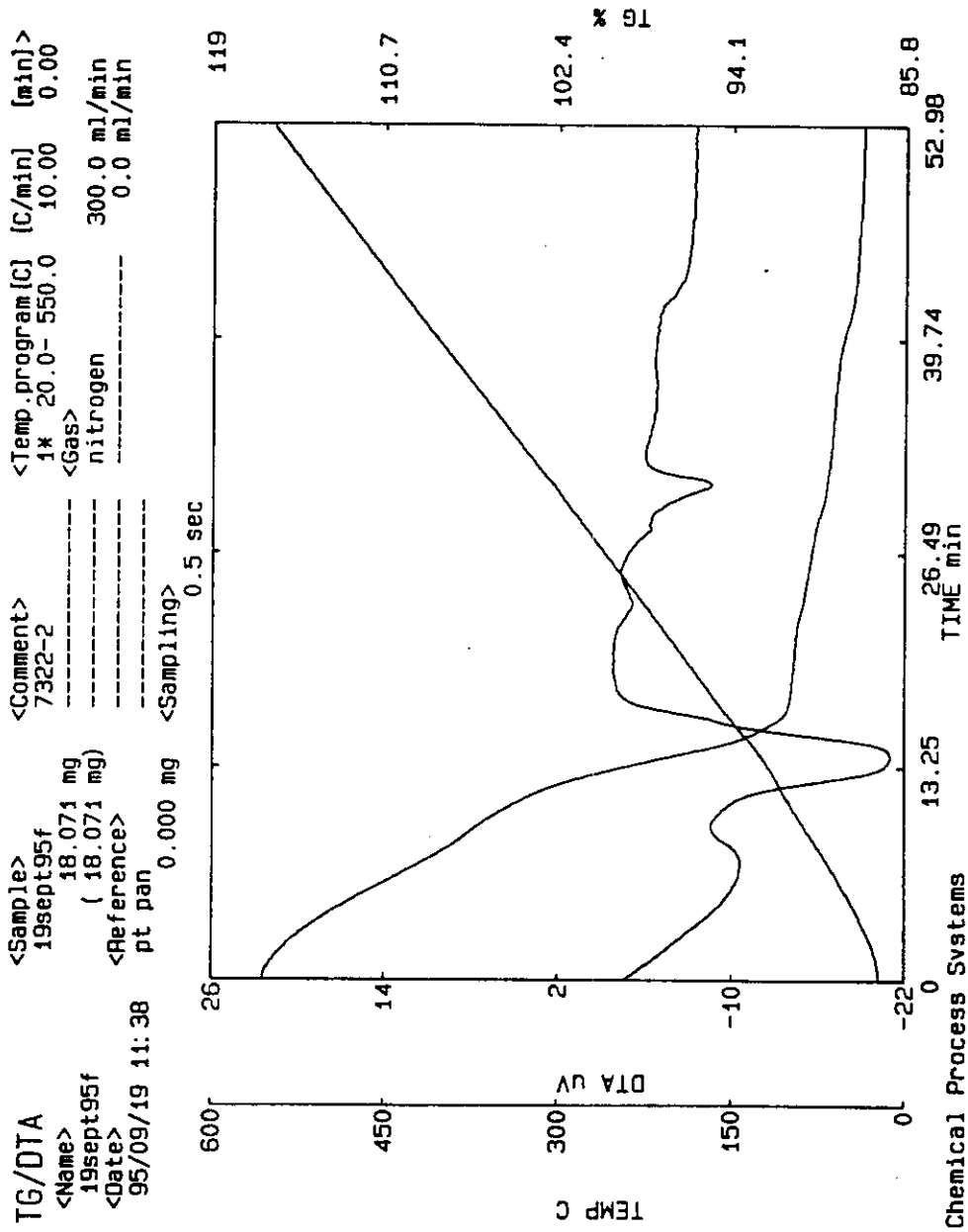
WHC-SD-WM-DP-[illegible] REV. 1



WHC-SD-WM-DP-145, REV. 1



WHC-SD-WM-DP-145, REV. 1


TG/DTA
<Name>
19sept95f
<Date>
95/09/19 11:38
<Sample>
19sept95f
18.071 mg
(18.071 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7322-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
TEMP C
600
450
300
150
0
DTA uV
26
14
2
-10
-22
TG %
119
110.7
102.4
94.1
85.8
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems

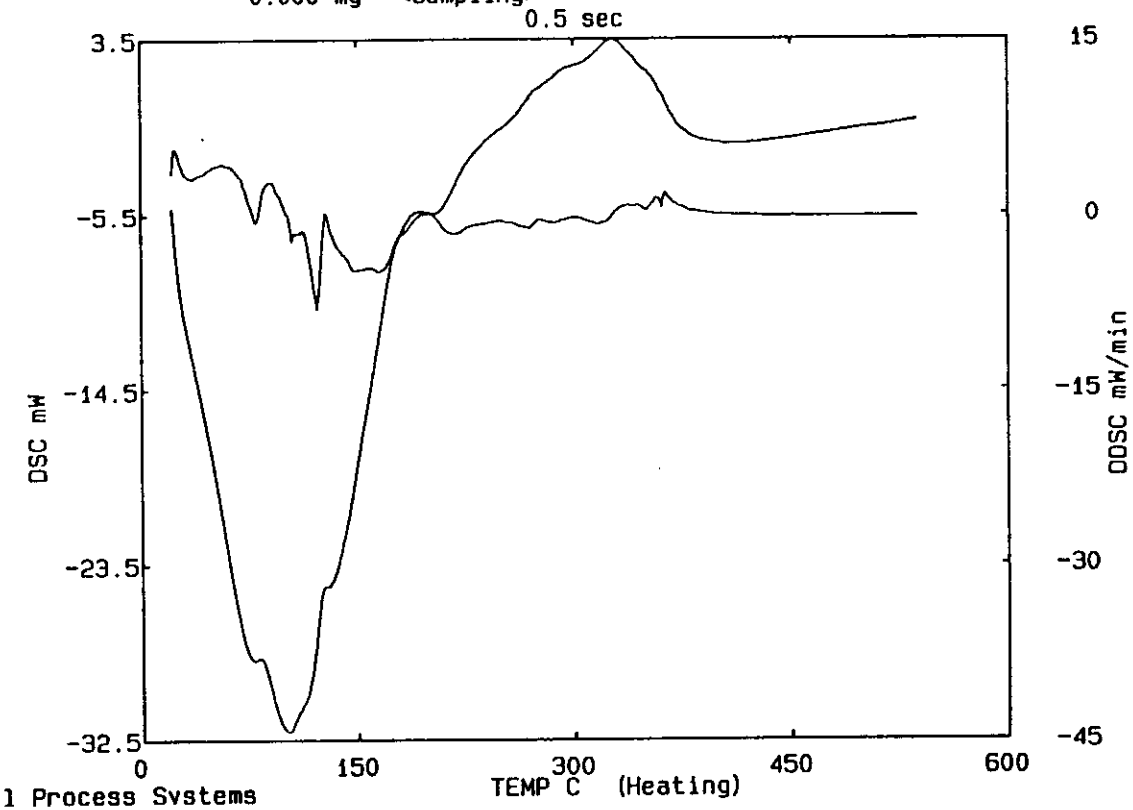
DSC

<Name>
19sept95a
<Date>
95/09/19 06:52

<Sample>
19sept95a
23.424 mg
(23.424 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7319
<Sampling>
0.5 sec

<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

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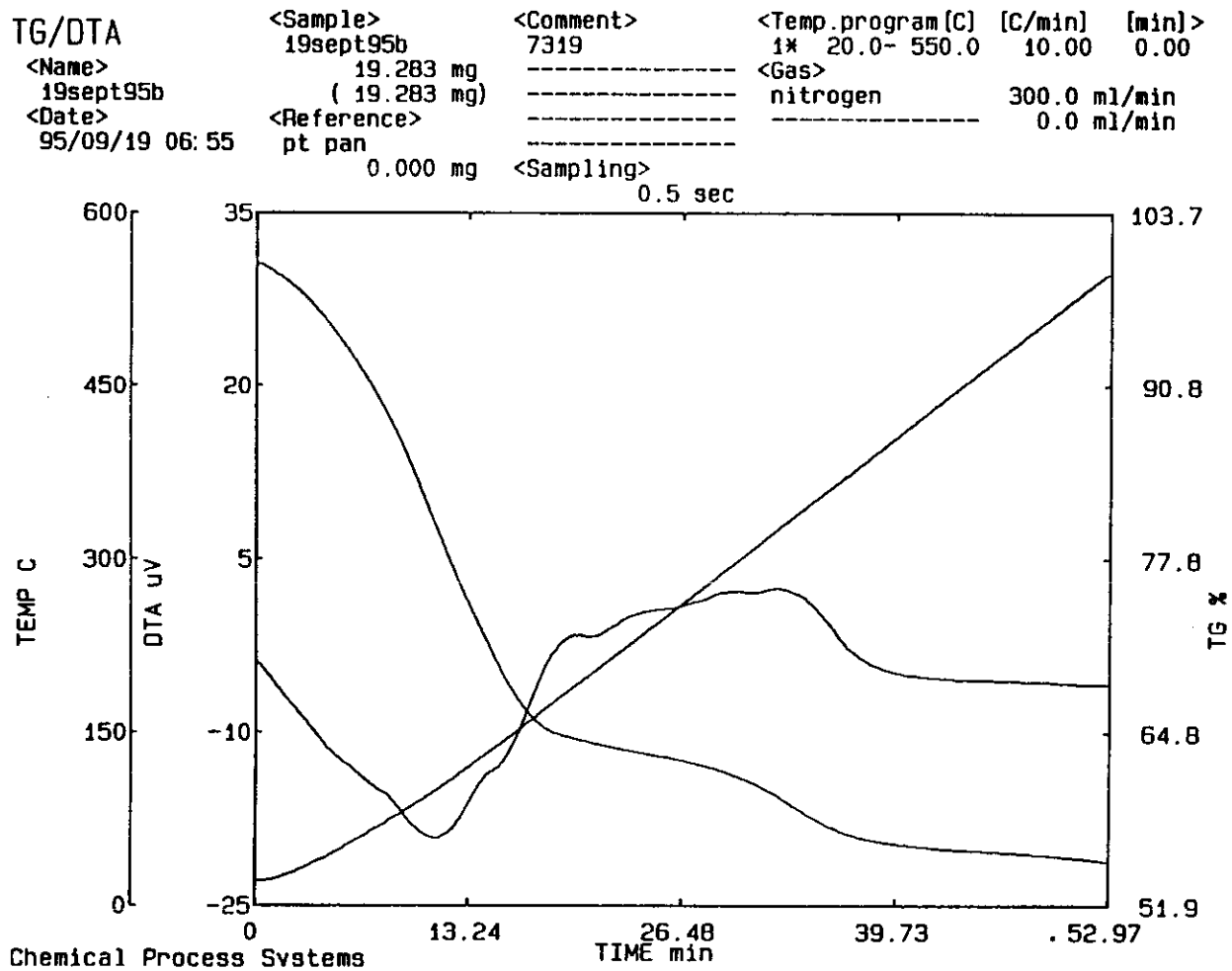


WHC-SD-WM-DP-174, REV 1

DSC

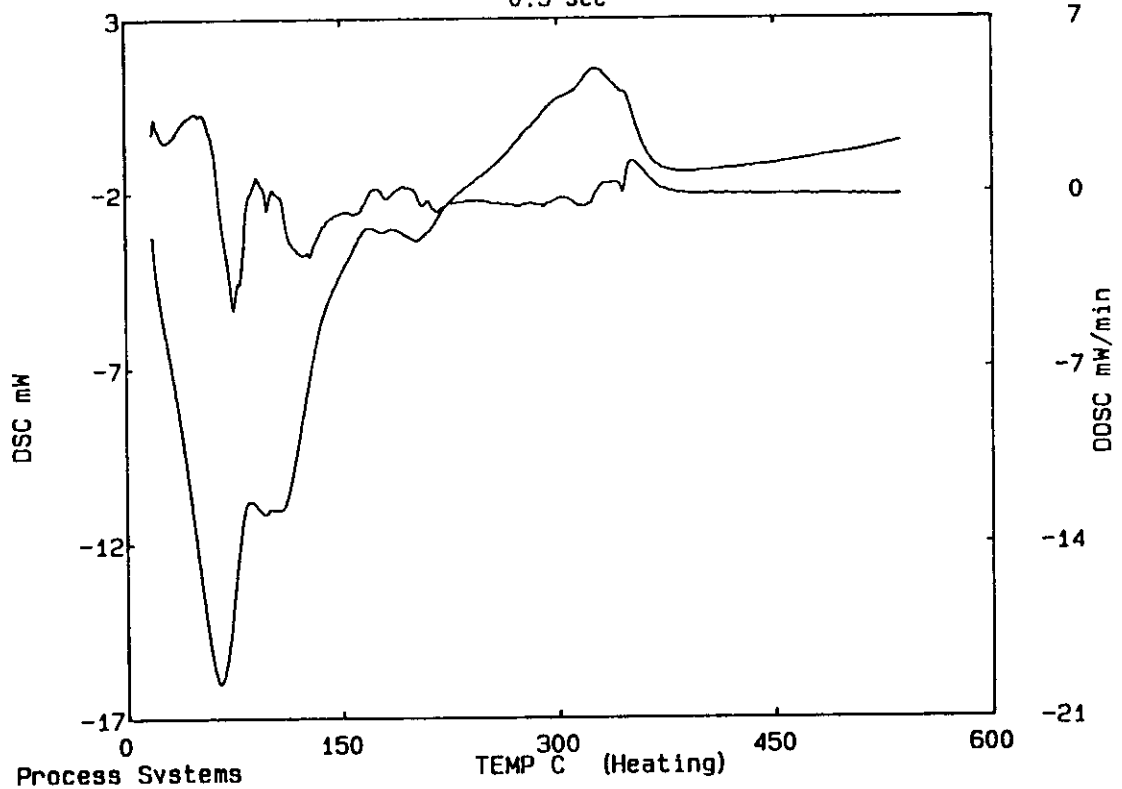
<Name>
19sept95c
<Date>
95/09/19 08:57

<Sample>
19sept95c
12.027 mg
(12.027 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7319-2

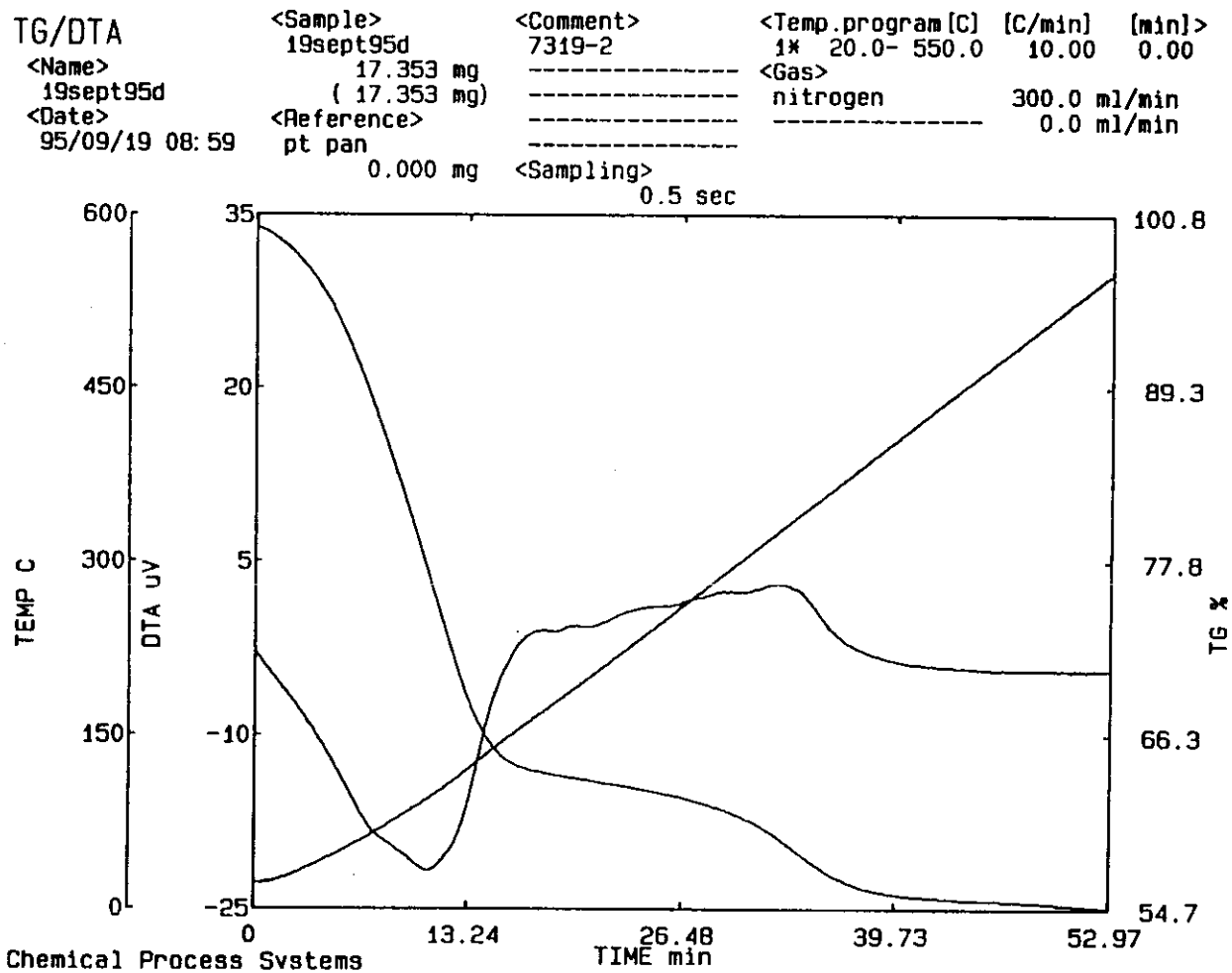
<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1



WHC-SD-WM-DP-145, REV. 1

DSC

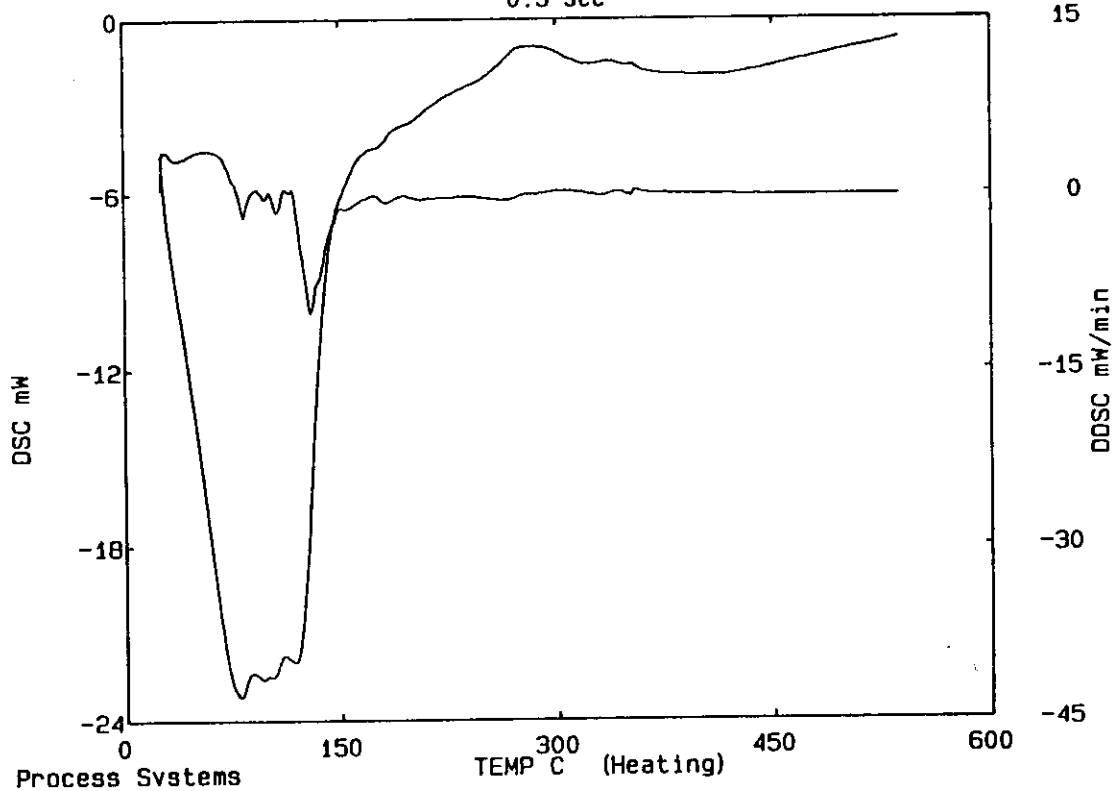
<Name>
18sept95e
<Date>
95/09/18 17:33

<Sample>
18sept95e
15.000 mg
(15.000 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7318

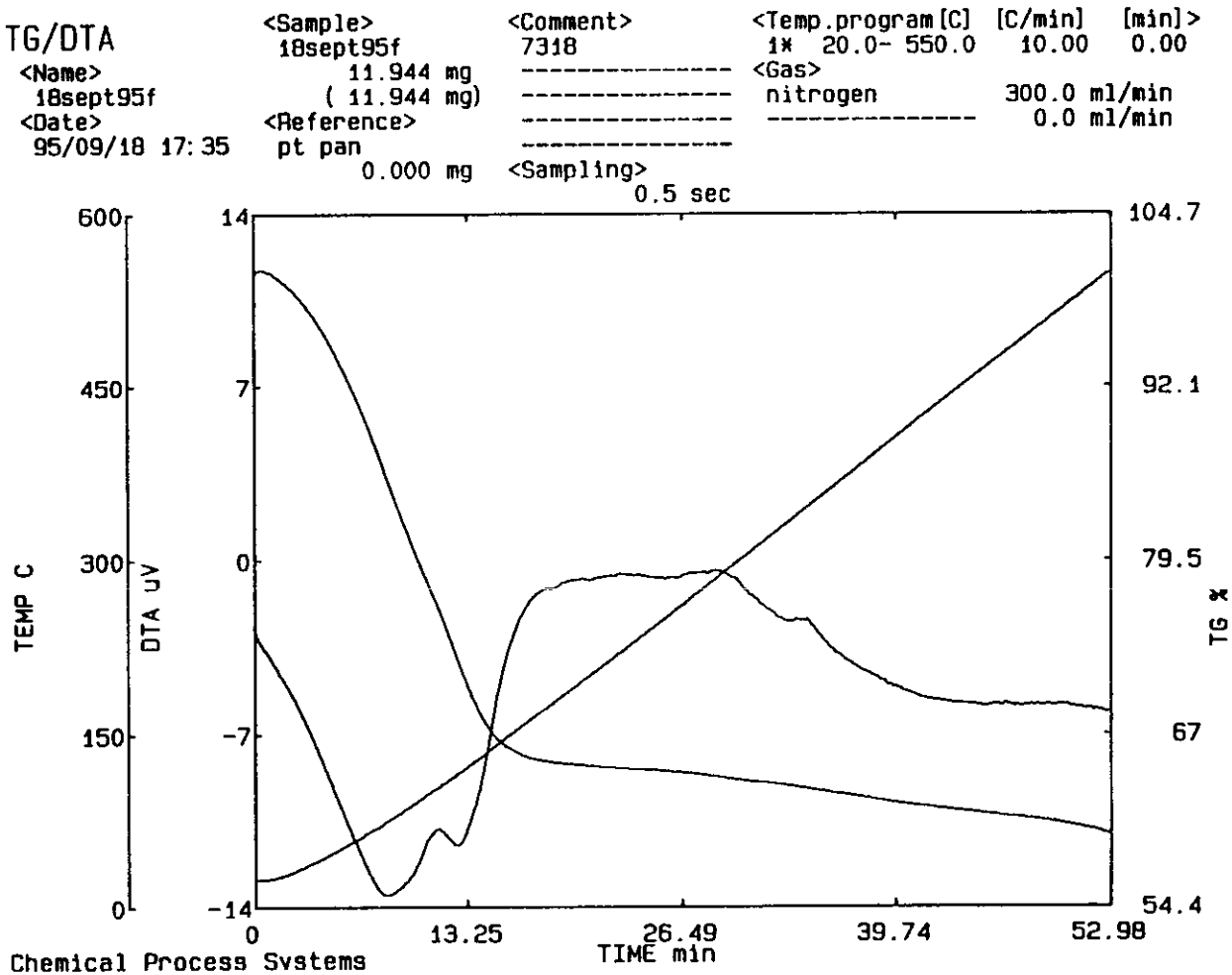
<Sampling>
0.5 sec

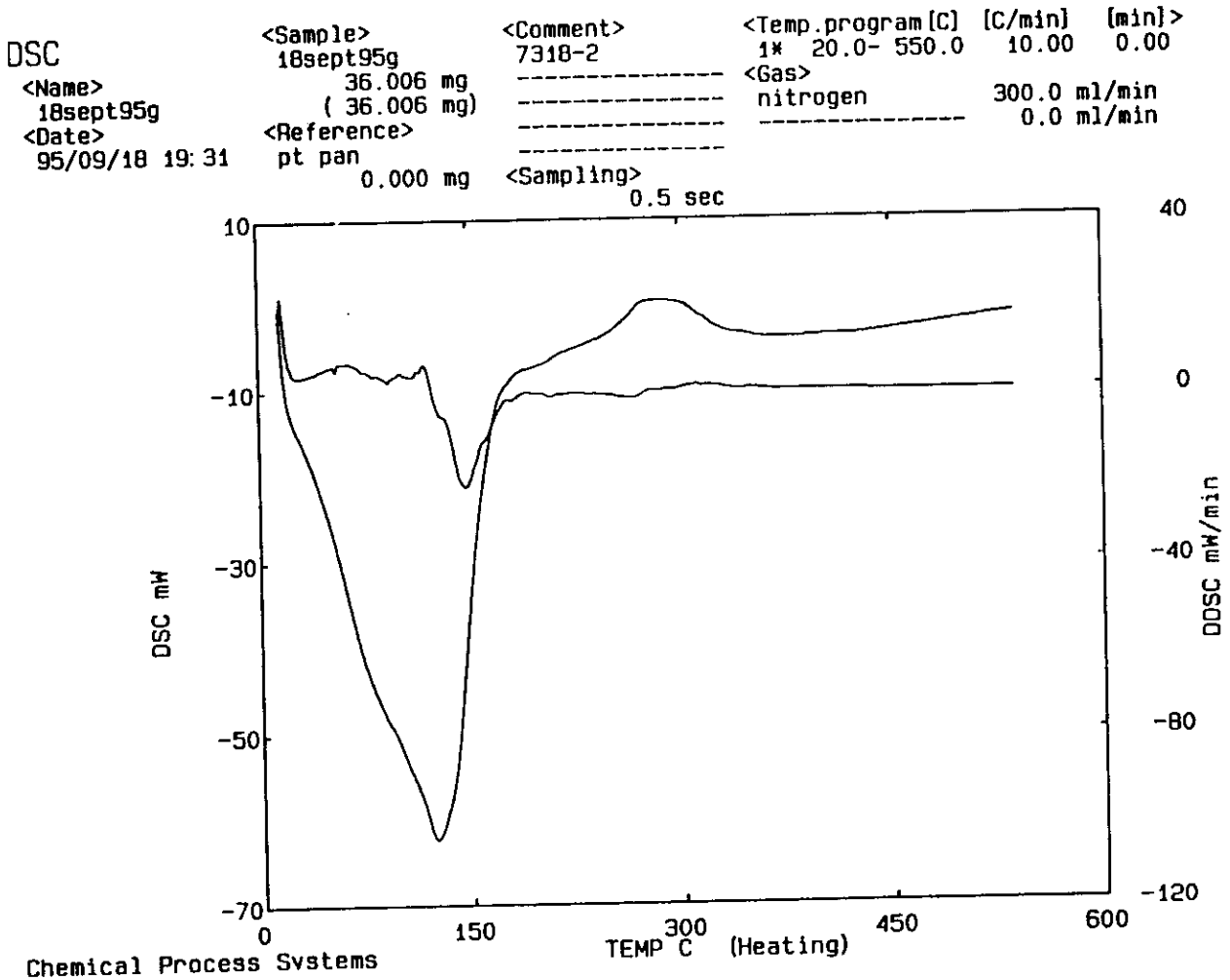
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min

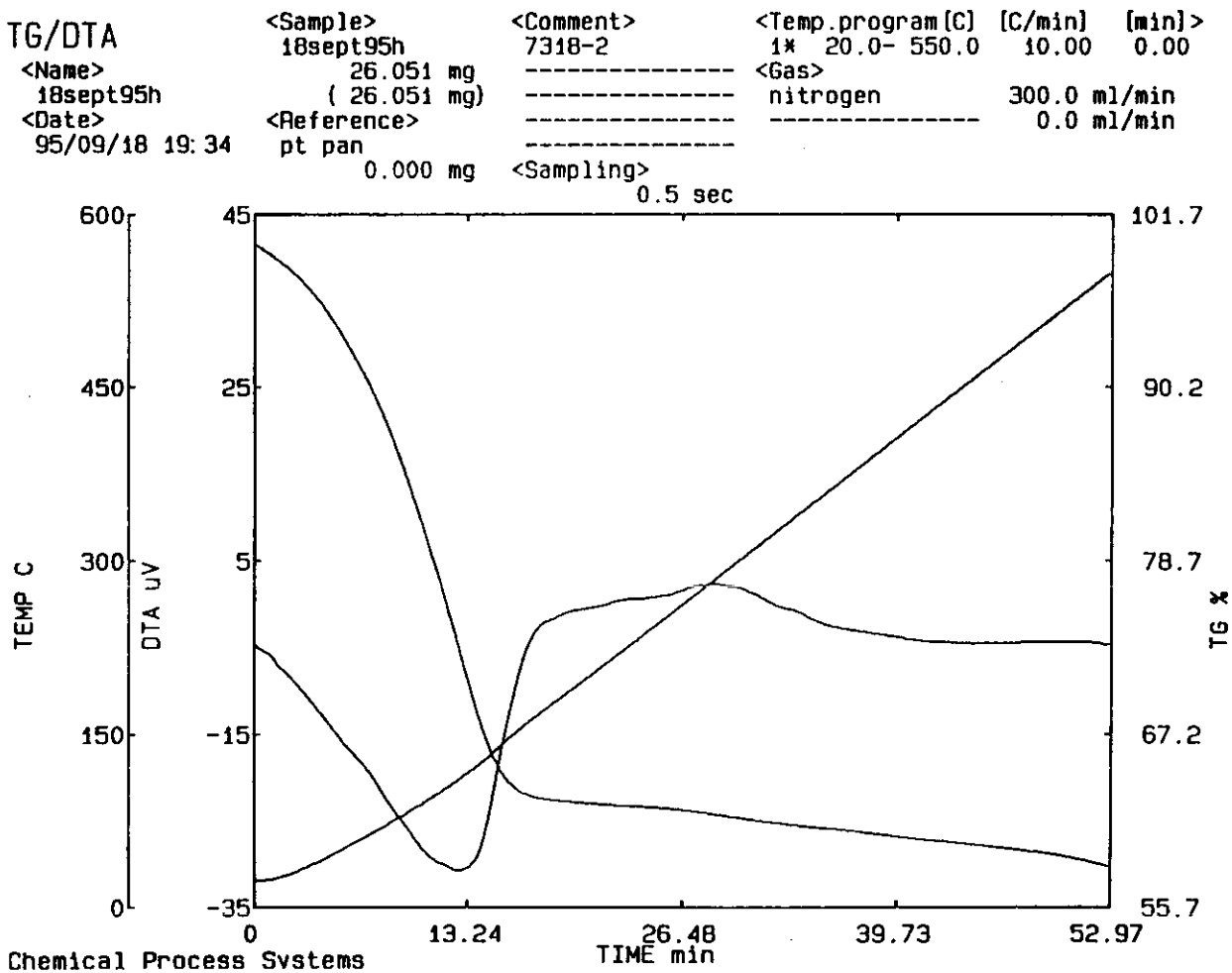


Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1


TG/DTA
<Name>
18sept95f
<Date>
95/09/18 17:35
<Sample>
18sept95f
11.944 mg
(11.944 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7318
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
600
450
300
150
0
TEMP C
14
7
0
-7
-14
DTA uV
104.7
92.1
79.5
67
54.4
TG %
0
13.25
26.49
39.74
52.98
TIME min
Chemical Process Systems


DSC
<Name>
18sept95g
<Date>
95/09/18 19:31
<Sample>
18sept95g
36.006 mg
(36.006 mg)
<Reference>
pt pan
0.000 mg
<Comment>
7318-2
<Sampling>
0.5 sec
<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min
DSC mW
DDSC mW/min
TEMP C (Heating)
Chemical Process Systems



WHC-SD-WM-DP-145, REV. 1

DSC

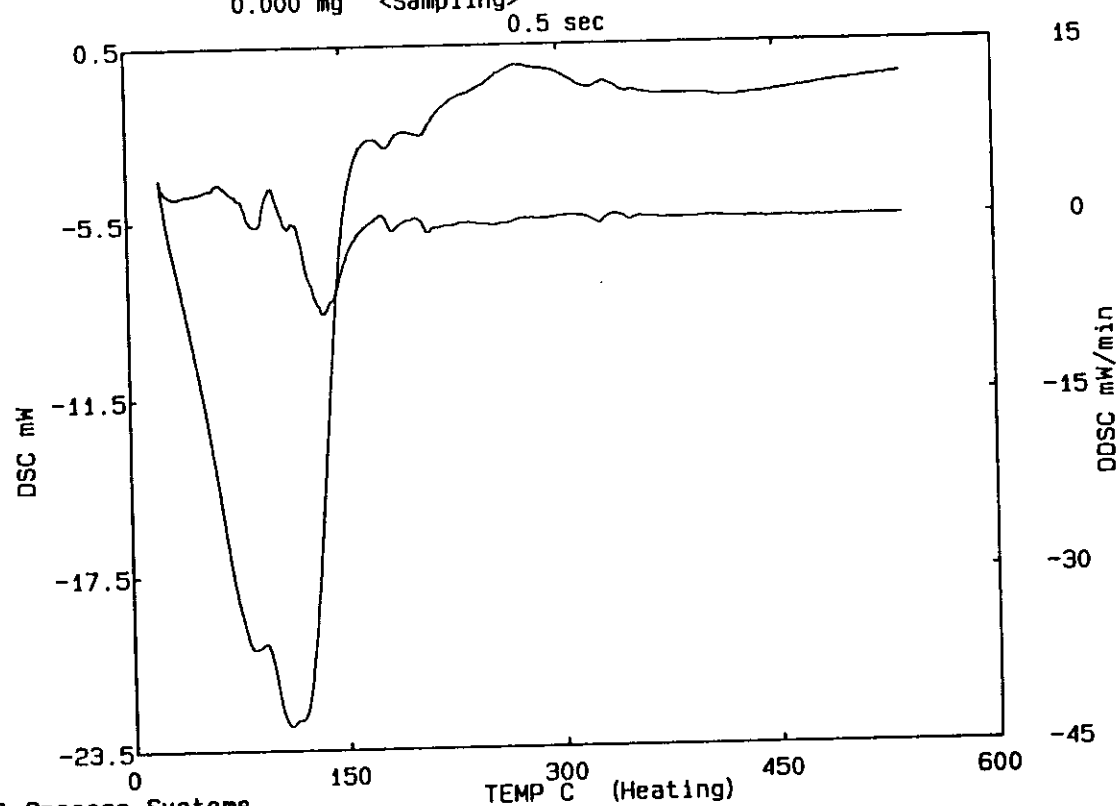
<Name>
18sept95a
<Date>
95/09/18 09:46

<Sample>
18sept95a
13.397 mg
(13.397 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7317

<Sampling>
0.5 sec

<Temp.program [C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV. 1

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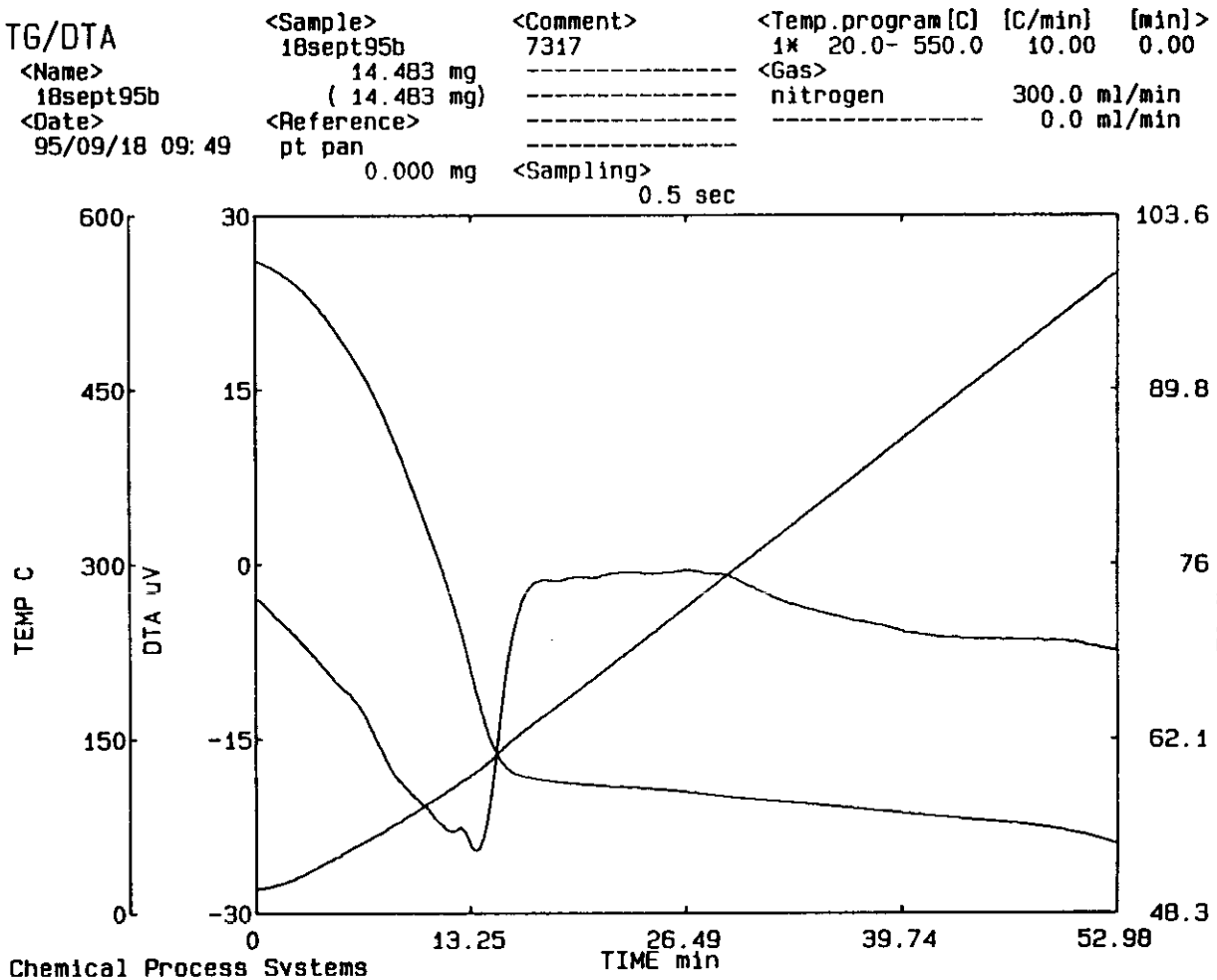


WHC-SD-WM-DP-145, REV. 1

DSC

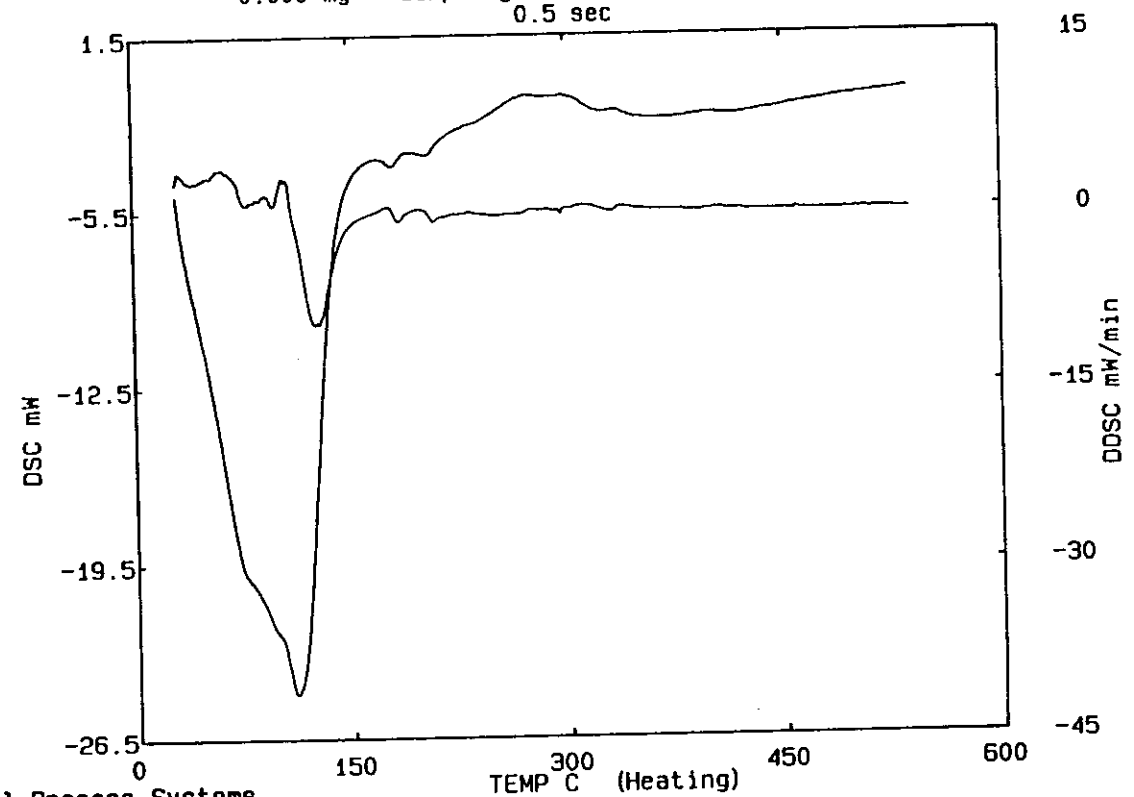
<Name>
18sept95c
<Date>
95/09/18 13:16

<Sample>
18sept95c
13.697 mg
(13.697 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7317-2

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
--- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-[illegible] REV. 1

TG/DTA

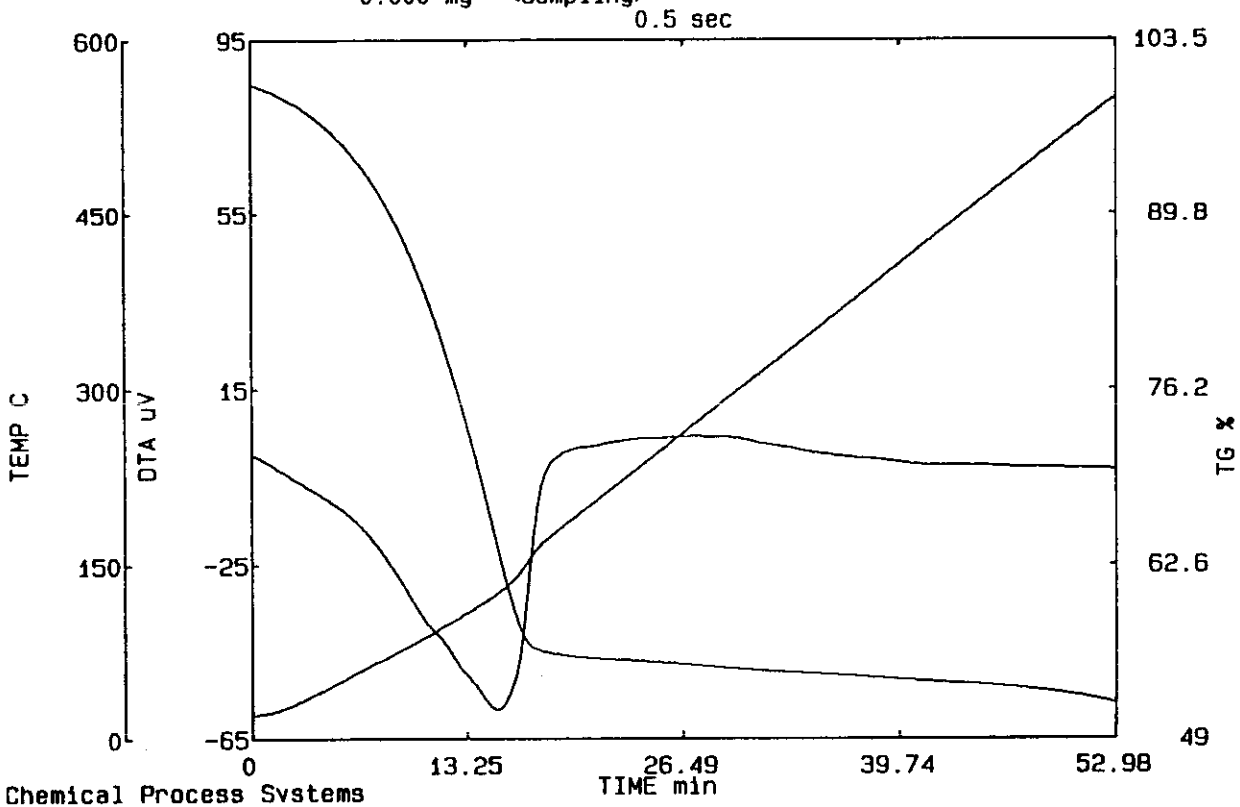
<Name>
18sept95d
<Date>
95/09/18 13:19

<Sample>
18sept95d
36.730 mg
(36.730 mg)
<Reference>
pt pan
0.000 mg

<Comment>
7317-2

<Sampling>
0.5 sec

<Temp.program[C] [C/min] [min]>
1* 20.0- 550.0 10.00 0.00
<Gas>
nitrogen 300.0 ml/min
---------- 0.0 ml/min



Chemical Process Systems

WHC-SD-WM-DP-145, REV 1

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B3 - BULK DENSITY ANALYSIS

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DATE TO QC: 10/09/95 HC-SD-WM-DP-145, REV. 1

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - BULK DENSITY

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 7322 7317 7313 7314 7316
7318 7319 7315 7397 7398

PNL ~~ACL~~ Quality Representative

10/9/95
Date

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Density Measurement

Tank 241-BY-108 Core 99

General Instruction:

1. Keep the sample in a sealed container as much as possible to prevent the sample from drying.

2. All requested weights fro sample plus container are for a closed container.

3. Identify the instrument used for any measurement by reference number or by calibration ID and provide the calibration expiration date.

4. Check the blances daily with the wieghts i the cell. Record the check weights on the test instruction or data sheets.

M&TE List:

C-Cell Balance:

Calib ID 388-06-01-020 Calib. Exp. Date 11/7/95

Signature Scott D [illegible] Date 9/22/95 LRB _____ Page _____

1. Check the balance calibration with a the check weight available in the cell.

   Measured Mass 199.998 g

   Actual Mass 200.000 g

2. Measure the density of each of the solid samples using the displacement method. Mineral Oil should be used as the fluid. Graduated cylinders should be used to determine the volume of the mineral oil and the sample. Record these volumes and masses.

Sample #7322

	mass		Volume	
oil	21.374 g		oil	3.20 ml
oil + sample	21.601 g		oil + sample	3.35 ml
sample	0.227 ~~0.233~~ g	g T 9/28/95	sample	0.15 ml

description peanut butter type sludge

density = sample mass/sample volume= 0.227 g T 9/28/95 ~~0.233~~ g/ 0.15 ml= 1.51 ~~1.55~~ g/ml g T 9/28/95

Sample #7317

	mass		Volume	
oil	22.193 g		oil	4.15 ml
oil + sample	22.674 g		oil + sample	4.46 ml
sample	0.481 g		sample	0.31 ml

description peanut butter type sludge

density = sample mass/sample volume= 0.481 g/ 0.31 ml= 1.55 g/ml

Signature Scott T 2 Date 9/22/95 LRB _____ Page _____

WHC-SD-WM-DP-145, REV. 1

Sample #7313

	mass		Volume	
oil	21.631	g	3.80	ml
oil + sample	21.950	g	4.00	ml
sample	0.319	g	0.20	ml

description hard, dry solids

density = sample mass/sample volume= 0.319 g/ 0.20 ml= 1.60 g/ml

Sample #7314

	mass		Volume	
oil	21.950	g	4.00	ml
oil + sample	22.370	g	4.31	ml
sample	0.420	g	0.31	ml

description almost liquid like

density = sample mass/sample volume= 0.420 g/ 0.31 ml= 1.35 g/ml

Sample #7316

	mass		Volume	
oil	20.920	g	3.00	ml
oil + sample	21.234	g	3.20	ml
sample	0.314	g	0.20	ml

description hard, dry solids

density = sample mass/sample volume= 0.314 g/ 0.20 ml= 1.57 g/ml

Signature Scott T Date 9/22/95 LRB _____ Page _____

Sample #7318

	mass		Volume	
oil	20.367	g	oil	2.30	ml
oil + sample	20.520	g	oil + sample	2.40	ml
sample	0.153	g	sample	0.10	ml

description peanut butter

density = sample mass/sample volume= 0.153 g/ 0.10 ml= 1.53 g/ml

Sample #7319

JT 9/22/95

	mass		Volume	
oil	21.243 ~~20.552~~	g	oil	3.35	ml
oil + sample	21.546 ~~20.759~~	g	oil + sample	3.55	ml
sample	0.303 ~~0.227~~	g	sample	0.20	ml

description peanut butter like sludge

density = sample mass/sample volume= 0.303 g/ 0.20 ml= 1.52 g/ml

Sample #7315

	mass		Volume	
oil		g	oil		ml
oil + sample		g	oil + sample		ml
sample		g	sample		ml

not enough sample to determine density
JT 9/22/95

description small balls of solid material (tapioca pudding)

density = sample mass/sample volume= / g/ / ml= / g/ml

Signature Scott T Date 9/22/95 LRB _____ Page _____

3. Measure the density of each of the drainable liquid samples using the a fixed pipet to deliver an accurate volume and measuring the mass of the sample with a balance. Record these volumes and masses.

Sample # 7397

sample volume 15.0 µL

sample mass 20.316 mg

density = sample mass/sample volume= 20.316 mg/ 15.0 µL= 1.35 g/ml

sample volume 25.0 µL

sample mass 30.332 mg

density = sample mass/sample volume= 30.332 mg/ 25.0 µL= 1.21 g/ml

sample volume 15.0 µL

sample mass 18.083 mg

density = sample mass/sample volume= 18.083 mg/ 15.0 µL= 1.21 g/ml

sample volume 25.0 µL

sample mass 30.332 mg

density = sample mass/sample volume= 30.332 mg/ 25.0 µL= 1.21 g/ml

description clear liquid with small amount of settled solids

Signature [signature] Date 9/22/95 LRB _____ Page _____

Sample # 7398

sample volume 20.0 µL
sample mass 26.977 mg
density = sample mass/sample volume= 26.977 mg/ 20.0 µL= 1.35 g/ml

sample volume 20,000 µL
sample mass 24.205 mg
density = sample mass/sample volume= 24.205 mg/ 20.000 µL= 1.21 g/ml

sample volume 25.000 µL
sample mass 24.784 mg
density = sample mass/sample volume= 29.784 mg/ 25.0 µL= 1.19 g/ml

sample volume 15.0 µL
sample mass 18.818 mg
density = sample mass/sample volume= 18.818 mg/ 15.0 µL= 1.25 g/ml

description clear liquid with a small amount of settled solids

Signature Scott Date 7/22/95 LRB _____ Page _____

*** RMIS View/Print Document Cover Sheet ***

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Accession #: D196021947

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [APPDX C INORGANIC] (SEC 6 OF 12)

Pages: 285

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 6 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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WHC-SD-WM-DP-145, REV. 1

SINGLE SHELL TANK

WASTE CHARACTERIZATION PROJECT

APPENDIX C

INORGANIC

TANK BY-108 CORE 99

September 1995

Pacific Northwest Laboratory

3-277

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C1 - INTRODUCTION

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Introduction to Inorganic Primary Data Package

This section of the BY-108 Core 99 Primary Data Package contains primary or "raw" data collected during preparation and analysis of inorganic samples. All analytical information is tracked by the laboratory sample number. Assessment of the primary analytical data will require in-depth knowledge of the methodology.

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C2 - ICP ANALYSIS

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KOH FUSION SEGMENT & QUARTER SEGMENT ICP ANALYSIS

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DATE TO QC: 09/18/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - KOH Fusion

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07941-H1T	95-07941-H2T	95-07941-HCB
95-07942-H1	95-07942-H2	95-07942-H3
95-07943-H1	95-07943-H2	
95-07944-H1	95-07944-H2	
95-07945-H1	95-07945-H2	95-07945-H3
95-07946-H1T	95-07946-H2T	95-07946-HCB
95-07947-H1	95-07947-H2	
95-07948-H1	95-07948-H2	

Felicia Durant

PNL ACL Quality Representative

9/19/95

Date

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

Core: 99

m091395a
09/13/95

	Seg 1			Seg 1		Seg 2D	Seg 2D			Seg 1
Sam Log#:	95-07941-			95-07941-		95-07943-	95-07943-		95-07941-	95-07941-
Split#:	H1T-Smp			H2T-Dup		H1-Smp	H2-Dup		HCB-Blk	H1T-SmpPS
ICP Dil:	2.00	10.00		2.00		2.00	2.00		2.00	5.00
Dil Fctr:	1990.0	9950.2		1949.3		594.9	612.9		924.2	4975.1

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Rec
0.015	Ag	ND	ND		ND		ND	ND		ND	ND	
0.060	Al	135,670	141,075	4	131,844	3	70,942	67,093	6	(427)	8.45	84.5%
0.080	As	(282)	ND		(222)		(83)	(73)		ND	ND	
0.020	B	(383)	(455)		(363)		(63)	(64)		(163)	0.00	
0.010	Ba	(24)	ND		ND		ND	ND		ND	ND	
0.005	Be	ND	ND		ND		ND	ND		ND	ND	
0.100	Bi	(318)	ND		ND		ND	ND		ND	ND	
0.050	Ca	(739)	(647)		(437)		855	888	4	(80)	4.61	92.2%
0.015	Cd	ND	ND		ND		ND	ND		ND	0.24	96.3%
0.100	Ce	ND	ND		ND		ND	ND		ND	ND	
0.010	Co	(58)	(115)		(45)		(27)	(31)		(20)	(0.00)	
0.020	Cr	(146)	ND		(152)		177	173	3	ND	1.41	93.9%
0.010	Cu	ND	ND		ND		234	(23)		ND	ND	
0.050	Dy	ND	ND		ND		ND	ND		ND	ND	
0.100	Eu	ND	ND		ND		ND	ND		ND	ND	
0.020	Fe	1,488	(1,641)		971	42 *	710	1,145	47 *	270	(0.00)	
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a	n/a	
0.050	La	ND	ND		ND		ND	ND		ND	ND	
0.030	Li	(109)	ND		(121)		(54)	(49)		(51)	ND	
0.100	Mg	(368)	ND		(247)		(75)	ND		ND	(0.11)	
0.005	Mn	305	(329)		269	12 *	206	285	32 *	86	0.09	92 %
0.030	Mo	ND	ND		ND		ND	ND		ND	ND	
0.080	Na	95,300	101,561	7	95,728	0	139,877	146,959	5	1,890	13.35	
0.050	Nd	(101)	ND		ND		ND	ND		(50)	(0.00)	
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a	n/a	
0.100	P	23,897	24,574	3	29,552	21 *	2,505	2,230	12 *	ND	(0.04)	
0.060	Pb	(351)	(704)		(256)		(106)	(94)		(88)	4.89	97.8%
0.300	Pd	ND	ND		ND		ND	ND		ND	ND	
0.300	Rh	ND	ND		ND		ND	ND		ND	ND	
0.050	Sb	(129)	ND		(106)		ND	ND		(48)	ND	
0.100	Se	ND	ND		ND		ND	ND		ND	ND	
0.500	Si	(6,917)	(7,371)		(4,939)		(1,183)	(1,150)		(837)	9.38	93.8%
1.000	Sn	ND	ND		ND		ND	ND		ND	ND	
0.005	Sr	(27)	ND		(22)		(15)	(13)		ND	0.00	
0.500	Te	ND	ND		ND		ND	ND		ND	ND	
0.800	Th	ND	ND		ND		ND	ND		ND	ND	
0.005	Ti	358	(400)		181	65 *	(23)	(22)		101	(0.00)	
0.500	Tl	ND	ND		ND		ND	ND		ND	ND	
2.000	U	ND	ND		ND		ND	ND		ND	(18.70)	93.5%
0.010	V	(57)	(105)		(48)		(7)	ND		ND	(0.00)	
0.500	W	ND	ND		ND		ND	ND		ND	ND	
0.010	Y	ND	ND		ND		ND	ND		ND	ND	
0.020	Zn	ND	ND		ND		(50)	(49)		ND	ND	
0.010	Zr	(174)	(218)		(187)		ND	ND		(62)	0.46	92.0%

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Template: TC-KOH

ICP RAW DATA -- IEC Corrected

File: m091395a
Reported: 09/15/95

Raw Data
Data Page 2 of 2

Analyzed: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS

Reviewer: MW Thu 9/20/95

Sample ID: / Split ID:		95-07941-H1T-Smp	95-07941-H1T-SmpDil	95-07941-H2T-Dup	95-07943-H1-Smp	95-07943-H2-Dup	95-07941-HCB-Blk	95-07941-H1T-SmpPS	95-07941 PS Base	Post Spk Conc ug/mL
Run Time:		11:04	10:52	11:12	12:21	12:29	10:45	11:00	10:56	
(ug/mL)	Ag	0.0098	0.0084	0.0084	0.0118	0.0113	0.0112	0.0122	0.0091	
	Al	68.1740	14.1781	67.6357	119.2540	109.4623	0.4620	36.6390	28.1928	1000
	As	0.1417	0.0431	0.1141	0.1395	0.1184	0.0462	0.0775	0.0680	
	B	0.1926	0.0457	0.1860	0.1060	0.1048	0.1765	0.0826	0.0861	
	Ba	0.0121	0.0038	0.0083	0.0096	0.0081	0.0055	0.0065	0.0063	
	Be	0.0005	0.0003	0.0004	0.0006	0.0005	0.0003	0.0006	0.0003	
	Bi	0.1598	0.0386	0.0589	0.0427	0.0428	0.0423	0.0828	0.0711	
	Ca	0.3714	0.0650	0.2244	1.4365	1.4480	0.0867	4.7594	0.1501	500
	Cd	0.0122	0.0034	0.0140	0.0053	0.0075	0.0120	0.2408	0.0064	25
	Ce	0.0467	0.0496	0.0364	0.0470	0.0379	0.0571	0.0651	0.0539	
	Co	0.0293	0.0115	0.0229	0.0449	0.0512	0.0214	0.0195	0.0173	
	Cr	0.0736	0.0195	0.0779	0.2983	0.2819	0.0194	1.4401	0.0319	150
	Cu	-0.0036	0.0051	-0.0051	0.3928	0.0375	-0.0039	-0.0011	0.0055	
	Dy	0.0108	0.0078	0.0081	0.0075	0.0060	0.0088	0.0078	0.0091	
	Eu	0.0025	0.0023	0.0020	0.0023	0.0020	0.0026	0.0029	0.0025	
	Fe	0.7477	0.1650	0.4981	1.1930	1.8677	0.2920	0.3171	0.3212	
	K	4873.2153	1068.6553	4754.9541	5149.4443	5197.0420	4794.1938	2065.7043	2086.3491	2000
	La	0.0166	0.0130	0.0122	0.0136	0.0119	0.0163	0.0191	0.0156	
	Li	0.0545	0.0171	0.0622	0.0904	0.0796	0.0557	0.0288	0.0272	
	Mg	0.1851	0.0647	0.1268	0.1267	0.0971	0.0729	0.2084	0.1022	
	Mn	0.1531	0.0330	0.1381	0.3455	0.4643	0.0927	0.1573	0.0651	10
	Mo	0.0183	0.0082	0.0161	0.0251	0.0240	0.0132	0.0111	0.0119	
	Na	47.8882	10.2069	49.1087	235.1336	239.7639	2.0453	33.4539	20.1067	
	Nd	0.0506	0.0468	0.0475	0.0465	0.0396	0.0537	0.0546	0.0525	
	Ni	49.2367	10.4681	25.7503	2.7370	5.1640	10.9713	25.2717	20.7292	500
	P	12.0084	2.4697	15.1603	4.2112	3.6385	0.0932	4.8743	4.9120	
	Pb	0.1765	0.0708	0.1315	0.1778	0.1541	0.0957	4.9828	0.0953	500
	Pd	0.1410	0.1414	0.1192	0.1351	0.1185	0.1536	0.0581	0.1466	
	Rh	0.1033	0.0723	0.0771	0.0670	0.0593	0.1074	0.0779	0.0852	
	Sb	0.0647	0.0335	0.0543	0.0207	0.0230	0.0520	0.0407	0.0427	
	Se	0.0819	0.0375	0.0586	0.0587	0.0555	0.0685	0.0565	0.0579	
	Si	3.4756	0.7408	2.5336	1.9886	1.8770	0.9052	10.8338	1.4554	1000
	Sn	0.3750	0.2570	0.2883	0.2535	0.2130	0.3397	0.3585	0.2825	
	Sr	0.0137	0.0036	0.0112	0.0247	0.0218	0.0028	0.0062	0.0063	
	Te	0.0657	0.0412	0.0530	0.0350	0.0271	0.0675	0.0555	0.0500	
	Th	0.0336	0.0103	0.0216	0.0118	0.0096	0.0205	0.2330	0.0170	
	Ti	0.1797	0.0403	0.0930	0.0390	0.0356	0.1096	0.0768	0.0772	
	Tl	0.1907	0.0492	0.1802	0.2716	0.2589	0.0399	0.1119	0.0823	
	U	0.9739	0.7399	0.7143	0.9022	0.7736	0.8501	18.6964	0.8753	2000
	V	0.0287	0.0106	0.0245	0.0113	0.0096	0.0091	0.0180	0.0158	
	W	0.0758	0.0314	0.0532	0.0757	0.0686	0.0389	0.0459	0.0409	
	Y	0.0033	0.0032	0.0026	0.0028	0.0026	0.0036	0.0048	0.0035	
	Zn	0.0076	0.0008	0.0194	0.0844	0.0800	0.0086	-0.0001	0.0030	
(ug/mL)	Zr	0.0873	0.0219	0.0958	0.0058	0.0052	0.0666	0.4995	0.0392	50

Analyzed Date: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D256a

File: m091395a
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07941-H1T-Smp	95-07941-H1T-SmpDil	95-07941-H2T-Dup	95-07943-H1-Smp	95-07943-H2-Dup	95-07941-HCB-Blk	95-07941-H1T-SmpPS	95-07941 PS Base
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1005	0.1005	0.1026	0.3362	0.3263	0.2164	0.1005	0.1005
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL									
Dil: Vol-mL									
Prep Factor		995.02	995.02	974.66	297.44	306.47	462.11	995.02	995.02
Spike ID								950830H901	
Spike PreDil'n								20.0	
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00	5.00	5.00
Dil Fctr		1990.0	9950.2	1949.3	594.9	612.9	924.2	4975.1	4975.1
Run Time		11:04	10:52	11:12	12:21	12:29	10:45	11:00	10:56
ug/g	Ag	19.6	84.0	16.5	7.0	6.9	10.3	60.5	45.5
	Al	135669.7	141075.4	131843.5	70942.3	67093.0	427.0	182283.7	140262.9
	As	282.0	429.3	222.4	83.0	72.6	42.7	385.6	338.2
	B	383.2	455.1	362.6	63.0	64.3	163.1	411.1	428.5
	Ba	24.1	38.2	16.2	5.7	5.0	5.0	32.2	31.3
	Be	1.0	2.5	0.8	0.3	0.3	0.3	3.2	1.6
	Bi	317.9	383.9	114.8	25.4	26.2	39.1	412.1	353.6
	Ca	739.1	646.9	437.5	854.6	887.6	80.2	23678.6	746.9
	Cd	24.4	34.0	27.2	3.2	4.6	11.1	1198.0	31.7
	Ce	92.9	493.3	71.1	28.0	23.2	52.8	323.9	268.3
	Co	58.3	114.8	44.6	26.7	31.4	19.8	96.8	85.9
	Cr	146.4	194.4	151.8	177.4	172.8	18.0	7164.7	158.6
	Cu	-7.2	50.8	-10.0	233.6	23.0	-3.6	-5.6	27.2
	Dy	21.4	77.9	15.8	4.4	3.7	8.2	39.0	45.4
	Eu	5.1	22.8	3.9	1.4	1.2	2.4	14.6	12.5
	Fe	1487.9	1641.3	971.0	709.7	1144.8	269.9	1577.6	1598.0
	K	9697941.0	10633385.8	9268916.4	3063322.0	3185437.9	4430863.1	10277136.0	10379846.4
	La	33.1	128.9	23.8	8.1	7.3	15.1	95.1	77.6
	Li	108.5	170.5	121.2	53.8	48.8	51.5	143.3	135.3
	Mg	368.4	644.1	247.1	75.4	59.5	67.4	1036.9	508.2
	Mn	304.6	328.7	269.1	205.5	284.6	85.7	782.8	323.9
	Mo	36.5	81.3	31.3	14.9	14.7	12.2	55.2	59.0
	Na	95299.8	101561.3	95728.5	139877.2	146959.2	1890.3	166437.1	100033.4
	Nd	100.7	465.7	92.7	27.7	24.2	49.6	271.6	261.4
	Ni	97983.4	104160.7	50195.5	1628.2	3165.2	10139.8	125730.0	103130.3
	P	23897.3	24573.7	29552.2	2505.2	2230.2	86.1	24250.4	24438.0
	Pb	351.2	704.0	256.4	105.8	94.4	88.4	24790.1	474.0
	Pd	280.7	1407.4	232.3	80.3	72.6	142.0	289.0	729.2
	Rh	205.6	719.1	150.3	39.9	36.3	99.2	387.7	423.7
	Sb	128.7	333.2	105.9	12.3	14.1	48.1	202.7	212.2
	Se	163.0	372.7	114.3	34.9	34.0	63.3	281.0	287.9
	Si	6916.5	7371.4	4938.7	1183.0	1150.5	836.6	53899.3	7240.8
	Sn	746.3	2557.4	562.0	150.8	130.6	313.9	1783.7	1405.4
	Sr	27.3	35.4	21.8	14.7	13.3	2.6	31.0	31.6
	Te	130.7	410.1	103.3	20.8	16.6	62.4	275.9	248.8
	Th	66.8	102.0	42.1	7.0	5.9	18.9	1159.3	84.3
	Ti	357.6	400.5	181.3	23.2	21.8	101.3	381.9	384.2
	Tl	379.4	489.1	351.2	161.5	158.7	36.8	556.6	409.3
	U	1938.1	7361.8	1392.3	536.7	474.2	785.7	93017.1	4354.7
	V	57.1	105.4	47.8	6.7	5.9	8.4	89.5	78.5
	W	150.8	312.2	103.6	45.0	42.1	36.0	228.5	203.2
	Y	6.6	31.4	5.1	1.7	1.6	3.3	24.1	17.3
	Zn	15.1	7.8	37.9	50.2	49.0	8.0	-0.6	14.8
ug/g	Zr	173.6	217.7	186.7	3.4	3.2	61.5	2484.9	195.2

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395b
09/13/95

Core 99

		Seg 2A		Seg 2A	Seg 3A	Seg 3A	
Sam Log#:		95-07942-		95-07942-	95-07944-	95-07944-	95-07942-
Split#:		H1-Smp		H2-Dup	H1-Smp	H2-Dup	H3-Blk
ICP Dil:		2.00	10.00	2.00	2.00	2.00	2.00
Dil Fctr:		1736.1	8680.6	1803.4	1650.2	1408.5	1635.0

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g
0.015	Ag	ND	ND		ND		ND	ND		(25)
0.060	Al	8,327	8,892	7	10,449	23 *	37,342	32,120	15 *	(316)
0.080	As	ND	ND		ND		ND	ND		ND
0.020	B	598	(666)		(149)		1,088	415	89 *	365
0.010	Ba	ND	ND		ND		ND	(16)		ND
0.005	Be	ND	ND		ND		ND	ND		ND
0.100	Bi	ND	ND		ND		ND	ND		ND
0.050	Ca	1,925	ND		2,164	12 *	1,132	1,035	9	(224)
0.015	Cd	ND	ND		ND		ND	ND		ND
0.100	Ce	ND	ND		ND		ND	ND		ND
0.010	Co	(44)	ND		(42)		(63)	(50)		(88)
0.020	Cr	(72)	ND		(122)		(164)	(178)		(35)
0.010	Cu	ND	ND		327		(100)	(75)		(23)
0.050	Dy	ND	ND		ND		ND	ND		ND
0.100	Eu	ND	ND		ND		ND	ND		ND
0.020	Fe	5,112	5,464	7	2,510	68 *	1,608	1,769	10	815
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a
0.050	La	ND	ND		ND		ND	ND		ND
0.030	Li	ND	ND		ND		ND	ND		ND
0.100	Mg	ND	ND		ND		(199)	(147)		ND
0.005	Mn	335	(356)		298	12 *	746	535	33 *	677
0.030	Mo	ND	ND		ND		ND	ND		ND
0.080	Na	201,669	220,212	9	201,554	0	169,524	181,983	7	4,892
0.050	Nd	(108)	ND		ND		(97)	(82)		(120)
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a
0.100	P	(709)	ND		(828)		5,405	7,079	27 *	ND
0.060	Pb	(159)	ND		(144)		(167)	(150)		(158)
0.300	Pd	ND	ND		ND		ND	ND		ND
0.300	Rh	ND	ND		ND		ND	ND		ND
0.050	Sb	(91)	ND		ND		ND	ND		(100)
0.100	Se	ND	ND		ND		ND	ND		ND
0.500	Si	ND	ND		(1,072)		(1,936)	(1,582)		ND
1.000	Sn	ND	ND		ND		ND	ND		ND
0.005	Sr	ND	ND		ND		162	201	22 *	ND
0.500	Te	ND	ND		ND		ND	ND		ND
0.800	Th	ND	ND		ND		ND	ND		ND
0.005	Ti	(22)	ND		(26)		(38)	(28)		(24)
0.500	Tl	ND	ND		ND		ND	ND		ND
2.000	U	ND	ND		ND		ND	ND		ND
0.010	V	ND	ND		ND		(22)	(22)		(18)
0.500	W	ND	ND		ND		ND	ND		ND
0.010	Y	ND	ND		ND		ND	ND		ND
0.020	Zn	(71)	ND		(250)		(103)	(98)		(75)
0.010	Zr	ND	ND		ND		ND	ND		ND

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Analyzed Date: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D256a

File: m091395b
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07942-H1-Smp	95-07942-H1-SmpDil	95-07942-H2-Dup	95-07944-H1-Smp	95-07944-H2-Dup	95-07942-H3-Blk
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1152	0.1152	0.1109	0.1212	0.1420	0.1223
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL							
Dil: Vol-mL							
Prep Factor		868.06	868.06	901.71	825.08	704.23	817.49
Spike ID							
Spike PreDil'n							
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00
Dil Fctr		1736.1	8680.6	1803.4	1650.2	1408.5	1635.0
Run Time		12:05	12:02	12:13	12:48	12:55	11:17
ug/g	Ag	20.6	54.1	21.5	22.1	19.7	24.8
	Al	8326.6	8891.9	10449.1	37341.8	32119.5	316.2
	As	76.0	99.5	62.1	96.3	83.9	78.9
	B	598.3	666.3	149.2	1088.0	415.4	364.7
	Ba	5.9	11.0	6.8	16.1	15.5	7.5
	Be	0.5	1.0	0.5	0.6	0.5	0.5
	Bi	52.2	82.6	46.2	59.9	55.5	53.8
	Ca	1924.8	4.5	2163.6	1131.6	1035.5	224.4
	Cd	6.5	5.4	9.4	6.5	6.8	7.7
	Ce	104.2	274.0	86.0	99.6	79.0	152.1
	Co	44.1	66.5	41.7	62.7	50.4	87.5
	Cr	72.5	87.2	122.5	163.6	177.9	35.4
	Cu	0.4	20.3	326.8	100.0	75.0	22.6
	Dy	17.0	41.0	12.8	15.5	12.6	18.6
	Eu	5.4	13.1	4.5	4.9	4.0	6.0
	Fe	5111.5	5463.9	2509.6	1607.6	1768.9	815.1
	K	8740510.7	9858885.9	9430577.8	7824190.5	6788597.6	10818857.9
	La	28.0	75.0	23.4	26.5	21.6	31.8
	Li	20.7	48.4	19.5	35.5	30.9	18.8
	Mg	128.3	270.0	141.7	199.4	147.5	136.7
	Mn	334.8	356.1	298.4	746.0	535.2	676.8
	Mo	25.7	49.7	28.3	26.4	32.3	26.4
	Na	201669.3	220212.2	201553.8	169524.1	181982.8	4891.7
	Nd	108.4	281.2	85.5	97.0	82.1	119.8
	Ni	3320.6	3529.1	1534.2	2041.1	1859.8	3644.1
	P	708.8	780.3	827.6	5404.9	7078.8	135.7
	Pb	158.9	322.8	144.1	167.4	149.5	158.2
	Pd	315.2	832.7	242.0	296.0	225.6	329.3
	Rh	154.3	385.2	121.4	141.5	119.0	177.6
	Sb	90.7	174.3	80.0	81.2	64.9	99.8
	Se	85.0	169.4	79.7	114.9	81.5	124.4
	Si	714.8	792.4	1072.5	1935.1	1582.5	477.7
	Sn	501.0	1321.8	417.9	489.0	409.6	649.1
	Sr	7.3	11.1	7.6	161.6	201.0	6.9
	Te	101.6	227.3	96.6	93.8	76.0	121.0
	Th	25.0	2.6	19.4	19.3	19.7	29.2
	Ti	22.4	35.2	26.0	37.6	27.9	24.4
	Tl	86.4	156.2	64.7	140.7	111.4	63.0
	U	1609.8	3581.9	1264.9	1887.9	1694.2	1885.2
	V	15.5	33.3	14.1	21.7	21.8	18.2
	W	62.3	117.9	58.8	246.5	266.0	64.1
	Y	7.2	18.4	5.6	6.5	5.4	7.8
	Zn	70.6	42.4	249.6	102.9	98.0	75.5
ug/g	Zr	12.2	28.3	10.9	13.8	10.4	14.1

Template: TC-KOH

ICP RAW DATA -- IEC Corrected

File: m091395b
Reported: 09/15/95

Raw Data
Data Page 2 of 2

Analyzed: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SAUDERS

Reviewer: MW Thiel 9/20/95

Sample ID:		95-07942-	95-07942-	95-07942-	95-07944-	95-07944-	95-07942-
Split ID:		H1-Smp	H1-SmpDil	H2-Dup	H1-Smp	H2-Dup	H3-Blk
Run Time:		12:05	12:02	12:13	12:48	12:55	11:17
(ug/mL)	Ag	0.0119	0.0062	0.0119	0.0134	0.0140	0.0152
	Al	4.7961	1.0244	5.7940	22.6291	22.8049	0.1934
	As	0.0438	0.0115	0.0344	0.0584	0.0595	0.0483
	B	0.3446	0.0768	0.0827	0.6593	0.2949	0.2231
	Ba	0.0034	0.0013	0.0038	0.0098	0.0110	0.0046
	Be	0.0003	0.0001	0.0003	0.0004	0.0004	0.0003
	Bi	0.0301	0.0095	0.0256	0.0363	0.0394	0.0329
	Ca	1.1087	0.0005	1.1997	0.6858	0.7352	0.1373
	Cd	0.0037	0.0006	0.0052	0.0039	0.0048	0.0047
	Ce	0.0600	0.0316	0.0477	0.0603	0.0561	0.0930
	Co	0.0254	0.0077	0.0231	0.0380	0.0358	0.0535
	Cr	0.0417	0.0100	0.0679	0.0992	0.1263	0.0217
	Cu	0.0002	0.0023	0.1812	0.0606	0.0533	0.0138
	Dy	0.0098	0.0047	0.0071	0.0094	0.0089	0.0114
	Eu	0.0031	0.0015	0.0025	0.0030	0.0029	0.0037
	Fe	2.9442	0.6294	1.3916	0.9742	1.2559	0.4985
	K	5034.5342	1135.7436	5229.2554	4741.4595	4819.9043	6617.0840
	La	0.0161	0.0086	0.0130	0.0161	0.0154	0.0194
	Li	0.0119	0.0056	0.0108	0.0215	0.0219	0.0115
	Mg	0.0739	0.0311	0.0786	0.1208	0.1047	0.0836
	Mn	0.1929	0.0410	0.1655	0.4521	0.3800	0.4139
	Mo	0.0148	0.0057	0.0157	0.0160	0.0230	0.0161
	Na	116.1615	25.3684	111.7616	102.7316	129.2078	2.9919
	Nd	0.0625	0.0324	0.0474	0.0588	0.0583	0.0733
	Ni	1.9126	0.4066	0.8507	1.2369	1.3205	2.2288
	P	0.4083	0.0899	0.4589	3.2753	5.0260	0.0830
	Pb	0.0915	0.0372	0.0799	0.1015	0.1062	0.0968
	Pd	0.1816	0.0959	0.1342	0.1794	0.1602	0.2014
	Rh	0.0889	0.0444	0.0673	0.0857	0.0845	0.1086
	Sb	0.0523	0.0201	0.0443	0.0492	0.0461	0.0610
	Se	0.0490	0.0195	0.0442	0.0696	0.0579	0.0761
	Si	0.4117	0.0913	0.5947	1.1727	1.1236	0.2922
	Sn	0.2886	0.1523	0.2318	0.2964	0.2908	0.3970
	Sr	0.0042	0.0013	0.0042	0.0979	0.1427	0.0042
	Te	0.0585	0.0262	0.0535	0.0568	0.0540	0.0740
	Th	0.0144	0.0003	0.0108	0.0117	0.0140	0.0179
	Ti	0.0129	0.0041	0.0144	0.0228	0.0198	0.0150
	Tl	0.0498	0.0180	0.0359	0.0853	0.0791	0.0385
	U	0.9273	0.4126	0.7014	1.1441	1.2028	1.1530
	V	0.0089	0.0038	0.0078	0.0132	0.0155	0.0111
	W	0.0359	0.0136	0.0326	0.1494	0.1888	0.0392
	Y	0.0041	0.0021	0.0031	0.0039	0.0038	0.0048
	Zn	0.0407	0.0049	0.1384	0.0624	0.0696	0.0462
(ug/mL)	Zr	0.0070	0.0033	0.0060	0.0084	0.0074	0.0086

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395c
09/13/95

Core 99

Est. IDL ug/mL	Analyte	Sam Log#: Seg 4A 95-07945- H1-Smp Sample ug/g	Split#: Dilution ug/g	ICP Dil: 2.00	Dil Fctr: 1857.0	%D	Seg 4A 95-07945- H2-Dup 2.00 Duplicate ug/g	RPD	Seg 4C 95-07947- H1-Smp 2.00 1836.5 Sample ug/g	Seg 4C 95-07947- H2-Dup 2.00 1384.1 Duplicate ug/g	RPD	95-07945- H3-Blk 2.00 1672.6 Batch Blk ug/g	Seg 4A 95-07945- H1-SmpPS 5.00 4642.5 Net PSpk ug/mL	Post Spk Rec
0.015	Ag	(32)	ND	10.00	9285.1		(33)		(39)	(31)		ND	ND	
0.060	Al	14,622	15,819			8	14,338	2	7,155	7,158	0	(354)	9.05	90.5%
0.080	As	ND	ND				ND		ND	(115)		ND	ND	
0.020	B	(293)	(354)				390		828	543	42 *	1,043	0.00	
0.010	Ba	257	(291)				262	2	(87)	(90)		ND	0.00	
0.005	Be	ND	ND				ND		ND	ND		ND	ND	
0.100	Bi	(1,279)	(1,350)				(1,369)		(878)	(926)		ND	(0.01)	
0.050	Ca	11,276	11,872			5	11,406	1	15,618	15,516	1	(149)	4.57	91.4%
0.015	Cd	ND	ND				ND		ND	ND		ND	0.25	98.5%
0.100	Ce	ND	ND				(214)		(202)	(188)		ND	ND	
0.010	Co	(81)	ND				(71)		(96)	(74)		(55)	(0.00)	
0.020	Cr	613	(661)				545	12 *	(90)	(79)		ND	1.41	94.3%
0.010	Cu	(128)	(157)				ND		435	269	47 *	(150)	0.01	
0.050	Dy	ND	ND				ND		ND	ND		ND	ND	
0.100	Eu	ND	ND				ND		ND	ND		ND	ND	
0.020	Fe	19,490	21,229			9	19,044	2	32,264	35,089	8	738	(0.13)	
2.000	K	n/a	n/a				n/a		n/a	n/a		n/a	n/a	
0.050	La	ND	ND				ND		ND	ND		ND	ND	
0.030	Li	ND	ND				ND		ND	ND		ND	ND	
0.100	Mg	(1,293)	(1,477)				(1,143)		(1,141)	(1,188)		ND	(0.09)	
0.005	Mn	1,024	1,105			8	467	75 *	1,069	966	10	384	0.09	88.
0.030	Mo	ND	ND				ND		ND	ND		ND	ND	
0.080	Na	135,458	154,142			14	121,043	11 *	111,781	114,902	3	4,494	13.25	
0.050	Nd	(143)	ND				(186)		(191)	(174)		(111)	ND	
0.030	Ni	n/a	n/a				n/a		n/a	n/a		n/a	n/a	
0.100	P	14,255	15,057			6	12,926	10	24,626	24,629	0	ND	(0.07)	
0.060	Pb	(1,075)	(1,212)				1,156		(1,047)	1,125		(152)	4.92	98.4%
0.300	Pd	ND	ND				ND		ND	ND		ND	ND	
0.300	Rh	ND	ND				ND		ND	ND		ND	ND	
0.050	Sb	ND	ND				(106)		(107)	(84)		ND	ND	
0.100	Se	ND	ND				ND		ND	(152)		ND	ND	
0.500	Si	(2,929)	ND				(4,696)		(2,175)	(2,045)		ND	9.66	96.6%
1.000	Sn	ND	ND				ND		ND	ND		ND	ND	
0.005	Sr	12,488	13,734			10	12,751	2	1,084	1,097	1	ND	(0.09)	
0.500	Te	ND	ND				ND		ND	ND		ND	ND	
0.800	Th	ND	ND				ND		ND	ND		ND	ND	
0.005	Ti	(64)	(73)				(56)		(58)	(56)		(22)	(0.00)	
0.500	Tl	ND	ND				ND		ND	ND		ND	ND	
2.000	U	(30,957)	(34,843)				(31,604)		40,875	44,374	8	ND	18.37	91.8%
0.010	V	(23)	ND				(27)		(28)	(25)		ND	ND	
0.500	W	ND	ND				ND		ND	ND		ND	ND	
0.010	Y	ND	ND				ND		(21)	(21)		ND	ND	
0.020	Zn	(297)	(305)				(228)		(354)	310		(129)	0.01	
0.010	Zr	ND	ND				ND		ND	ND		ND	0.46	91.9%

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Analyzed Date: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D256a

File: m091395c
Reported: 09/15/95
Data Page 1 of 2

	Sample Log#	95-07945-H1-Smp	95-07945-H1-SmpDil	95-07945-H2-Dup	95-07947-H1-Smp	95-07947-H2-Dup	95-07945-H3-Blk	95-07945-H1-SmpPS	95-07945 PS Base
	Prep Type	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
	Sample Wt-g	0.1077	0.1077	0.1172	0.1089	0.1445	0.1196	0.1077	0.1077
	Makeup Vol-mL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Dil: Smpl-mL								
	Dil: Vol-mL								
	Prep Factor	928.51	928.51	853.24	918.27	692.04	836.30	928.51	928.51
Spike	ID							950830H901	
Spike	PreDil'n							20.0	
	ICP Dilution	2.00	10.00	2.00	2.00	2.00	2.00	5.00	5.00
	Dil Fctr	1857.0	9285.1	1706.5	1836.5	1384.1	1672.6	4642.5	4642.5
	Run Time	15:44	15:33	15:52	16:35	16:43	15:30	15:41	15:37
ug/g	Ag	31.8	30.7	32.6	39.1	31.3	21.9	50.0	30.0
	Al	14622.0	15819.5	14338.4	7155.5	7157.9	353.6	57721.2	15697.5
	As	107.0	77.7	107.0	116.1	114.6	52.6	221.1	116.0
	B	293.2	354.1	389.7	827.7	542.9	1042.7	322.7	334.2
	Ba	257.2	290.8	262.2	87.4	90.1	5.9	277.6	282.5
	Be	1.3	1.5	1.5	1.3	1.2	0.6	3.2	1.3
	Bi	1279.3	1349.8	1369.4	877.9	926.2	75.9	1423.4	1357.4
	Ca	11275.5	11871.8	11406.3	15617.9	15516.1	148.8	33172.2	11954.1
	Cd	15.8	26.3	11.7	20.1	12.5	9.6	1143.0	12.2
	Ce	165.0	178.8	214.2	201.9	187.6	115.5	284.2	198.7
	Co	80.6	86.6	71.1	96.0	74.0	55.1	103.6	87.8
	Cr	613.4	660.6	545.1	89.9	78.9	28.0	7225.4	660.6
	Cu	128.1	157.5	-15.2	434.6	269.1	150.4	119.9	149.6
	Dy	16.4	17.9	22.6	18.4	14.0	17.7	18.8	15.6
	Eu	7.0	8.3	9.1	9.1	8.2	5.2	12.1	7.4
	Fe	19490.3	21229.1	19043.6	32263.7	35088.9	737.7	20439.1	21040.7
	K	8911460.1	10433241.9	7921171.7	7888406.4	5907361.7	8488202.8	9703150.4	**********
	La	66.9	75.4	80.4	60.4	56.9	30.5	103.5	74.2
	Li	18.3	19.7	24.9	20.6	20.4	15.7	32.9	20.9
	Mg	1293.2	1476.7	1143.4	1140.7	1188.5	133.1	1874.9	1467.4
	Mn	1024.2	1105.3	466.5	1068.8	965.8	383.6	1512.7	1100.6
	Mo	34.7	42.1	25.8	37.6	32.4	19.1	36.5	38.7
	Na	135458.4	154141.7	121042.8	111781.3	114901.9	4493.6	211430.3	149935.2
	Nd	143.1	195.5	185.6	191.0	174.4	111.5	219.8	169.5
	Ni	16800.3	18328.5	9969.6	6156.1	5156.4	7806.0	40048.4	18091.8
	P	14255.1	15057.1	12925.8	24626.2	24629.2	145.2	14732.7	15058.3
	Pb	1075.1	1212.3	1155.5	1046.9	1125.1	152.5	24007.7	1177.1
	Pd	186.2	311.5	297.9	183.8	88.5	334.8	-130.7	236.1
	Rh	160.9	167.4	214.8	173.7	145.2	151.0	218.6	187.9
	Sb	85.4	46.4	106.3	106.7	83.9	74.2	122.9	100.0
	Se	135.9	18.0	144.7	151.7	152.1	89.4	195.7	134.0
	Si	2928.9	3279.6	4695.6	2175.1	2044.8	477.9	48033.6	3168.5
	Sn	589.2	618.5	763.2	654.6	612.1	539.7	1164.3	679.3
	Sr	12488.0	13734.4	12750.9	1084.3	1096.8	5.4	13137.2	13544.2
	Te	136.2	170.4	162.9	157.0	141.3	106.9	153.9	147.9
	Th	416.3	410.3	432.6	579.7	634.3	28.4	1571.7	465.4
	Ti	64.1	72.6	56.0	57.7	56.0	22.4	75.9	69.3
	Tl	103.8	111.6	116.6	113.1	96.8	62.5	284.8	116.9
	U	30956.8	34843.0	31604.3	40874.8	44374.4	1729.3	119509.1	34236.6
	V	23.5	25.6	26.9	27.7	25.2	16.1	40.1	25.0
	W	166.5	204.5	156.0	104.4	98.0	49.6	237.0	178.1
	Y	14.4	16.8	16.8	20.6	20.9	6.5	25.6	16.6
	Zn	297.1	304.6	227.7	354.3	309.9	129.0	291.9	349.9
ug/g	Zr	9.6	7.2	10.8	-0.6	-1.2	11.0	2133.2	3.9

Template: TC-KOH

ICP RAW DATA -- IEC Corrected

File: m091395c
Reported: 09/15/95

Analyzed: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Raw Data
Data Page 2 of 2

Analyst: D Sanders

Reviewer: MW Thur 9/15/95

Sample ID: / Split ID:	95-07945-H1-Smp	95-07945-H1-SmpDil	95-07945-H2-Dup	95-07947-H1-Smp	95-07947-H2-Dup	95-07945-H3-Blk	95-07945-H1-SmpPS	95-07945 PS Base	Post Spk Conc ug/mL
Run Time:	15:44	15:33	15:52	16:35	16:43	15:30	15:41	15:37	
(ug/mL) Ag	0.0171	0.0033	0.0191	0.0213	0.0226	0.0131	0.0108	0.0065	
Al	7.8740	1.7038	8.4023	3.8962	5.1715	0.2114	12.4331	3.3812	1000
As	0.0576	0.0084	0.0627	0.0632	0.0828	0.0314	0.0476	0.0250	
B	0.1579	0.0381	0.2284	0.4507	0.3922	0.6234	0.0695	0.0720	
Ba	0.1385	0.0313	0.1536	0.0476	0.0651	0.0035	0.0598	0.0609	
Be	0.0007	0.0002	0.0009	0.0007	0.0009	0.0003	0.0007	0.0003	
Bi	0.6889	0.1454	0.8025	0.4780	0.6692	0.0454	0.3066	0.2924	
Ca	6.0719	1.2786	6.6841	8.5039	11.2104	0.0890	7.1453	2.5749	500
Cd	0.0085	0.0028	0.0069	0.0110	0.0091	0.0057	0.2462	0.0026	25
Ce	0.0889	0.0193	0.1255	0.1100	0.1355	0.0691	0.0612	0.0428	
Co	0.0434	0.0093	0.0417	0.0523	0.0534	0.0329	0.0223	0.0189	
Cr	0.3303	0.0712	0.3194	0.0489	0.0570	0.0167	1.5564	0.1423	150
Cu	0.0690	0.0170	-0.0089	0.2366	0.1944	0.0899	0.0258	0.0322	
Dy	0.0089	0.0019	0.0133	0.0100	0.0101	0.0106	0.0040	0.0034	
Eu	0.0038	0.0009	0.0053	0.0050	0.0059	0.0031	0.0026	0.0016	
Fe	10.4955	2.2864	11.1595	17.5676	25.3517	0.4411	4.4026	4.5322	
K	4798.8213	1123.6601	4641.8066	4295.2373	4268.0688	5074.8843	2090.0586	2157.0923	2000
La	0.0361	0.0081	0.0471	0.0329	0.0411	0.0182	0.0223	0.0160	
Li	0.0098	0.0021	0.0146	0.0112	0.0148	0.0094	0.0071	0.0045	
Mg	0.6964	0.1590	0.6701	0.6211	0.8587	0.0796	0.4038	0.3161	
Mn	0.5515	0.1190	0.2734	0.5820	0.6978	0.2293	0.3258	0.2371	10
Mo	0.0187	0.0045	0.0151	0.0205	0.0234	0.0114	0.0079	0.0083	
Na	72.9444	16.6011	70.9311	60.8649	83.0166	2.6866	45.5421	32.2960	
Nd	0.0771	0.0211	0.1087	0.1040	0.1260	0.0667	0.0474	0.0365	
Ni	9.0470	1.9740	5.8422	3.3520	3.7255	4.6670	8.6264	3.8970	500
P	7.6764	1.6217	7.5745	13.4090	17.7946	0.0868	3.1734	3.2435	
Pb	0.5789	0.1306	0.6771	0.5701	0.8129	0.0912	5.1713	0.2535	500
Pd	0.1003	0.0335	0.1746	0.1001	0.0639	0.2002	-0.0282	0.0509	
Rh	0.0866	0.0180	0.1259	0.0946	0.1049	0.0903	0.0471	0.0405	
Sb	0.0460	0.0050	0.0623	0.0581	0.0606	0.0444	0.0265	0.0215	
Se	0.0732	0.0019	0.0848	0.0826	0.1099	0.0535	0.0422	0.0289	
Si	1.5772	0.3532	2.7517	1.1844	1.4774	0.2858	10.3464	0.6825	1000
Sn	0.3173	0.0666	0.4472	0.3564	0.4423	0.3227	0.2508	0.1463	
Sr	6.7248	1.4792	7.4720	0.5904	0.7924	0.0032	2.8298	2.9174	
Te	0.0733	0.0184	0.0955	0.0855	0.1021	0.0639	0.0331	0.0319	
Th	0.2242	0.0442	0.2535	0.3157	0.4582	0.0170	0.3385	0.1002	
Ti	0.0345	0.0078	0.0328	0.0314	0.0405	0.0134	0.0163	0.0149	
Tl	0.0559	0.0120	0.0684	0.0616	0.0700	0.0374	0.0614	0.0252	
U	16.6702	3.7526	18.5201	22.2563	32.0605	1.0339	25.7423	7.3746	2000
V	0.0126	0.0028	0.0158	0.0151	0.0182	0.0096	0.0086	0.0054	
W	0.0897	0.0220	0.0914	0.0569	0.0708	0.0297	0.0511	0.0384	
Y	0.0077	0.0018	0.0098	0.0112	0.0151	0.0039	0.0055	0.0036	
Zn	0.1600	0.0328	0.1334	0.1929	0.2239	0.0771	0.0629	0.0754	
(ug/mL) Zr	0.0052	0.0008	0.0063	-0.0003	-0.0009	0.0066	0.4595	0.0008	50

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

m091395d
09/13/95

Core 99

		Seg 4B			Seg 4B		Seg 4D	Seg 4D		
Sam Log#:		95-07946-			95-07946-		95-07948-	95-07948-		95-07946-
Split#:		H1T-Smp			H2T-Dup		H1-Smp	H2-Dup		HCB-Blk
ICP Dil:		2.00	10.00		2.00		2.00	2.00		2.00
Dil Fctr:		1996.0	9980.0		2016.1		2024.3	2283.1		2073.6
Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Duplicate ug/g	RPD	Batch Blk ug/g
0.015	Ag	ND	ND		(32)		(33)	(38)		(42)
0.060	Al	13,068	13,685	5	10,380	23 *	8,608	8,725	1	(1,116)
0.080	As	(220)	ND		(214)		ND	ND		(222)
0.020	B	460	(532)		405	13 *	1,119	(456)		(385)
0.010	Ba	619	(666)		445	33 *	(117)	(120)		ND
0.005	Be	ND	ND		ND		ND	ND		ND
0.100	Bi	3,245	(3,512)		2,502	26 *	(1,123)	(1,174)		(255)
0.050	Ca	11,867	12,099	2	8,471	33 *	7,973	8,038	1	(260)
0.015	Cd	(57)	ND		(76)		ND	ND		ND
0.100	Ce	ND	ND		ND		ND	ND		(255)
0.010	Co	(93)	(140)		(89)		(94)	(129)		(91)
0.020	Cr	567	(578)		(398)		(103)	(119)		(77)
0.010	Cu	(63)	(122)		(45)		247	(169)		(66)
0.050	Dy	ND	ND		ND		ND	ND		ND
0.100	Eu	ND	ND		ND		ND	ND		ND
0.020	Fe	29,045	30,298	4	21,333	31 *	44,493	44,702	0	(397)
2.000	K	n/a	n/a		n/a		n/a	n/a		n/a
0.050	La	ND	ND		ND		ND	ND		ND
0.030	Li	(127)	ND		(171)		ND	ND		ND
0.100	Mg	(1,511)	(1,798)		(1,199)		(1,233)	(1,209)		(224)
0.005	Mn	803	836	4	644	22 *	1,234	1,554	23 *	390
0.030	Mo	ND	ND		ND		ND	ND		ND
0.080	Na	103,437	113,594	10	114,857	10	117,626	117,166	0	4,504
0.050	Nd	(154)	ND		(176)		(171)	(200)		(238)
0.030	Ni	n/a	n/a		n/a		n/a	n/a		n/a
0.100	P	20,096	20,254	1	28,137	33 *	26,870	27,825	3	(364)
0.060	Pb	(1,141)	(1,454)		(902)		1,544	1,628	5	(332)
0.300	Pd	ND	ND		ND		ND	ND		(926)
0.300	Rh	ND	ND		ND		ND	ND		ND
0.050	Sb	(135)	ND		(148)		(102)	ND		(186)
0.100	Se	ND	ND		ND		ND	ND		ND
0.500	Si	(4,194)	ND		(4,532)		(2,567)	(2,746)		ND
1.000	Sn	ND	ND		ND		ND	ND		ND
0.005	Sr	27,379	28,536	4	18,725	38 *	1,452	1,471	1	(18)
0.500	Te	ND	ND		ND		ND	ND		ND
0.800	Th	ND	ND		ND		ND	ND		ND
0.005	Ti	478	513		412	15 *	(76)	(83)		322
0.500	Tl	ND	ND		ND		ND	ND		ND
2.000	U	61,811	(69,317)		46,561	28 *	51,491	51,633	0	ND
0.010	V	(28)	ND		(29)		(26)	(32)		(35)
0.500	W	ND	ND		ND		ND	ND		ND
0.010	Y	ND	ND		ND		(24)	(25)		ND
0.020	Zn	(63)	ND		ND		(396)	(368)		ND
0.010	Zr	(33)	ND		ND		ND	ND		(32)

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D256a

Analyzed Date: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D256a

File: m091395d
Reported: 09/15/95
Data Page 1 of 2

Sample Log#	95-07946-H1T-Smp	95-07946-H1T-SmpDil	95-07946-H2T-Dup	95-07948-H1-Smp	95-07948-H2-Dup	95-07946-HCB-Blk
Prep Type	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g	0.1002	0.1002	0.0992	0.0988	0.0876	0.0964
Makeup Vol-mL	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL						
Dil: Vol-mL						
Prep Factor	998.00	998.00	1008.06	1012.15	1141.55	1036.81
Spike ID						
Spike PreDil'n						
ICP Dilution	2.00	10.00	2.00	2.00	2.00	2.00
Dil Fctr	1996.0	9980.0	2016.1	2024.3	2283.1	2073.6
Run Time	16:19	16:15	16:27	17:04	17:12	15:56
ug/g Ag	25.7	68.3	32.2	33.1	37.9	42.2
Al	13068.0	13684.9	10380.2	8607.5	8725.5	1116.4
As	219.9	317.6	214.2	134.3	131.8	221.9
B	459.8	531.7	404.6	1119.4	455.5	385.3
Ba	618.8	665.7	445.5	117.5	120.3	17.5
Be	2.0	3.4	1.8	1.4	1.6	1.3
Bi	3245.0	3511.6	2502.1	1122.9	1174.3	254.6
Ca	11867.2	12099.0	8471.2	7973.2	8038.4	259.9
Cd	57.1	63.0	76.2	14.7	17.7	30.3
Ce	172.9	505.1	193.8	182.6	217.9	255.4
Co	92.8	140.4	88.6	94.0	129.5	91.3
Cr	567.1	577.5	398.0	103.4	118.8	76.6
Cu	63.3	122.0	44.8	247.1	168.5	65.6
Dy	18.5	64.6	24.2	12.8	18.7	45.0
Eu	6.2	17.4	7.1	8.6	9.8	11.0
Fe	29045.1	30298.0	21332.5	44492.7	44702.4	397.1
K	9839294.1	11032545.4	9651609.4	9279674.4	10423958.5	9344261.3
La	55.2	136.5	61.2	56.0	63.5	61.8
Li	127.3	163.1	170.7	18.8	23.4	40.2
Mg	1511.1	1798.2	1199.4	1233.3	1209.1	223.9
Mn	803.2	836.3	643.5	1234.1	1554.4	389.8
Mo	43.3	69.9	40.5	36.5	41.9	39.2
Na	103436.8	113594.2	114856.6	117625.8	117166.5	4504.3
Nd	154.5	413.3	176.1	170.7	199.6	237.6
Ni	160490.5	168109.4	150995.3	4486.8	6067.0	128696.0
P	20096.1	20254.0	28136.8	26870.1	27825.5	363.6
Pb	1140.6	1453.6	901.6	1543.7	1627.8	331.9
Pd	-24.7	757.6	149.1	49.9	133.8	925.7
Rh	229.3	589.5	269.2	141.2	188.5	414.1
Sb	135.2	318.5	147.8	101.9	111.8	186.4
Se	174.7	345.0	183.1	172.3	218.2	203.5
Si	4194.1	4705.6	4532.1	2567.2	2746.3	966.9
Sn	850.3	1858.3	948.9	620.5	783.8	1207.3
Sr	27379.3	28536.1	18725.0	1452.2	1471.5	18.3
Te	196.6	396.4	200.3	159.2	179.1	245.6
Th	888.4	1004.9	703.6	738.3	761.3	99.6
Ti	478.2	513.3	412.1	75.6	83.2	321.7
Tl	156.9	144.0	149.0	124.9	130.5	116.0
U	61810.9	69317.5	46561.1	51491.1	51633.2	4058.9
V	27.9	55.5	28.6	26.5	31.8	34.8
W	248.8	363.0	226.4	111.9	138.1	207.3
Y	19.2	32.6	17.4	23.6	25.4	14.6
Zn	62.8	61.2	22.6	396.5	368.3	-59.6
ug/g Zr	33.4	51.3	2.5	-9.6	-12.2	31.6

Template: TC-KOH

ICP RAW DATA -- IEC Corrected

File: m091395d
Reported: 09/15/95

Raw Data
Data Page 2 of 2

Analyzed: 09/13/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS

Reviewer: MD Thom 9/20/95

Sample ID:		95-07946-H1T-Smp	95-07946-H1T-SmpDil	95-07946-H2T-Dup	95-07948-H1-Smp	95-07948-H2-Dup	95-07946-HCB-Blk
Split ID:							
Run Time:		16:19	16:15	16:27	17:04	17:12	15:56
(ug/mL)	Ag	0.0129	0.0068	0.0160	0.0164	0.0166	0.0204
	Al	6.5470	1.3712	5.1486	4.2521	3.8218	0.5384
	As	0.1102	0.0318	0.1062	0.0664	0.0577	0.1070
	B	0.2303	0.0533	0.2007	0.5530	0.1995	0.1858
	Ba	0.3100	0.0667	0.2210	0.0580	0.0527	0.0084
	Be	0.0010	0.0003	0.0009	0.0007	0.0007	0.0006
	Bi	1.6258	0.3519	1.2410	0.5547	0.5143	0.1228
	Ca	5.9455	1.2123	4.2017	3.9388	3.5208	0.1253
	Cd	0.0286	0.0063	0.0378	0.0072	0.0078	0.0146
	Ce	0.0866	0.0506	0.0961	0.0902	0.0954	0.1232
	Co	0.0465	0.0141	0.0439	0.0465	0.0567	0.0440
	Cr	0.2841	0.0579	0.1974	0.0511	0.0521	0.0370
	Cu	0.0317	0.0122	0.0222	0.1221	0.0738	0.0316
	Dy	0.0093	0.0065	0.0120	0.0063	0.0082	0.0217
	Eu	0.0031	0.0017	0.0035	0.0042	0.0043	0.0053
	Fe	14.5516	3.0359	10.5809	21.9794	19.5796	0.1915
	K	4929.4863	1105.4610	4787.1982	4584.1592	4565.6938	4506.2700
	La	0.0276	0.0137	0.0304	0.0277	0.0278	0.0298
	Li	0.0638	0.0163	0.0847	0.0093	0.0103	0.0194
	Mg	0.7571	0.1802	0.5949	0.6093	0.5296	0.1080
	Mn	0.4024	0.0838	0.3192	0.6096	0.6808	0.1880
	Mo	0.0217	0.0070	0.0201	0.0180	0.0183	0.0189
	Na	51.8218	11.3821	56.9689	58.1072	51.3189	2.1722
	Nd	0.0774	0.0414	0.0874	0.0843	0.0874	0.1146
	Ni	80.4057	16.8446	74.8937	2.2165	2.6573	62.0637
	P	10.0681	2.0295	13.9559	13.2738	12.1875	0.1754
	Pb	0.5714	0.1457	0.4472	0.7626	0.7130	0.1601
	Pd	-0.0124	0.0759	0.0739	0.0246	0.0586	0.4464
	Rh	0.1149	0.0591	0.1335	0.0698	0.0826	0.1997
	Sb	0.0677	0.0319	0.0733	0.0503	0.0490	0.0899
	Se	0.0875	0.0346	0.0908	0.0851	0.0956	0.0982
	Si	2.1013	0.4715	2.2479	1.2682	1.2029	0.4663
	Sn	0.4260	0.1862	0.4706	0.3065	0.3433	0.5822
	Sr	13.7170	2.8593	9.2876	0.7174	0.6445	0.0088
	Te	0.0985	0.0397	0.0994	0.0786	0.0784	0.1184
	Th	0.4451	0.1007	0.3490	0.3647	0.3334	0.0481
	Ti	0.2396	0.0514	0.2044	0.0373	0.0364	0.1551
	Tl	0.0786	0.0144	0.0739	0.0617	0.0571	0.0560
	U	30.9673	6.9456	23.0943	25.4366	22.6153	1.9574
	V	0.0140	0.0056	0.0142	0.0131	0.0139	0.0168
	W	0.1247	0.0364	0.1123	0.0553	0.0605	0.1000
	Y	0.0096	0.0033	0.0086	0.0117	0.0111	0.0070
	Zn	0.0315	0.0061	0.0112	0.1959	0.1613	-0.0287
(ug/mL)	Zr	0.0167	0.0051	0.0013	-0.0047	-0.0053	0.0152

								CCV1 950713H901	1 950713	1 950713	1 950713H901
								95D256A	95D256A	95D256A	95D256A
								9/13/95	9/13/95	9/13/95	9/13/95
Statistical Summary for "CCV1 950713H901"								10:22	13:24	15:21	17:43
(HPS:CCV-1)								CONC	CONC	CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	1801	1846	1891	1936
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		4	0.001	0.002	197			0.003	0.004	-0.001	-0.001
Al	2.000	4	1.898	0.031	2	-0.102	-5.1	1.907	1.852	1.916	1.917
As	2.000	4	1.978	0.015	1	-0.022	-1.1	1.991	1.957	1.980	1.984
B	2.000	4	1.929	0.040	2	-0.071	-3.6	1.939	1.870	1.956	1.950
Ba	1.000	4	0.981	0.019	2	-0.019	-1.9	0.994	0.953	0.989	0.987
Be	1.000	4	0.960	0.027	3	-0.040	-4.0	0.964	0.920	0.977	0.978
Bi	2.000	4	1.927	0.058	3	-0.073	-3.7	1.919	1.847	1.965	1.975
Ca	2.000	4	1.914	0.025	1	-0.086	-4.3	1.941	1.882	1.916	1.918
Cd	1.000	4	0.975	0.014	1	-0.025	-2.5	0.991	0.957	0.979	0.973
Ce		4	0.007	0.013	184			0.012	0.022	-0.002	-0.005
Co	1.000	4	1.017	0.014	1	0.017	1.7	1.036	1.003	1.012	1.016
Cr	0.500	4	0.506	0.010	2	0.006	1.3	0.517	0.492	0.507	0.509
Cu	2.000	4	1.988	0.046	2	-0.012	-0.6	2.018	1.919	2.012	2.004
Dy		4	0.001	0.002	208			0.001	0.004	-0.001	0.000
Eu		4	0.001	0.001	74			0.001	0.002	0.000	0.000
Fe	2.000	4	1.972	0.030	2	-0.028	-1.4	2.010	1.938	1.970	1.969
K	5.000	4	5.084	0.255	5	0.084	1.7	5.242	4.883	5.360	4.852
La		4	0.003	0.004	116			0.005	0.008	-0.001	0.001
Li	2.000	4	1.984	0.073	4	-0.016	-0.8	1.928	1.914	2.049	2.044
Mg	2.000	4	2.057	0.027	1	0.057	2.9	2.090	2.024	2.054	2.062
Mn	1.000	4	1.003	0.017	2	0.003	0.3	1.016	0.977	1.008	1.011
Mo	2.000	4	1.958	0.029	1	-0.042	-2.1	1.997	1.926	1.955	1.955
Na	8.100	4	8.047	0.305	4	-0.053	-0.7	7.752	7.815	8.307	8.313
Nd		4	0.012	0.013	112			0.017	0.027	0.004	-0.002
Ni	2.000	4	2.052	0.030	1	0.052	2.6	2.094	2.023	2.043	2.049
P	5.000	4	4.653	0.095	2	-0.347	-6.9	4.724	4.516	4.707	4.665
Pb	2.000	4	2.033	0.032	2	0.033	1.7	2.079	2.006	2.017	2.029
Pd		4	0.035	0.040	115			0.051	0.084	0.002	0.002
Rh		4	0.014	0.018	127			0.023	0.034	-0.001	0.000
Sb		4	-0.004	0.006	-156			0.000	0.001	-0.012	-0.005
Se	2.000	4	1.949	0.030	2	-0.051	-2.5	1.956	1.905	1.971	1.965
Si	5.000	4	4.920	0.101	2	-0.080	-1.6	4.945	4.772	4.994	4.969
Sn		4	0.030	0.064	211			0.082	0.089	-0.025	-0.026
Sr	2.000	4	2.004	0.053	3	0.004	0.2	2.012	1.941	1.994	2.070
Te		4	-0.011	0.010	-92			-0.003	-0.001	-0.020	-0.018
Th		4	0.003	0.001	42			0.002	0.004	0.001	0.004
Ti		4	0.001	0.001	106			0.001	0.002	0.000	0.000
Tl	2.000	4	1.948	0.026	1	-0.052	-2.6	1.947	1.913	1.975	1.958
U		4	0.133	0.190	143			0.203	0.371	-0.011	-0.030
V	1.000	4	0.951	0.020	2	-0.049	-4.9	0.957	0.921	0.962	0.962
W		4	0.013	0.003	21			0.015	0.014	0.010	0.011
Y		4	0.001	0.001	171			0.001	0.002	0.000	0.000
Zn	1.000	4	1.010	0.009	1	0.010	1.0	1.023	1.005	1.002	1.009
Zr		4	0.000	0.002	1344			0.001	0.002	-0.001	-0.001
TIME		4	10000.000	0.000	0			10000.000	########	########	########

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WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

Statistical Summary for 'MCVA 950728I901'

(MCVA)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag	0.500	10	0.482	0.011	2	-0.018	-3.5
Al	25.000	10	24.383	0.624	3	-0.617	-2.5
As	2.500	10	2.510	0.049	2	0.010	0.4
B	2.000	10	1.956	0.047	2	-0.044	-2.2
Ba	0.500	10	0.495	0.014	3	-0.005	-1.0
Be	0.100	10	0.092	0.003	3	-0.008	-7.5
Bi	25.000	10	24.306	0.639	3	-0.694	-2.8
Ca	25.000	10	24.382	0.464	2	-0.618	-2.5
Cd	0.500	10	0.486	0.008	2	-0.014	-2.9
Ce		10	-0.027	0.022	-79		
Co	1.000	10	0.999	0.019	2	-0.001	-0.1
Cr	1.000	10	0.994	0.017	2	-0.006	-0.6
Cu	1.000	10	0.978	0.027	3	-0.022	-2.2
Dy		10	0.000	0.003	874		
Eu		10	0.002	0.001	34		
Fe	20.000	10	19.830	0.426	2	-0.170	-0.8
K	25.000	10	25.690	1.185	5	0.690	2.8
La		10	0.005	0.004	74		
Li	2.000	10	1.913	0.092	5	-0.087	-4.4
Mg	25.000	10	25.671	0.540	2	0.671	2.7
Mn	0.500	10	0.500	0.011	2	0.000	0.1
Mo	1.000	10	1.002	0.022	2	0.002	0.2
Na	25.000	10	23.960	1.155	5	-1.040	-4.2
Nd		10	0.014	0.017	116		
Ni	1.000	10	1.034	0.013	1	0.034	3.4
P		10	0.058	0.019	33		
Pb	2.500	10	2.540	0.039	2	0.040	1.6
Pd		10	-0.002	0.047	-2707		
Rh		10	0.003	0.022	740		
Sb	2.500	10	2.467	0.051	2	-0.033	-1.3
Se	2.500	10	2.476	0.060	2	-0.025	-1.0
Si	20.000	10	18.448	0.472	3	-1.552	-7.8
Sn		10	-0.061	0.073	-120		
Sr	0.500	10	0.506	0.017	3	0.006	1.3
Te		10	-0.001	0.012	-1028		
Th		10	0.044	0.005	11		
Ti	1.000	10	0.972	0.023	2	-0.028	-2.8
Tl		10	2.500	0.056	2		
U		10	0.081	0.274	338		
V	1.000	10	0.972	0.023	2	-0.028	-2.8
W		10	0.029	0.009	31		
Y		10	0.000	0.001	419		
Zn	1.000	10	0.987	0.019	2	-0.013	-1.3
Zr	2.000	10	1.991	0.049	2	-0.009	-0.5
TIME		10	10000.000	0.000	0		

MCVA 950728I901	A 95072	A 95072	A 95072	A 95072	A 95072	A 95072	A 95072	A 95072	A 95072
95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A
9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95
10:06	11:21	11:56	12:34	13:08	15:04	16:01	16:05	16:50	17:24
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
2161	2206	2251	2296	2341	2386	2431	2476	2521	2566
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.484	0.473	0.471	0.477	0.477	0.484	0.466	0.493	0.500	0.498
24.669	24.146	24.071	24.492	24.314	24.457	22.941	24.507	25.312	24.924
2.546	2.464	2.478	2.499	2.502	2.486	2.426	2.553	2.562	2.577
1.979	1.933	1.930	1.953	1.950	1.961	1.852	1.975	2.021	2.008
0.506	0.493	0.492	0.499	0.497	0.493	0.460	0.495	0.511	0.505
0.093	0.090	0.090	0.091	0.091	0.093	0.089	0.095	0.096	0.096
24.389	23.788	23.719	23.972	23.953	24.502	23.435	24.821	25.293	25.190
24.698	24.131	24.075	24.260	24.324	24.118	23.515	24.752	24.907	25.036
0.494	0.483	0.482	0.485	0.485	0.481	0.470	0.493	0.488	0.495
-0.039	-0.005	-0.027	-0.035	-0.039	-0.044	0.020	-0.017	-0.052	-0.037
1.016	0.994	0.992	0.998	1.002	0.981	0.958	1.009	1.016	1.021
1.012	0.984	0.987	0.991	0.992	0.983	0.960	1.009	1.010	1.015
1.010	0.965	0.963	0.974	0.969	0.989	0.918	0.987	1.010	0.998
-0.001	0.001	0.000	0.000	0.000	-0.002	0.007	0.002	-0.003	0.000
0.002	0.002	0.002	0.002	0.002	0.001	0.004	0.002	0.001	0.002
20.257	19.759	19.719	19.888	19.917	19.562	18.811	19.960	20.198	20.230
25.345	26.046	24.438	26.394	23.896	26.518	27.715	24.944	26.739	24.866
0.004	0.006	0.005	0.004	0.005	0.003	0.016	0.008	0.000	0.005
1.928	1.915	1.880	1.998	1.891	1.974	1.709	1.865	2.052	1.918
26.162	25.580	25.500	25.786	25.732	25.396	24.368	25.801	26.196	26.186
0.508	0.495	0.493	0.497	0.499	0.497	0.480	0.508	0.514	0.515
1.024	0.994	0.994	1.008	1.005	0.984	0.952	1.013	1.023	1.021
24.081	23.984	23.491	25.196	23.591	24.713	21.499	23.355	25.726	23.964
0.009	0.016	0.013	0.009	0.012	0.005	0.056	0.022	-0.008	0.010
1.043	1.021	1.024	1.027	1.037	1.014	1.025	1.049	1.045	1.053
0.034	0.050	0.045	0.060	0.040	0.054	0.085	0.080	0.042	0.083
2.576	2.523	2.511	2.531	2.528	2.489	2.492	2.589	2.565	2.596
-0.021	0.001	0.001	-0.013	-0.008	-0.031	0.119	0.016	-0.062	-0.017
-0.005	0.008	0.004	-0.001	-0.002	-0.014	0.056	0.014	-0.026	-0.003
2.495	2.445	2.432	2.464	2.432	2.444	2.378	2.508	2.547	2.525
2.485	2.427	2.423	2.439	2.448	2.467	2.400	2.545	2.555	2.567
18.561	18.149	18.070	18.293	18.235	18.517	17.618	19.152	19.015	18.870
-0.075	-0.053	-0.075	-0.109	-0.100	-0.120	0.117	-0.002	-0.134	-0.062
0.511	0.498	0.497	0.505	0.503	0.496	0.476	0.511	0.537	0.529
-0.005	0.003	0.001	-0.010	-0.006	-0.010	0.027	0.004	-0.015	-0.002
0.037	0.043	0.042	0.040	0.040	0.046	0.049	0.051	0.047	0.051
0.991	0.967	0.965	0.977	0.977	0.962	0.916	0.977	0.996	0.994
2.491	2.448	2.461	2.526	2.495	2.483	2.402	2.550	2.577	2.570
-0.008	0.085	0.127	-0.064	-0.006	-0.088	0.774	0.239	-0.225	-0.023
0.982	0.957	0.954	0.963	0.964	0.971	0.933	0.990	1.005	1.006
0.025	0.027	0.023	0.021	0.028	0.024	0.049	0.038	0.022	0.034
0.000	0.001	0.001	0.000	0.000	-0.001	0.003	0.001	-0.001	0.000
0.999	0.984	0.980	0.996	0.995	0.969	0.943	0.992	1.004	1.007
2.029	1.978	1.978	2.000	2.004	1.970	1.871	1.997	2.044	2.034
10000.000	########	########	########	########	########	########	########	########	########

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Statistical Summary for 'MCVB 950911H901'

(MCVB)	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag		6	0.002	0.001	55		
Al		6	-0.161	0.020	-12		
As		6	0.001	0.009	736		
B		6	0.007	0.003	48		
Ba		6	0.000	0.000	69		
Be		6	0.000	0.000	5		
Bi		6	0.002	0.005	326		
Ca		6	0.013	0.006	44		
Cd		6	0.001	0.001	47		
Ce	2.000	6	1.960	0.022	1	-0.040	-2.0
Co		6	0.003	0.001	33		
Cr		6	0.003	0.001	44		
Cu		6	0.005	0.011	212		
Dy	2.000	6	1.954	0.039	2	-0.046	-2.3
Eu	2.000	6	1.941	0.037	2	-0.059	-2.9
Fe		6	0.006	0.003	54		
K		6	0.304	0.526	173		
La	2.000	6	1.943	0.029	1	-0.057	-2.8
Li		6	0.002	0.003	130		
Mg		6	0.084	0.005	6		
Mn		6	0.001	0.000	37		
Mo		6	0.000	0.001	348		
Na		6	0.019	0.016	83		
Nd	2.000	6	1.943	0.029	1	-0.057	-2.8
Ni		6	0.011	0.005	43		
P		6	0.001	0.014	1118		
Pb		6	0.050	0.008	16		
Pd	2.000	6	2.134	0.104	5	0.134	6.7
Rh	2.000	6	2.005	0.041	2	0.005	0.3
Sb		6	0.005	0.011	224		
Se		6	0.010	0.011	107		
Si		6	0.084	0.023	27		
Sn	2.000	6	2.031	0.022	1	0.031	1.6
Sr		6	0.001	0.000	39		
Te	2.000	6	1.791	0.019	1	-0.209	-10.4
Th	5.000	6	4.953	0.070	1	-0.047	-0.9
Ti		6	0.001	0.001	80		
Tl		6	-0.001	0.009	-1173		
U	10.000	6	8.398	0.164	2	-1.602	-16.0
V		6	-0.001	0.001	-117		
W	2.000	6	0.502	0.012	2	-1.498	
Y	1.000	6	0.956	0.015	2	-0.044	-4.4
Zn		6	0.002	0.001	33		
Zr		6	-0.011	0.010	-84		
TIME		6	10000.000	0.000	0		

MCVB 950911H901	B 950911	B 950911	B 950911	B 950911	B 950911H901
95D256A	95D256A	95D256A	95D256A	95D256A	95D256A
9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95
10:14	13:15	15:11	15:13	17:31	17:35
CONC	CONC	CONC	CONC	CONC	CONC
2611	2656	2701	2746	2791	2836
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.002	0.003	0.001	0.003	0.001	0.001
-0.163	-0.126	-0.175	-0.159	-0.159	-0.166
0.006	0.013	-0.010	0.005	-0.009	0.003
0.007	0.004	0.010	0.011	0.005	0.003
0.001	0.001	0.000	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
-0.005	0.001	0.003	0.010	0.006	-0.003
0.020	0.021	0.009	0.013	0.009	0.008
0.001	0.001	0.002	0.001	0.001	0.001
1.950	1.941	1.991	1.934	1.978	1.966
0.004	0.004	0.002	0.004	0.002	0.003
0.005	0.004	0.002	0.003	0.002	0.002
0.015	-0.003	0.018	0.014	-0.004	-0.007
1.935	1.909	1.999	1.918	1.968	1.977
1.922	1.898	1.986	1.908	1.971	1.964
0.006	0.013	0.004	0.006	0.005	0.003
0.442	1.013	0.156	0.709	-0.065	-0.429
1.927	1.916	1.979	1.910	1.967	1.959
0.004	0.006	-0.001	0.003	0.001	0.000
0.083	0.090	0.082	0.090	0.077	0.083
0.001	0.001	0.000	0.001	0.000	0.000
0.002	0.002	-0.001	0.001	0.000	-0.002
0.012	0.028	0.002	0.045	0.016	0.010
1.928	1.910	1.980	1.916	1.968	1.959
0.009	0.020	0.009	0.009	0.011	0.007
-0.011	0.015	-0.006	0.022	-0.005	-0.006
0.054	0.056	0.039	0.060	0.050	0.042
1.981	2.028	2.212	2.158	2.223	2.201
1.964	1.950	2.046	1.998	2.045	2.030
0.016	0.018	-0.009	0.006	-0.002	-0.001
0.015	0.029	-0.003	0.012	0.003	0.007
0.093	0.060	0.112	0.107	0.066	0.065
2.063	2.050	2.028	2.030	2.012	2.005
0.001	0.001	0.000	0.000	0.001	0.001
1.801	1.777	1.818	1.764	1.793	1.795
4.917	4.878	5.051	4.885	4.992	4.994
0.002	0.002	0.000	0.001	0.000	0.000
0.003	0.010	0.002	-0.001	-0.003	-0.017
8.676	8.493	8.369	8.347	8.286	8.218
0.000	0.000	-0.002	0.000	-0.002	-0.002
0.495	0.491	0.509	0.503	0.492	0.521
0.958	0.936	0.977	0.942	0.962	0.960
0.002	0.001	0.002	0.002	0.002	0.001
0.001	0.001	-0.017	-0.018	-0.016	-0.019
10000.000	*******	*******	*******	*******	*******

Statistical Summary for 'SRM-1643c 103668'

(MIST:SRM1643c)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)	SRM-1643c 103668	-1643c 10	-1643c 10	-1643c 103668
								95D256A	95D256A	95D256A	95D256A
								9/13/95	9/13/95	9/13/95	9/13/95
								10:18	13:19	15:17	17:39
								CONC	CONC	CONC	CONC
								2971	3016	3061	3106
								(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag	0.002	4	0.001	0.004	450	-0.001	-58.3	0.001	0.006	-0.002	-0.002
Al	0.115	4	0.108	0.012	11	-0.007	-6.0	0.107	0.125	0.100	0.099
As	0.082	4	0.078	0.006	8	-0.004	-4.8	0.080	0.087	0.075	0.072
B	0.119	4	0.117	0.004	3	-0.002	-1.9	0.119	0.111	0.120	0.117
Ba	0.050	4	0.049	0.001	2	-0.001	-2.2	0.049	0.047	0.049	0.049
Be	0.023	4	0.022	0.001	3	-0.001	-5.6	0.022	0.021	0.022	0.022
Bi		4	0.011	0.004	38			0.007	0.010	0.017	0.010
Ca	36.800	4	34.977	0.587	2	-1.823	-5.0	35.432	34.115	35.173	35.190
Cd	0.012	4	0.013	0.000	3	0.000	2.7	0.012	0.013	0.013	0.012
Ce		4	-0.005	0.021	-426			-0.006	0.026	-0.020	-0.018
Co	0.024	4	0.024	0.003	12	0.000	2.1	0.024	0.028	0.022	0.022
Cr	0.019	4	0.022	0.001	3	0.003	14.3	0.022	0.023	0.021	0.021
Cu	0.022	4	0.024	0.003	11	0.002	7.2	0.026	0.024	0.026	0.020
Dy		4	0.000	0.004	-883			-0.001	0.005	-0.003	-0.003
Eu		4	0.001	0.001	95			0.001	0.002	0.000	0.000
Fe	0.107	4	0.117	0.001	1	0.010	9.8	0.119	0.118	0.117	0.116
K	2.300	4	1.990	0.337	17	-0.310	-13.5	2.115	2.332	1.977	1.535
La		4	0.006	0.005	85			0.005	0.014	0.002	0.003
Li	0.017	4	0.013	0.003	20	-0.003	-19.8	0.013	0.017	0.011	0.012
Mg	9.450	4	9.704	0.196	2	0.254	2.7	9.884	9.422	9.755	9.755
Mn	0.035	4	0.035	0.001	2	0.000	-1.1	0.035	0.034	0.035	0.035
Mo	0.104	4	0.103	0.003	2	-0.001	-1.4	0.106	0.104	0.101	0.100
Na	12.190	4	11.537	0.664	6	-0.653	-5.4	11.384	10.664	12.121	11.980
Nd		4	0.011	0.020	183			0.010	0.040	-0.004	-0.001
Ni	0.061	4	0.062	0.003	5	0.001	2.0	0.064	0.065	0.059	0.059
P		4	0.023	0.018	79			0.022	0.049	0.008	0.013
Pb	0.035	4	0.036	0.015	43	0.001	2.5	0.038	0.057	0.026	0.023
Pd		4	0.006	0.068	1201			0.008	0.100	-0.045	-0.041
Rh		4	-0.001	0.029	-5721			-0.002	0.040	-0.021	-0.020
Sb		4	-0.004	0.014	-317			0.003	0.012	-0.016	-0.016
Se	0.013	4	0.012	0.015	125	-0.001	-6.0	0.011	0.033	0.000	0.004
Si		4	0.043	0.015	35			0.053	0.034	0.058	0.026
Sn		4	-0.025	0.097	-389			-0.005	0.105	-0.099	-0.100
Sr	0.264	4	0.260	0.010	4	-0.004	-1.5	0.262	0.247	0.260	0.270
Te		4	-0.001	0.013	-1352			0.000	0.016	-0.015	-0.005
Th		4	-0.008	0.003	-33			-0.011	-0.008	-0.008	-0.005
Ti		4	0.008	0.001	16			0.008	0.010	0.007	0.007
Tl	0.008	4	0.009	0.014	159	0.001	12.7	0.012	0.028	-0.003	-0.001
U		4	0.186	0.353	190			0.226	0.670	-0.084	-0.068
V	0.031	4	0.028	0.002	7	-0.004	-12.0	0.028	0.030	0.026	0.027
W		4	0.010	0.004	47			0.012	0.015	0.006	0.006
Y		4	-0.002	0.001	-92			-0.001	0.000	-0.003	-0.003
Zn	0.074	4	0.086	0.001	1	0.012	15.8	0.087	0.085	0.085	0.086
Zr		4	0.000	0.003	-650			0.000	0.004	-0.002	-0.002
TIME		4	10000.000	0.000	0			10000.000	*******	*******	*******

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WHC-SD-WM-DP-145, REV. 1

Statistical Summary for 'STD1-Blank 108444'

(STD1-Blank)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag		11	0.001	0.002	331		
Al		11	0.007	0.010	138		
As		11	-0.004	0.007	-183		
B		11	0.006	0.005	94		
Ba		11	0.000	0.000	147		
Be		11	0.000	0.000	92		
Bi		11	-0.001	0.007	-1062		
Ca		11	0.001	0.004	417		
Cd		11	0.000	0.001	-202		
Ce		11	0.001	0.013	1608		
Co		11	0.001	0.001	115		
Cr		11	0.001	0.001	134		
Cu		11	0.005	0.004	80		
Dy		11	0.001	0.002	299		
Eu		11	0.000	0.001	300		
Fe		11	0.001	0.002	169		
K		11	0.003	0.496	19851		
La		11	0.001	0.003	258		
Li		11	0.001	0.002	186		
Mg		11	0.006	0.007	110		
Mn		11	0.000	0.000	189		
Mo		11	0.001	0.001	247		
Na		11	0.015	0.021	143		
Nd		11	0.006	0.011	189		
Ni		11	0.003	0.004	133		
P		11	0.008	0.010	132		
Pb		11	0.005	0.011	213		
Pd		11	0.023	0.035	148		
Rh		11	0.006	0.016	253		
Sb		11	0.002	0.008	487		
Se		11	0.000	0.010	-5223		
Si		11	0.062	0.125	202		
Sn		11	0.017	0.046	264		
Sr		11	0.001	0.000	35		
Te		11	0.001	0.006	605		
Th		11	-0.001	0.004	-572		
Ti		11	0.000	0.001	304		
Tl		11	-0.005	0.005	-106		
U		11	0.040	0.189	479		
V		11	0.000	0.001	402		
W		11	0.005	0.004	78		
Y		11	0.000	0.001	434		
Zn		11	0.000	0.000	-1492		
Zr		11	0.000	0.002	386		
TIME		11	10000.000	0.000	0		

STD1-Blank 108444	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1	-Blank 1
95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A
9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95
10:01	10:26	11:31	12:00	12:42	13:27	15:01	15:25	16:13	16:58	17:46
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
3691	3736	3781	3826	3871	3916	3961	4006	4051	4096	4141
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.002	0.002	0.002	-0.001	0.001	0.004	0.003	0.000	-0.001	-0.002	-0.003
0.003	0.006	0.018	-0.004	0.024	0.014	0.014	0.005	0.009	-0.002	-0.009
-0.003	-0.001	-0.007	0.001	0.002	0.007	0.003	-0.008	-0.013	-0.009	-0.014
0.007	0.007	0.002	0.002	0.001	0.004	0.020	0.007	0.004	0.005	0.003
0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	-0.004	-0.004	-0.006	-0.009	0.001	0.016	0.001	-0.002	0.002	-0.005
-0.004	-0.002	-0.001	-0.004	-0.001	0.007	0.007	0.002	0.001	0.001	0.005
0.000	-0.001	0.001	0.000	0.000	-0.001	0.001	-0.001	0.000	-0.001	-0.001
0.004	0.003	0.010	-0.010	0.004	0.017	0.022	0.002	-0.008	-0.019	-0.017
0.001	0.002	0.002	0.000	0.001	0.003	0.003	0.001	0.001	-0.001	0.000
0.000	0.002	0.000	0.001	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.009	0.007	0.002	0.002	0.001	0.005	0.013	0.007	0.004	0.002	0.001
0.000	0.001	0.002	-0.001	0.001	0.004	0.003	0.000	0.000	-0.002	-0.002
0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.000	0.000	-0.001	-0.001
0.000	0.001	0.003	0.000	0.005	0.002	0.002	0.000	0.001	-0.001	-0.002
0.153	0.124	0.448	-0.636	0.630	-0.112	0.611	0.150	0.059	-0.572	-0.826
0.001	0.002	0.002	-0.001	0.003	0.006	0.006	0.001	0.000	-0.004	-0.003
0.002	0.003	0.003	0.001	0.002	0.004	0.001	-0.001	0.000	-0.002	-0.002
0.005	0.004	0.010	-0.001	0.004	0.017	0.021	0.006	0.002	0.002	0.000
0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
-0.001	0.003	0.002	0.000	0.001	0.003	0.001	0.001	-0.001	-0.001	-0.001
0.017	0.022	0.032	-0.001	0.010	0.053	0.042	0.009	0.006	-0.012	-0.015
0.009	0.012	0.014	-0.001	0.005	0.021	0.022	0.006	0.001	-0.012	-0.011
0.000	0.001	0.006	-0.002	0.012	0.003	0.004	0.001	0.003	0.003	0.001
-0.003	0.005	0.004	0.009	-0.006	0.017	0.018	0.009	0.028	-0.001	0.003
0.003	0.009	0.011	-0.008	0.005	0.011	0.028	0.008	0.003	-0.006	-0.008
0.033	0.040	0.044	0.005	0.032	0.073	0.065	0.026	0.005	-0.034	-0.031
0.007	0.017	0.022	-0.004	0.013	0.028	0.026	0.004	-0.004	-0.020	-0.018
0.009	0.006	0.010	0.001	0.002	0.009	0.010	-0.008	-0.009	-0.003	-0.010
0.004	0.010	0.012	0.004	-0.003	0.016	-0.003	-0.004	-0.014	-0.015	-0.011
0.097	0.018	0.005	-0.005	0.000	0.005	0.425	0.027	0.082	0.020	0.005
0.033	0.045	0.055	-0.003	0.017	0.077	0.078	0.011	-0.017	-0.055	-0.051
0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001
0.005	0.007	0.007	-0.002	0.002	0.008	0.014	0.001	-0.005	-0.008	-0.015
-0.001	-0.001	0.000	-0.006	-0.002	-0.001	0.007	-0.007	0.001	0.003	0.000
0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.000	0.000	-0.001	-0.001
-0.012	-0.002	0.000	-0.008	-0.003	0.004	-0.009	0.000	-0.006	-0.011	-0.006
0.098	0.135	0.163	-0.082	0.078	0.316	0.252	0.043	-0.038	-0.296	-0.233
0.001	0.001	0.001	-0.001	0.000	0.002	0.002	0.000	0.000	-0.001	-0.002
0.007	0.009	0.005	0.003	0.002	0.014	0.010	0.002	0.004	0.001	0.001
0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.000	0.000	-0.001	-0.001
-0.001	0.000	0.000	0.000	-0.001	0.001	0.000	0.001	0.000	0.000	0.000
0.000	0.001	0.002	-0.001	0.003	0.002	0.001	0.000	0.000	-0.002	-0.002
10000.000	*******	*******	*******	*******	*******	*******	*******	*******	*******	*******

BEST COPY AVAILABLE WHC-SD-WM-DP-145, REV. 1

Statistical Summary for 'SST-ICS-2 9509081102'
(Interference Check Std - KOH/Ni Fusion)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag		8	0.006	0.003	55		
Al	100.0	8	91.402	1.894	2	-8.598	-8.6
As		8	0.167	0.011	7		
B		8	0.012	0.004	33		
Ba		8	0.003	0.001	22		
Be		8	0.001	0.000	11		
Bi		8	0.092	0.012	13		
Ca		8	0.064	0.005	8		
Cd		8	0.010	0.001	7		
Ce		8	-0.060	0.027	-45		
Co		8	0.016	0.002	16		
Cr		8	0.040	0.003	6		
Cu		8	-0.041	0.006	-14		
Dy		8	0.007	0.003	41		
Eu		8	0.004	0.001	23		
Fe	20.0	8	18.365	0.264	1	-1.635	-8.2
K		8	4092.295	104.430	3		
La		8	0.019	0.004	22		
Li		8	0.011	0.002	23		
Mg		8	0.313	0.020	6		
Mn		8	0.003	0.001	15		
Mo		8	0.017	0.002	10		
Na		8	0.345	0.028	8		
Nd		8	0.040	0.016	39		
Ni	50.0	8	48.187	0.662	1	-1.813	-3.6
P		8	0.118	0.019	16		
Pb		8	0.273	0.017	6		
Pd		8	-0.165	0.051	-31		
Rh		8	0.061	0.023	37		
Sb		8	0.052	0.009	17		
Se		8	0.088	0.014	16		
Si		8	0.147	0.079	54		
Sn		8	0.380	0.078	20		
Sr		8	0.001	0.000	30		
Te		8	0.064	0.013	21		
Th		8	0.660	0.040	6		
Ti		8	0.006	0.001	21		
Tl		8	0.247	0.008	3		
U	50.0	8	45.363	0.961	2	-4.637	-9.3
V		8	0.012	0.002	20		
W		8	0.078	0.012	15		
Y		8	0.007	0.001	13		
Zn		8	-0.025	0.003	-11		
Zr	10.0	8	9.406	0.168	2	-0.594	-5.9
TIME		8	10000.000	0.000	0		

SST-ICS-2 9509081102	S-2 9509	S-2 9509	S-2 9509	S-2 9509	S-2 9509	S-2 9509	S-2 9509081102
95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A	95D256A
9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95	9/13/95
10:10	11:25	12:38	13:11	15:07	16:09	16:54	17:27
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
3331	3376	3421	3466	3511	3556	3601	3646
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.006	0.006	0.002	0.007	0.005	0.012	0.002	0.006
90.784	90.149	92.622	89.783	91.442	89.689	95.416	91.227
0.166	0.156	0.165	0.171	0.163	0.192	0.159	0.163
0.014	0.009	0.006	0.009	0.017	0.016	0.011	0.011
0.003	0.003	0.002	0.003	0.002	0.004	0.002	0.003
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.085	0.090	0.076	0.091	0.085	0.115	0.091	0.104
0.066	0.068	0.064	0.068	0.057	0.072	0.058	0.062
0.010	0.011	0.010	0.010	0.009	0.011	0.010	0.010
-0.048	-0.030	-0.085	-0.056	-0.071	-0.025	-0.105	-0.064
0.016	0.016	0.014	0.016	0.014	0.021	0.013	0.016
0.036	0.037	0.036	0.041	0.040	0.043	0.042	0.040
-0.034	-0.042	-0.047	-0.042	-0.037	-0.034	-0.049	-0.042
0.007	0.007	0.004	0.008	0.005	0.012	0.003	0.008
0.003	0.004	0.003	0.004	0.003	0.005	0.002	0.004
18.409	18.293	18.603	18.232	18.128	18.143	18.893	18.216
4093.364	4025.640	4134.831	3949.663	4159.108	3999.317	4283.692	4091.745
0.020	0.020	0.015	0.021	0.016	0.025	0.012	0.019
0.011	0.013	0.010	0.013	0.007	0.014	0.007	0.011
0.306	0.323	0.312	0.334	0.286	0.345	0.294	0.307
0.004	0.004	0.003	0.004	0.003	0.004	0.003	0.003
0.018	0.017	0.016	0.018	0.015	0.020	0.014	0.017
0.329	0.350	0.330	0.358	0.334	0.400	0.306	0.355
0.041	0.045	0.022	0.045	0.036	0.068	0.018	0.045
48.126	47.939	48.713	48.057	47.284	47.821	49.506	48.849
0.116	0.127	0.095	0.112	0.132	0.148	0.090	0.127
0.280	0.279	0.250	0.277	0.268	0.304	0.253	0.272
-0.131	-0.149	-0.210	-0.144	-0.170	-0.066	-0.252	-0.179
0.057	0.066	0.038	0.070	0.051	0.107	0.034	0.066
0.053	0.057	0.041	0.055	0.045	0.066	0.041	0.056
0.091	0.099	0.074	0.095	0.064	0.106	0.080	0.092
0.150	0.102	0.089	0.100	0.190	0.326	0.104	0.117
0.403	0.400	0.268	0.404	0.346	0.517	0.295	0.409
0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001
0.068	0.066	0.054	0.066	0.053	0.092	0.050	0.063
0.603	0.633	0.627	0.637	0.669	0.700	0.710	0.700
0.006	0.006	0.005	0.007	0.005	0.007	0.004	0.005
0.249	0.248	0.245	0.248	0.232	0.262	0.249	0.243
44.813	44.592	45.484	44.367	45.569	44.980	47.431	45.669
0.012	0.013	0.010	0.013	0.011	0.017	0.010	0.013
0.073	0.069	0.065	0.072	0.085	0.099	0.072	0.087
0.007	0.007	0.006	0.007	0.007	0.009	0.006	0.007
-0.021	-0.022	-0.024	-0.024	-0.028	-0.025	-0.029	-0.027
9.397	9.340	9.559	9.328	9.312	9.225	9.749	9.340
10000.000	########	########	########	########	########	########	########

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Statistical Summary for 'SRM-2709-H @2'
(LCSS - KOH/Ni Fusion)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	SRM-2709-H @2	-2709-H @2
								95D256A	95D256A
								9/13/95	9/13/95
								13:03	17:19
								CONC	CONC
	(ug/g)		(ug/g)	(ug/g)	(%)	(ug/g)	(%)	3241	3286
								(ug/g)	(ug/g)
Ag		2	21.0	29.7	141			-	[41.84]
Al	75000	2	83207.5	1995.3	3	-11792	-15.7	84618.37	81796.65
As	18	2	211.2	25.1	12	194	1093.2	[193.47]	[228.98]
B		2	628.6	185.1	29			497.72	759.52
Ba	968	2	780.8	33.0	4	-187	-19.3	804.14	757.42
Be		2	-	0.0	#####			-	-
Bi		2	-	0.0	#####			-	-
Ca	18900	2	17386.5	975.3	6	-1513	-8.0	18076.19	16696.87
Cd	0.4	2	-	0.0	#####	0	-100.0	-	-
Ce		2	135.9	192.2	141			-	[271.07]
Co	13	2	119.8	8.6	7	106	793.9	[113.79]	[125.85]
Cr	130	2	180.5	1.4	1	50	38.8	[181.47]	[179.48]
Cu	35	2	162.3	8.5	5	128	369.0	[156.27]	[168.27]
Dy	3.5	2	-	0.0	#####	-4	-100.0	-	-
Eu	0.9	2	-	0.0	#####	-1	-100.0	-	-
Fe	35000	2	31104.0	991.3	3	-3896	-11.1	31804.96	30403.03
K	20300	2	9409114	265531	3	9388814	46250.3	9611015	9207214
La	23	2	-	0.0	#####	-23	-100.0	-	-
Li		2	31.5	44.5	141			-	[62.93]
Mg	15100	2	13391.9	324.3	2	-1708	-11.3	13621.19	13162.60
Mn	538	2	1285.2	22.5	2	747	138.9	1301.09	1269.28
Mo	2.0	2	-	0.0	#####	-2	-100.0	-	-
Na	11600	2	12880.8	360.3	3	1281	11.0	13135.54	12625.99
Nd	19	2	198.6	64.2	32	180	945.4	[153.22]	[244.04]
Ni	88	2	18037.7	488.4	3	17950	20397.3	18383.81	17692.31
P	620	2	861.5	88.3	10	242	39.0	[799.09]	[923.82]
Pb	19	2	532.7	75.7	14	514	2718.5	[478.19]	[586.20]
Pd		2	332.3	470.0	141			-	[864.66]
Rh		2	-	0.0	#####			-	-
Sb	7.9	2	185.2	33.9	18	177	2243.8	[161.21]	[209.10]
Se	1.6	2	225.1	18.1	8	224	14240.5	[212.37]	[237.97]
Si	296600	2	261979	5785.1	2	-34621	-11.7	266069.30	257887.97
Sn		2	-	0.0	#####			-	-
Sr	231	2	203.8	2.1	1	-27	-11.8	205.25	202.28
Te		2	-	0.0	#####			-	-
Th	11	2	-	0.0	#####	-11	-100.0	-	-
Tl	3420	2	2665.0	92.8	3	-755	-22.1	2730.60	2599.39
Tl	1	2	-	0.0	#####	-1	-100.0	-	-
U	3	2	-	0.0	#####	-3	-100.0	-	-
V	112	2	120.8	7.2	6	9	7.9	[115.79]	[125.93]
W	2	2	-	0.0	#####	-2	-100.0	-	-
Y	18	2	25.5	3.9	15	7	41.4	[22.72]	[28.19]
Zn	106	2	193.5	18.6	10	88	82.6	[206.70]	[180.36]
Zr	160	2	99.6	4.7	5	-60	-37.8	[96.23]	[102.89]
TIME	10000	0	#DIV/0!	#DIV/0!	#####	#DIV/0!	#DIV/0!		

3-301

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814E101		K.Silvers	K28866	95D256A	ICP1	9/12/95 DKJ
	2	✓	✓		✓		✓				SPC-Blank 108444						
	3	✓	✓		✓						SPC-STD 950921E101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950930E102						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓							✓	PASS	MCVA 950725E701						
	15	✓							✓		SGT-ICP-2 950908E102						
	16	✓							✓	PASS ⊗	MCVB 950911H901						
	17	✓							✓		SRM-1643c 103668						
	18	✓						✓			CCV1 950913I1901						
	19	✓					✓				STD1-Blank 108444						
	20	✓								95-007941-HCB	Method Blank (KOH/Ni Fusion)	2X					
	21	✓								95-007941-H1T	Segment 1 Top "	10X					
	22	✓								95-007941-H1T	" " " "	5X					
	23	✓								95-007941-H1T-PS	" " " Post Digest Spike	5X					
	24	✓								95-007941-H1T	" " " "	2X					
	25	✓								95-007941-H2T	" " " Duplicate "	10X					

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

MATE # WD00360

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\ICP\ICPDATA\AMS\RUNLOG.FJ2 (04-02-93)

⊗ Pd, Te, U, W N/A for QC on MCVB.
DKJ 9/13/95

3-302

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007941-H2T	Segment 1 TOP Duplicate (KOH/Ni Fusion)	2X	K. Silvers	K28866	95D25CA	ICP1	9/13/95 DW
	1	✓								95-007942-H3	Method Blank "	2X					
	1	✓							✓	PASS	MCVA 950728I901						
	1	✓							✓		SST-ICS-2 950908I102						
	1	✓					✓				STD1-Blank 108444						
	1	✓								48.0	I.V. 4 @ 500 ppm 950913I902	10X					
	1	✓								470	" " "						
	1	✓								47.5	H.P. " " 950913H901	10X					
	1	✓								470	" " " "						
	"	✓								477	Std 6 for 4 950830I106						
	"	✓							✓		MCVA 950728I901						
	"	✓					✓				STD1-Blank 108444						
	"	✓								95-007942-H1	Qtr Seg 2A (KOH/Ni Fusion)	10X					
	"	✓								95-007942-H1	" " " "	2X					
	"	✓								95-007942-H2	" " " Duplicate "	10X					
	"	✓								95-007942-H2	" " " " "	2X					
	"	✓								95-007943-H1	" " 2D "	10X					
	"	✓								95-007943-H1	" " " "	2X					
	"	✓								95-007943-H2	" " " Duplicate "	10X					
	"	✓								95-007943-H2	" " " " "	2X					
	"	✓							✓	PASS	MCVA 950728I901						
	"	✓							✓		SST-ICS-2 950908I102						
	"	✓					✓				STD1-Blank 108444						
	"	✓								95-007944-H1	Qtr Seg 3A (KOH/Ni Fusion)	10X					
	"	✓								95-007944-H1	" " " "	2X					

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00580

Initial or Continuing Calibration [V]erification Standard
ADF = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007944-H2	C2tr Seq 3A Duplicate (KelNitrosun)	10X	K.Silvers	KZ9SC6	95D25GA	ICP1	9/13/95AM
	2	✓								95-007944-H2	" " " " "	2X					
	3	✓									SRM-2709-H "	10X					
	4	✓									" " " "	2X					
	5	✓							✓	PASS	MCVA 950728I901						
	6	✓							✓		SST-ICS-2 950908I102						
	7	✓							✓	PASS⊗	MCVB 950911H901						
	8	✓							✓		SRM-1643c 103668						
	9	✓						✓			CCV1 950713H901						
	10	✓					✓				STD1-Blank						
	11	✓				✓	✓				STD1-Blank 108444						
	12	✓				✓					" 2 950830I102						
	13	✓				✓					" 3 3						
	14	✓				✓					" 4 4						
	15	✓				✓					" 5 5						
	16	✓				✓					" 6 6						
	17	✓				✓					" 7 7						
	18	✓				✓					" 8 8						
	19	✓				✓					" 9 9						
	20	✓					✓				" 1-Blank 108444						
	21	✓							✓		MCVA 950728I901						
	22	✓							✓		SST-ICS-2 950908I102						
	23	✓							✓	Fail-Pd Hi	MCVB 950911H901						
	24	✓							✓	PASS⊗	MCVB 95 09114901						
	25	✓									SRM-1643c 103668						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

MATE # WD60560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\ICP\NOVPROG\NAMS\VIUM\LOG1.TJ1 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	✓							✓			CCVI 950713H901		K. Silvers	K28866	95D256A	ECPI	9/13/95 AM
	✓						✓				STD1-Blank 108444						
	✓									95-007945-H3	Method Blank (KOH/Ni Fusion)	2X					
	✓									95-007945-H1	Segment 1 "	100					
	✓									95-007945-H1	" " "	5X					
	✓									95-007945-H1-PS	" " Post Digest Spike "	5X					
	✓									95-007945-H1	" " "	2X					
	✓									95-007945-H2	" " Duplicate "	10X					
	✓									95-007945-H2	" " " "	2X					
	✓									95-007946-HCB	Method Blank "	2X					
	✓								✓	Fail-Low	MCVA 950728I901						
	✓								✓	PASS	MCVA 950728I901						
	✓								✓		SST-ICS-2 950908I102						
	✓						✓				STD1-Blank 108444						
	✓									95-007946-H1T	Qtr Seg 4B Top (KOH/Ni Fusion)	10X					
	✓									95-007946-H1T	" " " " "	2X					
	✓									95-007946-H2T	" " " " Duplicate "	10X					
	✓									95-007946-H2T	" " " " " "	2X					
	✓									95-007947-H1	" " 4C "	10X					
	✓									95-007947-H1	" " " "	2X					
	✓									95-007947-H2	" " " Duplicate "	10X					
	✓									95-007947-H2	" " " " "	2X					
	✓								✓	PASS	MCVA 950728I901						
	✓								✓		SST-ICS-2 950908I102						
	✓						✓				STD1-Blank 108444						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]refile (2 ppm Cu)
Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

ICPAES RUN LOG (ICP -325-405)-1

Note: Blank spaces or lines are permitted.

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007948-H1	Qtr Seg 4D (Koll/Ni Fusion)	10x	K. Silvers	K28866	950256A	ICP1	9/13/95 DAS
	2	✓								95-007948-H1	" " " "	2x					
	3	✓								95-007948-H2	" " " Duplicate "	10x					
	4	✓								95-007948-H2	" " " " "	2x					
	5	✓									SRM-2709-H	10x					
	6	✓									" " "	2x					
	7	✓							✓	PASS	MCVA 950729I901						
	8	✓							✓		SST-ICS-2 950908I102						
	9	✓							✓	~~R~~ Fail-Pd Hi	MCVB 950911H901						
	10	✓							✓	PR-N/A PASSED	MCVB 950911H901						
	11	✓							✓		SRM-1643c 103668						
	12	✓						✓			CCV1 950713H901						
	13	✓					✓				STD 1-Blank 108444						
	14																
	15																
	16																
	17																
	18																
	19																
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I)= [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Analysis Report Summary Wed 09-13-95 05:58:45 PM page 1

ICP-326-403-1
9:0256A
9/13/95 DRO

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D256A	ICP1	09/13/95	09:04	DRS	S	INT
2	SPC-BLK 108444	95D256A	ICP1	09/13/95	09:04	DRS	S	CONC
3	SPC-STD 950831I101	95D256A	ICP1	09/13/95	09:07	DRS	S	INT
4	SPC-STD 950831I101	95D256A	ICP1	09/13/95	09:07	DRS	S	CONC
5	STD1-Blank	95D256A	ICP1	09/13/95	09:20		X	IR
6	STD2	95D256A	ICP1	09/13/95	09:22		X	IR
7	STD3	95D256A	ICP1	09/13/95	09:26		X	IR
8	STD4	95D256A	ICP1	09/13/95	09:30		X	IR
9	STD5	95D256A	ICP1	09/13/95	09:34		X	IR
10	STD6	95D256A	ICP1	09/13/95	09:38		X	IR
11	STD7	95D256A	ICP1	09/13/95	09:42		X	IR
12	STD8	95D256A	ICP1	09/13/95	09:46		X	IR
13	STD9	95D256A	ICP1	09/13/95	09:50		X	IR
14	STD1-Blank 108444	95D256A	ICP1	09/13/95	10:01	DRS	S	CONC
15	MCVA 950728I901	95D256A	ICP1	09/13/95	10:06	DRS	Q	CONC
16	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	10:10	DRS	S	CONC
17	MCVB 950911H901	95D256A	ICP1	09/13/95	10:14	DRS	Q	CONC
18	SRM-1643c 103668	95D256A	ICP1	09/13/95	10:18	DRS	Q	CONC
19	CCV1 950713H901	95D256A	ICP1	09/13/95	10:22	DRS	S	CONC
20	STD1-Blank 108444	95D256A	ICP1	09/13/95	10:26	DRS	S	CONC
21	95-007941-HCB @2	95D256A	ICP1	09/13/95	10:45	DRS	S	CONC
22	95-007941-H1T @10	95D256A	ICP1	09/13/95	10:52	DRS	S	CONC
23	95-007941-H1T @5	95D256A	ICP1	09/13/95	10:56	DRS	S	CONC
24	95-007941-H1T-PS @5	95D256A	ICP1	09/13/95	11:00	DRS	S	CONC
25	95-007941-H1T @2	95D256A	ICP1	09/13/95	11:04	DRS	S	CONC
26	95-007941-H2T @10	95D256A	ICP1	09/13/95	11:08	DRS	S	CONC
27	95-007941-H2T @2	95D256A	ICP1	09/13/95	11:12	DRS	S	CONC
28	95-007942-H3 @2	95D256A	ICP1	09/13/95	11:17	DRS	S	CONC
29	MCVA 950728I901	95D256A	ICP1	09/13/95	11:21	DRS	Q	CONC
30	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	11:25	DRS	S	CONC
31	STD1-Blank 108444	95D256A	ICP1	09/13/95	11:31	DRS	S	CONC
32	I.V. U @500 PPM @10	95D256A	ICP1	09/13/95	11:35	DRS	S	CONC
33	I.V. U @500 PPM	95D256A	ICP1	09/13/95	11:39	DRS	S	CONC
34	H.P. U @500 PPM @10	95D256A	ICP1	09/13/95	11:43	DRS	S	CONC
35	H.P. U @500 PPM	95D256A	ICP1	09/13/95	11:47	DRS	S	CONC
36	STD6 950830I106	95D256A	ICP1	09/13/95	11:52	DRS	S	CONC
37	MCVA 950728I901	95D256A	ICP1	09/13/95	11:56	DRS	Q	CONC
38	STD1-Blank 108444	95D256A	ICP1	09/13/95	12:00	DRS	S	CONC
39	95-007942-H1 @10	95D256A	ICP1	09/13/95	12:02	DRS	S	CONC
40	95-007942-H1 @2	95D256A	ICP1	09/13/95	12:05	DRS	S	CONC
41	95-007942-H2 @10	95D256A	ICP1	09/13/95	12:09	DRS	S	CONC
42	95-007942-H2 @2	95D256A	ICP1	09/13/95	12:13	DRS	S	CONC
43	95-007943-H1 @10	95D256A	ICP1	09/13/95	12:17	DRS	S	CONC
44	95-007943-H1 @2	95D256A	ICP1	09/13/95	12:21	DRS	S	CONC
45	95-007943-H2 @10	95D256A	ICP1	09/13/95	12:25	DRS	S	CONC
46	95-007943-H2 @2	95D256A	ICP1	09/13/95	12:29	DRS	S	CONC
47	MCVA 950728I901	95D256A	ICP1	09/13/95	12:34	DRS	Q	CONC
48	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	12:38	DRS	S	CONC
49	STD1-Blank 108444	95D256A	ICP1	09/13/95	12:42	DRS	S	CONC
50	95-007944-H1 @10	95D256A	ICP1	09/13/95	12:44	DRS	S	CONC
51	95-007944-H1 @2	95D256A	ICP1	09/13/95	12:48	DRS	S	CONC
52	95-007944-H2 @10	95D256A	ICP1	09/13/95	12:51	DRS	S	CONC
53	95-007944-H2 @2	95D256A	ICP1	09/13/95	12:55	DRS	S	CONC

Analysis Report Summary Wed 09-13-95 05:58:45 PM page 2

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	SRM-2709-H @10	95D256A	ICP1	09/13/95	13:00	DRS	S	CONC
55	SRM-2709-H @2	95D256A	ICP1	09/13/95	13:03	DRS	S	CONC
56	MCVA 950728I901	95D256A	ICP1	09/13/95	13:08	DRS	Q	CONC
57	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	13:11	DRS	S	CONC
58	MCVB 950911H901	95D256A	ICP1	09/13/95	13:15	DRS	Q	CONC
59	SRM-1643c 103668	95D256A	ICP1	09/13/95	13:19	DRS	Q	CONC
60	CCV1 950713H901	95D256A	ICP1	09/13/95	13:24	DRS	S	CONC
61	STD1-Blank 108444	95D256A	ICP1	09/13/95	13:27	DRS	S	CONC
62	STD1-Blank	95D256A	ICP1	09/13/95	14:25		X	IR
63	STD2	95D256A	ICP1	09/13/95	14:27		X	IR
64	STD3	95D256A	ICP1	09/13/95	14:31		X	IR
65	STD4	95D256A	ICP1	09/13/95	14:34		X	IR
66	STD5	95D256A	ICP1	09/13/95	14:38		X	IR
67	STD6	95D256A	ICP1	09/13/95	14:42		X	IR
68	STD7	95D256A	ICP1	09/13/95	14:46		X	IR
69	STD8	95D256A	ICP1	09/13/95	14:50		X	IR
70	STD9	95D256A	ICP1	09/13/95	14:54		X	IR
71	STD1-Blank 108444	95D256A	ICP1	09/13/95	15:01	DRS	S	CONC
72	MCVA 950728I901	95D256A	ICP1	09/13/95	15:04	DRS	Q	CONC
73	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	15:07	DRS	S	CONC
74	MCVB 950911H901	95D256A	ICP1	09/13/95	15:11	DRS	Q	CONC
75	MCVB 950911H901	95D256A	ICP1	09/13/95	15:13	DRS	Q	CONC
76	SRM-1643c 103668	95D256A	ICP1	09/13/95	15:17	DRS	Q	CONC
77	CCV1 950713H901	95D256A	ICP1	09/13/95	15:21	DRS	S	CONC
78	STD1-Blank 108444	95D256A	ICP1	09/13/95	15:25	DRS	S	CONC
79	95-007945-H3 @2	95D256A	ICP1	09/13/95	15:30	DRS	S	CONC
80	95-007945-H1 @10	95D256A	ICP1	09/13/95	15:33	DRS	S	CONC
81	95-007945-H1 @5	95D256A	ICP1	09/13/95	15:37	DRS	S	CONC
82	95-007945-H1-PS @5	95D256A	ICP1	09/13/95	15:41	DRS	S	CONC
83	95-007945-H1 @2	95D256A	ICP1	09/13/95	15:44	DRS	S	CONC
84	95-007945-H2 @10	95D256A	ICP1	09/13/95	15:48	DRS	S	CONC
85	95-007945-H2 @2	95D256A	ICP1	09/13/95	15:52	DRS	S	CONC
86	95-007946-HCB @2	95D256A	ICP1	09/13/95	15:56	DRS	S	CONC
87	MCVA 950728I901	95D256A	ICP1	09/13/95	16:01	DRS	Q	CONC
88	MCVA 950728I901	95D256A	ICP1	09/13/95	16:05	DRS	Q	CONC
89	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	16:09	DRS	S	CONC
90	STD1-Blank 108444	95D256A	ICP1	09/13/95	16:13	DRS	S	CONC
91	95-007946-H1T @10	95D256A	ICP1	09/13/95	16:15	DRS	S	CONC
92	95-007946-H1T @2	95D256A	ICP1	09/13/95	16:19	DRS	S	CONC
93	95-007946-H2T @10	95D256A	ICP1	09/13/95	16:23	DRS	S	CONC
94	95-007946-H2T @2	95D256A	ICP1	09/13/95	16:27	DRS	S	CONC
95	95-007947-H1 @10	95D256A	ICP1	09/13/95	16:31	DRS	S	CONC
96	95-007947-H1 @2	95D256A	ICP1	09/13/95	16:35	DRS	S	CONC
97	95-007947-H2 @10	95D256A	ICP1	09/13/95	16:39	DRS	S	CONC
98	95-007947-H2 @2	95D256A	ICP1	09/13/95	16:43	DRS	S	CONC
99	MCVA 950728I901	95D256A	ICP1	09/13/95	16:50	DRS	Q	CONC
100	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	16:54	DRS	S	CONC
101	STD1-Blank 108444	95D256A	ICP1	09/13/95	16:58	DRS	S	CONC
102	95-007948-H1 @10	95D256A	ICP1	09/13/95	17:00	DRS	S	CONC
103	95-007948-H1 @2	95D256A	ICP1	09/13/95	17:04	DRS	S	CONC
104	95-007948-H2 @10	95D256A	ICP1	09/13/95	17:08	DRS	S	CONC
105	95-007948-H2 @2	95D256A	ICP1	09/13/95	17:12	DRS	S	CONC
106	SRM-2709-H @10	95D256A	ICP1	09/13/95	17:16	DRS	S	CONC
107	SRM-2709-H @2 "H"	95D256A	ICP1	09/13/95	17:19	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	MCVA 950728I901	95D256A	ICP1	09/13/95	17:24	DRS	Q	CONC
109	SST-ICS-2 950908I102	95D256A	ICP1	09/13/95	17:27	DRS	S	CONC
110	MCVB 950911H901	95D256A	ICP1	09/13/95	17:31	DRS	Q	CONC
111	MCVB 950911H901	95D256A	ICP1	09/13/95	17:35	DRS	Q	CONC
112	SRM-1643c 103668	95D256A	ICP1	09/13/95	17:39	DRS	Q	CONC
113	CCV1 950713H901	95D256A	ICP1	09/13/95	17:43	DRS	S	CONC
114	STD1-Blank 108444	95D256A	ICP1	09/13/95	17:46	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6416.33	2047.67	1618.67	1028.33	300.667	169
2	SPC-BLK 108444	.0053	.0176	.0065	-.0028	.0012	.0001
3	SPC-STD 950831I101	6508.67	2077	1692.67	1089	301.333	169.333
4	SPC-STD 950831I101	.0082	.0144	.0334	.0029	.0012	.0001
5	STD1-Blank	.64443	.2055	.1653	.10213	.03023	.01689
6	STD2					8.04776	
7	STD3		73.2661		49.6909		
8	STD4						
9	STD5			27.0093			
10	STD6						
11	STD7						1.85876
12	STD8	29.8814					
13	STD9						
14	STD1-Blank 108444	.0016	.0034	-.0033	.0074	.0001	.0000
15	MCVA 950728I901	.4837	24.67	2.546	1.979	.5057	.0930
16	SST-ICS-2 950908I102	.0059	90.78	.1658	.0137	.0025	.0010
17	MCVB 950911H901	.0015	-.1832	.0058	.0074	.0005	.0003
18	SRM-1643c 103668	.0010	.1067	.0795	.1188	.0495	.0221
19	CCV1 950713H901	.0026	1.907	1.991	1.939	.9944	.9638
20	STD1-Blank 108444	.0017	.0064	-.0014	.0066	.0003	.0001
21	95-007941-HDB @2	.0112	.4620	.0462	.1765	.0055	.0003
22	95-007941-H1T @10	.0084	14.18	.0431	.0457	.0038	.0003
23	95-007941-H1T @5	.0091	28.19	.0680	.0561	.0063	.0003
24	95-007941-H1T-PS @5	.0122	36.64	.0775	.0826	.0065	.0006
25	95-007941-H1T @2	.0093	68.17	.1417	.1926	.0121	.0005
26	95-007941-H2T @10	.0098	13.76	.0407	.0442	.0032	.0003
27	95-007941-H2T @2	.0094	67.64	.1141	.1860	.0083	.0004
28	95-007942-H3 @2	.0152	.1934	.0483	.2231	.0046	.0003
29	MCVA 950728I901	.4734	24.15	2.464	1.933	.4932	.0907
30	SST-ICS-2 950908I102	.0062	90.15	.1558	.0091	.0026	.0010
31	STD1-Blank 108444	.0021	.0187	-.0068	.0022	.0005	.0001
32	I.V. U @500 PPM @10	.0062	-.1305	.0215	-.0034	.0008	.0006
33	I.V. U @500 PPM	.0154	-1.468	.1318	-.0681	.0004	.0046
34	H.P. U @500 PPM @10	.0056	-.1283	.0148	-.0043	.0006	.0006
35	H.P. U @500 PPM	.0149	-1.453	.1335	-.0705	.0008	.0046
36	STD6 950830I106	.0124	-1.475	.1213	-.0743	.0000	.0045
37	MCVA 950728I901	.4714	24.07	2.478	1.930	.4919	.0901
38	STD1-Blank 108444	-.0006	-.0039	.0007	.0017	-.0001	.0000
39	95-007942-H1 @10	.0062	1.024	.0115	.0768	.0013	.0001
40	95-007942-H1 @2	.0119	4.796	.0438	.3446	.0034	.0003
41	95-007942-H2 @10	.0044	1.229	.0099	.0208	.0011	.0001
42	95-007942-H2 @2	.0119	5.794	.0344	.0827	.0038	.0003
43	95-007943-H1 @10	.0046	24.83	.0220	.0241	.0024	.0002
44	95-007943-H1 @2	.0118	119.3	.1395	.1060	.0096	.0006
45	95-007943-H2 @10	.0066	22.17	.0369	.0254	.0025	.0002
46	95-007943-H2 @2	.0113	109.5	.1184	.1048	.0081	.0005
47	MCVA 950728I901	.4769	24.49	2.499	1.953	.4993	.0908
48	SST-ICS-2 950908I102	.0024	92.62	.1652	.0062	.0020	.0009
49	STD1-Blank 108444	.0012	.0237	.0020	.0012	.0002	.0000
50	95-007944-H1 @10	.0055	4.831	.0113	.1439	.0026	.0001
51	95-007944-H1 @2	.0134	22.63	.0584	.6593	.0098	.0004
52	95-007944-H2 @10	.0086	4.602	.0168	.0648	.0035	.0003
53	95-007944-H2 @2	.0140	22.80	.0595	.2950	.0110	.0004

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	SRM-2709-H @10	.0085	6.592	.0302	.0551	.0844	.0007
55	SRM-2709-H @2	.0136	32.02	.0958	.2466	.3985	.0030
56	MCVA 950728I901	.4772	24.31	2.502	1.950	.4970	.0909
57	SST-ICS-2 950908I102	.0069	89.78	.1711	.0091	.0028	.0010
58	MCVB 950911H901	.0033	-.1263	.0130	.0043	.0007	.0003
59	SRM-1643c 103668	@.0064	@.1254	@.0865	@.1111	.0471	@.0208
60	CCV1 950713H901	.0039	1.852	1.957	1.870	.9530	.9198
61	STD1-Blank 108444	.0036	.0144	.0075	.0039	.0007	.0001
62	STD1-Blank	.66036	.20956	.16663	.10266	.03079	.01713
63	STD2					7.47143	
64	STD3		68.0084		46.0663		
65	STD4						
66	STD5			25.1289			
67	STD6						
68	STD7						
69	STD8	27.3007					1.66963
70	STD9						
71	STD1-Blank 108444	.0026	.0144	.0033	.0202	.0007	.0001
72	MCVA 950728I901	.4839	24.46	2.486	1.961	.4935	.0930
73	SST-ICS-2 950908I102	.0046	91.44	.1627	.0173	.0025	.0011
74	MCVB 950911H901	.0010	-.1749	-.0101	.0096	.0002	.0003
75	MCVB 950911H901	.0031	-.1590	.0050	.0112	.0009	.0003
76	SRM-1643c 103668	@-.0021	@.0999	@.0745	.1202	.0489	.0224
77	CCV1 950713H901	-.0009	1.916	1.980	1.956	.9895	.9775
78	STD1-Blank 108444	-.0000	.0047	-.0076	.0065	.0004	.0001
79	95-007945-H3 @2	.0131	.2114	.0314	.6234	.0035	.0003
80	95-007945-H1 @10	.0033	1.704	.0084	.0381	.0313	.0002
81	95-007945-H1 @5	.0065	3.381	.0250	.0720	.0609	.0003
82	95-007945-H1-PS @5	.0108	12.43	.0476	.0695	.0598	.0007
83	95-007945-H1 @2	.0171	7.874	.0576	.1579	.1385	.0007
84	95-007945-H2 @10	.0046	1.896	.0122	.0547	.0363	.0002
85	95-007945-H2 @2	.0191	8.402	.0627	.2284	.1536	.0009
86	95-007946-HCB @2	.0204	.5384	.1070	.1858	.0084	.0006
87	MCVA 950728I901	.4664	22.94	2.426	1.852	.4603	@.0892
88	MCVA 950728I901	.4927	24.51	2.553	1.975	.4950	.0948
89	SST-ICS-2 950908I102	.0118	89.69	.1919	.0164	.0038	.0013
90	STD1-Blank 108444	-.0006	.0086	-.0130	.0042	.0001	.0000
91	95-007946-H1T @10	.0068	1.371	.0318	.0533	.0667	.0003
92	95-007946-H1T @2	.0129	6.547	.1102	.2303	.3100	.0010
93	95-007946-H2T @10	.0074	1.102	.0297	.0470	.0485	.0003
94	95-007946-H2T @2	.0160	5.149	.1062	.2007	.2210	.0009
95	95-007947-H1 @10	.0058	.8473	.0144	.1009	.0110	.0002
96	95-007947-H1 @2	.0213	3.896	.0632	.4507	.0476	.0007
97	95-007947-H2 @10	.0059	1.160	.0160	.0902	.0155	.0002
98	95-007947-H2 @2	.0226	5.172	.0828	.3922	.0651	.0009
99	MCVA 950728I901	.4998	25.31	2.562	2.021	.5108	.0962
100	SST-ICS-2 950908I102	.0016	95.42	.1586	.0108	.0019	.0011
101	STD1-Blank 108444	-.0023	-.0019	-.0088	.0051	-.0001	.0000
102	95-007948-H1 @10	.0026	.9191	.0140	.1230	.0129	.0001
103	95-007948-H1 @2	.0164	4.252	.0664	.5530	.0580	.0007
104	95-007948-H2 @10	.0073	.8052	.0201	.0449	.0121	.0003
105	95-007948-N2 @2	.0166	3.822	.0577	.1995	.0527	.0007
106	SRM-2709-H @10	.0069	6.874	.0220	.0892	.0877	.0008
107	SRM-2709-H @2	.0208	30.62	.1135	.3763	.3753	.0032

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#	Sample Name	Ag	Al	As	B	Ba	Be
108	MCVA 950728I901	.4982	24.92	2.577	2.008	.5047	.0964
109	SST-ICS-2 950908I102	.0063	91.33	.1628	.0108	.0027	.0011
110	MCVB 950911H901	.0014	-.1593	-.0094	.0048	.0004	.0003
111	MCVB 950911H901	.0009	-.1658	.0031	.0029	.0000	.0003
112	SRM-1643c 103668	@-.0019	@.0986	@.0722	@.1170	.0487	.0223
113	CCV1 950713H901	-.0008	1.917	1.984	1.950	.9869	.9781
114	STD1-Blank 108444	-.0026	-.0089	-.0139	.0028	-.0003	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1414.67	1233.33	432.667	6155.67	1388.67	456.333
2	SPC-BLK 108444	.0157	.0051	.0017	.0389	.0036	-.0003
3	SPC-STD 950831I101	1655.67	1214.67	451	6181.33	1397	475.333
4	SPC-STD 950831I101	-.0002	-.0009	.0033	.0437	.0046	.0027
5	STD1-Blank	.14266	.12383	.04346	.61966	.13933	.04586
6	STD2					17.3862	12.6999
7	STD3		78.1331	9.94053			
8	STD4						
9	STD5				24.8285		
10	STD6						
11	STD7						
12	STD8	26.9059					
13	STD9						
14	STD1-Blank 108444	.0024	-.0036	-.0002	.0044	.0012	.0004
15	MCVA 950728I901	24.39	24.70	.4941	-.0393	1.016	1.012
16	SST-ICS-2 950908I102	.0850	.0664	.0103	-.0482	.0163	.0359
17	MCVB 950911H901	-.0055	.0202	.0005	1.950	.0040	.0053
18	SRM-1643c 103668	.0071	35.43	.0122	-.0084	.0238	.0221
19	CCV1 950713H901	1.919	1.941	.9908	.0121	1.036	.5170
20	STD1-Blank 108444	-.0045	-.0021	-.0006	.0034	.0017	.0022
21	95-007941-HCB @2	.0423	.0867	.0120	.0571	.0214	.0194
22	95-007941-H1T @10	.0386	.0650	.0034	.0496	.0115	.0195
23	95-007941-H1T @5	.0711	.1501	.0064	.0539	.0173	.0319
24	95-007941-H1T-PS @5	.0828	4.759	.2408	.0651	.0194	1.440
25	95-007941-H1T @2	.1598	.3714	.0122	.0467	.0293	.0736
26	95-007941-H2T @10	.0220	.0376	.0038	.0575	.0117	.0190
27	95-007941-H2T @2	.0589	.2244	.0140	.0365	.0229	.0779
28	95-007942-H3 @2	.0329	.1373	.0047	.0930	.0535	.0217
29	MCVA 950728I901	23.79	24.13	.4827	-.0049	.9939	.9839
30	SST-ICS-2 950908I102	.0905	.0678	.0111	-.0296	.0164	.0367
31	STD1-Blank 108444	-.0037	-.0014	.0007	.0104	.0019	.0003
32	I.V. U @500 PPM @10	-.0158	.0495	.0015	.0456	.0066	.0016
33	I.V. U @500 PPM	-.1653	.5571	-.0038	.1627	.0170	.0067
34	H.P. U @500 PPM @10	-.0131	.0425	.0006	.0407	.0059	.0019
35	H.P. U @500 PPM	-.1472	.5532	-.0041	.1742	.0169	.0081
36	STD6 950830I106	-.1670	.5505	-.0057	.1577	.0151	.0059
37	MCVA 950728I901	23.72	24.08	.4824	-.0275	.9923	.9866
38	STD1-Blank 108444	-.0063	-.0040	-.0001	-.0101	-.0003	.0005
39	95-007942-H1 @10	.0095	.0005	.0006	.0316	.0077	.0100
40	95-007942-H1 @2	.0301	1.109	.0037	.0600	.0254	.0418
41	95-007942-H2 @10	-.0064	.0169	.0025	.0160	.0067	.0144
42	95-007942-H2 @2	.0256	1.200	.0052	.0477	.0231	.0679
43	95-007943-H1 @10	.0083	.0581	.0020	.0217	.0112	.0634

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
44	95-007943-H1 @2	.0427	1.437	.0053	.0470	.0449	.2983
45	95-007943-H2 @10	.0109	.0365	.0022	.0332	.0137	.0599
46	95-007943-H2 @2	.0428	1.448	.0075	.0379	.0512	.2819
47	MCVA 950728I901	23.97	24.26	.4845	-.0351	.9977	.9911
48	SST-ICS-2 950908I102	.0760	.0637	.0103	-.0845	.0136	.0381
49	STD1-Blank 108444	-.0088	-.0014	-.0001	.0037	.0010	.0010
50	95-007944-H1 @10	.0064	.0260	.0016	.0225	.0100	.0216
51	95-007944-H1 @2	.0363	.6858	.0039	.0603	.0380	.0992
52	95-007944-H2 @10	.0078	.0343	.0031	.0484	.0116	.0267
53	95-007944-H2 @2	.0394	.7352	.0048	.0561	.0358	.1263
54	SRM-2709-H @10	.0146	1.716	.0031	.0472	.0161	.0195
55	SRM-2709-H @2	.0546	8.957	.0092	.0795	.0563	.0899
56	MCVA 950728I901	23.95	24.32	.4848	-.0388	1.002	.9923
57	SST-ICS-2 950908I102	.0907	.0684	.0102	-.0556	.0165	.0410
58	MCVB 950911H901	.0006	.0213	.0015	1.941	.0043	.0037
59	SRM-1643c 103668	.0098	034.12	.0128	.0261	0.0282	0.0226
60	CCV1 950713H901	1.847	1.882	.9565	.0223	1.003	.4925
61	STD1-Blank 108444	.0009	.0074	-.0005	.0173	.0032	.0017
62	STD1-Blank	.14186	.126	.04383	.63246	.14163	.04656
63	STD2					16.4178	11.7275
64	STD3		73.0797	9.28896			
65	STD4						
66	STD5				22.7733		
67	STD6						
68	STD7						
69	STD8	24.3002					
70	STD9						
71	STD1-Blank 108444	.0164	.0069	.0007	.0215	.0028	.0007
72	MCVA 950728I901	24.50	24.12	.4806	-.0443	.9811	.9830
73	SST-ICS-2 950908I102	.0848	.0571	.0087	-.0713	.0141	.0399
74	MCVB 950911H901	.0026	.0086	.0020	1.991	.0017	.0016
75	MCVB 950911H901	.0096	.0126	.0008	1.934	.0037	.0028
76	SRM-1643c 103668	.0168	035.17	.0129	-.0201	0.0218	0.0213
77	CCV1 950713H901	1.965	1.916	.9788	-.0024	1.012	.5073
78	STD1-Blank 108444	.0012	.0017	-.0012	.0019	.0010	.0003
79	95-007945-H3 @2	.0454	.0890	.0057	.0691	.0329	.0167
80	95-007945-H1 @10	.1454	1.279	.0028	.0193	.0093	.0712
81	95-007945-H1 @5	.2924	2.575	.0026	.0428	.0189	.1423
82	95-007945-H1-PS @5	.3066	7.145	.2462	.0612	.0223	1.556
83	95-007945-H1 @2	.6889	6.072	.0085	.0889	.0434	.3303
84	95-007945-H2 @10	.1796	1.459	.0013	.0312	.0103	.0722
85	95-007945-H2 @2	.8025	6.684	.0069	.1255	.0417	.3194
86	95-007946-HCB @2	.1228	.1253	.0146	.1232	.0440	.0369
87	MCVA 950728I901	23.44	23.52	.4696	.0203	.9579	.9603
88	MCVA 950728I901	24.82	24.75	.4933	-.0166	1.009	1.009
89	SST-ICS-2 950908I102	.1149	.0722	.0111	-.0250	.0210	.0428
90	STD1-Blank 108444	-.0018	.0015	-.0000	-.0075	.0005	-.0004
91	95-007946-H1T @10	.3519	1.212	.0063	.0506	.0141	.0579
92	95-007946-H1T @2	1.626	5.945	.0286	.0866	.0465	.2841
93	95-007946-H2T @10	.2703	.8670	.0091	.0540	.0119	.0437
94	95-007946-H2T @2	1.241	4.202	.0378	.0961	.0439	.1974
95	95-007947-H1 @10	.1143	1.774	.0021	.0359	.0127	.0106
96	95-007947-H1 @2	.4780	8.504	.0110	.1100	.0523	.0489
97	95-007947-H2 @10	.1563	2.438	.0038	.0373	.0133	.0145

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
98	95-007947-H2 @2	.6692	11.21	.0091	.1355	.0534	.0570
99	MCVA 950728I901	25.29	24.91	.4884	-.0523	1.016	1.010
100	SST-ICS-2 950908I102	.0906	.0578	.0099	-.1048	.0130	.0424
101	STD1-Blank 108444	.0023	.0007	-.0010	-.0191	-.0007	.0002
102	95-007948-H1 @10	.1258	.8160	.0021	.0109	.0109	.0116
103	95-007948-H1 @2	.5547	3.939	.0072	.0902	.0465	.0511
104	95-007948-H2 @10	.1170	.7073	.0023	.0554	.0160	.0116
105	95-007948-N2 @2	.5144	3.521	.0078	.0954	.0567	.0521
106	SRM-2709-H @10	.0353	1.794	.0039	.0481	.0171	.0209
107	SRM-2709-H @2	.0941	8.273	.0106	.1347	.0624	.0889
108	MCVA 950728I901	25.19	25.04	.4950	-.0365	1.021	1.015
109	SST-ICS-2 950908I102	.1037	.0622	.0103	-.0636	.0163	.0400
110	MCVB 950911H901	.0055	.0094	.0008	1.978	.0021	.0022
111	MCVB 950911H901	-.0027	.0081	.0011	1.966	.0032	.0022
112	SRM-1643c 103668	.0096	035.19	.0122	-.0177	0.0221	0.0210
113	CCV1 950713H901	1.975	1.918	.9728	-.0045	1.016	.5087
114	STD1-Blank 108444	-.0052	.0049	-.0013	-.0169	-.0002	-.0004

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	448.333	1901.33	331.333	548	2131.67	970.667
2	SPC-BLK 108444	.0017	.0041	.0014	.0033	1.380	.0072
3	SPC-STD 950831I101	23913	2143.33	331.667	604	2141	975
4	SPC-STD 950831I101	10.43	.0016	.0014	.0030	1.533	.0085
5	STD1-Blank	.04549	.1911	.0333	.0551	.21439	.09766
6	STD2	4.52216			73.8672		
7	STD3					3.04399	
8	STD4		49.0518	11.3265			6.19916
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0088	.0004	.0002	.0003	.1531	.0009
15	MCVA 950728I901	1.010	-.0010	.0019	20.26	25.35	.0038
16	SST-ICS-2 950908I102	-.0337	.0068	.0035	18.41	4093.	.0200
17	MCVB 950911H901	.0149	1.935	1.922	.0063	.4418	1.927
18	SRM-1643c 103668	.0263	-.0008	.0010	.1193	2.115	.0052
19	CCV1 950713H901	2.018	.0015	.0011	2.010	5.242	.0045
20	STD1-Blank 108444	.0066	.0011	.0005	.0007	.1237	.0020
21	95-007941-HCB @2	-.0039	.0088	.0026	.2920	4794.	.0163
22	95-007941-H1T @10	.0051	.0078	.0023	.1650	1069.	.0130
23	95-007941-H1T @5	.0055	.0091	.0025	.3212	2086.	.0156
24	95-007941-H1T-PS @5	-.0011	.0078	.0029	.3171	2066.	.0191
25	95-007941-H1T @2	-.0036	.0108	.0025	.7477	4873.	.0166
26	95-007941-H2T @10	.0049	.0091	.0026	.1104	1016.	.0152
27	95-007941-H2T @2	-.0051	.0081	.0020	.4981	4755.	.0122
28	95-007942-H3 @2	.0138	.0114	.0037	.4986	6617.	.0194
29	MCVA 950728I901	.9647	.0008	.0024	19.76	26.05	.0056
30	SST-ICS-2 950908I102	-.0422	.0069	.0038	18.29	4026.	.0205
31	STD1-Blank 108444	.0019	.0020	.0007	.0032	.4476	.0025
32	I.V. U @500 PPM @10	-.0167	-.0047	.0001	.0087	.6126	.0100
33	I.V. U @500 PPM	-.2086	-.0838	-.0141	.0343	1.449	.0344

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
34	H.P. U @500 PPM @10	-.0179	-.0048	-.0003	.0074	.5124	.0085
35	H.P. U @500 PPM	-.2066	-.0830	-.0138	.0342	1.349	.0358
36	STD6 950830I106	-.2140	-.0864	-.0147	.0318	1.184	.0321
37	MCVA 950728I901	.9634	.0005	.0021	19.72	24.44	.0053
38	STD1-Blank 108444	.0016	-.0006	-.0003	.0004	-.6361	-.0008
39	95-007942-H1 @10	.0023	.0047	.0015	.6294	1136.	.0086
40	95-007942-H1 @2	.0002	.0098	.0031	2.944	5035.	.0161
41	95-007942-H2 @10	.0344	.0031	.0008	.2984	1202.	.0050
42	95-007942-H2 @2	.1812	.0071	.0025	1.392	5229.	.0130
43	95-007943-H1 @10	.0820	.0038	.0011	.2548	1174.	.0056
44	95-007943-H1 @2	.3928	.0075	.0023	1.193	5149.	.0136
45	95-007943-H2 @10	.0092	.0051	.0017	.3891	1162.	.0087
46	95-007943-H2 @2	.0375	.0061	.0020	1.868	5197.	.0119
47	MCVA 950728I901	.9742	-.0004	.0019	19.89	26.39	.0038
48	SST-ICS-2 950908I102	-.0472	.0041	.0027	18.60	4135.	.0150
49	STD1-Blank 108444	.0014	.0011	.0004	.0046	.6302	.0026
50	95-007944-H1 @10	.0137	.0042	.0014	.2132	1076.	.0071
51	95-007944-H1 @2	.0606	.0094	.0030	.9742	4741.	.0161
52	95-007944-H2 @10	.0132	.0077	.0022	.2583	1059.	.0130
53	95-007944-H2 @2	.0533	.0089	.0029	1.256	4820.	.0154
54	SRM-2709-H @10	.0183	.0080	.0025	3.297	1056.	.0146
55	SRM-2709-H @2	.0774	.0121	.0043	15.76	4762.	.0275
56	MCVA 950728I901	.9689	.0001	.0020	19.92	23.90	.0046
57	SST-ICS-2 950908I102	-.0416	.0079	.0038	18.23	3950.	.0205
58	MCVB 950911H901	-.0033	1.909	1.898	.0127	1.013	1.916
59	SRM-1643c 103668	.0235	.0047	.0025	@.1177	2.332	.0138
60	CCV1 950713H901	1.919	.0040	.0015	1.938	4.883	.0075
61	STD1-Blank 108444	.0048	.0036	.0011	.0023	-.1119	.0065
62	STD1-Blank	.04613	.19589	.0342	.05613	.21523	.10013
63	STD2	4.16563			69.3936		
64	STD3					2.77763	
65	STD4		44.1084	10.2389			5.66026
66	STD5						
67	STD6						
68	STD7						
69	STD8						
70	STD9						
71	STD1-Blank 108444	.0130	.0025	.0008	.0016	.6114	.0060
72	MCVA 950728I901	.9889	-.0016	.0014	19.56	26.52	.0032
73	SST-ICS-2 950908I102	-.0368	.0053	.0031	18.13	4159.	.0165
74	MCVB 950911H901	.0184	1.999	1.986	.0042	.1561	1.979
75	MCVB 950911H901	.0137	1.918	1.908	.0056	.7090	1.910
76	SRM-1643c 103668	@.0256	-.0028	.0003	@.1166	@1.977	.0023
77	CCV1 950713H901	2.012	-.0010	.0003	1.970	5.360	-.0006
78	STD1-Blank 108444	.0067	.0000	.0002	-.0001	.1496	.0012
79	95-007945-H3 @2	.0899	.0106	.0031	.4411	5075.	.0182
80	95-007945-H1 @10	.0170	.0019	.0009	2.286	1124.	.0081
81	95-007945-H1 @5	.0322	.0034	.0016	4.532	2157.	.0160
82	95-007945-H1-PS @5	.0258	.0040	.0026	4.403	2090.	.0223
83	95-007945-H1 @2	.0690	.0089	.0038	10.50	4799.	.0361
84	95-007945-H2 @10	.0079	.0034	.0013	2.528	1125.	.0106
85	95-007945-H2 @2	-.0089	.0133	.0053	11.16	4642.	.0471
86	95-007946-HCB @2	.0316	.0217	.0053	.1915	4506.	.0298
87	MCVA 950728I901	.9184	.0066	.0038	18.81	@27.71	.0157

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
88	MCVA 950728I901	.9868	.0015	.0024	19.96	24.94	.0076
89	SST-ICS-2 950908I102	-.0344	.0122	.0051	18.14	3999.	.0254
90	STD1-Blank 108444	.0041	-.0000	-.0001	.0013	.0585	-.0002
91	95-007946-H1T @10	.0122	.0065	.0017	3.036	1105.	.0137
92	95-007946-H1T @2	.0317	.0093	.0031	14.55	4929.	.0276
93	95-007946-H2T @10	.0097	.0069	.0020	2.248	1090.	.0140
94	95-007946-H2T @2	.0222	.0120	.0035	10.58	4787.	.0304
95	95-007947-H1 @10	.0529	.0039	.0017	3.786	1003.	.0108
96	95-007947-H1 @2	.2366	.0100	.0050	17.57	4295.	.0329
97	95-007947-H2 @10	.0455	.0035	.0015	5.674	1033.	.0118
98	95-007947-H2 @2	.1944	.0101	.0059	25.35	4268.	.0411
99	MCVA 950728I901	1.010	-.0033	.0012	20.20	26.74	.0004
100	SST-ICS-2 950908I102	-.0494	.0031	.0025	18.89	4284.	.0122
101	STD1-Blank 108444	.0018	-.0021	-.0008	-.0007	-.5724	-.0037
102	95-007948-H1 @10	.0281	.0009	.0007	4.761	1066.	.0052
103	95-007948-H1 @2	.1221	.0063	.0042	21.98	4584.	.0277
104	95-007948-H2 @10	.0205	.0060	.0021	4.040	1008.	.0144
105	95-007948-H2 @2	.0738	.0082	.0043	19.58	4566.	.0278
106	SRM-2709-H @10	.0232	.0072	.0023	3.403	1093.	.0137
107	SRM-2709-H @2	.0834	.0196	.0066	15.06	4562.	.0403
108	MCVA 950728I901	.9977	-.0002	.0019	20.23	24.87	.0046
109	SST-ICS-2 950908I102	-.0424	.0084	.0036	18.22	4093.	.0186
110	MCVB 950911H901	-.0041	1.988	1.971	.0051	-.0650	1.967
111	MCVB 950911H901	-.0073	1.977	1.964	.0034	-.4293	1.959
112	SRM-1643c 103668	.0203	-.0026	.0004	0.1158	01.535	.0034
113	CCV1 950713H901	2.004	-.0003	.0004	1.969	4.852	.0010
114	STD1-Blank 108444	.0011	-.0017	-.0007	-.0018	-.8260	-.0032

#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	411	2319.33	192.333	783.667	401.667	3600.33
2	SPC-BLK 108444	.0041	.0147	.0006	.0020	-.1191	.0319
3	SPC-STD 950831I101	29337.3	2431	72518.3	811.333	408.667	3629.33
4	SPC-STD 950831I101	9.812	.0299	10.01	.0008	-.0886	.0404
5	STD1-Blank	.0408	.23346	.0193	.07899	.04059	.36226
6	STD2		45.4272		11.9842	5.90989	
7	STD3	13.4379		7.05883			
8	STD4						16.8685
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0025	.0054	.0002	-.0007	.0169	.0088
15	MCVA 950728I901	1.928	26.16	.5076	1.024	24.08	.0093
16	SST-ICS-2 950908I102	.0105	.3058	.0038	.0179	.3287	.0409
17	MCVB 950911H901	.0044	.0826	.0007	.0020	.0121	1.928
18	SRM-1643c 103668	.0130	9.884	.0352	.1059	11.38	.0097
19	CCV1 950713H901	1.928	2.090	1.016	1.997	7.752	.0170
20	STD1-Blank 108444	.0029	.0035	.0003	.0025	.0225	.0119
21	95-007941-HCB @2	.0557	.0729	.0927	.0132	2.045	.0537
22	95-007941-H1T @10	.0171	.0647	.0330	.0082	10.21	.0468
23	95-007941-H1T @5	.0272	.1022	.0651	.0119	20.11	.0525

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
24	95-007941-H1T-FS @5	.0288	.2084	.1574	.0111	33.45	.0546
25	95-007941-H1T @2	.0545	.1851	.1531	.0183	47.89	.0506
26	95-007941-H2T @10	.0203	.0618	.0297	.0086	10.20	.0567
27	95-007941-H2T @2	.0622	.1268	.1381	.0160	49.11	.0476
28	95-007942-H3 @2	.0115	.0836	.4140	.0161	2.992	.0733
29	MCVA 950728I901	1.915	25.58	.4946	.9945	23.98	.0163
30	SST-ICS-2 950908I102	.0126	.3229	.0038	.0168	.3504	.0450
31	STD1-Blank 108444	.0027	.0099	.0003	.0016	.0324	.0139
32	I.V. U @500 PPM @10	.0087	.2638	.0014	.0018	.0470	.0045
33	I.V. U @500 PPM	.0338	2.439	.0062	-.0090	-.0598	-.2402
34	H.P. U @500 PPM @10	.0083	.2601	.0013	.0006	.0407	-.0025
35	H.P. U @500 PPM	.0348	2.433	.0071	-.0090	-.0819	-.2358
36	STD6 950830I106	.0350	2.446	.0062	-.0107	-.0999	-.2522
37	MCVA 950728I901	1.880	25.50	.4930	.9941	23.49	.0127
38	STD1-Blank 108444	.0010	-.0011	-.0000	.0000	-.0013	-.0010
39	95-007942-H1 @10	.0056	.0311	.0410	.0057	25.37	.0324
40	95-007942-H1 @2	.0119	.0739	.1929	.0148	116.2	.0625
41	95-007942-H2 @10	.0051	.0290	.0352	.0056	25.04	.0216
42	95-007942-H2 @2	.0108	.0786	.1655	.0157	111.8	.0474
43	95-007943-H1 @10	.0217	.0376	.0729	.0067	52.26	.0231
44	95-007943-H1 @2	.0904	.1267	.3455	.0251	235.1	.0465
45	95-007943-H2 @10	.0223	.0340	.0963	.0079	52.35	.0356
46	95-007943-H2 @2	.0796	.0971	.4643	.0240	239.8	.0396
47	MCVA 950728I901	1.998	25.79	.4967	1.008	25.20	.0087
48	SST-ICS-2 950908I102	.0102	.3117	.0029	.0159	.3301	.0224
49	STD1-Blank 108444	.0020	.0042	.0001	.0012	.0098	.0049
50	95-007944-H1 @10	.0072	.0374	.0971	.0045	22.61	.0270
51	95-007944-H1 @2	.0215	.1209	.4521	.0160	102.7	.0588
52	95-007944-H2 @10	.0098	.0472	.0774	.0089	27.94	.0491
53	95-007944-H2 @2	.0219	.1047	.3800	.0230	129.2	.0583
54	SRM-2709-H @10	.0127	1.430	.1338	.0069	1.455	.0501
55	SRM-2709-H @2	.0296	6.749	.6447	.0213	6.509	.0759
56	MCVA 950728I901	1.891	25.73	.4991	1.005	23.59	.0121
57	SST-ICS-2 950908I102	.0128	.3335	.0037	.0175	.3579	.0447
58	MCVB 950911H901	.0055	.0901	.0011	.0019	.0281	1.910
59	SRM-1643c 103668	.0170	9.422	.0340	.1040	@10.66	.0400
60	CCV1 950713H901	1.914	2.024	.9773	1.926	7.815	.0273
61	STD1-Blank 108444	.0041	.0165	.0006	.0035	.0534	.0207
62	STD1-Blank	.04233	.23756	.0197	.08016	.04183	.37116
63	STD2		42.7131		11.2533	5.5215	
64	STD3	12.4636		6.5383			
65	STD4						15.2793
66	STD5						
67	STD6						
68	STD7						
69	STD8						
70	STD9						
71	STD1-Blank 108444	.0015	.0206	.0003	.0007	.0421	.0215
72	MCVA 950728I901	1.974	25.40	.4965	.9840	24.71	.0049
73	SST-ICS-2 950908I102	.0071	.2858	.0029	.0154	.3341	.0364
74	MCVB 950911H901	-.0007	.0819	.0005	-.0008	.0015	1.980
75	MCVB 950911H901	.0027	.0897	.0008	.0010	.0448	1.916
76	SRM-1643c 103668	@.0114	@9.755	.0349	@.1011	12.12	-.0043
77	CCV1 950713H901	2.049	2.054	1.008	1.955	8.307	.0041

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
78	STD1-Blank 108444	-.0007	.0057	.0001	.0005	.0090	.0059
79	95-007945-H3 @2	.0094	.0796	.2293	.0114	2.687	.0667
80	95-007945-H1 @10	.0021	.1590	.1190	.0045	16.60	.0211
81	95-007945-H1 @5	.0045	.3161	.2371	.0083	32.30	.0365
82	95-007945-H1-PS @5	.0071	.4039	.3258	.0079	45.54	.0474
83	95-007945-H1 @2	.0098	.6964	.5515	.0187	72.94	.0771
84	95-007945-H2 @10	.0037	.1521	.0614	.0033	16.80	.0263
85	95-007945-H2 @2	.0146	.6701	.2734	.0151	70.93	.1088
86	95-007946-HCB @2	.0194	.1080	.1880	.0189	2.172	.1146
87	MCVA 950728I901	Q1.709	24.37	.4802	.9522	Q21.50	.0557
88	MCVA 950728I901	1.865	25.80	.5080	1.013	23.36	.0218
89	SST-ICS-2 950908I102	.0136	.3455	.0043	.0201	.4003	.0681
90	STD1-Blank 108444	.0003	.0024	-.0000	-.0007	.0061	.0009
91	95-007946-H1T @10	.0163	.1802	.0838	.0070	11.38	.0414
92	95-007946-H1T @2	.0638	.7571	.4024	.0217	51.82	.0774
93	95-007946-H2T @10	.0209	.1497	.0674	.0056	12.68	.0451
94	95-007946-H2T @2	.0847	.5949	.3192	.0201	56.97	.0874
95	95-007947-H1 @10	.0047	.1427	.1243	.0050	13.99	.0334
96	95-007947-H1 @2	.0112	.6211	.5820	.0205	60.86	.1040
97	95-007947-H2 @10	.0044	.1984	.1549	.0051	19.78	.0391
98	95-007947-H2 @2	.0148	.8587	.6978	.0234	83.02	.1260
99	MCVA 950728I901	2.052	26.20	.5136	1.023	25.73	-.0085
100	SST-ICS-2 950908I102	.0071	.2935	.0030	.0143	.3056	.0177
101	STD1-Blank 108444	-.0020	.0018	-.0003	-.0013	-.0117	-.0119
102	95-007948-H1 @10	.0007	.1334	.1308	.0040	13.18	.0140
103	95-007948-H1 @2	.0093	.6093	.6096	.0180	58.11	.0843
104	95-007948-H2 @10	.0047	.1354	.1402	.0057	11.08	.0427
105	95-007948-N2 @2	.0103	.5296	.6808	.0183	51.32	.0874
106	SRM-2709-H @10	.0094	1.486	.1409	.0070	1.522	.0443
107	SRM-2709-H @2	.0312	6.522	.6289	.0247	6.256	.1209
108	MCVA 950728I901	1.918	26.19	.5153	1.021	23.96	.0096
109	SST-ICS-2 950908I102	.0107	.3066	.0033	.0175	.3550	.0450
110	MCVB 950911H901	.0006	.0767	.0005	.0002	.0155	1.966
111	MCVB 950911H901	-.0005	.0831	.0005	-.0017	.0096	1.959
112	SRM-1643c 103668	Q.0115	Q9.755	.0347	Q.1005	11.98	-.0013
113	CCV1 950713H901	2.044	2.062	1.011	1.955	8.313	-.0018
114	STD1-Blank 108444	-.0021	-.0005	-.0002	-.0006	-.0148	-.0106

#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	467.667	1276	13122.3	14960.3	14889.3	2553
2	SPC-BLK 108444	.0037	.0264	.0387	.0749	.0389	.0094
3	SPC-STD 950831I101	465	1426	135855	15051	14947.7	2640.67
4	SPC-STD 950831I101	.0028	.0089	10.60	.0933	.0445	.0334
5	STD1-Blank	.0465	.12686	1.31916	1.50456	1.49609	.25603
6	STD2	5.9565		59.3446			
7	STD3		14.0152				
8	STD4						
9	STD5						36.3825
10	STD6						
11	STD7						
12	STD8						
13	STD9				21.0894	49.946	

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
14	STD1-Blank 108444	-.0003	-.0027	.0028	.0333	.0073	.0088
15	MCVA 950728I901	1.043	.0341	2.576	-.0210	-.0048	2.495
16	SST-ICS-2 950908I102	48.13	.1156	.2795	-.1308	.0566	.0530
17	MCVB 950911H901	.0091	-.0110	.0543	1.981	1.964	.0158
18	SRM-1643c 103668	.0638	.0216	.0382	.0081	-.0020	.0025
19	CCV1 950713H901	2.094	4.724	2.079	.0512	.0226	.0002
20	STD1-Blank 108444	.0014	.0053	.0092	.0396	.0173	.0059
21	95-007941-HCB @2	10.97	.0932	.0957	.1536	.1074	.0520
22	95-007941-H1T @10	10.47	2.470	.0707	.1414	.0723	.0335
23	95-007941-H1T @5	20.73	4.912	.0953	.1466	.0852	.0427
24	95-007941-H1T-PS @5	25.27	4.874	4.983	.0581	.0779	.0407
25	95-007941-H1T @2	49.24	12.01	.1765	.1410	.1033	.0647
26	95-007941-H2T @10	5.429	3.072	.0696	.1602	.0795	.0363
27	95-007941-H2T @2	25.75	15.16	.1315	.1192	.0771	.0543
28	95-007942-H3 @2	2.229	.0830	.0968	.2014	.1086	.0610
29	MCVA 950728I901	1.021	.0502	2.523	.0009	.0075	2.445
30	SST-ICS-2 950908I102	47.94	.1270	.2785	-.1488	.0659	.0569
31	STD1-Blank 108444	.0063	.0044	.0106	.0437	.0215	.0104
32	I.V. U @500 PPM @10	.0068	.0328	.2031	-.2357	-.0224	.0035
33	I.V. U @500 PPM	.0269	.1619	1.740	-3.110	-.5618	-.1313
34	H.P. U @500 PPM @10	.0068	.0243	.1910	-.2392	-.0267	-.0011
35	H.P. U @500 PPM	.0254	.1337	1.751	-3.070	-.5549	-.1332
36	STD6 950830I106	.0266	.1440	1.757	-3.135	-.5819	-.1349
37	MCVA 950728I901	1.024	.0453	2.511	.0005	.0039	2.432
38	STD1-Blank 108444	-.0020	.0085	-.0064	.0053	-.0036	.0013
39	95-007942-H1 @10	.4066	.0899	.0372	.0959	.0444	.0201
40	95-007942-H1 @2	1.913	.4083	.0915	.1816	.0889	.0523
41	95-007942-H2 @10	.1775	.1102	.0282	.0664	.0300	.0174
42	95-007942-H2 @2	.8507	.4569	.0799	.1342	.0673	.0443
43	95-007943-H1 @10	.5811	.8479	.0423	.0742	.0326	.0095
44	95-007943-H1 @2	2.737	4.211	.1778	.1351	.0670	.0207
45	95-007943-H2 @10	1.077	.7585	.0523	.1032	.0505	.0105
46	95-007943-H2 @2	5.164	3.639	.1541	.1185	.0593	.0230
47	MCVA 950728I901	1.027	.0603	2.531	-.0134	-.0014	2.464
48	SST-ICS-2 950908I102	48.71	.0945	.2502	-.2102	.0376	.0406
49	STD1-Blank 108444	.0123	-.0061	.0047	.0320	.0129	.0024
50	95-007944-H1 @10	.2669	.6983	.0370	.0838	.0394	.0192
51	95-007944-H1 @2	1.237	3.275	.1015	.1794	.0857	.0492
52	95-007944-H2 @10	.2736	1.002	.0432	.1501	.0652	.0242
53	95-007944-H2 @2	1.320	5.026	.1062	.1602	.0845	.0461
54	SRM-2709-H @10	1.298	.0966	.0761	.1422	.0622	.0288
55	SRM-2709-H @2	9.109	.3960	.2374	.1940	.0967	.0799
56	MCVA 950728I901	1.037	.0401	2.528	-.0083	-.0021	2.432
57	SST-ICS-2 950908I102	48.06	.1122	.2767	-.1437	.0700	.0550
58	MCVB 950911H901	.0200	.0155	.0557	2.028	1.950	.0180
59	SRM-1643c 103668	.0653	.0494	0.0572	.1003	.0404	.0118
60	CCV1 950713H901	2.023	4.516	2.006	.0839	.0344	.0014
61	STD1-Blank 108444	.0035	.0172	.0107	.0732	.0276	.0087
62	STD1-Blank	.0469	.1288	1.32666	1.54309	1.53313	.26046
63	STD2	5.67579		55.907			
64	STD3		12.8107				
65	STD4						
66	STD5						33.5328
67	STD6						

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
68	STD7						
69	STD8						
70	STD9				19.1247	45.0755	
71	STD1-Blank 108444	.0035	.0182	.0284	.0653	.0258	.0099
72	MCVA 950726I901	1.014	.0539	2.489	-.0307	-.0145	2.444
73	SST-ICS-2 950908I102	47.28	.1318	.2680	-.1697	.0509	.0454
74	MCVB 950911H901	.0088	-.0081	.0393	@2.212	2.046	-.0089
75	MCVB 950911H901	.0090	.0220	.0602	2.158	1.998	.0064
76	SRM-1643c 103668	.0590	.0084	@.0260	-.0447	-.0206	-.0161
77	CCV1 950713H901	2.043	4.707	2.017	.0023	-.0011	-.0119
78	STD1-Blank 108444	.0008	.0092	.0082	.0259	.0040	-.0076
79	95-007945-H3 @2	4.667	.0868	.0912	.2002	.0903	.0444
80	95-007945-H1 @10	1.974	1.622	.1306	.0336	.0180	.0050
81	95-007945-H1 @5	3.897	3.244	.2536	.0509	.0405	.0215
82	95-007945-H1-PS @5	8.626	3.173	5.171	-.0282	.0471	.0265
83	95-007945-H1 @2	9.047	7.676	.5769	.1003	.0866	.0460
84	95-007945-H2 @10	1.316	1.647	.1640	.0564	.0293	.0170
85	95-007945-H2 @2	5.842	7.575	.6771	.1746	.1259	.0623
86	95-007946-HCB @2	62.06	.1754	.1601	.4464	.1997	.0899
87	MCVA 950728I901	1.025	.0854	2.492	.1186	.0565	2.378
88	MCVA 950728I901	1.049	.0805	2.589	.0156	.0135	2.508
89	SST-ICS-2 950908I102	47.82	.1494	.3039	-.0863	.1070	.0663
90	STD1-Blank 108444	.0026	.0277,	.0027	.0051	-.0037	-.0093
91	95-007946-H1T @10	16.84	2.029	.1457	.0759	.0591	.0319
92	95-007946-H1T @2	80.41	10.07	.5714	-.0124	.1149	.0677
93	95-007946-H2T @10	15.92	2.907	.1253	.1041	.0617	.0296
94	95-007946-H2T @2	74.89	13.96	.4472	.0739	.1335	.0733
95	95-007947-H1 @10	.7258	2.800	.1357	.0584	.0351	.0147
96	95-007947-H1 @2	3.352	13.41	.5701	.1001	.0946	.0581
97	95-007947-H2 @10	.8248	3.825	.1945	.0445	.0308	.0157
98	95-007947-H2 @2	3.725	17.79	.8129	.0639	.1049	.0606
99	MCVA 950728I901	1.045	.0421	2.565	-.0624	-.0260	2.547
100	SST-ICS-2 950908I102	49.51	.0696	.2534	-.2521	.0342	.0407
101	STD1-Blank 108444	.0030	-.0010	-.0064	-.0340	-.0198	-.0030
102	95-007948-H1 @10	.4786	2.734	.1644	.0011	.0095	.0119
103	95-007948-H1 @2	2.216	13.27	.7626	.0246	.0698	.0503
104	95-007948-H2 @10	.5469	2.467	.1781	.0990	.0534	.0229
105	95-007948-N2 @2	2.657	12.19	.7130	.0586	.0826	.0490
106	SRM-2709-H @10	1.973	.1123	.0892	.1339	.0612	.0318
107	SRM-2709-H @2	8.767	.4578	.2905	.3293	.1612	.1036
108	MCVA 950728I901	1.053	.0832	2.596	-.0172	-.0032	2.525
109	SST-ICS-2 950908I102	48.05	.1267	.2719	-.1788	.0662	.0561
110	MCVB 950911H901	.0113	-.0045	.0495	@2.223	2.045	-.0018
111	MCVB 950911H901	.0070	-.0063	.0417	@2.201	2.030	-.0010
112	SRM-1643c 103668	.0592	.0134	@.0234	-.0412	-.0198	-.0156
113	CCV1 950713H901	2.049	4.665	2.029	.0017	-.0004	-.0052
114	STD1-Blank 108444	.0006	.0034	-.0078	-.0313	-.0180	-.0097

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1507.33	3737.33	6673.67	140	9662.67	2298.33
2	SPC-BLK 108444	.0137	.0122	.1351	.0001	.0166	.0066
3	SPC-STD 950831I101	1526.67	3809.33	6772.33	140.333	10377.3	2311.33
4	SPC-STD 950831I101	.0237	.0285	.1498	.0001	.0143	.0102
5	STD1-Blank	.15066	.37286	.669	.01403	.97189	.23143
6	STD2				8.35353		
7	STD3						
8	STD4						
9	STD5						11.9599
10	STD6						
11	STD7		77.1799				
12	STD8	3.8621				54.9473	
13	STD9			8.45059			
14	STD1-Blank 108444	.0044	.0968	.0335	.0004	.0053	-.0010
15	MCVA 950728I901	2.485	18.56	-.0748	.5107	-.0047	.0365
16	SST-ICS-2 950908I102	.0913	.1495	.4028	.0010	.0678	.6034
17	MCVB 950911H901	.0152	.0925	2.063	.0006	1.801	4.917
18	SRM-1643c 103668	.0114	.0531	-.0051	.2619	.0005	-.0112
19	CCV1 950713H901	1.956	4.945	.0822	2.012	-.0029	.0023
20	STD1-Blank 108444	.0100	.0184	.0445	.0006	.0067	-.0008
21	95-007941-HCB @2	.0685	.9052	.3397	.0028	.0675	.0205
22	95-007941-H1T @10	.0375	.7408	.2570	.0036	.0412	.0103
23	95-007941-H1T @5	.0579	1.455	.2825	.0064	.0500	.0170
24	95-007941-H1T-PS @5	.0565	10.83	.3585	.0062	.0555	.2330
25	95-007941-H1T @2	.0819	3.476	.3750	.0137	.0657	.0336
26	95-007941-H2T @10	.0463	.5420	.2723	.0032	.0447	.0175
27	95-007941-H2T @2	.0586	2.534	.2883	.0112	.0530	.0216
28	95-007942-H3 @2	.0761	.2922	.3970	.0042	.0740	.0179
29	MCVA 950728I901	2.427	18.15	-.0527	.4981	.0026	.0429
30	SST-ICS-2 950908I102	.0995	.1018	.4001	.0010	.0656	.6330
31	STD1-Blank 108444	.0124	.0052	.0553	.0005	.0074	-.0002
32	I.V. U @500 PPM @10	.0055	.0102	.1833	.0003	.0113	.5430
33	I.V. U @500 PPM	-.0396	-.0610	.6900	-.0029	-.0732	5.199
34	H.P. U @500 PPM @10	.0083	.0046	.1789	.0003	.0017	.5410
35	H.P. U @500 PPM	-.0272	-.0637	.7246	-.0029	-.0731	5.192
36	STD6 950830I106	-.0435	-.0805	.6405	-.0032	-.0846	5.204
37	MCVA 950728I901	2.423	18.07	-.0750	.4973	.0014	.0423
38	STD1-Blank 108444	.0041	-.0045	-.0030	.0003	-.0016	-.0064
39	95-007942-H1 @10	.0195	.0913	.1523	.0013	.0262	.0003
40	95-007942-H1 @2	.0490	.4117	.2886	.0042	.0585	.0144
41	95-007942-H2 @10	.0229	.1276	.0990	.0011	.0158	-.0035
42	95-007942-H2 @2	.0442	.5947	.2318	.0042	.0535	.0108
43	95-007943-H1 @10	.0252	.4132	.1150	.0055	.0140	-.0006
44	95-007943-H1 @2	.0587	1.989	.2535	.0247	.0350	.0118
45	95-007943-H2 @10	.0338	.3864	.1631	.0049	.0189	-.0000
46	95-007943-H2 @2	.0555	1.877	.2130	.0217	.0271	.0096
47	MCVA 950728I901	2.439	18.29	-.1086	.5046	-.0096	.0396
48	SST-ICS-2 950908I102	.0739	.0891	.2676	.0007	.0537	.6268
49	STD1-Blank 108444	-.0031	.0000	.0175	.0004	.0023	-.0025
50	95-007944-H1 @10	.0250	.2496	.1300	.0218	.0217	.0038
51	95-007944-H1 @2	.0696	1.173	.2964	.0979	.0568	.0117
52	95-007944-H2 @10	.0281	.2333	.2058	.0297	.0357	.0009
53	95-007944-H2 @2	.0579	1.124	.2908	.1427	.0540	.0140

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
54	SRM-2709-H @10	.0393	26.67	.1875	.0219	.0330	.0075
55	SRM-2709-H @2	.1052	131.8	.3082	.1017	.0785	.0360
56	MCVA 950728I901	2.448	18.23	-.0999	.5035	-.0061	.0400
57	SST-ICS-2 950908I102	.0947	.1001	.4042	.0011	.0665	.6368
58	MCVB 950911H901	.0294	.0603	2.050	.0007	Q1.777	4.878
59	SRM-1643c 103668	Q.0331	.0336	.1047	Q.2468	.0156	-.0077
60	CCV1 950713H901	1.905	4.772	.0893	1.941	-.0015	.0038
61	STD1-Blank 108444	.0159	.0052	.0774	.0008	.0083	-.0008
62	STD1-Blank	.15393	.3725	.68256	.0146	.98409	.23426
63	STD2				7.92563		
64	STD3						
65	STD4						10.9155
66	STD5						
67	STD6						
68	STD7		71.4301			50.294	
69	STD8	3.53003					
70	STD9			7.83423			
71	STD1-Blank 108444	-.0032	.4247	.0778	.0004	.0142	.0066
72	MCVA 950728I901	2.467	18.52	-.1198	.4959	-.0096	.0457
73	SST-ICS-2 950908I102	.0641	.1895	.3463	.0006	.0530	.6691
74	MCVB 950911H901	-.0026	.1122	2.028	.0003	1.818	5.051
75	MCVB 950911H901	.0116	.1066	2.030	.0005	Q1.764	4.885
76	SRM-1643c 103668	Q-.0003	.0577	-.0993	Q.2597	-.0146	-.0076
77	CCV1 950713H901	1.971	4.994	-.0245	1.994	-.0202	.0014
78	STD1-Blank 108444	-.0036	.0266	.0109	.0004	.0008	-.0067
79	95-007945-H3 @2	.0535	.2858	.3227	.0032	.0639	.0170
80	95-007945-H1 @10	.0019	.3532	.0666	1.479	.0184	.0442
81	95-007945-H1 @5	.0289	.6925	.1463	2.917	.0319	.1002
82	95-007945-H1-PS @5	.0422	10.35	.2508	2.830	.0331	.3385
83	95-007945-H1 @2	.0732	1.577	.3173	6.725	.0733	.2242
84	95-007945-H2 @10	.0154	.6262	.1171	1.730	.0210	.0534
85	95-007945-H2 @2	.0848	2.752	.4473	7.472	.0955	.2535
86	95-007946-HCB @2	.0982	.4663	.5822	.0088	.1184	.0481
87	MCVA 950728I901	2.400	Q17.62	.1175	.4764	.0269	.0485
88	MCVA 950728I901	2.545	19.15	-.0023	.5114	.0045	.0509
89	SST-ICS-2 950908I102	.1063	.3260	.5174	.0016	.0925	.7001
90	STD1-Blank 108444	-.0138	.0822	-.0167	.0006	-.0051	.0011
91	95-007946-H1T @10	.0346	.4715	.1862	2.859	.0397	.1007
92	95-007946-H1T @2	.0875	2.101	.4260	13.72	.0985	.4451
93	95-007946-H2T @10	.0211	.4971	.1969	1.985	.0393	.0703
94	95-007946-H2T @2	.0908	2.248	.4706	9.288	.0994	.3490
95	95-007947-H1 @10	.0194	.2722	.0934	.1314	.0251	.0637
96	95-007947-H1 @2	.0826	1.184	.3564	.5904	.0855	.3157
97	95-007947-H2 @10	.0279	.3384	.1197	.1819	.0242	.1003
98	95-007947-H2 @2	.1099	1.477	.4423	.7925	.1021	.4583
99	MCVA 9507281901	2.555	19.01	-.1340	.5372	-.0149	.0475
100	SST-ICS-2 950908I102	.0796	.1040	.2949	.0012	.0496	.7098
101	STD1-Blank 108444	-.0146	.0196	-.0550	.0006	-.0082	.0029
102	95-007948-H1 @10	.0182	.2804	.0381	.1588	.0095	.0743
103	95-007948-H1 @2	.0851	1.268	.3065	.7174	.0786	.3647
104	95-007948-H2 @10	.0325	.2751	.1620	.1352	.0333	.0699
105	95-007948-N2 @2	.0956	1.203	.3433	.6445	.0784	.3334
106	SRM-2709-H @10	.0409	28.10	.1807	.0240	.0413	.0118
107	SRM-2709-H @2	.1179	127.8	.4988	.1002	.1157	.0405

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
108	MCVA 950728I901	2.567	18.87	-.0625	.5292	-.0018	.0510
109	SST-ICS-2 950908I102	.0915	.1173	.4095	.0014	.0627	.6997
110	MCVB 950911H901	.0028	.0663	2.012	.0009	Q1.793	4.992
111	MCVB 950911H901	.0066	.0647	2.005	.0009	Q1.795	4.994
112	SRM-1643c 103668	Q.0035	.0263	-.1003	Q.2701	-.0052	-.0050
113	CCV1 950713H901	1.965	4.969	-.0255	2.070	-.0180	.0040
114	STD1-Blank 108444	-.0106	.0052	-.0507	.0008	-.0149	.0005

#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	635.667	339.667	16883.7	958.333	304	249.667
2	SPC-BLK 108444	.0024	.0007	.5465	.0047	.0083	.0020
3	SPC-STD 950831I101	642	371.667	16937.7	963.333	312.333	250.333
4	SPC-STD 950831I101	.0032	.0542	.5825	.0055	.0076	.0021
5	STD1-Blank	.0639	.03443	1.69939	.09616	.0304	.02506
6	STD2	14.911					
7	STD3						
8	STD4						
9	STD5				12.2741		3.22526
10	STD6			51.006			
11	STD7						
12	STD8		1.18616				
13	STD9					3.2762	
14	STD1-Blank 108444	.0003	-.0122	.0978	.0005	.0075	.0004
15	MCVA 950728I901	.9908	2.491	-.0078	.9817	.0251	.0001
16	SST-ICS-2 950908I102	.0064	.2488	44.81	.0124	.0733	.0072
17	MCVB 950911H901	.0017	.0033	Q8.676	-.0001	Q.4954	.9584
18	SRM-1643c 103668	.0081	.0116	.2261	.0279	.0119	-.0014
19	CCV1 950713H901	.0013	1.947	.2028	.9569	.0153	.0012
20	STD1-Blank 108444	.0007	-.0019	.1352	.0010	.0094	.0006
21	95-007941-HCB @2	.1096	.0399	.8501	.0091	.0389	.0036
22	95-007941-H1T @10	.0403	.0492	.7399	.0106	.0314	.0032
23	95-007941-H1T @5	.0772	.0823	.8753	.0158	.0409	.0035
24	95-007941-H1T-PS @5	.0768	.1119	18.70	.0180	.0459	.0048
25	95-007941-H1T @2	.1797	.1907	.9739	.0287	.0758	.0033
26	95-007941-H2T @10	.0225	.0476	.8214	.0110	.0264	.0034
27	95-007941-H2T @2	.0930	.1802	.7143	.0245	.0532	.0026
28	95-007942-H3 @2	.0150	.0385	1.153	.0111	.0392	.0048
29	MCVA 950728I901	.9672	2.448	.0851	.9568	.0271	.0005
30	SST-ICS-2 950908I102	.0065	.2476	44.59	.0126	.0688	.0071
31	STD1-Blank 108444	.0009	-.0001	.1628	.0014	.0051	.0008
32	I.V. U @500 PPM @10	.0032	.0083	48.04	.0044	-.0078	.0040
33	I.V. U @500 PPM	.0134	-.0246	470.3	.0133	-.1185	.0201
34	H.P. U @500 PPM @10	.0032	.0068	47.50	.0031	-.0060	.0036
35	H.P. U @500 PPM	.0137	-.0093	469.7	.0131	-.0970	.0201
36	STD6 950830I106	.0123	-.0183	477.1	.0097	-.1018	.0191
37	MCVA 950728I901	.9651	2.461	.1267	.9536	.0226	.0005
38	STD1-Blank 108444	-.0002	-.0081	-.0815	-.0008	.0033	-.0001
39	95-007942-H1 @10	.0041	.0180	.4126	.0038	.0136	.0021
40	95-007942-H1 @2	.0129	.0498	.9273	.0089	.0359	.0041
41	95-007942-H2 @10	.0038	.0154	.2810	.0027	.0130	.0015
42	95-007942-H2 @2	.0144	.0359	.7014	.0078	.0326	.0031
43	95-007943-H1 @10	.0091	.0616	.3864	.0038	.0216	.0014

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#	Sample Name	Ti	Tl	U	V	W	Y
44	95-007943-H1 @2	.0390	.2716	.9022	.0113	.0757	.0028
45	95-007943-H2 @10	.0091	.0671	.5903	.0048	.0314	.0023
46	95-007943-H2 @2	.0356	.2589	.7736	.0096	.0686	.0026
47	MCVA 950728I901	.9766	2.526	-.0641	.9634	.0210	-.0003
48	SST-ICS-2 950908I102	.0052	.2455	45.48	.0096	.0646	.0060
49	STD1-Blank 108444	.0005	-.0032	.0778	.0004	.0017	.0004
50	95-007944-H1 @10	.0058	.0251	.3952	.0042	.0350	.0016
51	95-007944-H1 @2	.0228	.0853	1.144	.0132	.1494	.0039
52	95-007944-H2 @10	.0064	.0322	.7540	.0072	.0502	.0031
53	95-007944-H2 @2	.0198	.0791	1.203	.0155	.1889	.0038
54	SRM-2709-H @10	.2828	.0337	.7103	.0156	.0315	.0043
55	SRM-2709-H @2	1.353	.1394	1.055	.0573	.0587	.0113
56	MCVA 950728I901	.9773	2.495	-.0058	.9636	.0277	.0003
57	SST-ICS-2 950908I102	.0066	.2484	44.37	.0130	.0716	.0074
58	MCVB 950911H901	.0021	.0103	08.493	.0002	0.4906	.9357
59	SRM-1643c 103668	.0099	0.0279	.6697	.0302	.0146	.0004
60	CCV1 950713H901	.0021	1.913	.3705	.9214	.0141	.0016
61	STD1-Blank 108444	.0014	.0044	.3156	.0022	.0136	.0014
62	STD1-Blank	.06533	.03489	1.73646	.09789	.03073	.02566
63	STD2	13.9653					
64	STD3						
65	STD4						
66	STD5				11.1975		2.87503
67	STD6			46.6352			
68	STD7						
69	STD8		1.09969				
70	STD9					2.93289	
71	STD1-Blank 108444	.0013	-.0092	.2516	.0022	.0096	.0010
72	MCVA 950728I901	.9624	2.483	-.0878	.9708	.0236	-.0007
73	SST-ICS-2 950908I102	.0046	.2323	45.57	.0106	.0847	.0068
74	MCVB 950911H901	.0004	.0024	08.369	-.0019	0.5092	.9770
75	MCVB 950911H901	.0013	-.0013	08.347	.0001	0.5028	.9420
76	SRM-1643c 103668	.0073	0-.0025	-.0841	0.0259	.0055	-.0028
77	CCV1 950713H901	.0003	1.975	-.0113	.9616	.0098	-.0003
78	STD1-Blank 108444	.0001	-.0002	.0428	-.0002	.0022	.0002
79	95-007945-H3 @2	.0134	.0374	1.034	.0096	.0297	.0039
80	95-007945-H1 @10	.0078	.0120	3.753	.0028	.0220	.0018
81	95-007945-H1 @5	.0149	.0252	7.375	.0054	.0384	.0036
82	95-007945-H1-PS @5	.0164	.0614	25.74	.0086	.0511	.0055
83	95-007945-H1 @2	.0345	.0559	16.67	.0126	.0896	.0077
84	95-007945-H2 @10	.0075	.0154	4.391	.0040	.0210	.0020
85	95-007945-H2 @2	.0328	.0683	18.52	.0158	.0914	.0098
86	95-007946-HCB @2	.1551	.0560	1.957	.0168	.1000	.0070
87	MCVA 950728I901	.9157	2.402	.7736	.9333	.0489	.0027
88	MCVA 950728I901	.9766	2.550	.2388	.9900	.0385	.0007
89	SST-ICS-2 950908I102	.0073	.2615	44.98	.0170	.0994	.0091
90	STD1-Blank 108444	-.0001	-.0058	-.0382	-.0001	.0042	-.0004
91	95-007946-H1T @10	.0514	.0144	6.946	.0056	.0364	.0033
92	95-007946-H1T @2	.2396	.0786	30.97	.0140	.1247	.0096
93	95-007946-H2T @10	.0449	.0233	5.378	.0062	.0477	.0032
94	95-007946-H2T @2	.2044	.0739	23.09	.0142	.1123	.0086
95	95-007947-H1 @10	.0074	.0197	5.099	.0042	.0240	.0029
96	95-007947-H1 @2	.0314	.0616	22.26	.0151	.0569	.0112
97	95-007947-H2 @10	.0097	.0178	7.547	.0050	.0191	.0039

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#	Sample Name	Ti	Tl	U	V	W	Y
98	95-007947-H2 @2	.0405	.0700	32.06	.0182	.0708	.0151
99	MCVA 950728I901	.9962	2.577	-.2246	1.005	.0217	-.0012
100	SST-ICS-2 950908I102	.0038	.2489	47.43	.0095	.0716	.0063
101	STD1-Blank 108444	-.0009	-.0114	-.2964	-.0015	.0014	-.0012
102	95-007948-H1 @10	.0078	.0073	5.610	.0023	.0087	.0020
103	95-007948-H1 @2	.0373	.0617	25.44	.0131	.0553	.0117
104	95-007948-H2 @10	.0092	.0112	5.185	.0062	.0253	.0039
105	95-007948-N2 @2	.0364	.0571	22.62	.0139	.0605	.0111
106	SRM-2709-H @10	.2934	.0397	.6771	.0165	.0263	.0041
107	SRM-2709-H @2	1.288	.1509	1.845	.0624	.0813	.0140
108	MCVA 950728I901	.9939	2.570	-.0226	1.006	.0340	-.0001
109	SST-ICS-2 950908I102	.0053	.2425	45.67	.0127	.0866	.0074
110	MCVB 950911H901	.0003	-.0028	@8.286	-.0021	@.4924	.9624
111	MCVB 950911H901	.0003	-.0166	@8.218	-.0018	@.5207	.9596
112	SRM-1643c 103668	.0070	@-.0014	-.0684	@.0265	.0061	-.0026
113	CCV1 950713H901	-.0001	1.958	-.0298	.9622	.0110	-.0002
114	STD1-Blank 108444	-.0011	-.0064	-.2326	-.0016	.0007	-.0009

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	332.333	789
2	SPC-BLK 108444	.0007	.0036
3	SPC-STD 950831I101	148878	792.667
4	SPC-STD 950831I101	9.907	.0040
5	STD1-Blank	.03316	.07926
6	STD2	28.7869	25.3197
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank 108444	-.0006	.0003
15	MCVA 950728I901	.9992	2.029
16	SST-ICS-2 950908I102	-.0214	9.397
17	MCVB 950911H901	.0022	.0010
18	SRM-1643c 103668	.0867	-.0004
19	CCV1 950713H901	1.023	.0007
20	STD1-Blank 108444	.0000	.0007
21	95-007941-HCB @2	.0086	.0666
22	95-007941-H1T @10	.0008	.0219
23	95-007941-H1T @5	.0030	.0392
24	95-007941-H1T-PS @5	-.0001	.4995
25	95-007941-H1T @2	.0076	.0872
26	95-007941-H2T @10	.0038	.0237
27	95-007941-H2T @2	.0194	.0958
28	95-007942-H3 @2	.0461	.0086
29	MCVA 950728I901	.9838	1.978
30	SST-ICS-2 950908I102	-.0217	9.340
31	STD1-Blank 108444	-.0005	.0021
32	I.V. U @500 PPM @10	.0002	-.0354
33	I.V. U @500 PPM	.0019	-.3700

#	Sample Name	Zn	Zr
34	H.P. U @500 PPM @10	-.0001	-.0360
35	H.P. U @500 PPM	.0023	-.3683
36	STD6 950830I106	.0006	-.3714
37	MCVA 950728I901	.9802	1.978
38	STD1-Blank 108444	-.0004	-.0005
39	95-007942-H1 @10	.0049	.0033
40	95-007942-H1 @2	.0407	.0070
41	95-007942-H2 @10	.0244	.0025
42	95-007942-H2 @2	.1384	.0060
43	95-007943-H1 @10	.0127	.0028
44	95-007943-H1 @2	.0844	.0058
45	95-007943-H2 @10	.0114	.0043
46	95-007943-H2 @2	.0800	.0052
47	MCVA 950728I901	.9962	2.000
48	SST-ICS-2 950908I102	-.0240	9.559
49	STD1-Blank 108444	-.0008	.0027
50	95-007944-H1 @10	.0110	.0039
51	95-007944-H1 @2	.0624	.0084
52	95-007944-H2 @10	.0120	.0058
53	95-007944-H2 @2	.0696	.0074
54	SRM-2709-H @10	.0190	.0133
55	SRM-2709-H @2	.1024	.0477
56	MCVA 950728I901	.9951	2.004
57	SST-ICS-2 950908I102	-.0236	9.328
58	MCVB 950911H901	.0010	.0008
59	SRM-1643c 103668	0.0848	.0035
60	CCV1 950713H901	1.005	.0023
61	STD1-Blank 108444	.0006	.0023
62	STD1-Blank	.03316	.08103
63	STD2	27.9831	23.7606
64	STD3		
65	STD4		
66	STD5		
67	STD6		
68	STD7		
69	STD8		
70	STD9		
71	STD1-Blank 108444	.0005	.0008
72	MCVA 950728I901	.9687	1.970
73	SST-ICS-2 950908I102	-.0279	9.312
74	MCVB 950911H901	.0019	-.0168
75	MCVB 950911H901	.0017	-.0181
76	SRM-1643c 103668	0.0851	-.0024
77	CCV1 950713H901	1.002	-.0013
78	STD1-Blank 108444	.0006	.0000
79	95-007945-H3 @2	.0771	.0066
80	95-007945-H1 @10	.0328	.0008
81	95-007945-H1 @5	.0754	.0008
82	95-007945-H1-PS @5	.0629	.4595
83	95-007945-H1 @2	.1600	.0052
84	95-007945-H2 @10	.0290	.0014
85	95-007945-H2 @2	.1334	.0063
86	95-007946-HCB @2	-.0287	.0152
87	MCVA 950728I901	.9430	1.871

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#	Sample Name	Zn	Zr
88	MCVA 950728I901	.9924	1.997
89	SST-ICS-2 950908I102	-.0255	9.225
90	STD1-Blank 108444	.0004	-.0001
91	95-007946-H1T @10	.0061	.0051
92	95-007946-H1T @2	.0315	.0167
93	95-007946-H2T @10	.0017	.0035
94	95-007946-H2T @2	.0112	.0013
95	95-007947-H1 @10	.0402	.0007
96	95-007947-H1 @2	.1929	-.0003
97	95-007947-H2 @10	.0488	.0006
98	95-007947-H2 @2	.2239	-.0009
99	MCVA 950728I901	1.004	2.044
100	SST-ICS-2 950908I102	-.0289	9.749
101	STD1-Blank 108444	.0001	-.0018
102	95-007948-H1 @10	.0409	-.0013
103	95-007948-H1 @2	.1959	-.0047
104	95-007948-H2 @10	.0321	.0017
105	95-007948-N2 @2	.1613	-.0053
106	SRM-2709-H @10	.0190	.0131
107	SRM-2709-H @2	.0894	.0510
108	MCVA 950728I901	1.007	2.034
109	SST-ICS-2 950908I102	-.0267	9.340
110	MCVB 950911H901	.0016	-.0157
111	MCVB 950911H901	.0009	-.0190
112	SRM-1643c 103668	0.0858	-.0024
113	CCV1 950713H901	1.009	-.0011
114	STD1-Blank 108444	-.0002	-.0020

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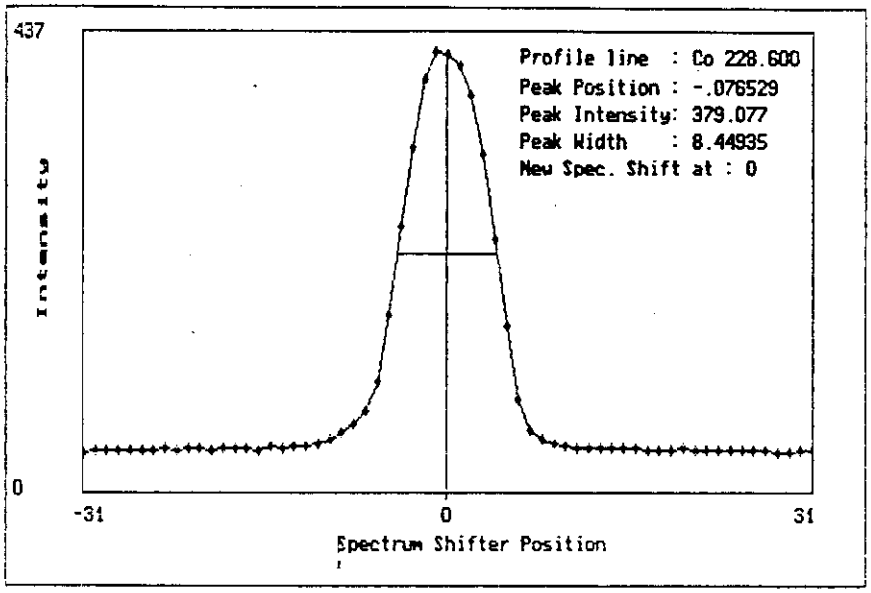

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/13/95 09:04:30
Comment: SPC-BLK FOR Mn/CU RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6416	2048	1619	1028	301	169	1415
SDev	10	6	27	24	1	0	6
%RSD	.1592	.2690	1.687	2.298	.1920	.0000	.3893
#1	6409	2054	1600	1010	301	169	1412
#2	6412	2045	1606	1020	300	169	1421
#3	6428	2044	1650	1055	301	169	1411

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1233	433	6156	1389	456	448	1901
SDev	2	8	26	2	18	1	2
%RSD	.1239	1.966	.4225	.1100	3.947	.1288	.1215
#1	1232	441	6130	1389	444	448	1900
#2	1235	424	6182	1387	477	448	1900
#3	1233	433	6155	1390	448	449	1904

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	331	548	2132	971	411	2319	192
SDev	1	1	4	3	4	8	1
%RSD	.1743	.1825	.1776	.2593	.9732	.3485	.6004
#1	331	547	2130	971	407	2310	191
#2	331	548	2129	968	415	2324	193
#3	332	549	2136	973	411	2324	193

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	764	402	3600	468	1276	13120	14960
SDev	6	4	3	9	20	49	17
%RSD	.7367	1.037	.0699	1.917	1.565	.3720	.1143
#1	777	405	3598	463	1299	13080	14950
#2	767	403	3603	462	1263	13170	14950
#3	787	397	3600	478	1266	13120	14980

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	14890	2553	1507	3737	6674	140	9663
SDev	10	23	11	10	32	0	25
%RSD	.0676	.9161	.7338	.2693	.4842	.0000	.2565
#1	14890	2580	1497	3736	6682	140	9691
#2	14880	2540	1506	3728	6638	140	9645
#3	14900	2539	1519	3748	6701	140	9652

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2298	636	340	16880	958	304	250
SDev	15	3	2	44	2	7	1
%RSD	.6540	.3959	.6129	.2602	.1594	2.303	.4625
#1	2310	633	342	16850	957	297	249
#2	2282	636	339	16860	958	311	249
#3	2303	638	338	16930	960	304	251

Elem	Zn	Zr
Avge	332	789
SDev	12	2
%RSD	3.513	.2535
#1	330	787
#2	322	789
#3	345	791

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/13/95 09:04:30
Comment: SPC-BLK FOR Mn/CU RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0053	.0176	.0065	-.0028	.0012	.0001	.0157
SDev	.0002	.0039	.0099	.0022	.0001	.0000	.0021
%RSD	3.996	22.31	152.0	78.28	6.000	4.903	13.07
#1	.0052	.0218	-.0002	-.0045	.0012	.0001	.0148
#2	.0052	.0171	.0019	-.0036	.0011	.0001	.0181
#3	.0055	.0140	.0178	-.0003	.0012	.0001	.0143

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	.0017	.0389	.0036	-.0003	.0017	.0041
SDev	.0005	.0009	.0052	.0002	.0028	.0001	.0002
%RSD	9.745	51.45	13.27	4.648	866.2	8.177	4.455
#1	.0048	.0026	.0340	.0037	-.0023	.0016	.0040
#2	.0057	.0009	.0442	.0035	.0029	.0016	.0040
#3	.0048	.0016	.0384	.0038	-.0017	.0019	.0044

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0033	1.380	.0072	.0041	.0147	.0006
SDev	.0001	.0002	.062	.0007	.0014	.0038	.0001
%RSD	6.189	6.301	4.489	10.31	33.37	25.60	23.12
#1	.0013	.0030	1.353	.0074	.0027	.0106	.0005
#2	.0013	.0033	1.337	.0064	.0054	.0179	.0007
#3	.0015	.0034	1.451	.0079	.0041	.0157	.0007

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.1191	.0319	.0037	.0264	.0387	.0749
SDev	.0009	.0183	.0008	.0029	.0148	.0042	.0043
%RSD	47.10	15.35	2.379	79.56	56.18	10.71	5.746
#1	.0009	-.1044	.0314	.0022	.0435	.0349	.0700
#2	.0026	-.1133	.0328	.0018	.0167	.0431	.0768
#3	.0026	-.1396	.0316	.0071	.0190	.0382	.0779

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0389	.0094	.0137	.0122	.1351	.0001	.0166
SDev	.0007	.0066	.0057	.0024	.0207	.0000	.0023
%RSD	1.728	69.74	41.29	19.39	15.28	3.510	13.73
#1	.0389	.0170	.0085	.0128	.1422	.0001	.0193
#2	.0382	.0058	.0129	.0096	.1119	.0001	.0151
#3	.0396	.0055	.0197	.0141	.1513	.0001	.0155

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.0024	.0007	.5465	.0047	.0083	.0020
SDev	.0064	.0003	.0040	.0445	.0002	.0109	.0003

%RSD	98.05	12.53	609.7	8.146	4.080	130.8	17.41
#1	.0132	.0021	.0052	.5138	.0045	-.0025	.0018
#2	.0004	.0025	-.0010	.5286	.0047	.0193	.0018
#3	.0061	.0027	-.0022	.5972	.0049	.0083	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0007	.0036
SDev	.0008	.0007
%RSD	110.3	20.23
#1	.0005	.0028
#2	.0000	.0041
#3	.0015	.0040

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/13/95 09:07:46
Comment: SPC-STD FOR Mn/CU RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6509	2077	1693	1089	301	169	1656
SDev	48	8	31	20	2	1	21
%RSD	.7298	.3760	1.812	1.806	.6908	.3410	1.244
#1	6461	2068	1689	1068	299	169	1658
#2	6556	2082	1664	1107	303	170	1675
#3	6509	2081	1725	1092	302	169	1634

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1215	451	6181	1397	475	23910	2143
SDev	8	16	41	9	8	150	6
%RSD	.6179	3.464	.6570	.6240	1.607	.6283	.3000
#1	1207	441	6154	1387	482	24060	2136
#2	1222	443	6228	1403	477	23760	2148
#3	1215	469	6162	1401	467	23920	2146

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	332	604	2141	975	29340	2431	72520
SDev	2	2	13	7	590	25	130
%RSD	.6276	.3311	.5852	.7179	2.012	1.031	.1786
#1	330	604	2129	968	29990	2407	72650
#2	334	606	2154	982	28850	2457	72390
#3	331	602	2140	975	29170	2429	72520

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	811	409	3629	465	1426	135900	15050
SDev	3	4	29	3	12	165	82
%RSD	.3765	.8594	.7863	.7450	.8502	.1215	.5442
#1	812	405	3600	467	1415	135700	14980
#2	808	412	3657	461	1424	135800	15140
#3	814	409	3631	467	1439	136000	15040

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	14950	2641	1527	3809	6772	140	10380
SDev	101	47	14	21	40	1	41
%RSD	.6776	1.796	.9084	.5408	.5836	.4114	.3938
#1	14860	2590	1523	3790	6739	140	10340
#2	15060	2684	1515	3831	6816	141	10420
#3	14920	2648	1542	3807	6762	140	10370

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2311	642	372	16940	963	312	250
SDev	20	4	6	122	6	4	1
%RSD	.8828	.5616	1.622	.7185	.6674	1.294	.4613
#1	2289	638	366	16810	956	316	249
#2	2329	645	378	17050	968	308	251
#3	2316	643	371	16960	966	313	251

Elem	Zn	Zr
Avge	148900	793
SDev	546	5
%RSD	.3667	.5962
#1	149200	789
#2	148200	798
#3	149200	791

Analysis Report Wed 09-13-95 09:11:11 AM page

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/13/95 09:07:46
Comment: SPC-STD FOR Mn/CU RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082	.0144	.0334	.0029	.0012	.0001	-.0002
SDev	.0012	.0019	.0113	.0018	.0003	.0000	.0078
%RSD	14.75	13.50	33.90	60.40	20.15	19.26	3534.
#1	.0071	.0124	.0325	.0010	.0010	.0001	.0002
#2	.0095	.0146	.0225	.0045	.0014	.0001	.0074
#3	.0082	.0163	.0451	.0032	.0013	.0001	-.0083

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0033	.0437	.0046	.0027	10.43	.0016
SDev	.0020	.0015	.0075	.0009	.0012	.07	.0005
%RSD	232.2	45.03	17.17	20.56	45.52	.6433	31.11
#1	-.0029	.0023	.0391	.0035	.0037	10.49	.0010
#2	.0011	.0026	.0524	.0052	.0029	10.36	.0020
#3	-.0008	.0050	.0397	.0050	.0014	10.43	.0019

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0030	1.533	.0085	9.812	.0299	10.01
SDev	.0003	.0005	.205	.0020	.200	.0101	.02
%RSD	21.56	16.83	13.38	23.30	2.040	33.89	.1795
#1	.0012	.0032	1.337	.0065	10.03	.0208	10.03
#2	.0018	.0034	1.746	.0105	9.647	.0408	9.991
#3	.0013	.0025	1.517	.0084	9.754	.0280	10.01

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	-.0886	.0404	.0028	.0089	10.60	.0933
SDev	.0005	.0152	.0079	.0012	.0090	.01	.0139
%RSD	66.52	17.15	19.54	42.82	101.0	.1340	14.87
#1	.0009	-.1044	.0323	.0035	.0003	10.59	.0824
#2	.0002	-.0741	.0481	.0014	.0082	10.60	.1089
#3	.0012	-.0871	.0408	.0034	.0182	10.62	.0886

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0445	.0334	.0237	.0285	.1498	.0001	.0143
SDev	.0094	.0129	.0073	.0039	.0225	.0001	.0037
%RSD	21.06	38.54	30.84	13.62	15.05	42.33	26.04
#1	.0368	.0197	.0221	.0252	.1316	.0001	.0111
#2	.0549	.0452	.0174	.0328	.1750	.0002	.0184
#3	.0417	.0354	.0317	.0275	.1427	.0001	.0135

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	.0032	.0542	.5825	.0055	.0076	.0021
SDev	.0030	.0004	.0102	.1162	.0009	.0066	.0003

%RSD	29.30	11.88	18.82	19.94	15.81	86.23	13.92
#1	.0068	.0028	.0447	.4563	.0045	.0136	.0018
#2	.0126	.0035	.0649	.6850	.0061	.0006	.0023
#3	.0110	.0033	.0530	.6062	.0059	.0086	.0023

Elem	Zn	Zr
Units	ppm	ppm
Avge	9.907	.0040
SDev	.036	.0007
%RSD	.3673	16.43
#1	9.930	.0037
#2	9.865	.0048
#3	9.926	.0036

Standardization Rot. Wed 09-13-95 09:22:17 AM page 1

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6444	.2055	.1653	.1021	.0302	.0169	.1427
SDev	.0019	.0006	.0014	.0007	.0001	.0000	.0010
%RSD	.2994	.3039	.8317	.6665	.1910	.0000	.7363
#1	.6438	.2053	.1650	.1029	.0302	.0169	.1416
#2	.6429	.2050	.1641	.1016	.0302	.0169	.1437
#3	.6466	.2062	.1668	.1019	.0303	.0169	.1427

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1238	.0435	.6197	.1393	.0459	.0455	.1911
SDev	.0005	.0016	.0031	.0004	.0003	.0003	.0003
%RSD	.3983	3.655	.5032	.2988	.5487	.7613	.1385
#1	.1236	.0453	.6185	.1390	.0459	.0457	.1910
#2	.1235	.0425	.6173	.1392	.0456	.0451	.1909
#3	.1244	.0426	.6232	.1398	.0461	.0457	.1914

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0333	.0551	.2144	.0977	.0408	.2335	.0193
SDev	.0001	.0003	.0004	.0003	.0004	.0015	.0001
%RSD	.3003	.4802	.1866	.3596	1.068	.6430	.5181
#1	.0332	.0549	.2144	.0973	.0403	.2334	.0194
#2	.0333	.0550	.2140	.0977	.0411	.2320	.0192
#3	.0334	.0554	.2148	.0980	.0410	.2350	.0193

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0790	.0406	.3623	.0465	.1269	1.319	1.505
SDev	.0007	.0004	.0018	.0004	.0011	.007	.006
%RSD	.8861	1.074	.5032	.9374	.8647	.5222	.4174
#1	.0793	.0404	.3626	.0463	.1265	1.316	1.500
#2	.0795	.0403	.3603	.0462	.1281	1.315	1.501
#3	.0782	.0411	.3639	.0470	.1260	1.327	1.512

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.496	.2560	.1507	.3729	.6690	.0140	.9719
SDev	.004	.0019	.0014	.0007	.0017	.0001	.0057
%RSD	.2376	.7383	.9300	.1826	.2550	.4114	.5895
#1	1.493	.2567	.1511	.3721	.6695	.0140	.9770
#2	1.495	.2575	.1518	.3734	.6671	.0140	.9730
#3	1.500	.2539	.1491	.3731	.6704	.0141	.9657

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2314	.0639	.0344	1.699	.0962	.0304	.0251
SDev	.0014	.0002	.0003	.006	.0003	.0003	.0001
%RSD	.6252	.2711	.7309	.3469	.3652	.8703	.2303
#1	.2305	.0638	.0344	1.698	.0958	.0305	.0251
#2	.2307	.0638	.0347	1.694	.0962	.0301	.0250
#3	.2331	.0641	.0342	1.706	.0965	.0306	.0251

Elem	Zn	Zr
Avge	.0332	.0793
SDev	.0011	.0001

%RSD	3.252	.0728
#1	.0324	.0793
#2	.0344	.0792
#3	.0327	.0793

Standardization Rpt. Wed 09-13-95 09:24:00 AM page 1

Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.048	17.39	12.70	4.522	73.87	45.43	11.98
SDev	.038	.05	.02	.020	.17	.14	.04
%RSD	.4724	.2761	.1322	.4512	.2281	.3045	.3187
#1	8.065	17.37	12.69	4.523	73.87	45.45	11.97
#2	8.004	17.35	12.69	4.502	73.70	45.28	11.96
#3	8.074	17.44	12.72	4.542	74.04	45.55	12.03

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.910	5.957	59.34	8.354	14.91	28.79	25.32
SDev	.087	.015	.15	.042	.05	.08	.09
%RSD	1.466	.2494	.2462	.5009	.3488	.2698	.3410
#1	5.986	5.945	59.26	8.357	14.92	28.76	25.36
#2	5.816	5.951	59.26	8.310	14.86	28.73	25.22
#3	5.928	5.973	59.51	8.394	14.96	28.87	25.38

Standardization Rot. Wed 09-13-95 09:27:49 AM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	73.27	49.69	78.13	9.941	3.044	13.44	7.059
SDev	.30	.13	.02	.017	.042	.21	.005
%RSD	.4055	.2610	.0301	.1754	1.383	1.527	.0697
#1	72.93	49.55	78.11	9.921	2.997	13.20	7.054
#2	73.49	49.80	78.16	9.945	3.058	13.54	7.063
#3	73.38	49.73	78.13	9.955	3.077	13.57	7.060

Elem	P
Avge	14.02
SDev	.02
%RSD	.1298
#1	13.99
#2	14.03
#3	14.02

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Method: ICP1 Standard: STD4

Elem	Dv	Eu	La	Nd	Th
Avge	49.05	11.33	6.199	16.87	11.96
SDev	.42	.10	.043	.15	.08
%RSD	.8640	.8500	.7009	.8725	.6389
#1	48.74	11.25	6.165	16.75	11.90
#2	48.88	11.29	6.184	16.82	11.93
#3	49.53	11.44	6.248	17.03	12.05

Standardization Rpt. Wed 09-13-95 09:35:39 AM page 1

Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.01	24.83	36.38	12.27	3.225
SDev	.04	.03	.02	.01	.004
%RSD	.1457	.1054	.0673	.1174	.1175
#1	26.98	24.82	36.36	12.28	3.226
#2	27.05	24.86	36.41	12.29	3.229
#3	26.99	24.81	36.38	12.26	3.221

Standardization Rpt. Wed 09-13-95 09:39:42 AM page 1

Method: ICP1 Standard: STD6

Elem	U
Avge	51.01
SDev	.27
%RSD	.5373
#1	50.80
#2	50.91
#3	51.32

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.859	77.18	54.95
SDev	.005	.27	.15
%RSD	.2450	.3486	.2716
#1	1.857	76.99	54.94
#2	1.856	77.06	54.80
#3	1.864	77.49	55.10

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	29.88	26.91	3.862	1.186
SDev	.17	.16	.022	.004
%RSD	.5784	.6121	.5604	.3493
#1	30.08	27.09	3.887	1.191
#2	29.81	26.84	3.848	1.184
#3	29.75	26.78	3.852	1.183

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.09	49.95	8.451	3.276
SDev	.10	.28	.041	.013
%RSD	.4573	.5660	.4824	.3881
#1	21.19	50.25	8.490	3.290
#2	21.00	49.69	8.408	3.264
#3	21.07	49.90	8.454	3.275

Standardization Report Wed 09-13-95 09:52:24 AM page

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.342033	-.220418	09/13/95 09:50:14
Al	308.215	STD3	STD1-Blank	6.84364	-1.40637	09/13/95 09:50:14
As	193.600	STD5	STD1-Blank	3.72523	-.615781	09/13/95 09:50:14
B	249.600	STD3	STD1-Blank	1.00829	-.102980	09/13/95 09:50:14
Ba	493.400	STD2	STD1-Blank	1.24727	-.037709	09/13/95 09:50:14
Be	313.042	STD7	STD1-Blank	.542927	-.009175	09/13/95 09:50:14
Bi	223.061	STD8	STD1-Blank	3.73647	-.533070	09/13/95 09:50:14
Ca	317.900	STD3	STD1-Blank	3.20475	-.396855	09/13/95 09:50:14
Cd	228.800	STD3	STD1-Blank	1.01040	-.043919	09/13/95 09:50:14
Ce	418.659	STD5	STD1-Blank	2.06536	-1.27983	09/13/95 09:50:14
Co	228.600	STD2	STD1-Blank	1.15963	-.161575	09/13/95 09:50:14
Cr	205.500	STD2	STD1-Blank	1.58052	-.072493	09/13/95 09:50:14
Cu	324.700	STD2	STD1-Blank	4.46761	-.203276	09/13/95 09:50:14
Dy	353.170	STD4	STD1-Blank	1.02332	-.195556	09/13/95 09:50:14
Eu	381.900	STD4	STD1-Blank	1.77097	-.058973	09/13/95 09:50:14
Fe	259.900	STD2	STD1-Blank	2.70958	-.149298	09/13/95 09:50:14
K	766.500	STD3	STD1-Blank	176.703	-37.8852	09/13/95 09:50:14
La	398.852	STD4	STD1-Blank	3.27788	-.320140	09/13/95 09:50:14
Li	670.700	STD3	STD1-Blank	3.73216	-.152272	09/13/95 09:50:14
Mg	279.078	STD2	STD1-Blank	5.53174	-1.29148	09/13/95 09:50:14
Mn	257.600	STD3	STD1-Blank	1.42055	-.027417	09/13/95 09:50:14
Mo	202.000	STD2	STD1-Blank	1.67994	-.132715	09/13/95 09:50:14
Na	588.900	STD2	STD1-Blank	42.5945	-1.72934	09/13/95 09:50:14
Nd	406.106	STD4	STD1-Blank	3.02916	-1.09737	09/13/95 09:50:14
Ni	231.600	STD2	STD1-Blank	3.38409	-.157360	09/13/95 09:50:14
P	214.900	STD3	STD1-Blank	7.20027	-.913474	09/13/95 09:50:
Pb	220.300	STD2	STD1-Blank	.861691	-1.13671	09/13/95 09:50:
Pd	360.959	STD9	STD1-Blank	2.55299	-3.84115	09/13/95 09:50:14
Rh	343.489	STD9	STD1-Blank	1.03199	-1.54396	09/13/95 09:50:14
Sb	206.838	STD5	STD1-Blank	2.76805	-.708713	09/13/95 09:50:14
Se	196.026	STD8	STD1-Blank	5.38875	-.811906	09/13/95 09:50:14
Si	288.100	STD7	STD1-Blank	2.60393	-.970918	09/13/95 09:50:14
Sn	242.950	STD9	STD1-Blank	7.38626	-4.94141	09/13/95 09:50:14
Sr	421.500	STD2	STD1-Blank	1.19911	-.016828	09/13/95 09:50:14
Te	214.275	STD7	STD1-Blank	.926347	-.900317	09/13/95 09:50:14
Th	283.730	STD4	STD1-Blank	4.26312	-.986628	09/13/95 09:50:14
Ti	334.900	STD2	STD1-Blank	1.34706	-.086077	09/13/95 09:50:14
Tl	190.864	STD8	STD1-Blank	17.3651	-.597939	09/13/95 09:50:14
U	378.280	STD6	STD1-Blank	10.1406	-17.2330	09/13/95 09:50:14
V	292.402	STD5	STD1-Blank	1.64231	-.157936	09/13/95 09:50:14
W	224.875	STD9	STD1-Blank	15.6100	-.474544	09/13/95 09:50:14
Y	371.030	STD5	STD1-Blank	3.12480	-.078328	09/13/95 09:50:14
Zn	213.800	STD2	STD1-Blank	.695563	-.023069	09/13/95 09:50:14
Zr	339.100	STD2	STD1-Blank	1.98095	-.157023	09/13/95 09:50:14

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.92369	.220418	09/13/95 09:50:14
Al	308.215	STD3	STD1-Blank	.146121	1.40637	09/13/95 09:50:14
As	193.600	STD5	STD1-Blank	.268440	.615781	09/13/95 09:50:14
B	249.600	STD3	STD1-Blank	.991776	.102980	09/13/95 09:50:14
Ba	493.400	STD2	STD1-Blank	.801753	.037709	09/13/95 09:50:14
Be	313.042	STD7	STD1-Blank	1.84187	.009175	09/13/95 09:50:14
Bi	223.061	STD8	STD1-Blank	.267632	.533070	09/13/95 09:50:14
Ca	317.900	STD3	STD1-Blank	.312037	.396855	09/13/95 09:50:14
Cd	228.800	STD3	STD1-Blank	.989707	.043919	09/13/95 09:50:14
Ce	418.659	STD5	STD1-Blank	.484177	1.27983	09/13/95 09:50:14
Co	228.600	STD2	STD1-Blank	.862343	.161575	09/13/95 09:50:14
Cr	205.500	STD2	STD1-Blank	.632702	.072493	09/13/95 09:50:14
Cu	324.700	STD2	STD1-Blank	.223833	.203276	09/13/95 09:50:14
Dy	353.170	STD4	STD1-Blank	.977214	.195556	09/13/95 09:50:14
Eu	381.900	STD4	STD1-Blank	.564662	.058973	09/13/95 09:50:14
Fe	259.900	STD2	STD1-Blank	.369060	.149298	09/13/95 09:50:14
K	766.500	STD3	STD1-Blank	.005659	37.8852	09/13/95 09:50:14
La	398.852	STD4	STD1-Blank	.305075	.320140	09/13/95 09:50:14
Li	670.700	STD3	STD1-Blank	.267941	.152272	09/13/95 09:50:14
Mg	279.078	STD2	STD1-Blank	.180775	1.29148	09/13/95 09:50:14
Mn	257.600	STD3	STD1-Blank	.703953	.027417	09/13/95 09:50:14
Mo	202.000	STD2	STD1-Blank	.595260	.132715	09/13/95 09:50:14
Na	588.900	STD2	STD1-Blank	.023477	1.72934	09/13/95 09:50:14
Nd	406.106	STD4	STD1-Blank	.330124	1.09737	09/13/95 09:50:14
Ni	231.600	STD2	STD1-Blank	.295500	.157360	09/13/95 09:50:14
P	214.900	STD3	STD1-Blank	.138884	.913474	09/13/95 09:50:14
Pb	220.300	STD2	STD1-Blank	1.16051	1.13671	09/13/95 09:50:14
Pd	360.959	STD9	STD1-Blank	.391697	3.84115	09/13/95 09:50:14
Rh	343.489	STD9	STD1-Blank	.968999	1.54396	09/13/95 09:50:14
Sb	206.838	STD5	STD1-Blank	.361265	.708713	09/13/95 09:50:14
Se	196.026	STD8	STD1-Blank	.185572	.811906	09/13/95 09:50:14
Si	288.100	STD7	STD1-Blank	.384035	.970918	09/13/95 09:50:14
Sn	242.950	STD9	STD1-Blank	.135386	4.94141	09/13/95 09:50:14
Sr	421.500	STD2	STD1-Blank	.833950	.016828	09/13/95 09:50:14
Te	214.275	STD7	STD1-Blank	1.07951	.900317	09/13/95 09:50:14
Th	283.730	STD4	STD1-Blank	.234570	.986628	09/13/95 09:50:14
Ti	334.900	STD2	STD1-Blank	.742357	.086077	09/13/95 09:50:14
Tl	190.864	STD8	STD1-Blank	.057587	.597939	09/13/95 09:50:14
U	378.280	STD6	STD1-Blank	.098613	17.2330	09/13/95 09:50:14
V	292.402	STD5	STD1-Blank	.608898	.157936	09/13/95 09:50:14
W	224.875	STD9	STD1-Blank	.064062	.474544	09/13/95 09:50:14
Y	371.030	STD5	STD1-Blank	.320020	.078328	09/13/95 09:50:14
Zn	213.800	STD2	STD1-Blank	1.43768	.023069	09/13/95 09:50:14
Zr	339.100	STD2	STD1-Blank	.504808	.157023	09/13/95 09:50:14

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	-.000000	.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	-.000000	.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	-.000000	.000000
		STD3	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	-.000001
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Nd	406.106	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	-.000004
Ni	231.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Sb	206.838	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	-.000000	.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	-.000001	.000001
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	-.000000	.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

Analysis Report Wed 09-13-95 10:03:13 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 10:01:54
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0034	-.0033	.0074	.0001	.0000	.0024
SDev	.0012	.0024	.0091	.0014	.0001	.0000	.0054
%RSD	73.50	71.43	274.4	18.27	116.5	450.9	222.6
#1	.0028	.0032	.0010	.0083	.0002	.0000	.0065
#2	.0015	.0059	-.0137	.0059	.0002	-.0000	.0046
#3	.0005	.0011	.0028	.0081	-.0000	.0000	-.0037

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	-.0002	.0044	.0012	.0004	.0088	.0004
SDev	.0020	.0007	.0067	.0002	.0011	.0010	.0007
%RSD	55.59	409.1	153.0	20.17	289.2	11.12	168.0
#1	-.0028	.0006	.0076	.0010	.0008	.0099	.0005
#2	-.0022	-.0009	.0089	.0015	.0013	.0085	.0011
#3	-.0060	-.0003	-.0033	.0011	-.0009	.0080	-.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0003	.1531	.0009	.0025	.0054	.0002
SDev	.0001	.0006	.1946	.0008	.0011	.0031	.0000
%RSD	27.32	192.1	127.1	93.64	43.30	57.56	10.22
#1	.0003	.0003	.2827	.0008	.0019	.0086	.0002
#2	.0003	.0008	.2474	.0017	.0037	.0023	.0002
#3	.0002	-.0003	-.0707	.0001	.0019	.0054	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0169	.0088	-.0003	-.0027	.0028	.0333
SDev	.0010	.0147	.0049	.0030	.0141	.0088	.0075
%RSD	139.9	87.23	56.27	1119.	515.3	313.4	22.69
#1	-.0012	.0339	.0085	.0030	.0040	.0123	.0388
#2	.0004	.0082	.0138	-.0007	.0067	-.0049	.0362
#3	-.0014	.0085	.0040	-.0031	-.0189	.0010	.0247

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	.0088	.0044	.0968	.0335	.0004	.0053
SDev	.0060	.0018	.0129	.0035	.0164	.0001	.0046
%RSD	82.57	20.99	292.5	3.633	48.86	18.59	87.50
#1	.0086	.0104	.0061	.0955	.0459	.0003	.0091
#2	.0126	.0092	.0163	.1008	.0396	.0004	.0065
#3	.0007	.0068	-.0092	.0942	.0150	.0003	.0002

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0003	-.0122	.0978	.0005	.0075	.0004
SDev	.0035	.0002	.0021	.0739	.0010	.0033	.0001

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%RSD	360.0	53.53	17.24	75.55	197.7	44.36	13.82
#1	.0007	.0004	-.0097	.1305	.0013	.0042	.0003
#2	.0014	.0004	-.0134	.1498	.0008	.0073	.0003
#3	-.0051	.0001	-.0133	.0132	-.0006	.0109	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0006	.0003
SDev	.0003	.0005
%RSD	51.23	157.2
#1	-.0007	.0003
#2	-.0008	.0008
#3	-.0002	-.0002

Analysis Report QC Standard Wed 09-13-95 10:07:57 AM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 10:06:38
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DRS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4837	24.67	2.546	1.979	.5057	.0930	24.39
SDev	.0018	.12	.008	.013	.0027	.0003	.12
%RSD	.3634	.4684	.3135	.6477	.5432	.3050	.4764
#1	.4828	24.61	2.549	1.970	.5044	.0928	24.31
#2	.4857	24.80	2.552	1.993	.5089	.0933	24.52
#3	.4826	24.60	2.537	1.973	.5039	.0929	24.34
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.70	.4941	-.0393	1.016	1.012	1.010	-.0010
SDev	.08	.0011	.0047	.001	.009	.006	.0004
%RSD	.3101	.2181	12.08	.0642	.8430	.5545	36.85
#1	24.65	.4946	-.0348	1.016	1.002	1.008	-.0009
#2	24.79	.4928	-.0443	1.017	1.014	1.017	-.0013
#3	24.66	.4948	-.0387	1.017	1.018	1.006	-.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.26	25.35	.0038	1.928	26.16	.5076
SDev	.0001	.07	.27	.0017	.020	.08	.0020
%RSD	5.282	.3428	1.083	46.37	1.054	.3221	.3860
#1	.0017	20.22	25.43	.0041	1.919	26.11	.5064
#2	.0019	20.34	25.57	.0019	1.951	26.26	.5099
#3	.0019	20.21	25.04	.0053	1.913	26.11	.5066
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.024	24.08	.0093	1.043	.0341	2.576	-.0210
SDev	.003	.28	.0044	.004	.0042	.003	.0106
%RSD	.3307	1.175	47.63	.3808	12.38	.1296	50.50
#1	1.024	24.03	.0081	1.046	.0387	2.576	-.0147
#2	1.028	24.39	.0056	1.039	.0303	2.579	-.0333
#3	1.021	23.83	.0142	1.044	.0334	2.572	-.0151
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Wed 09-13-95 10:07:57 AM page 2

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0048	2.495	2.485	18.56	-.0748	.5107	-.0047
SDev	.0028	.015	.012	.05	.0167	.0024	.0055
%RSD	57.95	.5885	.4928	.2847	22.33	.4795	117.0
#1	-.0020	2.484	2.474	18.54	-.0924	.5097	-.0098
#2	-.0075	2.488	2.498	18.62	-.0727	.5135	-.0052
#3	-.0048	2.511	2.483	18.52	-.0592	.5090	.0010
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0365	.9908	2.491	-.0078	.9817	.0251	.0001
SDev	.0043	.0033	.019	.0152	.0036	.0087	.0002
%RSD	11.76	.3375	.7640	193.7	.3625	34.57	136.9
#1	.0319	.9887	2.478	-.0106	.9795	.0257	.0000
#2	.0373	.9947	2.513	.0085	.9858	.0162	.0000
#3	.0404	.9892	2.482	-.0214	.9798	.0336	.0004
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9992	2.029
SDev	.0080	.009
%RSD	.8038	.4612
#1	.9938	2.025
#2	1.008	2.039
#3	.9955	2.022
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 10:11:44 AM page :

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 10:10:24
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	90.78	.1658	.0137	.0025	.0010	.0850
SDev	.0003	.67	.0152	.0011	.0001	.0000	.0093
%RSD	4.822	.7409	9.188	8.070	5.889	.5447	10.98
#1	.0061	90.13	.1798	.0127	.0026	.0010	.0878
#2	.0055	90.75	.1680	.0135	.0026	.0010	.0746
#3	.0060	91.47	.1495	.0149	.0024	.0010	.0927

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0664	.0103	-.0482	.0163	.0359	-.0337	.0068
SDev	.0012	.0011	.0098	.0011	.0013	.0006	.0006
%RSD	1.775	11.06	20.36	6.673	3.612	1.782	9.310
#1	.0665	.0090	-.0390	.0153	.0345	-.0330	.0069
#2	.0675	.0112	-.0471	.0175	.0370	-.0338	.0074
#3	.0652	.0106	-.0586	.0161	.0363	-.0342	.0061

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	18.41	4093.	.0200	.0105	.3058	.0038
SDev	.0001	.13	28.	.0008	.0008	.0069	.0002
%RSD	3.217	.6790	.6752	4.033	7.348	2.266	4.508
#1	.0034	18.27	4069.	.0209	.0112	.3099	.0040
#2	.0036	18.43	4087.	.0197	.0108	.3097	.0037
#3	.0034	18.52	4124.	.0194	.0097	.2978	.0037

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0179	.3287	.0409	48.13	.1156	.2795	-.1308
SDev	.0015	.0105	.0032	.32	.0104	.0059	.0152
%RSD	8.317	3.189	7.863	.6691	9.039	2.116	11.64
#1	.0163	.3408	.0407	47.77	.1271	.2805	-.1269
#2	.0192	.3228	.0442	48.21	.1132	.2849	-.1179
#3	.0182	.3225	.0378	48.39	.1066	.2732	-.1476

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0566	.0530	.0913	.1495	.4028	.0010	.0678
SDev	.0033	.0037	.0120	.0033	.0237	.0001	.0023
%RSD	5.787	6.913	13.10	2.204	5.890	9.902	3.347
#1	.0554	.0523	.0904	.1533	.4257	.0011	.0702
#2	.0604	.0570	.1037	.1482	.4046	.0009	.0676
#3	.0541	.0497	.0799	.1471	.3783	.0009	.0656

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6034	.0064	.2488	44.81	.0124	.0733	.0072
SDev	.0099	.0002	.0028	.31	.0004	.0067	.0001

%RSD	1.643	3.221	1.130	.6856	3.604	9.130	1.981
#1	.6116	.0065	.2518	44.47	.0125	.0805	.0073
#2	.5924	.0066	.2463	44.92	.0129	.0721	.0070
#3	.6062	.0062	.2481	45.05	.0120	.0673	.0073

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0214	9.397
SDev	.0026	.076
%RSD	12.34	.8138
#1	-.0236	9.315
#2	-.0222	9.410
#3	-.0185	9.466

Analysis Report QC Standard Wed 09-13-95 10:15:51 AM page

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 10:14:31
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

U,W not for QC
PASS (X)
DRS 9/13/

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	-.1832	.0058	.0074	.0005	.0003	-.0055
SDev	.0001	.0008	.0018	.0009	.0001	.0000	.0042
%RSD	10.10	.4291	31.37	12.84	13.13	1.745	77.15
#1	.0014	-.1831	.0043	.0064	.0006	.0003	-.0096
#2	.0017	-.1840	.0078	.0076	.0005	.0003	-.0011
#3	.0015	-.1825	.0053	.0083	.0005	.0003	-.0057
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0202	.0005	1.950	.0040	.0053	.0149	1.935
SDev	.0003	.0010	.008	.0010	.0012	.0026	.010
%RSD	1.565	180.4	.4117	25.03	23.42	17.36	.5234
#1	.0200	.0016	1.958	.0029	.0059	.0162	1.946
#2	.0200	.0002	1.950	.0040	.0038	.0166	1.931
#3	.0205	-.0002	1.942	.0049	.0061	.0120	1.927
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.922	.0063	.4418	1.927	.0044	.0826	.0007
SDev	.011	.0008	.0530	.009	.0013	.0054	.0003
%RSD	.5667	11.85	12.00	.4686	29.88	6.549	43.60
#1	1.935	.0065	.4418	1.937	.0030	.0835	.0004
#2	1.918	.0055	.4948	1.922	.0056	.0875	.0008
#3	1.914	.0070	.3887	1.922	.0045	.0768	.0009
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.0121	1.928	.0091	-.0110	.0543	1.981
SDev	.0010	.0131	.009	.0016	.0106	.0017	.007
%RSD	50.89	108.4	.4801	17.10	96.41	3.140	.3362
#1	.0015	-.0022	1.939	.0073	-.0232	.0524	1.986
#2	.0031	.0235	1.923	.0100	-.0034	.0556	1.983
#3	.0012	.0149	1.923	.0100	-.0065	.0549	1.973
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.964	.0158	.0152	.0925	2.063	.0006	1.801
SDev	.007	.0025	.0110	.0022	.003	.0000	.021
%RSD	.3699	15.63	72.65	2.328	.1375	.8407	1.193
#1	1.972	.0181	.0153	.0942	2.066	.0006	1.825
#2	1.960	.0160	.0262	.0933	2.062	.0006	Q1.787
#3	1.959	.0132	.0041	.0901	2.061	.0005	Q1.789
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.917	.0017	.0033	Q8.676	-.0001	Q.4954	.9584
SDev	.031	.0003	.0069	.058	.0000	.0094	.0054
%RSD	.6230	14.73	208.2	.6695	36.97	1.902	.5637
#1	4.952	.0015	-.0042	Q8.667	-.0001	Q.4953	.9645
#2	4.906	.0020	.0093	Q8.622	-.0001	Q.5049	.9564
#3	4.894	.0016	.0049	Q8.737	-.0001	Q.4860	.9542
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0022	.0010
SDev	.0010	.0005
%RSD	46.71	50.76
#1	.0014	.0008
#2	.0019	.0006
#3	.0034	.0016
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 10:19:45 AM page

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/13/95 10:18:20
Comment:
Mode: CONC Corr. Factor: 1 (KOH/Ni FUSION) K.SILVERS

No Link to QC Table DM 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.1067	.0795	.1188	.0495	.0221	.0071
SDev	.0015	.0030	.0080	.0018	.0003	.0001	.0081
%RSD	141.4	2.821	10.08	1.530	.5311	.6912	114.2
#1	-.0003	.1085	.0703	.1193	.0497	.0222	-.0022
#2	.0008	.1032	.0831	.1204	.0496	.0221	.0128
#3	.0026	.1084	.0851	.1168	.0492	.0219	.0107
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.43	.0122	-.0084	.0238	.0221	.0263	-.0008
SDev	.19	.0004	.0094	.0003	.0016	.0018	.0011
%RSD	.5368	3.712	112.5	1.428	7.209	6.709	134.6
#1	35.59	.0121	-.0161	.0234	.0218	.0242	-.0013
#2	35.48	.0119	-.0111	.0238	.0206	.0274	-.0016
#3	35.22	.0127	.0021	.0241	.0238	.0271	.0004
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.1193	2.115	.0052	.0130	9.884	.0352
SDev	.0003	.0009	.142	.0012	.0009	.079	.0001
%RSD	35.09	.7675	6.703	23.52	7.066	.7982	.3665
#1	.0008	.1203	1.979	.0047	.0129	9.936	.0351
#2	.0008	.1190	2.103	.0042	.0140	9.923	.0354
#3	.0014	.1185	2.262	.0066	.0122	9.793	.0352
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1059	11.38	.0097	.0638	.0216	.0382	.0081
SDev	.0007	.18	.0053	.0025	.0097	.0082	.0231
%RSD	.6941	1.573	54.30	3.936	44.90	21.53	285.9
#1	.1055	11.54	.0063	.0610	.0156	.0289	-.0136
#2	.1055	11.42	.0070	.0656	.0327	.0412	.0054
#3	.1068	11.19	.0158	.0649	.0163	.0444	.0324
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							

Range

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0025	.0114	.0531	-.0051	.2619	.0005
SDev	.0079	.0088	.0006	.0036	.0297	.0026	.0054
%RSD	395.5	351.1	5.328	6.686	576.7	.9940	1078.
#1	-.0059	-.0022	.0112	.0568	-.0350	.2641	.0014
#2	-.0071	-.0029	.0121	.0498	-.0049	.2627	-.0053
#3	.0071	.0127	.0110	.0528	.0244	.2591	.0054
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0112	.0081	.0116	.2261	.0279	.0119	-.0014
SDev	.0055	.0002	.0051	.1341	.0006	.0139	.0004
%RSD	49.35	2.297	43.99	59.31	2.012	116.5	29.83
#1	-.0053	.0080	.0090	.0847	.0276	.0232	-.0017
#2	-.0162	.0080	.0083	.2423	.0275	-.0036	-.0015
#3	-.0122	.0083	.0175	.3515	.0285	.0162	-.0009
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0867	-.0004
SDev	.0020	.0010
%RSD	2.265	242.0
#1	.0887	-.0015
#2	.0867	-.0003
#3	.0847	.0005
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report Wed 09-13-95 10:24:13 AM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/13/95 10:22:53
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	1.907	1.991	1.939	.9944	.9638	1.919
SDev	.0007	.018	.009	.018	.0094	.0075	.010
%RSD	27.99	.9318	.4315	.9534	.9489	.7766	.5322
#1	.0034	1.887	1.985	1.918	.9835	.9557	1.921
#2	.0020	1.919	2.001	1.951	1.000	.9705	1.929
#3	.0024	1.916	1.988	1.948	.9996	.9652	1.909

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.941	.9908	.0121	1.036	.5170	2.018	.0015
SDev	.011	.0049	.0055	.007	.0030	.021	.0008
%RSD	.5544	.4891	45.42	.6934	.5875	1.026	50.71
#1	1.930	.9861	.0184	1.031	.5137	1.994	.0023
#2	1.951	.9906	.0091	1.044	.5197	2.031	.0013
#3	1.943	.9958	.0087	1.034	.5177	2.028	.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	2.010	5.242	.0045	1.928	2.090	1.016
SDev	.0003	.015	.074	.0003	.036	.014	.007
%RSD	31.99	.7499	1.403	6.211	1.888	.6835	.6460
#1	.0014	1.995	5.301	.0049	1.891	2.077	1.009
#2	.0009	2.025	5.266	.0043	1.928	2.105	1.021
#3	.0008	2.011	5.160	.0045	1.964	2.089	1.019

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.997	7.752	.0170	2.094	4.724	2.079	.0512
SDev	.012	.124	.0031	.007	.019	.008	.0205
%RSD	.6061	1.594	18.06	.3490	.4018	.3673	40.03
#1	1.985	7.630	.0205	2.087	4.706	2.071	.0728
#2	2.009	7.750	.0154	2.101	4.722	2.085	.0320
#3	1.997	7.877	.0151	2.093	4.744	2.083	.0487

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0226	.0002	1.956	4.945	.0822	2.012	-.0029
SDev	.0054	.0052	.021	.040	.0291	.019	.0052
%RSD	23.91	2126.	1.071	.8008	35.37	.9516	182.1
#1	.0288	.0034	1.934	4.901	.1158	1.990	-.0004
#2	.0204	.0031	1.958	4.979	.0653	2.025	.0006
#3	.0187	-.0058	1.975	4.953	.0655	2.022	-.0088

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0013	1.947	.2028	.9569	.0153	.0012
SDev	.0085	.0005	.022	.0632	.0070	.0036	.0004

%RSD	374.7	38.66	1.142	31.14	.7330	23.55	36.04
#1	.0002	.0019	1.922	.2670	.9492	.0172	.0017
#2	.0116	.0010	1.952	.2007	.9628	.0111	.0011
#3	-.0050	.0010	1.966	.1407	.9587	.0175	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.023	.0007
SDev	.004	.0010
%RSD	.3922	147.5
#1	1.022	.0016
#2	1.028	-.0003
#3	1.020	.0007

Analysis Report Wed 09-13-95 10:27:54 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 10:26:35
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0064	-.0014	.0066	.0003	.0001	-.0045
SDev	.0001	.0009	.0043	.0011	.0001	.0000	.0086
%RSD	6.457	14.88	301.7	16.02	38.19	24.65	192.5
#1	.0019	.0073	-.0063	.0057	.0002	.0001	.0005
#2	.0017	.0064	.0016	.0063	.0003	.0001	.0005
#3	.0016	.0054	.0005	.0078	.0005	.0001	-.0144

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0021	-.0006	.0034	.0017	.0022	.0066	.0011
SDev	.0008	.0005	.0012	.0002	.0022	.0003	.0002
%RSD	36.35	73.72	34.67	12.75	98.80	4.779	18.06
#1	-.0013	-.0009	.0022	.0019	-.0003	.0063	.0010
#2	-.0028	-.0001	.0046	.0015	.0033	.0068	.0010
#3	-.0022	-.0009	.0035	.0017	.0035	.0068	.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0007	.1237	.0020	.0029	.0035	.0003
SDev	.0002	.0011	.0306	.0007	.0002	.0061	.0002
%RSD	44.30	167.0	24.74	36.08	7.508	171.8	61.46
#1	.0002	-.0003	.1060	.0014	.0026	-.0024	.0001
#2	.0006	.0004	.1060	.0018	.0030	.0033	.0004
#3	.0006	.0020	.1590	.0028	.0030	.0097	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	.0225	.0119	.0014	.0053	.0092	.0396
SDev	.0005	.0107	.0036	.0022	.0190	.0073	.0083
%RSD	20.28	47.52	29.90	160.9	359.7	79.47	20.97
#1	.0030	.0338	.0156	.0020	-.0021	.0014	.0452
#2	.0020	.0211	.0116	-.0011	.0269	.0158	.0301
#3	.0026	.0126	.0085	.0033	-.0090	.0104	.0436

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0173	.0059	.0100	.0184	.0445	.0006	.0067
SDev	.0023	.0019	.0030	.0043	.0084	.0001	.0054
%RSD	13.10	32.09	29.77	23.29	18.79	11.42	79.78
#1	.0153	.0044	.0097	.0233	.0540	.0007	.0057
#2	.0167	.0080	.0131	.0155	.0413	.0005	.0126
#3	.0198	.0053	.0072	.0164	.0383	.0005	.0020

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0007	-.0019	.1352	.0010	.0094	.0006
SDev	.0007	.0001	.0038	.0216	.0003	.0048	.0003

%RSD	91.43	11.99	193.8	16.00	25.72	50.97	49.92
#1	-.0007	.0007	.0001	.1599	.0009	.0135	.0003
#2	-.0015	.0008	.0004	.1196	.0013	.0104	.0007
#3	-.0001	.0007	-.0063	.1261	.0008	.0041	.0010

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0000	.0007
SDev	.0006	.0003
%RSD	10770.	47.10
#1	-.0001	.0010
#2	.0006	.0006
#3	-.0006	.0003

Analysis Report Wed 09-13-95 10:46:44 AM page

Method: ICP1 Sample Name: 95-007941-HCB @2 Operator: DRS
Run Time: 09/13/95 10:45:25
Comment: METHOD BLANK @2 SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0112	.4620	.0462	.1765	.0055	.0003	.0423
SDev	.0011	.0032	.0018	.0029	.0001	.0001	.0022
%RSD	9.648	.6964	3.990	1.615	2.600	16.03	5.237
#1	.0121	.4583	.0479	.1754	.0055	.0003	.0401
#2	.0100	.4637	.0443	.1797	.0053	.0003	.0445
#3	.0114	.4641	.0465	.1744	.0055	.0004	.0421

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0867	.0120	.0571	.0214	.0194	-.0039	.0088
SDev	.0014	.0006	.0054	.0004	.0009	.0012	.0005
%RSD	1.570	5.209	9.458	1.945	4.803	29.79	5.844
#1	.0859	.0114	.0605	.0216	.0188	-.0027	.0091
#2	.0860	.0119	.0509	.0209	.0190	-.0040	.0082
#3	.0883	.0126	.0598	.0217	.0205	-.0050	.0092

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.2920	4794.	.0163	.0557	.0729	.0927
SDev	.0003	.0032	44.	.0016	.0002	.0049	.0008
%RSD	12.88	1.080	.9085	9.729	.3850	6.761	.8684
#1	.0027	.2885	4759.	.0169	.0556	.0675	.0920
#2	.0022	.2947	4843.	.0146	.0556	.0742	.0936
#3	.0029	.2927	4780.	.0176	.0560	.0771	.0927

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0132	2.045	.0537	10.97	.0932	.0957	.1536
SDev	.0005	.011	.0046	.07	.0177	.0047	.0182
%RSD	3.529	.5187	8.511	.6491	18.95	4.890	11.84
#1	.0128	2.055	.0524	10.91	.0790	.1007	.1642
#2	.0137	2.034	.0499	11.05	.0876	.0914	.1326
#3	.0130	2.047	.0588	10.95	.1130	.0950	.1641

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1074	.0520	.0685	.9052	.3397	.0028	.0675
SDev	.0080	.0063	.0077	.0111	.0164	.0000	.0004
%RSD	7.432	12.00	11.24	1.222	4.843	.2405	.5444
#1	.1147	.0472	.0689	.8927	.3447	.0028	.0676
#2	.0988	.0499	.0606	.9139	.3213	.0028	.0679
#3	.1086	.0591	.0760	.9088	.3530	.0028	.0671

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0205	.1096	.0399	.8501	.0091	.0389	.0036
SDev	.0030	.0009	.0032	.0780	.0005	.0058	.0003

%RSD	14.45	.7969	7.928	9.179	5.123	15.01	7.419
#1	.0172	.1092	.0416	.9209	.0095	.0371	.0039
#2	.0230	.1106	.0362	.7665	.0086	.0455	.0033
#3	.0212	.1091	.0418	.8630	.0091	.0342	.0036

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0086	.0666
SDev	.0007	.0008
%RSD	8.204	1.128
#1	.0083	.0674
#2	.0095	.0659
#3	.0081	.0665

Analysis Report Wed 09-13-95 10:53:53 AM page

Method: ICP1 Sample Name: 95-007941-H1T @10 Operator: DRS
Run Time: 09/13/95 10:52:33
Comment: SEGMENT 1 TOP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0084	14.18	.0431	.0457	.0038	.0003	.0386
SDev	.0012	.14	.0063	.0016	.0002	.0001	.0017
%RSD	14.26	.9688	14.54	3.484	4.905	18.61	4.370
#1	.0071	14.34	.0359	.0444	.0037	.0002	.0366
#2	.0091	14.09	.0467	.0453	.0038	.0003	.0394
#3	.0092	14.11	.0468	.0475	.0040	.0003	.0397

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0650	.0034	.0496	.0115	.0195	.0051	.0078
SDev	.0010	.0010	.0025	.0003	.0015	.0010	.0008
%RSD	1.482	28.62	5.082	2.153	7.654	19.41	9.636
#1	.0640	.0045	.0469	.0117	.0210	.0049	.0071
#2	.0659	.0033	.0519	.0116	.0180	.0062	.0086
#3	.0651	.0025	.0500	.0113	.0197	.0042	.0079

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.1650	1069.	.0130	.0171	.0647	.0330
SDev	.0002	.0009	7.	.0018	.0013	.0006	.0004
%RSD	7.475	.5721	.6783	14.23	7.538	.9679	1.203
#1	.0021	.1658	1077.	.0109	.0157	.0653	.0333
#2	.0024	.1651	1065.	.0134	.0179	.0648	.0332
#3	.0024	.1639	1064.	.0145	.0179	.0641	.0326

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082	10.21	.0468	10.47	2.470	.0708	.1414
SDev	.0016	.04	.0026	.06	.037	.0013	.0095
%RSD	20.17	.4169	5.584	.5982	1.484	1.846	6.709
#1	.0066	10.25	.0438	10.54	2.512	.0694	.1311
#2	.0099	10.17	.0482	10.43	2.453	.0710	.1497
#3	.0080	10.20	.0484	10.43	2.444	.0719	.1436

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0723	.0335	.0375	.7408	.2570	.0036	.0412
SDev	.0062	.0020	.0146	.0021	.0197	.0001	.0087
%RSD	8.615	5.897	39.07	.2868	7.649	1.769	21.21
#1	.0652	.0333	.0206	.7429	.2361	.0035	.0322
#2	.0768	.0355	.0457	.7386	.2751	.0036	.0418
#3	.0749	.0316	.0462	.7410	.2599	.0036	.0497

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0103	.0403	.0492	.7399	.0106	.0314	.0032
SDev	.0034	.0003	.0021	.0786	.0007	.0102	.0007

%RSD	33.19	.6969	4.199	10.63	6.570	32.64	23.51
#1	.0122	.0400	.0469	.6606	.0102	.0228	.0025
#2	.0122	.0402	.0509	.7411	.0114	.0427	.0031
#3	.0063	.0406	.0497	.8179	.0102	.0286	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0219
SDev	.0017	.0004
%RSD	213.1	1.664
#1	.0013	.0215
#2	-.0011	.0223
#3	.0021	.0219

Analysis Report Wed 09-13-95 10:58:03 AM

Method: ICP1 Sample Name: 95-007941-H1T @5 Operator: DRS
Run Time: 09/13/95 10:56:44
Comment: SEGMENT 1 TOP @5X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0091	28.19	.0680	.0861	.0063	.0003	.0711
SDev	.0003	.09	.0041	.0039	.0003	.0000	.0062
%RSD	3.873	.3233	6.053	4.562	3.960	1.895	8.745
#1	.0087	28.17	.0648	.0818	.0065	.0003	.0772
#2	.0094	28.29	.0665	.0870	.0060	.0003	.0713
#3	.0093	28.12	.0726	.0896	.0063	.0003	.0648

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1501	.0064	.0539	.0173	.0319	.0055	.0091
SDev	.0003	.0013	.0058	.0010	.0021	.0011	.0004
%RSD	.2058	21.07	10.81	5.592	6.652	20.09	3.943
#1	.1505	.0054	.0529	.0164	.0303	.0043	.0090
#2	.1499	.0079	.0487	.0183	.0310	.0065	.0089
#3	.1500	.0058	.0602	.0171	.0343	.0056	.0095

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	.3212	2086.	.0156	.0272	.1022	.0651
SDev	.0002	.0025	9.	.0005	.0008	.0029	.0005
%RSD	6.303	.7807	.4118	3.136	2.747	2.861	.7784
#1	.0024	.3190	2085.	.0153	.0272	.0989	.0652
#2	.0025	.3239	2096.	.0153	.0280	.1046	.0656
#3	.0027	.3206	2079.	.0162	.0265	.1029	.0646

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	20.11	.0525	20.73	4.912	.0953	.1466
SDev	.0022	.04	.0031	.08	.029	.0060	.0041
%RSD	18.19	.2214	5.821	.4085	.5860	6.249	2.769
#1	.0096	20.09	.0497	20.71	4.937	.0920	.1427
#2	.0139	20.16	.0522	20.82	4.881	.0916	.1508
#3	.0120	20.08	.0558	20.65	4.918	.1022	.1462

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0852	.0427	.0579	1.455	.2825	.0064	.0500
SDev	.0021	.0030	.0104	.004	.0348	.0000	.0069
%RSD	2.479	7.099	18.06	.2864	12.32	.0498	13.80
#1	.0838	.0396	.0651	1.452	.2424	.0064	.0446
#2	.0841	.0456	.0459	1.460	.3045	.0064	.0476
#3	.0876	.0428	.0626	1.455	.3006	.0064	.0578

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0170	.0772	.0823	.8753	.0158	.0409	.0035
SDev	.0021	.0002	.0040	.0357	.0005	.0057	.0002

%RSD	12.13	.2725	4.821	4.082	3.017	13.97	5.037
#1	.0193	.0770	.0798	.8663	.0156	.0456	.0033
#2	.0156	.0774	.0868	.8449	.0154	.0424	.0036
#3	.0159	.0772	.0802	.9147	.0163	.0345	.0036

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0030	.0392
SDev	.0005	.0003
%RSD	17.69	.6397
#1	.0024	.0389
#2	.0034	.0394
#3	.0031	.0394

Analysis Report WHC-SD-WM-DP-145, REV. 1 Wed 09-13-95 11:01:36 AM page

Method: ICP1 Sample Name: 95-007941-H1T-PS @5 Operator: DRS
Run Time: 09/13/95 11:00:17
Comment: POST DIGEST SPIKE @5X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	36.64	.0775	.0826	.0065	.0006	.0828
SDev	.0004	.15	.0031	.0008	.0002	.0001	.0089
%RSD	3.300	.4021	3.975	1.028	2.920	8.753	10.78
#1	.0121	36.74	.0741	.0817	.0063	.0006	.0725
#2	.0118	36.71	.0783	.0828	.0064	.0006	.0879
#3	.0126	36.47	.0801	.0834	.0067	.0007	.0881

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.759	.2408	.0651	.0195	1.440	-.0011	.0078
SDev	.006	.0006	.0039	.0003	.007	.0018	.0005
%RSD	.1233	.2301	6.035	1.768	.4726	155.2	6.334
#1	4.762	.2407	.0623	.0194	1.446	-.0009	.0073
#2	4.764	.2403	.0635	.0191	1.442	-.0030	.0079
#3	4.753	.2414	.0696	.0198	1.432	.0005	.0083

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	.3171	2066.	.0191	.0288	.2084	.1574
SDev	.0003	.0006	10.	.0009	.0006	.0093	.0000
%RSD	11.48	.1786	.4773	4.826	1.980	4.482	.0102
#1	.0028	.3178	2074.	.0194	.0293	.2011	.1574
#2	.0027	.3167	2068.	.0181	.0282	.2052	.1574
#3	.0033	.3168	2055.	.0199	.0289	.2189	.1573

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0111	33.45	.0546	25.27	4.874	4.983	.0581
SDev	.0008	.19	.0053	.05	.014	.005	.0072
%RSD	7.493	.5588	9.631	.1994	.2900	.1027	12.42
#1	.0121	33.60	.0501	25.30	4.883	4.984	.0552
#2	.0106	33.52	.0533	25.30	4.882	4.977	.0528
#3	.0107	33.24	.0604	25.21	4.858	4.987	.0663

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0779	.0407	.0565	10.83	.3585	.0062	.0555
SDev	.0066	.0040	.0104	.02	.0163	.0001	.0022
%RSD	8.426	9.689	18.35	.1627	4.536	1.042	4.056
#1	.0728	.0450	.0560	10.85	.3585	.0062	.0568
#2	.0757	.0401	.0671	10.84	.3423	.0062	.0567
#3	.0853	.0372	.0464	10.81	.3748	.0063	.0529

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2330	.0768	.1119	18.70	.0180	.0459	.0048
SDev	.0031	.0001	.0025	.04	.0003	.0101	.0003

%RSD	1.321	.0992	2.269	.2369	1.718	21.99	6.855
#1	.2303	.0767	.1101	18.68	.0178	.0476	.0046
#2	.2363	.0768	.1108	18.66	.0178	.0351	.0047
#3	.2324	.0768	.1148	18.75	.0183	.0551	.0052

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	.4995
SDev	.0007	.0010
%RSD	567.0	.2038
#1	-.0003	.5003
#2	.0007	.4997
#3	-.0007	.4984

Analysis Report Wed 09-13-95 11:05:25 AM page 1

Method: ICP1 Sample Name: 95-007941-H1T @2 Operator: DRS
Run Time: 09/13/95 11:04:06
Comment: SEGMENT 1 TOP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0098	68.17	.1417	.1926	.0121	.0005	.1598
SDev	.0013	.37	.0010	.0021	.0001	.0000	.0039
%RSD	13.40	.5428	.7385	1.068	.5972	2.092	2.411
#1	.0092	67.95	.1426	.1921	.0120	.0005	.1635
#2	.0090	68.60	.1405	.1948	.0122	.0005	.1600
#3	.0114	67.97	.1421	.1908	.0121	.0005	.1558

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3714	.0122	.0467	.0293	.0736	-.0036	.0108
SDev	.0012	.0011	.0029	.0004	.0030	.0011	.0006
%RSD	.3154	9.362	6.309	1.232	4.090	30.94	5.790
#1	.3702	.0109	.0450	.0297	.0735	-.0039	.0109
#2	.3725	.0129	.0450	.0292	.0766	-.0045	.0101
#3	.3715	.0129	.0501	.0290	.0706	-.0024	.0114

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	.7477	4873.	.0166	.0545	.1851	.1531
SDev	.0002	.0037	30.	.0013	.0004	.0048	.0005
%RSD	8.918	.4950	.6168	7.996	.7899	2.572	.3154
#1	.0025	.7465	4856.	.0157	.0540	.1877	.1527
#2	.0024	.7518	4908.	.0160	.0548	.1797	.1536
#3	.0028	.7447	4856.	.0181	.0548	.1880	.1529

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0183	47.89	.0506	49.24	12.01	.1765	.1410
SDev	.0011	.30	.0036	.19	.05	.0132	.0063
%RSD	5.902	.6228	7.046	.3855	.4109	7.468	4.447
#1	.0189	47.75	.0536	49.16	11.96	.1885	.1467
#2	.0171	48.23	.0467	49.45	12.05	.1624	.1343
#3	.0190	47.68	.0516	49.10	12.01	.1786	.1421

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1033	.0647	.0819	3.476	.3750	.0137	.0657
SDev	.0055	.0113	.0102	.017	.0226	.0001	.0023
%RSD	5.359	17.52	12.51	.4833	6.014	.5695	3.466
#1	.1027	.0560	.0861	3.463	.3934	.0137	.0682
#2	.0981	.0605	.0894	3.495	.3498	.0138	.0638
#3	.1091	.0775	.0702	3.469	.3818	.0137	.0651

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0336	.1797	.1907	.9739	.0287	.0758	.0033
SDev	.0035	.0006	.0099	.1073	.0003	.0104	.0004

Analysis Report Wed 09-13-95 11:05:25 AM page 2

%RSD	10.33	.3160	5.187	11.01	.8573	13.68	12.67
#1	.0302	.1795	.2020	.9864	.0290	.0795	.0032
#2	.0333	.1803	.1840	.8609	.0286	.0641	.0030
#3	.0372	.1792	.1860	1.074	.0285	.0838	.0038

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0076	.0873
SDev	.0011	.0002
%RSD	15.03	.2575
#1	.0068	.0874
#2	.0071	.0874
#3	.0089	.0870

Analysis Report Wed 09-13-95 11:09:51 AM page

Method: ICP1 Sample Name: 95-007941-H2T @10 Operator: DRS
Run Time: 09/13/95 11:08:32
Comment: SEGMENT 1 TOP DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0098	13.76	.0407	.0442	.0032	.0003	.0220
SDev	.0017	.21	.0050	.0019	.0003	.0001	.0082
%RSD	16.98	1.546	12.27	4.196	7.749	24.58	37.09
#1	.0080	13.96	.0459	.0434	.0029	.0002	.0126
#2	.0100	13.76	.0359	.0463	.0032	.0003	.0271
#3	.0113	13.54	.0405	.0428	.0034	.0003	.0263

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0376	.0038	.0575	.0117	.0190	.0049	.0091
SDev	.0022	.0005	.0099	.0010	.0023	.0014	.0017
%RSD	5.861	14.39	17.25	8.968	12.06	28.64	18.71
#1	.0355	.0032	.0485	.0108	.0191	.0035	.0076
#2	.0374	.0040	.0559	.0114	.0166	.0063	.0089
#3	.0399	.0042	.0681	.0128	.0212	.0050	.0109

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.1104	1016.	.0152	.0203	.0618	.0297
SDev	.0006	.0003	17.	.0021	.0004	.0119	.0001
%RSD	21.33	.2777	1.678	13.75	2.127	19.31	.4147
#1	.0021	.1107	1032.	.0134	.0205	.0491	.0298
#2	.0025	.1104	1017.	.0146	.0198	.0634	.0298
#3	.0032	.1100	998.2	.0175	.0205	.0727	.0296

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	10.20	.0567	5.429	3.072	.0696	.1602
SDev	.0006	.16	.0095	.065	.051	.0062	.0255
%RSD	7.231	1.579	16.85	1.200	1.670	8.866	15.89
#1	.0093	10.34	.0460	5.491	3.120	.0650	.1328
#2	.0082	10.24	.0594	5.434	3.078	.0672	.1650
#3	.0082	10.02	.0646	5.361	3.018	.0766	.1830

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0795	.0363	.0463	.5420	.2723	.0032	.0447
SDev	.0128	.0129	.0038	.0015	.0371	.0001	.0106
%RSD	16.08	35.64	8.155	.2826	13.64	1.830	23.61
#1	.0714	.0228	.0506	.5433	.2346	.0031	.0395
#2	.0729	.0374	.0446	.5403	.2736	.0031	.0377
#3	.0942	.0486	.0436	.5424	.3088	.0032	.0568

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0175	.0225	.0476	.8214	.0110	.0264	.0034
SDev	.0007	.0003	.0109	.1251	.0008	.0060	.0006

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%RSD	4.108	1.481	22.92	15.23	7.436	22.55	17.27
#1	.0174	.0223	.0362	.7495	.0101	.0257	.0027
#2	.0183	.0224	.0486	.7488	.0111	.0209	.0037
#3	.0169	.0229	.0580	.9659	.0117	.0327	.0038

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0038	.0237
SDev	.0018	.0008
%RSD	48.40	3.435
#1	.0055	.0229
#2	.0019	.0236
#3	.0039	.0245

Method: ICP1 Sample Name: 95-007941-H2T @2 Operator: DRS
Run Time: 09/13/95 11:12:49
Comment: SEGMENT 1 TOP DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0084	67.64	.1141	.1860	.0083	.0004	.0589
SDev	.0009	.57	.0084	.0024	.0001	.0000	.0105
%RSD	10.95	.8460	7.355	1.305	.8581	8.004	17.83
#1	.0095	66.98	.1044	.1844	.0083	.0004	.0665
#2	.0077	67.93	.1184	.1848	.0084	.0004	.0469
#3	.0082	68.00	.1195	.1888	.0083	.0004	.0633

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2244	.0140	.0365	.0229	.0779	-.0051	.0081
SDev	.0026	.0016	.0034	.0003	.0037	.0009	.0002
%RSD	1.150	11.24	9.347	1.124	4.759	17.45	2.781
#1	.2215	.0158	.0327	.0228	.0805	-.0041	.0079
#2	.2265	.0134	.0372	.0227	.0795	-.0054	.0081
#3	.2252	.0128	.0394	.0232	.0736	-.0058	.0083

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.4981	4755.	.0122	.0622	.1268	.1381
SDev	.0001	.0042	39.	.0003	.0011	.0046	.0012
%RSD	4.606	.8326	.8299	2.250	1.733	3.670	.8563
#1	.0019	.4934	4709.	.0120	.0615	.1321	.1367
#2	.0021	.5012	4778.	.0122	.0634	.1233	.1389
#3	.0021	.4998	4777.	.0125	.0615	.1250	.1385

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0161	49.11	.0476	25.75	15.16	.1315	.1192
SDev	.0008	.47	.0021	.22	.16	.0055	.0069
%RSD	4.750	.9479	4.364	.8497	1.053	4.160	5.796
#1	.0153	48.58	.0486	25.50	14.98	.1375	.1224
#2	.0168	49.47	.0489	25.88	15.24	.1305	.1112
#3	.0161	49.27	.0452	25.88	15.26	.1267	.1239

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0771	.0543	.0586	2.534	.2883	.0112	.0530
SDev	.0027	.0076	.0105	.023	.0297	.0001	.0045
%RSD	3.530	14.07	17.86	.8974	10.29	1.050	8.522
#1	.0798	.0458	.0472	2.509	.2552	.0110	.0556
#2	.0771	.0567	.0677	2.537	.2972	.0112	.0556
#3	.0744	.0605	.0610	2.554	.3125	.0113	.0478

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0216	.0930	.1802	.7143	.0245	.0532	.0026
SDev	.0074	.0010	.0034	.0360	.0004	.0059	.0002

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%RSD	34.14	1.042	1.869	5.034	1.539	11.17	7.117
#1	.0249	.0919	.1770	.6748	.0250	.0490	.0028
#2	.0268	.0934	.1798	.7229	.0244	.0600	.0024
#3	.0132	.0938	.1837	.7451	.0242	.0506	.0027

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0194	.0958
SDev	.0014	.0012
%RSD	7.445	1.277
#1	.0211	.0944
#2	.0183	.0965
#3	.0189	.0965

Analysis Report Wed 09-13-95 11:18:37 AM page

Method: ICP1 Sample Name: 95-007942-H3 @2 Operator: DRS
Run Time: 09/13/95 11:17:17
Comment: METHOD-BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0152	.1934	.0483	.2231	.0046	.0003	.0329
SDev	.0010	.0040	.0043	.0025	.0003	.0001	.0037
%RSD	6.652	2.047	8.890	1.121	5.609	14.64	11.39
#1	.0159	.1974	.0441	.2218	.0048	.0004	.0343
#2	.0156	.1934	.0526	.2259	.0047	.0004	.0358
#3	.0140	.1895	.0481	.2214	.0043	.0003	.0287

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1373	.0047	.0930	.0535	.0217	.0138	.0114
SDev	.0006	.0002	.0105	.0003	.0011	.0006	.0015
%RSD	.4557	3.582	11.27	.6585	5.275	3.987	13.34
#1	.1375	.0048	.1014	.0539	.0230	.0140	.0128
#2	.1365	.0048	.0963	.0532	.0211	.0143	.0117
#3	.1377	.0045	.0813	.0536	.0209	.0132	.0098

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037	.4986	6617.	.0194	.0115	.0836	.4140
SDev	.0003	.0051	93.	.0017	.0006	.0049	.0057
%RSD	8.740	1.024	1.402	8.690	5.603	5.807	1.383
#1	.0037	.4950	6557.	.0214	.0112	.0881	.4098
#2	.0039	.4963	6570.	.0184	.0123	.0843	.4116
#3	.0033	.5044	6724.	.0185	.0112	.0784	.4205

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0161	2.992	.0733	2.229	.0830	.0968	.2014
SDev	.0008	.015	.0059	.029	.0090	.0053	.0101
%RSD	4.772	.4970	8.042	1.296	10.89	5.421	5.020
#1	.0158	2.975	.0765	2.209	.0762	.1027	.2095
#2	.0170	3.000	.0769	2.215	.0932	.0949	.2047
#3	.0156	3.001	.0665	2.262	.0796	.0927	.1901

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1086	.0610	.0761	.2922	.3970	.0042	.0740
SDev	.0088	.0056	.0056	.0077	.0136	.0001	.0054
%RSD	8.105	9.248	7.350	2.641	3.433	3.095	7.288
#1	.1161	.0614	.0698	.2880	.4093	.0043	.0789
#2	.1109	.0665	.0806	.3011	.3995	.0043	.0749
#3	.0989	.0552	.0779	.2874	.3823	.0041	.0682

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0179	.0150	.0385	1.153	.0111	.0392	.0048
SDev	.0050	.0004	.0067	.089	.0008	.0046	.0006

%RSD	28.23	2.776	17.40	7.690	7.265	11.71	12.39
#1	.0176	.0153	.0344	1.207	.0118	.0379	.0052
#2	.0230	.0151	.0463	1.202	.0114	.0443	.0049
#3	.0130	.0145	.0349	1.051	.0102	.0354	.0041

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0462	.0086
SDev	.0006	.0006
%RSD	1.202	6.969
#1	.0465	.0093
#2	.0464	.0084
#3	.0455	.0082

Analysis Report QC Standard Wed 09-13-95 11:22:35 AM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 11:21:15
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS QB 9/1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4734	24.15	2.464	1.933	.4932	.0903	23.79
SDev	.0012	.09	.011	.005	.0021	.0004	.06
%RSD	.2512	.3587	.4450	.2451	.4209	.4630	.2696
#1	.4745	24.24	2.472	1.937	.4956	.0908	23.86
#2	.4734	24.12	2.452	1.933	.4923	.0902	23.73
#3	.4722	24.08	2.469	1.928	.4917	.0900	23.78
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.13	.4827	-.0049	.9939	.9839	.9647	.0008
SDev	.10	.0028	.0054	.0032	.0081	.0035	.0003
%RSD	.4160	.5801	111.0	.3198	.8275	.3614	33.07
#1	24.25	.4829	-.0102	.9975	.9932	.9687	.0005
#2	24.07	.4798	-.0049	.9918	.9805	.9629	.0007
#3	24.07	.4854	.0005	.9923	.9781	.9624	.0010
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	19.76	26.05	.0056	1.915	25.58	.4946
SDev	.0000	.08	.26	.0004	.012	.11	.0025
%RSD	.2772	.4267	.9994	7.911	.6363	.4196	.5134
#1	.0024	19.86	25.99	.0053	1.916	25.70	.4974
#2	.0024	19.71	26.33	.0054	1.926	25.53	.4936
#3	.0024	19.71	25.82	.0061	1.902	25.51	.4926
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9945	23.98	.0163	1.021	.0502	2.523	.0009
SDev	.0025	.12	.0012	.012	.0258	.006	.0007
%RSD	.2513	.5179	7.166	1.140	51.48	.2359	77.84
#1	.9972	24.05	.0152	1.034	.0288	2.524	.0014
#2	.9922	24.06	.0175	1.017	.0429	2.528	.0001
#3	.9941	23.84	.0163	1.012	.0789	2.516	.0013
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0075	2.445	2.427	18.15	-.0527	.4981	.0026
SDev	.0020	.008	.023	.07	.0156	.0018	.0049
%RSD	26.58	.3111	.9313	.3803	29.57	.3703	187.0
#1	.0063	2.453	2.433	18.23	-.0430	.5002	-.0021
#2	.0098	2.444	2.402	18.13	-.0445	.4972	.0077
#3	.0064	2.438	2.445	18.09	-.0707	.4968	.0023
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0429	.9672	2.448	.0851	.9568	.0271	.0005
SDev	.0044	.0035	.024	.0090	.0034	.0055	.0002
%RSD	10.18	.3587	.9938	10.61	.3596	20.38	35.09
#1	.0441	.9712	2.457	.0748	.9608	.0276	.0006
#2	.0466	.9654	2.421	.0892	.9551	.0214	.0003
#3	.0381	.9650	2.467	.0914	.9546	.0324	.0006
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9838	1.978
SDev	.0029	.008
%RSD	.2921	.4095
#1	.9828	1.987
#2	.9870	1.972
#3	.9816	1.974
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 11:25:54
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	90.15	.1558	.0091	.0026	.0010	.0905
SDev	.0009	.62	.0072	.0020	.0002	.0000	.0067
%RSD	13.99	.6897	4.626	22.44	8.439	1.469	7.433
#1	.0067	90.31	.1614	.0114	.0025	.0010	.0980
#2	.0052	90.68	.1477	.0077	.0025	.0010	.0852
#3	.0066	89.46	.1584	.0082	.0029	.0010	.0881

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0678	.0111	-.0296	.0164	.0367	-.0422	.0069
SDev	.0003	.0010	.0090	.0017	.0019	.0016	.0007
%RSD	.4674	8.959	30.45	10.27	5.098	3.889	10.71
#1	.0674	.0110	-.0265	.0171	.0388	-.0438	.0067
#2	.0680	.0102	-.0398	.0144	.0365	-.0424	.0063
#3	.0679	.0121	-.0226	.0175	.0350	-.0405	.0077

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	18.29	4026.	.0205	.0126	.3229	.0038
SDev	.0003	.10	28.	.0017	.0004	.0136	.0002
%RSD	9.365	.5456	.6880	8.167	2.952	4.198	4.358
#1	.0037	18.32	4030.	.0206	.0130	.3172	.0036
#2	.0035	18.38	4051.	.0188	.0123	.3384	.0040
#3	.0042	18.18	3996.	.0221	.0126	.3132	.0038

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	.3504	.0450	47.94	.1270	.2785	-.1488
SDev	.0013	.0155	.0053	.22	.0086	.0099	.0151
%RSD	7.956	4.429	11.70	.4636	6.763	3.548	10.17
#1	.0153	.3489	.0470	48.03	.1306	.2683	-.1467
#2	.0176	.3357	.0391	48.10	.1331	.2792	-.1649
#3	.0176	.3666	.0490	47.69	.1171	.2881	-.1349

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0659	.0569	.0995	.1018	.4001	.0010	.0656
SDev	.0082	.0115	.0084	.0041	.0214	.0002	.0041
%RSD	12.49	20.15	8.487	3.986	5.359	15.67	6.281
#1	.0639	.0698	.1091	.1029	.3757	.0009	.0654
#2	.0589	.0480	.0936	.0973	.4088	.0009	.0616
#3	.0750	.0528	.0956	.1051	.4158	.0012	.0699

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6330	.0065	.2476	44.59	.0126	.0688	.0071
SDev	.0064	.0006	.0124	.27	.0011	.0038	.0003

%RSD	1.017	9.793	4.999	.6023	8.896	5.473	4.324
#1	.6296	.0063	.2347	44.60	.0124	.0709	.0072
#2	.6289	.0059	.2485	44.85	.0115	.0645	.0067
#3	.6404	.0072	.2594	44.32	.0138	.0711	.0073

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0218	9.340
SDev	.0009	.063
%RSD	3.931	.6777
#1	-.0227	9.358
#2	-.0216	9.393
#3	-.0210	9.270

Analysis Report Wed 09-13-95 11:32:57 AM

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 11:31:37
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.0183	-.0068	.0022	.0005	.0001	-.0037
SDev	.0007	.0021	.0072	.0013	.0001	.0000	.0045
%RSD	33.79	11.67	106.9	56.40	27.50	42.27	120.9
#1	.0028	.0164	-.0012	.0036	.0003	.0000	.0010
#2	.0014	.0206	-.0042	.0011	.0006	.0001	-.0080
#3	.0021	.0178	-.0150	.0019	.0004	.0001	-.0041

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	.0007	.0104	.0019	.0003	.0019	.0020
SDev	.0002	.0007	.0019	.0004	.0015	.0005	.0003
%RSD	12.12	105.1	18.46	20.94	458.4	25.85	12.43
#1	-.0015	.0011	.0103	.0022	-.0012	.0024	.0017
#2	-.0015	-.0001	.0085	.0020	.0005	.0014	.0022
#3	-.0012	.0011	.0123	.0014	.0017	.0020	.0021

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0032	.4476	.0025	.0027	.0099	.0003
SDev	.0001	.0002	.0270	.0022	.0009	.0041	.0001
%RSD	13.19	5.080	6.029	88.22	34.36	41.16	35.92
#1	.0008	.0033	.4241	.0002	.0026	.0114	.0004
#2	.0006	.0030	.4771	.0027	.0019	.0131	.0002
#3	.0007	.0031	.4418	.0045	.0037	.0053	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0324	.0139	.0063	.0044	.0106	.0437
SDev	.0012	.0065	.0027	.0023	.0120	.0047	.0047
%RSD	71.93	20.09	19.52	36.77	274.4	44.28	10.86
#1	.0011	.0381	.0125	.0047	-.0019	.0144	.0383
#2	.0008	.0253	.0121	.0053	-.0032	.0053	.0453
#3	.0029	.0337	.0170	.0090	.0182	.0121	.0473

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0215	.0104	.0124	.0052	.0553	.0005	.0074
SDev	.0033	.0091	.0070	.0007	.0207	.0001	.0051
%RSD	15.50	87.01	56.10	13.09	37.43	13.60	69.56
#1	.0179	.0120	.0109	.0045	.0370	.0004	.0132
#2	.0222	.0185	.0200	.0059	.0778	.0004	.0042
#3	.0245	.0006	.0063	.0053	.0512	.0005	.0046

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0009	-.0001	.1628	.0014	.0051	.0008
SDev	.0034	.0002	.0102	.0715	.0004	.0033	.0002

%RSD	1471.	25.91	19310.	43.90	28.11	64.63	20.69
#1	.0023	.0009	-.0117	.1064	.0017	.0088	.0010
#2	.0011	.0007	.0042	.1388	.0010	.0026	.0006
#3	-.0040	.0012	.0074	.2432	.0016	.0039	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0005	.0021
SDev	.0010	.0006
%RSD	209.1	27.18
#1	.0004	.0016
#2	-.0003	.0020
#3	-.0016	.0027

Analysis Report Wed 09-13-95 11:36:45 AM page

Method: ICP1 Sample Name: I.V. U @500 PPM @10 Operator: DRS
Run Time: 09/13/95 11:35:25
Comment: 9509131902 @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	-.1305	.0215	-.0034	.0008	.0006	-.0158
SDev	.0012	.0080	.0012	.0014	.0002	.0000	.0075
%RSD	19.77	6.095	5.393	41.61	25.69	6.524	47.14
#1	.0070	-.1287	.0228	-.0047	.0008	.0006	-.0238
#2	.0048	-.1391	.0210	-.0036	.0005	.0006	-.0145
#3	.0069	-.1235	.0207	-.0019	.0009	.0006	-.0091

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0495	.0015	.0456	.0066	.0016	-.0167	-.0047
SDev	.0072	.0005	.0061	.0009	.0015	.0009	.0010
%RSD	14.61	31.63	13.45	14.29	95.45	5.344	20.75
#1	.0449	.0020	.0459	.0066	.0003	-.0164	-.0047
#2	.0458	.0013	.0393	.0056	.0012	-.0178	-.0057
#3	.0579	.0011	.0515	.0075	.0033	-.0161	-.0037

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0087	.6126	.0100	.0087	.2638	.0014
SDev	.0002	.0006	.1177	.0008	.0011	.0053	.0001
%RSD	229.6	6.590	19.21	8.482	13.14	1.997	9.214
#1	.0001	.0092	.6715	.0108	.0097	.2662	.0015
#2	-.0001	.0081	.4771	.0091	.0074	.2577	.0013
#3	.0003	.0088	.6891	.0100	.0089	.2674	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0470	.0045	.0068	.0328	.2031	-.2357
SDev	.0023	.0114	.0028	.0031	.0118	.0046	.0187
%RSD	131.1	24.26	63.44	45.60	35.79	2.244	7.913
#1	.0028	.0556	.0072	.0049	.0389	.2029	-.2309
#2	-.0009	.0341	.0016	.0051	.0193	.1986	-.2563
#3	.0034	.0514	.0046	.0103	.0403	.2077	-.2200

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0224	.0035	.0055	.0102	.1833	.0003	.0113
SDev	.0066	.0096	.0128	.0035	.0128	.0001	.0074
%RSD	29.69	277.8	234.4	34.59	6.976	23.95	65.30
#1	-.0212	.0091	.0043	.0114	.1948	.0003	.0176
#2	-.0296	-.0076	-.0067	.0062	.1696	.0003	.0131
#3	-.0164	.0089	.0189	.0129	.1856	.0004	.0032

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5430	.0032	.0083	48.04	.0044	-.0078	.0040
SDev	.0076	.0003	.0056	.16	.0010	.0048	.0007

%RSD	1.403	9.648	66.97	.3265	23.58	61.75	17.39
#1	.5518	.0029	.0044	47.99	.0042	-.0088	.0035
#2	.5381	.0031	.0147	48.21	.0034	-.0120	.0037
#3	.5391	.0035	.0059	47.91	.0055	-.0025	.0048

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	-.0354
SDev	.0011	.0004
%RSD	653.4	1.098
#1	-.0000	-.0355
#2	-.0008	-.0357
#3	.0014	-.0350

Analysis Report Wed 09-13-95 11:40:40 AM page 1

Method: ICP1 Sample Name: I.V. U @500 PPM Operator: DRS
Run Time: 09/13/95 11:39:20
Comment: 9509131902 SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0154	-1.468	.1318	-.0681	.0004	.0046	-.1653
SDev	.0048	.039	.0084	.0044	.0001	.0001	.0085
%RSD	30.95	2.660	6.406	6.407	30.59	2.877	5.144
#1	.0143	-1.478	.1302	-.0708	.0005	.0046	-.1746
#2	.0113	-1.501	.1242	-.0705	.0002	.0045	-.1578
#3	.0206	-1.425	.1409	-.0631	.0004	.0047	-.1636

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5571	-.0038	.1627	.0170	.0067	-.2086	-.0838
SDev	.0052	.0015	.0043	.0022	.0039	.0054	.0021
%RSD	.9314	39.61	2.670	13.13	58.13	2.610	2.474
#1	.5559	-.0038	.1579	.0177	.0043	-.2103	-.0836
#2	.5527	-.0023	.1637	.0145	.0047	-.2130	-.0860
#3	.5628	-.0052	.1664	.0188	.0113	-.2025	-.0819

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0141	.0343	1.449	.0344	.0338	2.439	.0062
SDev	.0007	.0029	.159	.0020	.0009	.049	.0011
%RSD	4.793	8.534	10.98	5.756	2.768	2.023	17.88
#1	-.0140	.0339	1.449	.0335	.0328	2.443	.0057
#2	-.0149	.0316	1.290	.0367	.0340	2.388	.0054
#3	-.0136	.0374	1.608	.0330	.0347	2.486	.0074

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0090	-.0598	-.2402	.0269	.1619	1.740	-3.110
SDev	.0010	.0119	.0129	.0037	.0089	.017	.031
%RSD	11.09	19.90	5.370	13.58	5.498	.9740	.9999
#1	-.0101	-.0615	-.2446	.0269	.1643	1.732	-3.107
#2	-.0085	-.0707	-.2503	.0233	.1520	1.729	-3.143
#3	-.0083	-.0471	-.2256	.0307	.1693	1.760	-3.081

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.5618	-.1313	-.0396	-.0610	.6900	-.0029	-.0732
SDev	.0215	.0097	.0199	.0259	.0934	.0002	.0122
%RSD	3.826	7.423	50.32	42.43	13.53	7.309	16.69
#1	-.5592	-.1335	-.0322	-.0652	.6526	-.0028	-.0709
#2	-.5845	-.1398	-.0622	-.0846	.6212	-.0031	-.0865
#3	-.5417	-.1207	-.0245	-.0333	.7963	-.0027	-.0623

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.199	.0134	-.0246	470.3	.0133	-.1185	.0201
SDev	.036	.0009	.0074	1.9	.0029	.0042	.0012

%RSD	.6909	6.715	29.97	.4104	21.47	3.521	5.792
#1	5.221	.0132	-.0170	468.3	.0125	-.1154	.0197
#2	5.158	.0125	-.0317	472.2	.0109	-.1167	.0193
#3	5.220	.0143	-.0251	470.3	.0164	-.1232	.0215

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0019	-.3700
SDev	.0016	.0011
%RSD	80.04	.2858
#1	.0003	-.3710
#2	.0021	-.3689
#3	.0034	-.3700

Analysis Report Wed 09-13-95 11:45:17 AM page 1

Method: ICP1 Sample Name: H.P. U @500 PPM @10 Operator: DRS
Run Time: 09/13/95 11:43:57
Comment: 9509131901 @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	-.1253	.0148	-.0043	.0006	.0006	-.0131
SDev	.0005	.0046	.0037	.0010	.0001	.0000	.0079
%RSD	9.349	3.680	24.97	24.33	21.81	4.070	59.87
#1	.0058	-.1236	.0115	-.0039	.0008	.0006	-.0194
#2	.0060	-.1217	.0141	-.0055	.0006	.0006	-.0043
#3	.0050	-.1305	.0188	-.0035	.0006	.0006	-.0156

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0425	.0006	.0407	.0059	.0019	-.0179	-.0048
SDev	.0002	.0006	.0010	.0003	.0026	.0006	.0007
%RSD	.4571	108.1	2.399	4.998	137.6	3.575	14.83
#1	.0423	.0005	.0414	.0057	-.0011	-.0172	-.0056
#2	.0427	.0012	.0411	.0062	.0039	-.0178	-.0047
#3	.0424	-.0000	.0396	.0056	.0029	-.0185	-.0042

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0074	.5124	.0085	.0083	.2601	.0013
SDev	.0002	.0008	.0467	.0010	.0014	.0037	.0003
%RSD	60.95	10.57	9.123	11.75	17.04	1.426	19.54
#1	-.0003	.0075	.5478	.0090	.0067	.2607	.0010
#2	-.0001	.0066	.5301	.0092	.0093	.2562	.0014
#3	-.0004	.0081	.4594	.0074	.0089	.2635	.0014

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0407	-.0025	.0068	.0243	.1910	-.2392
SDev	.0004	.0127	.0052	.0016	.0117	.0011	.0139
%RSD	61.71	31.24	211.3	24.33	48.26	.5592	5.808
#1	.0003	.0518	-.0084	.0050	.0116	.1904	-.2237
#2	.0010	.0269	-.0003	.0083	.0347	.1923	-.2434
#3	.0006	.0434	.0013	.0071	.0267	.1904	-.2505

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0267	-.0011	.0083	.0046	.1789	.0003	.0017
SDev	.0041	.0053	.0159	.0050	.0198	.0000	.0042
%RSD	15.19	477.1	190.5	107.9	11.05	6.150	250.3
#1	-.0252	-.0047	-.0037	.0010	.1585	.0003	.0057
#2	-.0236	-.0037	.0263	.0025	.1979	.0004	.0020
#3	-.0313	.0050	.0024	.0102	.1802	.0003	-.0027

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5410	.0032	.0068	47.50	.0031	-.0060	.0036
SDev	.0109	.0001	.0049	.25	.0005	.0012	.0001

Analysis Report

%RSD	2.012	3.205	72.70	.5300	15.10	19.63	1.520
#1	.5308	.0033	.0066	47.68	.0029	-.0067	.0036
#2	.5399	.0031	.0020	47.21	.0027	-.0046	.0036
#3	.5525	.0032	.0118	47.61	.0036	-.0065	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	-.0360
SDev	.0006	.0011
%RSD	510.2	2.977
#1	-.0007	-.0349
#2	.0003	-.0358
#3	.0001	-.0371

Analysis Report Wed 09-13-95 11:49:04 AM

Method: ICP1 Sample Name: H.P. U @500 PPM Operator: DRS
Run Time: 09/13/95 11:47:44
Comment: 950913I901 SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0149	-1.453	.1335	-.0705	.0008	.0046	-.1472
SDev	.0004	.023	.0018	.0047	.0001	.0000	.0073
%RSD	2.536	1.577	1.377	6.672	9.290	.7436	4.980
#1	.0154	-1.476	.1320	-.0744	.0007	.0045	-.1556
#2	.0147	-1.430	.1329	-.0717	.0008	.0046	-.1438
#3	.0148	-1.453	.1356	-.0652	.0007	.0046	-.1421

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5532	-.0041	.1742	.0169	.0081	-.2066	-.0830
SDev	.0026	.0004	.0037	.0008	.0004	.0039	.0015
%RSD	.4774	9.321	2.134	4.782	5.565	1.909	1.861
#1	.5562	-.0039	.1700	.0175	.0086	-.2107	-.0847
#2	.5523	-.0045	.1771	.0172	.0078	-.2064	-.0823
#3	.5511	-.0039	.1754	.0160	.0078	-.2028	-.0819

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0138	.0342	1.349	.0358	.0348	2.433	.0071
SDev	.0003	.0019	.091	.0004	.0011	.024	.0007
%RSD	2.126	5.608	6.723	1.020	3.268	.9802	10.13
#1	-.0141	.0349	1.272	.0360	.0351	2.420	.0063
#2	-.0135	.0357	1.449	.0354	.0358	2.461	.0073
#3	-.0138	.0320	1.325	.0360	.0336	2.419	.0077

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0090	-.0819	-.2358	.0254	.1337	1.751	-3.070
SDev	.0003	.0089	.0032	.0013	.0214	.008	.030
%RSD	3.449	10.83	1.376	5.240	15.98	.4598	.9890
#1	-.0090	-.0808	-.2395	.0239	.1498	1.761	-3.103
#2	-.0093	-.0913	-.2342	.0262	.1420	1.747	-3.064
#3	-.0087	-.0736	-.2336	.0261	.1095	1.746	-3.043

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.5549	-.1332	-.0272	-.0637	.7246	-.0029	-.0731
SDev	.0108	.0072	.0178	.0109	.0403	.0001	.0011
%RSD	1.955	5.402	65.42	17.08	5.559	3.826	1.449
#1	-.5654	-.1412	-.0448	-.0669	.6967	-.0030	-.0720
#2	-.5438	-.1311	-.0093	-.0516	.7708	-.0029	-.0732
#3	-.5554	-.1273	-.0274	-.0727	.7063	-.0027	-.0741

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.192	.0137	-.0093	469.7	.0131	-.0970	.0201
SDev	.040	.0003	.0086	3.0	.0012	.0121	.0003

%RSD	.7664	1.826	92.56	.6411	9.291	12.48	1.638
#1	5.237	.0136	-.0191	473.2	.0120	-.0920	.0203
#2	5.177	.0134	-.0033	468.3	.0144	-.1109	.0197
#3	5.162	.0139	-.0054	467.8	.0130	-.0882	.0202

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0023	-.3683
SDev	.0008	.0040
%RSD	32.63	1.082
#1	.0021	-.3729
#2	.0016	-.3658
#3	.0031	-.3662

Analysis Report Wed 09-13-95 11:53:41 AM page 1

Method: ICP1 Sample Name: STD6 950830I106 Operator: DRS
Run Time: 09/13/95 11:52:21
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	-1.475	.1213	-.0743	-.0000	.0045	-.1670
SDev	.0023	.023	.0081	.0022	.0002	.0001	.0109
%RSD	18.46	1.556	6.703	2.933	3904.	1.639	6.548
#1	.0104	-1.502	.1121	-.0753	-.0002	.0045	-.1733
#2	.0148	-1.460	.1276	-.0718	-.0001	.0046	-.1544
#3	.0118	-1.465	.1242	-.0758	.0003	.0046	-.1733

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5505	-.0057	.1577	.0151	.0059	-.2140	-.0864
SDev	.0014	.0004	.0085	.0023	.0014	.0044	.0012
%RSD	.2478	6.639	5.388	15.01	23.67	2.054	1.383
#1	.5518	-.0057	.1487	.0140	.0043	-.2172	-.0878
#2	.5491	-.0061	.1587	.0177	.0070	-.2090	-.0857
#3	.5506	-.0054	.1656	.0136	.0063	-.2158	-.0857

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0147	.0318	1.184	.0321	.0350	2.446	.0062
SDev	.0007	.0025	.145	.0010	.0006	.014	.0007
%RSD	4.691	7.764	12.22	3.030	1.632	.5663	11.77
#1	-.0154	.0299	1.025	.0331	.0343	2.455	.0058
#2	-.0140	.0346	1.219	.0312	.0351	2.452	.0070
#3	-.0146	.0309	1.308	.0319	.0355	2.430	.0057

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0107	-.0999	-.2522	.0266	.1440	1.757	-3.135
SDev	.0015	.0109	.0083	.0037	.0130	.002	.041
%RSD	13.64	10.88	3.297	14.05	9.019	.0972	1.310
#1	-.0116	-.1112	-.2515	.0245	.1296	1.759	-3.182
#2	-.0090	-.0989	-.2443	.0244	.1549	1.755	-3.103
#3	-.0115	-.0896	-.2609	.0310	.1474	1.757	-3.122

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.5819	-.1349	-.0435	-.0805	.6405	-.0032	-.0846
SDev	.0105	.0048	.0150	.0329	.0669	.0001	.0026
%RSD	1.798	3.576	34.41	40.82	10.44	4.354	3.109
#1	-.5915	-.1400	-.0578	-.1139	.5704	-.0033	-.0851
#2	-.5707	-.1342	-.0449	-.0481	.7035	-.0030	-.0818
#3	-.5834	-.1304	-.0279	-.0796	.6477	-.0031	-.0870

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.204	.0123	-.0183	477.1	.0097	-.1018	.0191
SDev	.013	.0004	.0061	3.1	.0020	.0073	.0006

%RSD	.2495	3.401	33.66	.6478	20.36	7.125	3.084
#1	5.218	.0121	-.0249	480.3	.0074	-.0943	.0185
#2	5.201	.0128	-.0127	474.2	.0106	-.1087	.0192
#3	5.192	.0121	-.0171	476.8	.0110	-.1024	.0197

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0006	-.3714
SDev	.0002	.0022
%RSD	35.51	.5968
#1	.0003	-.3739
#2	.0006	-.3706
#3	.0007	-.3697

Analysis Report QC Standard Wed 09-13-95 11:57:35 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 11:56:16
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DMS 9/13/96

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4714	24.07	2.478	1.930	.4919	.0901	23.72
SDev	.0016	.03	.010	.005	.0016	.0003	.08
%RSD	.3393	.1246	.4001	.2823	.3177	.3216	.3297
#1	.4697	24.06	2.478	1.925	.4904	Q.0898	23.66
#2	.4716	24.05	2.468	1.930	.4918	.0900	23.69
#3	.4728	24.11	2.488	1.936	.4936	.0904	23.81
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.08	.4824	-.0275	.9923	.9866	.9634	.0005
SDev	.08	.0041	.0033	.0036	.0002	.0043	.0002
%RSD	.3222	.8549	12.14	.3614	.0244	.4419	48.16
#1	24.00	.4812	-.0292	.9882	.9866	.9619	.0005
#2	24.08	.4870	-.0236	.9939	.9863	.9601	.0007
#3	24.15	.4791	-.0295	.9948	.9868	.9682	.0003
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	19.72	24.44	.0053	1.880	25.50	.4930
SDev	.0001	.06	.21	.0008	.014	.04	.0014
%RSD	5.304	.3012	.8525	15.21	.7705	.1567	.2824
#1	.0020	19.67	24.67	.0058	1.897	25.48	.4919
#2	.0020	19.70	24.26	.0043	1.871	25.47	.4926
#3	.0022	19.78	24.39	.0056	1.873	25.55	.4946
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9941	23.49	.0127	1.024	.0453	2.511	.0005
SDev	.0039	.11	.0009	.007	.0125	.003	.0022
%RSD	.3919	.4724	6.864	.6573	27.60	.1143	420.8
#1	.9899	23.62	.0120	1.016	.0314	2.512	-.0010
#2	.9976	23.42	.0136	1.028	.0491	2.514	-.0005
#3	.9947	23.43	.0124	1.028	.0555	2.508	.0031
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	2.432	2.423	18.07	-.0750	.4973	.0014
SDev	.0031	.016	.009	.04	.0043	.0012	.0035
%RSD	80.82	.6520	.3890	.1983	5.737	.2328	249.9
#1	.0008	2.414	2.433	18.04	-.0773	.4965	-.0023
#2	.0038	2.443	2.419	18.07	-.0701	.4968	.0017
#3	.0071	2.440	2.415	18.11	-.0777	.4986	.0047
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0423	.9651	2.461	.1267	.9536	.0226	.0005
SDev	.0041	.0026	.024	.0249	.0034	.0093	.0002
%RSD	9.616	.2660	.9596	19.70	.3546	41.13	33.56
#1	.0413	.9626	2.446	.1266	.9505	.0139	.0006
#2	.0388	.9650	2.488	.1516	.9530	.0215	.0006
#3	.0468	.9677	2.450	.1017	.9572	.0324	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9802	1.978
SDev	.0056	.005
%RSD	.5694	.2708
#1	.9740	1.973
#2	.9818	1.978
#3	.9848	1.984
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 12:01:25 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 12:00:05
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0039	.0007	.0017	-.0001	-.0000	-.0063
SDev	.0007	.0024	.0040	.0024	.0002	.0000	.0073
%RSD	112.8	61.13	571.8	138.5	155.0	672.8	116.2
#1	-.0003	-.0053	.0028	.0033	.0001	-.0000	-.0032
#2	-.0001	-.0011	.0032	.0028	-.0002	.0000	-.0147
#3	-.0015	-.0053	-.0039	-.0010	-.0003	.0000	-.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0040	-.0001	-.0101	-.0003	.0005	.0016	-.0006
SDev	.0016	.0008	.0044	.0005	.0014	.0011	.0006
%RSD	38.85	819.8	44.22	171.1	251.4	68.06	88.75
#1	-.0035	-.0010	-.0081	.0001	-.0003	.0028	-.0003
#2	-.0028	.0001	-.0070	-.0001	.0021	.0011	-.0003
#3	-.0058	.0006	-.0152	-.0009	-.0002	.0009	-.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0004	-.6361	-.0008	.0010	-.0011	-.0000
SDev	.0002	.0006	.0884	.0007	.0008	.0074	.0001
%RSD	68.94	162.1	13.89	93.05	78.06	679.3	496.4
#1	-.0002	.0009	-.6361	-.0007	.0004	.0035	-.0001
#2	-.0002	.0006	-.5478	-.0001	.0007	.0028	.0000
#3	-.0005	-.0003	-.7245	-.0015	.0019	-.0096	.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0013	-.0010	-.0020	.0085	-.0084	.0053
SDev	.0012	.0025	.0022	.0024	.0129	.0060	.0039
%RSD	4437.	196.6	225.1	118.9	150.9	71.17	74.10
#1	.0005	.0001	-.0002	.0004	.0190	-.0059	.0079
#2	.0009	-.0042	.0007	-.0044	.0125	-.0152	.0072
#3	-.0013	.0002	-.0034	-.0020	-.0059	-.0041	.0008

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	.0013	.0041	-.0045	-.0030	.0003	-.0016
SDev	.0031	.0029	.0053	.0039	.0193	.0001	.0012
%RSD	86.42	222.3	131.4	85.79	634.3	25.08	74.71
#1	-.0030	.0010	.0099	-.0012	.0163	.0002	-.0018
#2	-.0008	.0044	.0029	-.0035	-.0033	.0003	-.0003
#3	-.0069	-.0015	-.0006	-.0088	-.0222	.0003	-.0026

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0064	-.0002	-.0081	-.0815	-.0008	.0033	-.0002
SDev	.0022	.0003	.0025	.0472	.0002	.0014	.0000

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%RSD	34.63	107.4	30.93	57.87	19.00	43.64	20.14
#1	-.0068	.0000	-.0077	-.0470	-.0007	.0048	-.0002
#2	-.0040	-.0005	-.0058	-.0623	-.0010	.0032	-.0002
#3	-.0084	-.0003	-.0108	-.1353	-.0009	.0019	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0004	-.0005
SDev	.0010	.0002
%RSD	251.4	44.85
#1	.0004	-.0008
#2	-.0000	-.0004
#3	-.0016	-.0004

Analysis Report Wed 09-13-95 12:03:39 PM page 1

Method: ICP1 Sample Name: 95-007942-H1 @10 Operator: DRS
Run Time: 09/13/95 12:02:20
Comment: QTR SEG 2A @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	1.024	.0115	.0768	.0013	.0001	.0095
SDev	.0003	.003	.0044	.0010	.0001	.0000	.0053
%RSD	4.157	.3168	38.58	1.355	5.689	24.41	56.00
#1	.0060	1.027	.0069	.0761	.0013	.0001	.0034
#2	.0065	1.025	.0157	.0780	.0013	.0001	.0126
#3	.0062	1.021	.0119	.0762	.0012	.0002	.0126

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0006	.0316	.0077	.0100	.0023	.0047
SDev	.0004	.0009	.0021	.0004	.0014	.0006	.0006
%RSD	84.34	138.2	6.763	5.614	13.47	23.26	12.89
#1	.0005	.0015	.0305	.0078	.0114	.0027	.0045
#2	.0001	-.0002	.0301	.0080	.0100	.0017	.0054
#3	.0010	.0005	.0340	.0072	.0087	.0026	.0043

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.6294	1136.	.0086	.0056	.0311	.0410
SDev	.0002	.0009	4.	.0015	.0004	.0037	.0001
%RSD	10.73	.1452	.3296	17.03	6.674	11.77	.1782
#1	.0014	.6301	1139.	.0084	.0060	.0305	.0410
#2	.0015	.6298	1137.	.0073	.0052	.0278	.0410
#3	.0017	.6284	1132.	.0102	.0056	.0350	.0411

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	25.37	.0324	.4066	.0899	.0372	.0959
SDev	.0006	.12	.0015	.0012	.0050	.0070	.0050
%RSD	10.18	.4703	4.555	.3037	5.514	18.87	5.245
#1	.0052	25.45	.0326	.4076	.0911	.0312	.0912
#2	.0057	25.42	.0308	.4069	.0941	.0355	.0954
#3	.0063	25.23	.0338	.4052	.0844	.0449	.1012

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0444	.0201	.0195	.0913	.1523	.0013	.0262
SDev	.0016	.0016	.0035	.0050	.0103	.0001	.0031
%RSD	3.698	7.761	18.16	5.437	6.730	5.234	11.96
#1	.0429	.0200	.0230	.0868	.1478	.0012	.0290
#2	.0462	.0217	.0159	.0966	.1451	.0012	.0267
#3	.0441	.0186	.0196	.0904	.1640	.0014	.0228

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0041	.0180	.4126	.0038	.0136	.0021
SDev	.0066	.0001	.0037	.0355	.0002	.0048	.0002

%RSD	2154.	3.736	20.80	8.600	4.853	35.10	7.852
#1	.0079	.0040	.0152	.3728	.0038	.0126	.0020
#2	-.0027	.0042	.0223	.4242	.0041	.0094	.0020
#3	-.0043	.0040	.0165	.4409	.0037	.0188	.0023

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0049	.0033
SDev	.0007	.0008
%RSD	14.94	23.79
#1	.0056	.0026
#2	.0041	.0041
#3	.0049	.0031

Analysis Report Wed 09-13-95 12:07:12 PM page

Method: ICP1 Sample Name: 95-007942-H1 @2 Operator: DRS
Run Time: 09/13/95 12:05:53
Comment: QTR SEG 2A @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	4.796	.0438	.3446	.0034	.0003	.0301
SDev	.0005	.046	.0042	.0017	.0001	.0000	.0007
%RSD	4.319	.9645	9.526	.4812	4.163	4.820	2.223
#1	.0114	4.827	.0397	.3452	.0033	.0003	.0308
#2	.0124	4.743	.0481	.3428	.0035	.0003	.0295
#3	.0117	4.818	.0436	.3459	.0033	.0003	.0299

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.109	.0037	.0600	.0254	.0418	.0002	.0098
SDev	.006	.0018	.0104	.0013	.0015	.0016	.0007
%RSD	.5845	47.26	17.38	5.008	3.486	707.6	6.985
#1	1.115	.0017	.0511	.0251	.0409	.0008	.0096
#2	1.102	.0047	.0715	.0268	.0409	.0015	.0106
#3	1.109	.0048	.0575	.0243	.0434	-.0016	.0093

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	2.944	5035.	.0161	.0119	.0739	.1929
SDev	.0001	.026	75.	.0011	.0014	.0044	.0016
%RSD	4.555	.8783	1.488	6.831	11.84	6.008	.8124
#1	.0031	2.965	5080.	.0153	.0126	.0688	.1936
#2	.0033	2.915	4948.	.0174	.0129	.0765	.1911
#3	.0030	2.953	5076.	.0157	.0103	.0764	.1940

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0148	116.2	.0625	1.913	.4083	.0915	.1816
SDev	.0006	2.3	.0091	.012	.0106	.0055	.0082
%RSD	3.806	1.937	14.52	.6350	2.585	6.029	4.495
#1	.0143	117.5	.0535	1.922	.4130	.0853	.1764
#2	.0154	113.6	.0717	1.899	.3962	.0936	.1910
#3	.0148	117.4	.0622	1.917	.4157	.0957	.1773

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0889	.0523	.0490	.4117	.2886	.0042	.0585
SDev	.0116	.0105	.0121	.0027	.0284	.0001	.0045
%RSD	13.01	20.09	24.72	.6522	9.833	2.711	7.657
#1	.0839	.0590	.0424	.4097	.2652	.0042	.0558
#2	.1021	.0576	.0629	.4148	.3201	.0043	.0637
#3	.0807	.0402	.0415	.4107	.2805	.0041	.0561

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0144	.0129	.0498	.9273	.0089	.0359	.0041
SDev	.0028	.0004	.0022	.1170	.0012	.0133	.0005

%RSD	19.32	2.767	4.421	12.62	12.97	37.13	11.39
#1	.0119	.0128	.0485	.8214	.0083	.0205	.0039
#2	.0138	.0133	.0485	1.053	.0103	.0433	.0047
#3	.0174	.0126	.0523	.9074	.0082	.0438	.0038

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0407	.0070
SDev	.0003	.0010
%RSD	.7103	14.67
#1	.0404	.0066
#2	.0407	.0082
#3	.0410	.0063

Analysis Report Wed 09-13-95 12:11:13 PM page 1

Method: ICP1 Sample Name: 95-007942-H2 @10 Operator: DRS
Run Time: 09/13/95 12:09:54
Comment: QTR SEG 2A DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0044	1.229	.0099	.0208	.0011	.0001	-.0064
SDev	.0002	.002	.0064	.0021	.0001	.0000	.0035
%RSD	3.813	.1329	64.82	9.954	11.52	25.71	54.65
#1	.0042	1.229	.0107	.0232	.0011	.0001	-.0080
#2	.0045	1.228	.0031	.0197	.0009	.0001	-.0089
#3	.0045	1.231	.0158	.0195	.0012	.0001	-.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0169	.0025	.0160	.0067	.0144	.0344	.0031
SDev	.0002	.0013	.0029	.0005	.0020	.0009	.0005
%RSD	1.010	53.58	18.46	7.661	13.63	2.755	15.72
#1	.0169	.0012	.0193	.0064	.0122	.0350	.0033
#2	.0167	.0024	.0151	.0064	.0160	.0333	.0026
#3	.0171	.0039	.0136	.0073	.0149	.0349	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.2984	1202.	.0050	.0051	.0290	.0352
SDev	.0001	.0008	3.	.0014	.0009	.0067	.0001
%RSD	11.22	.2828	.2211	28.13	16.90	22.95	.4187
#1	.0009	.2992	1200.	.0053	.0056	.0355	.0354
#2	.0007	.2984	1205.	.0035	.0056	.0295	.0352
#3	.0009	.2975	1201.	.0062	.0041	.0222	.0351

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	25.04	.0216	.1775	.1102	.0282	.0664
SDev	.0008	.13	.0041	.0024	.0231	.0076	.0059
%RSD	13.74	.5208	19.06	1.372	20.99	26.90	8.903
#1	.0065	24.89	.0170	.1748	.1261	.0275	.0673
#2	.0050	25.12	.0228	.1782	.1208	.0211	.0601
#3	.0054	25.11	.0250	.1795	.0837	.0362	.0718

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0300	.0174	.0229	.1276	.0990	.0011	.0158
SDev	.0054	.0056	.0045	.0034	.0079	.0000	.0063
%RSD	17.90	32.41	19.70	2.637	8.024	.3297	39.96
#1	.0335	.0168	.0221	.1266	.0977	.0011	.0160
#2	.0238	.0121	.0277	.1313	.1075	.0011	.0094
#3	.0327	.0233	.0188	.1248	.0918	.0011	.0220

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0035	.0038	.0154	.2810	.0027	.0130	.0015
SDev	.0032	.0002	.0037	.0427	.0003	.0040	.0003

%RSD	92.62	6.204	24.04	15.21	9.761	30.98	19.50
#1	.0002	.0038	.0118	.2843	.0027	.0161	.0015
#2	-.0052	.0036	.0192	.2367	.0024	.0084	.0012
#3	-.0055	.0040	.0153	.3219	.0030	.0144	.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0244	.0025
SDev	.0009	.0003
%RSD	3.766	13.98
#1	.0248	.0021
#2	.0250	.0028
#3	.0233	.0027

Analysis Report Wed 09-13-95 12:15:07 PM page :

Method: ICP1 Sample Name: 95-007942-H2 @2 Operator: DRS
Run Time: 09/13/95 12:13:47
Comment: QTR SEG 2A DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	5.794	.0344	.0827	.0038	.0003	.0256
SDev	.0015	.092	.0037	.0040	.0003	.0000	.0030
%RSD	12.75	1.587	10.85	4.873	6.831	16.05	11.60
#1	.0124	5.779	.0386	.0838	.0037	.0003	.0224
#2	.0102	5.893	.0314	.0861	.0036	.0002	.0261
#3	.0131	5.711	.0333	.0783	.0040	.0003	.0283

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.200	.0052	.0477	.0231	.0679	.1812	.0071
SDev	.018	.0016	.0070	.0003	.0019	.0019	.0011
%RSD	1.486	31.08	14.69	1.449	2.779	1.025	15.96
#1	1.197	.0041	.0511	.0234	.0691	.1816	.0077
#2	1.219	.0070	.0397	.0227	.0689	.1828	.0058
#3	1.184	.0044	.0524	.0232	.0657	.1792	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	1.392	5229.	.0130	.0108	.0786	.1655
SDev	.0003	.024	69.	.0026	.0015	.0048	.0029
%RSD	12.36	1.715	1.318	20.22	13.97	6.118	1.758
#1	.0026	1.386	5211.	.0134	.0099	.0791	.1646
#2	.0021	1.418	5306.	.0101	.0099	.0735	.1687
#3	.0027	1.371	5171.	.0153	.0125	.0831	.1631

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0157	111.8	.0474	.8507	.4589	.0799	.1342
SDev	.0013	1.1	.0092	.0127	.0107	.0056	.0190
%RSD	8.104	.9469	19.30	1.497	2.329	6.985	14.13
#1	.0158	111.6	.0504	.8450	.4710	.0846	.1450
#2	.0144	112.9	.0371	.8653	.4507	.0738	.1123
#3	.0170	110.8	.0547	.8419	.4550	.0814	.1453

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0673	.0443	.0442	.5947	.2318	.0042	.0535
SDev	.0138	.0111	.0147	.0061	.0265	.0000	.0052
%RSD	20.43	25.02	33.30	1.023	11.44	.2028	9.687
#1	.0692	.0569	.0575	.5983	.2470	.0042	.0547
#2	.0527	.0400	.0468	.5981	.2011	.0042	.0479
#3	.0800	.0361	.0284	.5877	.2471	.0042	.0581

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	.0144	.0359	.7014	.0078	.0326	.0031
SDev	.0051	.0004	.0080	.0885	.0012	.0069	.0007

Analysis Report

%RSD	46.96	2.889	22.40	12.61	15.54	21.27	23.46
#1	.0132	.0149	.0413	.7294	.0085	.0283	.0030
#2	.0050	.0140	.0398	.6023	.0064	.0288	.0025
#3	.0142	.0144	.0267	.7725	.0086	.0406	.0039

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1384	.0060
SDev	.0036	.0006
%RSD	2.578	10.83
#1	.1413	.0066
#2	.1396	.0053
#3	.1344	.0063

Analysis Report Wed 09-13-95 12:19:10 PM page 1

Method: ICP1 Sample Name: 95-007943-H1 @10 Operator: DRS
Run Time: 09/13/95 12:17:51
Comment: QTR SEG 2D @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	24.83	.0220	.0241	.0024	.0002	.0083
SDev	.0011	.20	.0110	.0010	.0002	.0001	.0066
%RSD	23.24	.8048	50.07	4.025	7.969	24.04	79.94
#1	.0042	25.02	.0168	.0233	.0023	.0002	.0129
#2	.0058	24.62	.0346	.0252	.0026	.0003	.0113
#3	.0037	24.85	.0145	.0238	.0022	.0002	.0007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0581	.0020	.0217	.0112	.0634	.0820	.0038
SDev	.0024	.0005	.0106	.0005	.0008	.0007	.0009
%RSD	4.104	25.98	48.96	4.813	1.254	.8447	23.43
#1	.0576	.0016	.0184	.0112	.0636	.0820	.0037
#2	.0607	.0019	.0335	.0117	.0641	.0813	.0047
#3	.0560	.0026	.0131	.0107	.0625	.0827	.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.2548	1174.	.0056	.0218	.0376	.0729
SDev	.0004	.0019	20.	.0021	.0004	.0072	.0005
%RSD	39.12	.7275	1.667	37.99	1.994	19.29	.7311
#1	.0009	.2566	1187.	.0047	.0220	.0375	.0731
#2	.0017	.2549	1152.	.0081	.0213	.0448	.0732
#3	.0009	.2529	1184.	.0041	.0220	.0303	.0723

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0067	52.26	.0231	.5811	.8479	.0423	.0742
SDev	.0019	1.09	.0081	.0058	.0172	.0084	.0242
%RSD	28.03	2.084	34.98	.9928	2.034	19.80	32.62
#1	.0078	52.93	.0202	.5802	.8334	.0341	.0622
#2	.0078	51.01	.0322	.5872	.8670	.0508	.1021
#3	.0046	52.85	.0168	.5758	.8434	.0420	.0583

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0326	.0095	.0252	.4132	.1150	.0055	.0140
SDev	.0106	.0128	.0067	.0057	.0309	.0001	.0118
%RSD	32.40	135.4	26.68	1.372	26.91	2.331	84.39
#1	.0299	-.0047	.0225	.4118	.0930	.0055	.0114
#2	.0442	.0202	.0328	.4194	.1503	.0057	.0269
#3	.0236	.0129	.0202	.4083	.1016	.0054	.0037

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0091	.0616	.3864	.0038	.0216	.0014
SDev	.0029	.0006	.0052	.1244	.0009	.0020	.0005

%RSD	507.6	6.244	8.439	32.20	23.22	9.314	33.07
#1	.0028	.0089	.0669	.2621	.0037	.0239	.0012
#2	-.0026	.0097	.0614	.5110	.0048	.0201	.0020
#3	-.0019	.0086	.0565	.3860	.0030	.0207	.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0127	.0028
SDev	.0011	.0011
%RSD	8.501	37.65
#1	.0132	.0023
#2	.0115	.0040
#3	.0135	.0021

Analysis Report Wed 09-13-95 12:22:53 PM page

Method: ICP1 Sample Name: 95-007943-H1 @2 Operator: DRS
Run Time: 09/13/95 12:21:34
Comment: QTR SEG 2D @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	119.3	.1395	.1060	.0096	.0006	.0427
SDev	.0019	2.0	.0063	.0020	.0001	.0000	.0102
%RSD	15.66	1.669	4.485	1.913	1.461	2.617	23.94
#1	.0121	118.9	.1325	.1049	.0095	.0006	.0457
#2	.0134	117.4	.1415	.1047	.0098	.0006	.0510
#3	.0098	121.4	.1445	.1083	.0095	.0006	.0313

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.437	.0053	.0470	.0449	.2983	.3928	.0075
SDev	.011	.0003	.0068	.0002	.0024	.0046	.0017
%RSD	.7593	5.772	14.45	.4840	.8205	1.174	22.87
#1	1.435	.0051	.0466	.0448	.2955	.3932	.0074
#2	1.426	.0057	.0540	.0452	.2993	.3880	.0092
#3	1.448	.0053	.0405	.0448	.3001	.3972	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	1.193	5149.	.0136	.0904	.1267	.3455
SDev	.0006	.013	92.	.0027	.0024	.0057	.0042
%RSD	24.22	1.096	1.786	19.72	2.655	4.497	1.205
#1	.0024	1.189	5130.	.0139	.0886	.1299	.3447
#2	.0026	1.182	5069.	.0161	.0894	.1301	.3417
#3	.0017	1.207	5250.	.0108	.0931	.1201	.3500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0251	235.1	.0465	2.737	4.211	.1778	.1351
SDev	.0009	4.9	.0058	.028	.042	.0150	.0301
%RSD	3.456	2.070	12.50	1.014	.9970	8.460	22.27
#1	.0254	234.2	.0460	2.745	4.256	.1784	.1365
#2	.0241	230.8	.0526	2.706	4.173	.1925	.1644
#3	.0257	240.4	.0410	2.760	4.204	.1624	.1043

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0670	.0207	.0587	1.989	.2535	.0247	.0350
SDev	.0102	.0079	.0038	.028	.0497	.0003	.0132
%RSD	15.24	38.09	6.455	1.407	19.61	1.266	37.80
#1	.0682	.0219	.0577	1.989	.2829	.0247	.0421
#2	.0767	.0280	.0629	1.960	.2815	.0244	.0433
#3	.0563	.0123	.0556	2.016	.1961	.0251	.0197

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	.0390	.2716	.9022	.0113	.0757	.0028
SDev	.0041	.0001	.0063	.1371	.0014	.0066	.0007

%RSD	34.45	.2637	2.318	15.19	11.98	8.668	25.28
#1	.0159	.0389	.2644	.8706	.0113	.0700	.0029
#2	.0077	.0391	.2760	1.052	.0127	.0742	.0034
#3	.0119	.0391	.2743	.7837	.0100	.0829	.0020

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0844	.0058
SDev	.0015	.0012
%RSD	1.733	21.10
#1	.0833	.0059
#2	.0839	.0069
#3	.0861	.0045

Analysis Report

Wed 09-13-95 12:26:46 PM page

Method: ICP1 Sample Name: 95-007943-H2 @10 Operator: DRS
Run Time: 09/13/95 12:25:26
Comment: QTR SEG 2D DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	22.17	.0369	.0254	.0025	.0002	.0109
SDev	.0021	.40	.0076	.0011	.0003	.0000	.0032
%RSD	31.71	1.811	20.68	4.310	11.22	18.87	29.75
#1	.0042	22.63	.0319	.0241	.0022	.0002	.0074
#2	.0073	21.98	.0456	.0262	.0027	.0002	.0116
#3	.0082	21.90	.0330	.0258	.0027	.0002	.0138

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0365	.0022	.0332	.0137	.0599	.0092	.0051
SDev	.0027	.0004	.0126	.0015	.0026	.0005	.0016
%RSD	7.344	17.76	37.92	10.79	4.296	5.066	32.21
#1	.0338	.0018	.0188	.0125	.0622	.0089	.0033
#2	.0364	.0026	.0391	.0133	.0603	.0089	.0053
#3	.0392	.0021	.0418	.0154	.0571	.0097	.0066

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.3891	1162.	.0087	.0223	.0340	.0963
SDev	.0006	.0047	23.	.0034	.0015	.0063	.0011
%RSD	36.98	1.216	1.987	38.82	6.764	18.38	1.198
#1	.0010	.3946	1188.	.0048	.0205	.0289	.0976
#2	.0018	.3863	1150.	.0107	.0231	.0410	.0959
#3	.0023	.3865	1147.	.0106	.0231	.0321	.0954

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0079	52.35	.0356	1.077	.7586	.0523	.1032
SDev	.0012	1.12	.0106	.021	.0197	.0067	.0322
%RSD	15.32	2.140	29.70	1.922	2.591	12.84	31.21
#1	.0065	53.64	.0235	1.100	.7657	.0448	.0700
#2	.0086	51.70	.0405	1.070	.7363	.0542	.1055
#3	.0086	51.70	.0429	1.061	.7737	.0578	.1343

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0505	.0105	.0338	.3864	.1631	.0049	.0189
SDev	.0179	.0055	.0029	.0026	.0585	.0001	.0086
%RSD	35.51	52.54	8.440	.6722	35.84	2.128	45.62
#1	.0307	.0057	.0308	.3893	.0976	.0048	.0090
#2	.0550	.0092	.0342	.3858	.2099	.0049	.0245
#3	.0657	.0165	.0364	.3842	.1819	.0051	.0231

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0091	.0671	.5903	.0048	.0314	.0023
SDev	.0068	.0007	.0094	.1780	.0011	.0056	.0005

%RSD	27290.	7.466	13.95	30.16	23.67	17.82	22.97
#1	-.0058	.0083	.0750	.3871	.0035	.0316	.0017
#2	.0075	.0094	.0568	.6652	.0053	.0370	.0025
#3	-.0018	.0095	.0694	.7186	.0056	.0258	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0114	.0043
SDev	.0016	.0013
%RSD	13.75	29.62
#1	.0123	.0031
#2	.0096	.0043
#3	.0122	.0057

Analysis Report Wed 09-13-95 12:31:10 PM page :

Method: ICP1 Sample Name: 95-007943-H2 @2 Operator: DRS
Run Time: 09/13/95 12:29:51
Comment: QTR SEB 2D DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	109.5	.1184	.1048	.0081	.0005	.0428
SDev	.0014	1.2	.0120	.0010	.0002	.0001	.0107
%RSD	12.27	1.056	10.16	.9586	2.311	9.740	24.98
#1	.0101	110.0	.1083	.1047	.0079	.0004	.0404
#2	.0128	108.1	.1317	.1059	.0083	.0005	.0544
#3	.0110	110.3	.1152	.1039	.0080	.0005	.0334

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.448	.0075	.0379	.0512	.2819	.0375	.0061
SDev	.008	.0009	.0092	.0011	.0038	.0009	.0012
%RSD	.5597	12.01	24.25	2.150	1.337	2.510	19.48
#1	1.444	.0069	.0311	.0499	.2787	.0377	.0049
#2	1.442	.0071	.0484	.0519	.2810	.0383	.0072
#3	1.457	.0086	.0343	.0518	.2860	.0365	.0060

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	1.868	5197.	.0119	.0796	.0971	.4643
SDev	.0003	.013	50.	.0018	.0009	.0057	.0031
%RSD	14.90	.6875	.9671	15.48	1.178	5.827	.6593
#1	.0018	1.868	5228.	.0101	.0786	.0958	.4642
#2	.0023	1.854	5139.	.0138	.0804	.1033	.4613
#3	.0019	1.880	5224.	.0118	.0797	.0922	.4674

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0240	239.8	.0396	5.164	3.639	.1541	.1185
SDev	.0016	2.7	.0078	.053	.037	.0167	.0301
%RSD	6.661	1.117	19.74	1.033	1.007	10.81	25.40
#1	.0242	241.7	.0351	5.159	3.681	.1445	.0888
#2	.0223	236.7	.0486	5.113	3.619	.1733	.1490
#3	.0255	240.9	.0350	5.220	3.616	.1445	.1176

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0593	.0230	.0555	1.877	.2130	.0218	.0271
SDev	.0064	.0088	.0049	.015	.0387	.0002	.0074
%RSD	10.74	38.13	8.765	.7942	18.17	.8607	27.14
#1	.0542	.0146	.0592	1.877	.1789	.0217	.0187
#2	.0665	.0321	.0500	1.862	.2551	.0216	.0325
#3	.0572	.0223	.0574	1.892	.2050	.0220	.0301

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	.0356	.2589	.7737	.0096	.0686	.0026
SDev	.0022	.0004	.0097	.1311	.0010	.0112	.0003

%RSD	22.98	1.040	3.743	16.95	10.02	16.39	11.38
#1	.0119	.0352	.2478	.6375	.0087	.0648	.0024
#2	.0096	.0359	.2655	.8990	.0106	.0813	.0029
#3	.0074	.0355	.2634	.7845	.0095	.0598	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0800	.0052
SDev	.0011	.0014
%RSD	1.436	27.64
#1	.0813	.0041
#2	.0792	.0068
#3	.0796	.0046

Analysis Report QC Standard Wed 09-13-95 12:35:25 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/13/95 12:34:06
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS AMS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4769	24.49	2.499	1.953	.4993	.0908	23.97
SDev	.0047	.19	.013	.020	.0051	.0007	.18
%RSD	.9780	.7614	.5324	1.003	1.025	.8060	.7677
#1	.4757	24.48	2.497	1.948	.4983	.0908	23.98
#2	.4729	24.31	2.487	1.936	.4947	.0901	23.78
#3	.4820	24.68	2.514	1.974	.5048	.0916	24.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.26	.4845	-.0351	.9977	.9911	.9742	-.0004
SDev	.18	.0051	.0016	.0070	.0123	.0084	.0008
%RSD	.7558	1.061	4.568	.7045	1.238	.8593	182.3
#1	24.20	.4884	-.0354	.9945	.9994	.9710	-.0006
#2	24.12	.4787	-.0334	.9927	.9770	.9680	.0004
#3	24.47	.4864	-.0366	1.006	.9968	.9838	-.0011
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	19.89	26.39	.0038	1.998	25.79	.4967
SDev	.0003	.18	.35	.0008	.007	.21	.0044
%RSD	13.08	.9029	1.313	19.92	.3569	.8020	.8920
#1	.0016	19.85	26.43	.0044	1.999	25.74	.4955
#2	.0021	19.73	26.72	.0030	1.990	25.61	.4929
#3	.0020	20.08	26.03	.0041	2.004	26.01	.5016
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.008	25.20	.0087	1.027	.0603	2.531	-.0134
SDev	.010	.05	.0043	.006	.0218	.016	.0110
%RSD	1.034	.1841	49.53	.5922	36.18	.6233	81.93
#1	1.002	25.20	.0090	1.027	.0837	2.515	-.0201
#2	1.001	25.15	.0129	1.022	.0567	2.531	-.0007
#3	1.020	25.24	.0043	1.034	.0405	2.547	-.0194
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0015	2.464	2.439	18.29	-.1086	.5046	-.0096
SDev	.0038	.022	.021	.13	.0323	.0051	.0103
%RSD	264.5	.9044	.8729	.7340	29.76	1.002	107.7
#1	-.0019	2.465	2.419	18.25	-.1052	.5042	-.0143
#2	.0026	2.441	2.436	18.19	-.0781	.4998	.0023
#3	-.0050	2.485	2.462	18.44	-.1425	.5099	-.0167
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0396	.9766	2.526	-.0641	.9634	.0210	-.0003
SDev	.0058	.0086	.026	.0656	.0083	.0061	.0003
%RSD	14.59	.8786	1.036	102.4	.8633	29.15	102.0
#1	.0404	.9754	2.511	-.1154	.9624	.0201	-.0005
#2	.0334	.9687	2.510	.0098	.9557	.0154	.0001
#3	.0448	.9857	2.556	-.0867	.9722	.0275	-.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9962	2.000
SDev	.0065	.017
%RSD	.6495	.8726
#1	.9954	1.997
#2	.9901	1.985
#3	1.003	2.019
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 12:39:30 PM page

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 12:38:11
Comment: QTR SEG 2D DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC .Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	92.62	.1652	.0062	.0020	.0009	.0760
SDev	.0003	.19	.0076	.0019	.0001	.0000	.0073
%RSD	13.68	.2088	4.605	30.51	6.413	2.651	9.622
#1	.0027	92.44	.1616	.0084	.0020	.0009	.0756
#2	.0021	92.83	.1602	.0055	.0019	.0009	.0835
#3	.0026	92.59	.1740	.0048	.0021	.0009	.0689

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0637	.0103	-.0845	.0136	.0381	-.0472	.0041
SDev	.0010	.0006	.0052	.0005	.0014	.0008	.0006
%RSD	1.621	6.304	6.206	3.594	3.577	1.719	15.35
#1	.0631	.0111	-.0859	.0131	.0384	-.0463	.0048
#2	.0649	.0099	-.0890	.0136	.0393	-.0474	.0037
#3	.0632	.0101	-.0788	.0141	.0366	-.0479	.0037

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	18.60	4135.	.0150	.0102	.3117	.0029
SDev	.0001	.05	15.	.0017	.0006	.0094	.0003
%RSD	3.401	.2666	.3672	11.60	5.594	3.027	10.92
#1	.0028	18.62	4117.	.0163	.0108	.3214	.0025
#2	.0027	18.64	4143.	.0131	.0097	.3025	.0031
#3	.0026	18.55	4144.	.0157	.0100	.3111	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0159	.3301	.0224	48.71	.0945	.2502	-.2102
SDev	.0010	.0044	.0027	.13	.0138	.0033	.0065
%RSD	6.024	1.334	12.10	.2602	14.59	1.328	3.100
#1	.0154	.3344	.0231	48.78	.1098	.2535	-.2043
#2	.0170	.3256	.0194	48.79	.0907	.2469	-.2172
#3	.0153	.3303	.0247	48.57	.0831	.2503	-.2090

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0376	.0406	.0739	.0891	.2676	.0007	.0537
SDev	.0061	.0052	.0095	.0038	.0028	.0001	.0106
%RSD	16.21	12.78	12.79	4.286	1.045	16.41	19.70
#1	.0421	.0375	.0747	.0873	.2707	.0006	.0630
#2	.0306	.0376	.0641	.0866	.2666	.0007	.0559
#3	.0400	.0465	.0830	.0935	.2654	.0009	.0422

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6268	.0052	.2455	45.48	.0096	.0646	.0060
SDev	.0140	.0001	.0119	.08	.0002	.0073	.0002

%RSD	2.229	2.822	4.835	.1783	2.313	11.37	2.618
#1	.6157	.0051	.2580	45.45	.0096	.0703	.0061
#2	.6425	.0054	.2440	45.58	.0093	.0672	.0061
#3	.6221	.0052	.2344	45.43	.0098	.0563	.0058

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0240	9.559
SDev	.0025	.025
%RSD	10.31	.2621
#1	-.0236	9.560
#2	-.0267	9.583
#3	-.0218	9.533

Analysis Report Wed 09-13-95 12:43:27 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 12:42:07
Comment: QTR SEG 2D DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0237	.0020	.0012	.0002	.0000	-.0088
SDev	.0008	.0064	.0034	.0016	.0003	.0000	.0055
%RSD	68.98	26.97	170.7	136.9	156.9	98.59	62.23
#1	.0006	.0271	.0008	.0026	.0001	.0000	-.0120
#2	.0021	.0278	-.0006	.0014	.0005	.0001	-.0118
#3	.0008	.0164	.0058	-.0005	-.0000	.0000	-.0025

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	-.0001	.0037	.0010	.0010	.0014	.0011
SDev	.0021	.0012	.0058	.0010	.0011	.0015	.0005
%RSD	147.7	1286.	158.0	102.3	109.2	105.0	49.52
#1	-.0030	.0006	.0019	-.0001	.0018	.0006	.0008
#2	.0010	-.0015	.0102	.0011	.0016	.0031	.0017
#3	-.0023	.0006	-.0010	.0018	-.0003	.0005	.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0046	.6302	.0026	.0020	.0042	.0001
SDev	.0003	.0007	.2857	.0016	.0013	.0055	.0001
%RSD	76.03	15.35	45.32	61.02	65.87	131.3	117.4
#1	.0003	.0047	.7952	.0019	.0034	.0031	-.0000
#2	.0008	.0052	.7952	.0043	.0019	.0101	.0002
#3	.0002	.0038	.3004	.0014	.0007	-.0007	.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0098	.0049	.0123	-.0061	.0047	.0320
SDev	.0018	.0213	.0056	.0018	.0025	.0106	.0108
%RSD	154.6	217.7	113.9	14.93	41.45	224.0	33.86
#1	.0005	.0297	.0035	.0135	-.0066	-.0015	.0278*
#2	.0033	.0125	.0111	.0131	-.0034	.0170	.0443
#3	-.0002	-.0128	.0001	.0102	-.0083	-.0013	.0239

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0129	.0024	-.0031	.0000	.0175	.0004	.0023
SDev	.0046	.0071	.0025	.0027	.0206	.0001	.0007
%RSD	35.59	297.4	79.87	13520.	117.8	33.85	31.57
#1	.0151	.0007	-.0003	.0001	.0196	.0003	.0016
#2	.0161	.0102	-.0048	.0027	.0369	.0005	.0031
#3	.0076	-.0037	-.0042	-.0028	-.0041	.0003	.0023

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	.0005	-.0032	.0778	.0004	.0017	.0004
SDev	.0043	.0005	.0017	.0787	.0006	.0046	.0005

%RSD	172.7	99.72	53.74	101.2	141.5	263.6	136.4
#1	-.0066	.0005	-.0044	.0951	.0007	.0028	.0000
#2	.0019	.0010	-.0012	.1463	.0008	.0057	.0009
#3	-.0027	.0000	-.0039	-.0082	-.0003	-.0033	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0008	.0027
SDev	.0005	.0009
%RSD	64.16	33.69
#1	-.0004	.0030
#2	-.0006	.0033
#3	-.0013	.0016

Analysis Report Wed 09-13-95 12:45:35 PM page 1

Method: ICP1 Sample Name: 95-007944-H1 @10 Operator: DRS
Run Time: 09/13/95 12:44:16
Comment: QTR SEG 3A @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	4.831	.0113	.1439	.0026	.0001	.0064
SDev	.0004	.027	.0030	.0027	.0001	.0000	.0013
%RSD	6.595	.5493	26.26	1.888	4.824	22.02	19.72
#1	.0059	4.801	.0131	.1408	.0027	.0001	.0060
#2	.0053	4.851	.0079	.1460	.0026	.0002	.0079
#3	.0053	4.842	.0130	.1447	.0024	.0001	.0054

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0260	.0016	.0225	.0100	.0216	.0137	.0042
SDev	.0013	.0006	.0058	.0003	.0011	.0019	.0009
%RSD	5.096	35.20	25.84	2.668	5.100	14.19	22.08
#1	.0274	.0021	.0289	.0102	.0217	.0151	.0053
#2	.0247	.0017	.0175	.0101	.0205	.0115	.0036
#3	.0258	.0010	.0212	.0097	.0227	.0145	.0038

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.2132	1076.	.0071	.0072	.0374	.0971
SDev	.0002	.0014	4.	.0014	.0017	.0085	.0006
%RSD	16.37	.6345	.3829	19.34	23.33	22.68	.6382
#1	.0017	.2118	1072.	.0082	.0089	.0446	.0964
#2	.0012	.2145	1080.	.0056	.0056	.0280	.0976
#3	.0014	.2133	1075.	.0077	.0071	.0395	.0973

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0045	22.61	.0270	.2669	.6983	.0370	.0839
SDev	.0010	.02	.0034	.0022	.0121	.0080	.0161
%RSD	23.47	.0876	12.40	.8117	1.730	21.58	19.15
#1	.0051	22.60	.0283	.2684	.6885	.0458	.1020
#2	.0033	22.63	.0232	.2678	.6945	.0352	.0713
#3	.0051	22.60	.0295	.2644	.7118	.0301	.0783

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0394	.0192	.0250	.2496	.1300	.0218	.0217
SDev	.0046	.0112	.0092	.0061	.0222	.0001	.0065
%RSD	11.60	58.28	36.82	2.458	17.07	.3466	30.01
#1	.0445	.0322	.0322	.2532	.1395	.0217	.0290
#2	.0356	.0130	.0282	.2531	.1046	.0219	.0164
#3	.0382	.0125	.0146	.2425	.1458	.0217	.0197

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	.0058	.0251	.3952	.0042	.0350	.0016
SDev	.0024	.0002	.0044	.0854	.0006	.0032	.0006

%RSD	62.03	4.018	17.70	21.61	15.29	9.060	36.94
#1	.0011	.0061	.0242	.4848	.0050	.0374	.0023
#2	.0052	.0058	.0211	.3148	.0039	.0362	.0011
#3	.0051	.0056	.0299	.3858	.0038	.0314	.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0110	.0039
SDev	.0004	.0010
%RSD	3.398	26.93
#1	.0114	.0050
#2	.0108	.0035
#3	.0107	.0030

Analysis Report Wed 09-13-95 12:49:25 PM page 1

Method: ICP1 Sample Name: 95-007944-H1 @2 Operator: DRS
Run Time: 09/13/95 12:48:05
Comment: @TR SEB 3A @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0134	22.63	.0584	.6593	.0098	.0004	.0363
SDev	.0013	.15	.0040	.0030	.0001	.0000	.0118
%RSD	9.792	.6519	6.889	.4505	1.255	2.968	32.65
#1	.0120	22.75	.0538	.6626	.0096	.0004	.0227
#2	.0136	22.68	.0597	.6569	.0098	.0004	.0447
#3	.0146	22.46	.0615	.6585	.0099	.0004	.0414

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6858	.0039	.0603	.0380	.0992	.0606	.0094
SDev	.0024	.0004	.0069	.0004	.0028	.0006	.0010
%RSD	.3548	11.01	11.49	1.174	2.836	1.005	10.72
#1	.6871	.0040	.0532	.0375	.1017	.0613	.0084
#2	.6873	.0043	.0608	.0382	.0996	.0600	.0093
#3	.6830	.0034	.0670	.0383	.0961	.0606	.0104

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.9742	4741.	.0161	.0215	.1209	.4521
SDev	.0002	.0049	34.	.0017	.0014	.0007	.0020
%RSD	7.520	.5037	.7081	10.32	6.243	.5649	.4374
#1	.0028	.9787	4770.	.0143	.0212	.1212	.4542
#2	.0029	.9749	4749.	.0165	.0204	.1213	.4516
#3	.0032	.9690	4705.	.0175	.0230	.1201	.4503

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0160	102.7	.0588	1.237	3.275	.1015	.1794
SDev	.0006	.8	.0044	.010	.019	.0037	.0190
%RSD	3.935	.8212	7.538	.8090	.5823	3.670	10.61
#1	.0156	103.5	.0538	1.248	3.297	.1009	.1703
#2	.0157	102.8	.0603	1.235	3.263	.0981	.1666
#3	.0167	101.8	.0623	1.228	3.266	.1055	.2013

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0857	.0492	.0696	1.173	.2964	.0979	.0568
SDev	.0067	.0016	.0059	.002	.0017	.0007	.0101
%RSD	7.835	3.316	8.429	.1715	.5693	.6823	17.76
#1	.0807	.0502	.0688	1.174	.2982	.0986	.0487
#2	.0832	.0473	.0759	1.170	.2961	.0979	.0536
#3	.0934	.0501	.0642	1.174	.2948	.0972	.0681

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0117	.0228	.0853	1.144	.0132	.1494	.0039
SDev	.0044	.0001	.0031	.091	.0004	.0054	.0006

%RSD	37.93	.6065	3.610	7.953	3.106	3.605	15.07
#1	.0147	.0227	.0886	1.078	.0131	.1434	.0035
#2	.0138	.0228	.0847	1.107	.0129	.1510	.0037
#3	.0066	.0229	.0825	1.248	.0136	.1538	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0624	.0084
SDev	.0020	.0008
%RSD	3.168	10.02
#1	.0615	.0077
#2	.0646	.0081
#3	.0610	.0093

Analysis Report Wed 09-13-95 12:53:08 PM page 1

Method: ICP1 Sample Name: 95-007944-H2 @10 Operator: DRS
Run Time: 09/13/95 12:51:49
Comment: QTR SEG 3A DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	4.602	.0168	.0648	.0035	.0003	.0078
SDev	.0002	.019	.0083	.0013	.0001	.0000	.0019
%RSD	2.016	.4028	49.42	2.034	3.500	9.669	25.07
#1	.0086	4.621	.0197	.0661	.0035	.0002	.0096
#2	.0088	4.584	.0232	.0635	.0037	.0003	.0079
#3	.0084	4.602	.0074	.0648	.0034	.0003	.0058

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0343	.0031	.0484	.0116	.0267	.0132	.0077
SDev	.0003	.0015	.0068	.0002	.0023	.0007	.0006
%RSD	.9574	46.85	14.06	1.738	8.760	5.179	7.794
#1	.0341	.0020	.0442	.0114	.0288	.0129	.0071
#2	.0347	.0048	.0562	.0118	.0272	.0140	.0083
#3	.0341	.0026	.0447	.0116	.0242	.0127	.0076

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.2583	1059.	.0130	.0098	.0472	.0774
SDev	.0002	.0004	2.	.0012	.0002	.0017	.0001
%RSD	7.008	.1385	.1753	9.358	2.183	3.631	.1677
#1	.0021	.2586	1060.	.0119	.0097	.0454	.0773
#2	.0024	.2579	1057.	.0143	.0101	.0489	.0774
#3	.0022	.2582	1061.	.0128	.0097	.0474	.0776

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0089	27.94	.0491	.2736	1.002	.0432	.1501
SDev	.0008	.07	.0001	.0089	.015	.0023	.0096
%RSD	9.354	.2518	.2554	3.248	1.467	5.339	6.384
#1	.0081	27.96	.0490	.2683	.9850	.0458	.1396
#2	.0098	27.86	.0490	.2686	1.010	.0414	.1583
#3	.0089	28.00	.0492	.2839	1.011	.0424	.1523

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0652	.0242	.0281	.2333	.2058	.0297	.0358
SDev	.0050	.0090	.0079	.0042	.0236	.0002	.0049
%RSD	7.605	37.01	28.17	1.797	11.45	.6246	13.58
#1	.0604	.0279	.0239	.2375	.2020	.0298	.0317
#2	.0703	.0140	.0372	.2291	.2311	.0295	.0411
#3	.0649	.0307	.0231	.2334	.1845	.0299	.0344

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0064	.0322	.7540	.0072	.0502	.0031
SDev	.0050	.0003	.0029	.0593	.0004	.0048	.0003

%RSD	527.9	4.344	8.845	7.865	5.750	9.601	9.031
#1	.0066	.0063	.0353	.6891	.0068	.0493	.0028
#2	-.0012	.0068	.0317	.8053	.0076	.0459	.0033
#3	-.0026	.0062	.0296	.7674	.0072	.0554	.0031

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0120	.0058
SDev	.0009	.0005
%RSD	7.134	9.128
#1	.0118	.0052
#2	.0130	.0063
#3	.0113	.0058

Analysis Report Wed 09-13-95 12:57:06 PM page 1

Method: ICP1 Sample Name: 95-007944-H2 @2 Operator: DRS
Run Time: 09/13/95 12:55:47
Comment: QTR SEG 3A DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0140	22.80	.0595	.2950	.0110	.0004	.0394
SDev	.0028	.73	.0099	.0080	.0005	.0000	.0093
%RSD	19.74	3.198	16.63	2.713	4.503	6.176	23.69
#1	.0170	22.06	.0706	.2882	.0115	.0004	.0411
#2	.0136	22.85	.0515	.2929	.0111	.0004	.0478
#3	.0115	23.51	.0565	.3038	.0105	.0003	.0294

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7352	.0048	.0561	.0358	.1263	.0533	.0089
SDev	.0123	.0008	.0236	.0017	.0031	.0015	.0026
%RSD	1.673	16.26	42.09	4.771	2.440	2.763	29.35
#1	.7227	.0057	.0799	.0376	.1228	.0529	.0116
#2	.7356	.0047	.0556	.0356	.1283	.0549	.0089
#3	.7473	.0041	.0327	.0342	.1279	.0520	.0063

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	1.256	4820.	.0154	.0219	.1047	.3800
SDev	.0008	.032	156.	.0040	.0031	.0078	.0093
%RSD	29.22	2.509	3.246	25.74	13.92	7.487	2.456
#1	.0037	1.224	4658.	.0197	.0253	.1104	.3697
#2	.0029	1.257	4832.	.0146	.0212	.1080	.3825
#3	.0020	1.287	4970.	.0119	.0193	.0958	.3879

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0230	129.2	.0583	1.320	5.026	.1062	.1602
SDev	.0006	4.8	.0180	.035	.127	.0173	.0428
%RSD	2.727	3.704	30.89	2.689	2.536	16.26	26.75
#1	.0230	124.2	.0767	1.284	4.907	.1241	.2048
#2	.0235	129.6	.0575	1.322	5.011	.1047	.1563
#3	.0223	133.8	.0407	1.355	5.160	.0897	.1194

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0845	.0461	.0579	1.124	.2908	.1427	.0540
SDev	.0198	.0022	.0116	.022	.0703	.0046	.0121
%RSD	23.46	4.729	20.08	1.961	24.19	3.213	22.52
#1	.1055	.0486	.0713	1.102	.3679	.1380	.0670
#2	.0818	.0449	.0516	1.122	.2747	.1430	.0518
#3	.0662	.0448	.0507	1.146	.2300	.1471	.0430

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0140	.0198	.0791	1.203	.0155	.1889	.0038
SDev	.0034	.0008	.0057	.230	.0016	.0052	.0013

%RSD	24.11	4.169	7.204	19.10	10.51	2.727	32.91
#1	.0177	.0206	.0824	1.420	.0169	.1829	.0051
#2	.0111	.0198	.0824	1.227	.0158	.1915	.0037
#3	.0131	.0190	.0725	.9619	.0137	.1922	.0026

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0696	.0074
SDev	.0021	.0019
%RSD	3.008	25.55
#1	.0677	.0093
#2	.0692	.0074
#3	.0719	.0055

Analysis Report Wed 09-13-95 01:01:39 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @10 Operator: DRS
Run Time: 09/13/95 13:00:20
Comment: SOIL STD @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	6.592	.0302	.0551	.0844	.0007	.0146
SDev	.0005	.091	.0064	.0029	.0013	.0000	.0024
%RSD	6.066	1.382	21.30	5.333	1.513	2.273	16.10
#1	.0081	6.560	.0257	.0532	.0839	.0007	.0132
#2	.0091	6.521	.0376	.0537	.0835	.0007	.0173
#3	.0085	6.694	.0274	.0585	.0859	.0007	.0134

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.716	.0031	.0472	.0161	.0195	.0183	.0080
SDev	.024	.0006	.0105	.0007	.0009	.0004	.0013
%RSD	1.399	17.97	22.21	4.106	4.477	2.271	15.98
#1	1.702	.0035	.0456	.0160	.0204	.0187	.0077
#2	1.702	.0033	.0584	.0168	.0194	.0184	.0094
#3	1.743	.0024	.0376	.0155	.0187	.0179	.0069

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	3.297	1056.	.0146	.0127	1.430	.1338
SDev	.0003	.051	12.	.0016	.0010	.012	.0016
%RSD	12.20	1.544	1.109	11.25	7.763	.8657	1.229
#1	.0024	3.273	1055.	.0136	.0116	1.432	.1331
#2	.0029	3.262	1045.	.0166	.0131	1.416	.1326
#3	.0023	3.355	1068.	.0138	.0134	1.441	.1357

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	1.455	.0501	1.898	.0966	.0761	.1422
SDev	.0013	.011	.0044	.025	.0191	.0062	.0118
%RSD	19.34	.7649	8.801	1.326	19.79	8.097	8.295
#1	.0080	1.446	.0469	1.883	.1034	.0741	.1410
#2	.0054	1.467	.0552	1.884	.1114	.0830	.1546
#3	.0074	1.450	.0484	1.927	.0750	.0712	.1311

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0622	.0288	.0393	26.67	.1875	.0219	.0330
SDev	.0075	.0084	.0118	.39	.0262	.0003	.0042
%RSD	12.09	29.06	29.88	1.455	13.99	1.307	12.60
#1	.0615	.0191	.0502	26.46	.1615	.0217	.0314
#2	.0700	.0331	.0269	26.43	.2140	.0217	.0377
#3	.0550	.0341	.0409	27.11	.1872	.0222	.0299

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0075	.2828	.0337	.7103	.0156	.0315	.0043
SDev	.0068	.0040	.0121	.1303	.0007	.0041	.0004

%RSD	90.51	1.408	35.95	18.35	4.436	13.13	9.168
#1	.0008	.2808	.0324	.6990	.0153	.0352	.0042
#2	.0074	.2802	.0465	.8459	.0164	.0270	.0048
#3	.0144	.2874	.0223	.5860	.0151	.0323	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0190	.0133
SDev	.0004	.0006
%RSD	2.168	4.836
#1	.0190	.0132
#2	.0193	.0140
#3	.0185	.0127

Analysis Report Wed 09-13-95 01:05:13 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @2 Operator: DRS
Run Time: 09/13/95 13:03:54
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0136	32.02	.0958	.2466	.3985	.0030	.0546
SDev	.0023	.66	.0122	.0048	.0088	.0000	.0051
%RSD	16.81	2.049	12.69	1.960	2.211	.6614	9.353
#1	.0121	32.69	.0824	.2522	.4075	.0030	.0524
#2	.0125	31.98	.0991	.2440	.3979	.0030	.0510
#3	.0162	31.38	.1061	.2436	.3899	.0029	.0605

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.957	.0092	.0795	.0563	.0899	.0774	.0121
SDev	.127	.0020	.0118	.0012	.0016	.0013	.0018
%RSD	1.414	21.45	14.80	2.077	1.739	1.649	14.60
#1	9.097	.0070	.0695	.0553	.0913	.0773	.0104
#2	8.922	.0109	.0765	.0561	.0882	.0762	.0120
#3	8.851	.0097	.0925	.0576	.0902	.0788	.0139

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	15.76	4762.	.0275	.0296	6.749	.6447
SDev	.0004	.27	98.	.0036	.0021	.099	.0116
%RSD	10.26	1.690	2.063	13.13	7.108	1.474	1.801
#1	.0039	16.05	4861.	.0244	.0273	6.859	.6570
#2	.0043	15.71	4762.	.0268	.0299	6.724	.6431
#3	.0048	15.52	4664.	.0315	.0315	6.665	.6340

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0213	6.509	.0759	9.109	.3960	.2374	.1940
SDev	.0012	.111	.0103	.130	.0252	.0093	.0352
%RSD	5.544	1.706	13.52	1.429	6.353	3.912	18.12
#1	.0209	6.604	.0659	9.248	.3675	.2309	.1580
#2	.0204	6.536	.0755	9.087	.4152	.2333	.1956
#3	.0227	6.387	.0864	8.991	.4052	.2481	.2283

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0967	.0799	.1052	131.8	.3082	.1017	.0785
SDev	.0176	.0103	.0127	2.4	.0534	.0020	.0111
%RSD	18.22	12.89	12.06	1.842	17.32	1.973	14.15
#1	.0808	.0721	.0985	134.4	.2592	.1038	.0696
#2	.0938	.0760	.0973	131.5	.3002	.1014	.0749
#3	.1157	.0916	.1199	129.6	.3651	.0999	.0909

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0360	1.353	.1394	1.055	.0573	.0587	.0113
SDev	.0060	.026	.0087	.150	.0011	.0079	.0006

Analysis Report Wed 09-13-95 01:05:13 PM page 2

%RSD	16.76	1.940	6.222	14.25	1.884	13.44	5.035
#1	.0348	1.381	.1296	.8917	.0568	.0499	.0108
#2	.0306	1.349	.1461	1.087	.0566	.0650	.0110
#3	.0425	1.329	.1426	1.187	.0586	.0613	.0119

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1024	.0477
SDev	.0011	.0004
%RSD	1.120	.8879
#1	.1029	.0472
#2	.1011	.0478
#3	.1032	.0480

Analysis Report QC Standard Wed 09-13-95 01:09:26 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 13:08:07
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DRS 9/14/

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4772	24.31	2.502	1.950	.4970	.0909	23.95
SDev	.0017	.11	.015	.013	.0022	.0004	.09
%RSD	.3652	.4698	.6041	.6674	.4322	.4107	.3630
#1	.4756	24.21	2.496	1.935	.4953	.0906	23.88
#2	.4790	24.44	2.519	1.956	.4994	.0913	24.05
#3	.4770	24.30	2.491	1.960	.4963	.0909	23.93
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.32	.4848	-.0388	1.002	.9923	.9689	.0001
SDev	.09	.0038	.0029	.003	.0028	.0040	.0001
%RSD	.3591	.7921	7.364	.2674	.2808	.4176	64.62
#1	24.25	.4843	-.0355	1.000	.9891	.9656	.0002
#2	24.42	.4889	-.0406	1.005	.9937	.9734	.0001
#3	24.30	.4813	-.0402	1.001	.9942	.9676	.0001
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	19.92	23.90	.0046	1.891	25.73	.4991
SDev	.0001	.08	.06	.0003	.010	.11	.0021
%RSD	5.807	.4148	.2597	7.578	.5503	.4300	.4224
#1	.0019	19.85	23.84	.0050	1.881	25.63	.4973
#2	.0019	20.01	23.89	.0044	1.902	25.85	.5014
#3	.0021	19.89	23.96	.0044	1.888	25.71	.4986
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.005	23.59	.0121	1.037	.0401	2.528	-.0083
SDev	.004	.18	.0027	.003	.0046	.005	.0071
%RSD	.3797	.7773	21.95	.3201	11.41	.1982	85.30
#1	1.001	23.38	.0151	1.038	.0415	2.524	-.0002
#2	1.009	23.69	.0098	1.040	.0349	2.534	-.0135
#3	1.005	23.71	.0116	1.034	.0437	2.528	-.0112
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0021	2.432	2.448	18.23	-.0999	.5035	-.0061
SDev	.0033	.015	.035	.07	.0248	.0025	.0020
%RSD	159.8	.6222	1.436	.3637	24.86	.5018	33.02
#1	.0000	2.419	2.425	18.17	-.0847	.5010	-.0082
#2	-.0059	2.448	2.488	18.30	-.1285	.5061	-.0060
#3	-.0003	2.428	2.430	18.24	-.0864	.5033	-.0042
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0400	.9773	2.495	-.0058	.9636	.0277	.0003
SDev	.0039	.0051	.023	.0540	.0040	.0042	.0004
%RSD	9.734	.5194	.9128	933.1	.4145	15.00	142.8
#1	.0359	.9730	2.474	.0559	.9607	.0245	.0000
#2	.0403	.9829	2.520	-.0444	.9681	.0261	.0001
#3	.0437	.9760	2.491	-.0289	.9619	.0324	.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9951	2.004
SDev	.0083	.008
%RSD	.8310	.4119
#1	.9917	1.997
#2	1.005	2.013
#3	.9890	2.002
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 01:13:05 PM page 1

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 13:11:45
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	89.78	.1711	.0091	.0028	.0010	.0907
SDev	.0024	1.55	.0017	.0012	.0004	.0000	.0082
%RSD	34.75	1.732	.9791	13.40	14.18	4.036	9.043
#1	.0043	91.56	.1694	.0077	.0024	.0009	.0827
#2	.0075	89.14	.1710	.0099	.0028	.0010	.0902
#3	.0090	88.65	.1728	.0097	.0031	.0010	.0991

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0684	.0102	-.0556	.0165	.0410	-.0416	.0079
SDev	.0019	.0013	.0163	.0006	.0021	.0013	.0017
%RSD	2.853	12.45	29.32	3.817	5.158	3.027	21.46
#1	.0663	.0101	-.0737	.0158	.0393	-.0430	.0060
#2	.0702	.0089	-.0509	.0170	.0434	-.0413	.0086
#3	.0686	.0115	-.0421	.0166	.0404	-.0406	.0091

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	18.23	3950.	.0205	.0128	.3335	.0037
SDev	.0005	.29	65.	.0027	.0006	.0055	.0002
%RSD	14.13	1.573	1.648	13.11	4.437	1.649	5.715
#1	.0032	18.56	4024.	.0174	.0123	.3277	.0038
#2	.0041	18.11	3925.	.0220	.0127	.3342	.0034
#3	.0041	18.03	3901.	.0221	.0134	.3387	.0038

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0175	.3579	.0447	48.06	.1122	.2767	-.1437
SDev	.0003	.0233	.0107	.64	.0349	.0049	.0322
%RSD	1.980	6.507	24.02	1.341	31.09	1.753	22.42
#1	.0179	.3476	.0329	48.80	.0886	.2792	-.1807
#2	.0173	.3415	.0475	47.76	.0957	.2799	-.1277
#3	.0173	.3846	.0539	47.62	.1523	.2712	-.1226

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0700	.0550	.0947	.1001	.4042	.0011	.0665
SDev	.0133	.0086	.0134	.0101	.0327	.0002	.0032
%RSD	18.99	15.55	14.19	10.07	8.085	16.39	4.771
#1	.0550	.0453	.0795	.0892	.3696	.0009	.0628
#2	.0748	.0580	.1051	.1020	.4084	.0011	.0677
#3	.0803	.0616	.0995	.1091	.4345	.0012	.0688

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6368	.0066	.2484	44.37	.0130	.0716	.0074
SDev	.0036	.0005	.0128	.72	.0009	.0091	.0005

%RSD	.5699	7.884	5.166	1.617	6.910	12.71	6.552
#1	.6399	.0061	.2343	45.19	.0120	.0626	.0069
#2	.6376	.0067	.2594	44.05	.0135	.0808	.0078
#3	.6328	.0071	.2515	43.86	.0136	.0715	.0076

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0236	9.328
SDev	.0002	.171
%RSD	.7317	1.834
#1	-.0235	9.524
#2	-.0238	9.254
#3	-.0234	9.207

Analysis Report QC Standard Wed 09-13-95 01:16:53 PM page A

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 13:15:33
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Te, U, W-NA for PASS ⊕ DRS 9/15/

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	-.1263	.0130	.0043	.0007	.0003	.0006
SDev	.0003	.0017	.0022	.0031	.0002	.0000	.0052
%RSD	7.694	1.371	17.03	71.19	27.44	12.95	872.3
#1	.0036	-.1243	.0142	.0076	.0007	.0003	.0022
#2	.0031	-.1271	.0105	.0036	.0005	.0003	-.0052
#3	.0032	-.1275	.0144	.0016	.0009	.0003	.0048
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0213	.0015	1.941	.0043	.0037	-.0033	1.909
SDev	.0002	.0003	.005	.0007	.0002	.0009	.012
%RSD	.7769	17.89	.2584	16.68	5.965	28.48	.6163
#1	.0211	.0018	1.938	.0046	.0034	-.0022	1.901
#2	.0213	.0014	1.947	.0035	.0039	-.0036	1.922
#3	.0214	.0013	1.938	.0049	.0038	-.0040	1.904
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.898	.0128	1.013	1.916	.0055	.0902	.0011
SDev	.011	.0003	.054	.010	.0006	.0069	.0002
%RSD	.5836	2.590	5.329	.5133	10.35	7.710	22.27
#1	1.889	.0130	1.060	1.909	.0060	.0971	.0010
#2	1.910	.0124	1.025	1.928	.0049	.0832	.0008
#3	1.894	.0128	.9542	1.912	.0056	.0902	.0013
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	.0281	1.910	.0200	.0155	.0557	2.028
SDev	.0013	.0075	.011	.0039	.0090	.0027	.011
%RSD	68.10	26.72	.5569	19.70	57.91	4.930	.5309
#1	.0034	.0325	1.899	.0243	.0091	.0534	2.021
#2	.0008	.0195	1.920	.0192	.0116	.0550	2.041
#3	.0017	.0325	1.911	.0165	.0257	.0588	2.023
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.950	.0180	.0294	.0603	2.050	.0007	Q1.777
SDev	.006	.0155	.0102	.0033	.013	.0000	.012
%RSD	.2906	86.23	34.74	5.412	.6210	.6925	.6849
#1	1.947	.0205	.0314	.0575	2.064	.0007	Q1.764
#2	1.957	.0322	.0384	.0595	2.043	.0007	Q1.782
#3	1.947	.0014	.0183	.0638	2.042	.0007	Q1.787
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.878	.0021	.0103	Q8.493	.0002	Q.4906	.9357
SDev	.022	.0003	.0030	.050	.0002	.0117	.0042
%RSD	.4413	15.28	29.27	.5831	103.2	2.383	.4494
#1	4.855	.0021	.0075	Q8.498	.0001	Q.4771	.9328
#2	4.897	.0018	.0099	Q8.541	.0005	Q.4972	.9406
#3	4.882	.0024	.0135	Q8.442	.0001	Q.4975	.9338
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0010	.0008
SDev	.0008	.0012
%RSD	76.84	151.5
#1	.0011	.0012
#2	.0018	.0016
#3	.0002	-.0006
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 01:21:19 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/13/95 13:19:59
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.0064	Q.1254	Q.0865	Q.1111	.0471	Q.0208	.0098
SDev	.0004	.0044	.0026	.0035	.0003	.0001	.0036
%RSD	5.958	3.520	3.044	3.177	.7046	.4294	36.89
#1	Q.0068	Q.1304	Q.0871	Q.1070	.0468	Q.0207	.0099
#2	Q.0064	Q.1239	Q.0888	Q.1133	.0469	Q.0208	.0133
#3	Q.0060	Q.1220	Q.0836	Q.1130	.0474	Q.0209	.0061
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Fail	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q34.12	.0128	.0261	Q.0282	Q.0226	.0235	.0047
SDev	.21	.0008	.0066	.0005	.0020	.0015	.0005
%RSD	.6166	5.912	25.36	1.745	8.923	6.264	11.03
#1	Q33.90	.0122	.0329	Q.0283	Q.0222	Q.0252	.0050
#2	Q34.13	.0126	.0257	Q.0286	Q.0208	.0225	.0050
#3	Q34.32	Q.0136	.0197	Q.0277	Q.0247	.0228	.0041
Errors	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	Q.1177	2.332	.0138	.0170	9.422	.0340
SDev	.0001	.0007	.064	.0006	.0011	.069	.0002
%RSD	5.864	.5965	2.731	4.638	6.678	.7270	.4744
#1	.0026	Q.1169	2.385	.0138	.0172	9.351	.0338
#2	.0024	Q.1183	2.350	.0145	.0157	9.425	.0340
#3	.0023	Q.1179	2.262	.0132	Q.0179	9.488	.0341
Errors	NOCHECK	QC Fail	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1040	Q10.66	.0400	.0653	.0494	Q.0572	.1003
SDev	.0014	.14	.0044	.0013	.0120	.0031	.0161
%RSD	1.330	1.311	10.95	1.925	24.23	5.387	16.07
#1	.1027	Q10.58	.0436	.0658	.0388	Q.0590	.1115
#2	.1038	Q10.58	.0412	.0661	.0624	Q.0536	.1076
#3	.1055	Q10.83	.0351	.0638	.0471	Q.0589	.0818
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0404	.0118	Q.0331	.0336	.1047	Q.2468	.0156
SDev	.0028	.0067	.0054	.0032	.0076	.0022	.0045
%RSD	6.992	57.15	16.22	9.589	7.268	.8717	28.93
#1	.0420	.0189	Q.0383	.0370	.1095	Q.2450	.0155
#2	.0421	.0109	Q.0276	.0334	.1087	Q.2463	.0201
#3	.0372	.0055	Q.0335	.0305	.0960	Q.2492	.0111
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0077	.0099	Q.0279	.6697	.0302	.0146	.0004
SDev	.0022	.0003	.0022	.0622	.0002	.0089	.0001
%RSD	28.39	2.499	8.074	9.292	.6842	60.58	38.06
#1	-.0102	.0102	Q.0305	.7068	.0303	.0198	.0005
#2	-.0064	.0098	Q.0270	.7044	.0303	.0198	.0005
#3	-.0063	.0098	Q.0262	.5978	.0300	.0044	.0002
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0848	.0035
SDev	.0006	.0006
%RSD	.6824	17.21
#1	Q.0855	.0042
#2	Q.0845	.0033
#3	Q.0845	.0030
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Wed 09-13-95 01:25:29 PM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/13/95 13:24:10
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	1.852	1.957	1.870	.9530	.9198	1.847
SDev	.0008	.014	.006	.022	.0103	.0077	.016
%RSD	20.06	.7483	.3099	1.169	1.086	.8410	.8858
#1	.0046	1.843	1.960	1.854	.9442	.9135	1.832
#2	.0040	1.846	1.950	1.863	.9505	.9175	1.844
#3	.0031	1.868	1.961	1.895	.9644	.9285	1.864

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.882	.9565	.0223	1.003	.4925	1.919	.0040
SDev	.010	.0048	.0052	.007	.0026	.016	.0006
%RSD	.5222	.5055	23.15	.7010	.5321	.8293	15.41
#1	1.875	.9513	.0280	.9969	.4897	1.907	.0046
#2	1.876	.9575	.0209	1.002	.4928	1.912	.0039
#3	1.893	.9608	.0180	1.011	.4949	1.937	.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	1.938	4.883	.0075	1.914	2.024	.9773
SDev	.0003	.015	.118	.0003	.024	.021	.0074
%RSD	16.70	.7601	2.410	3.691	1.253	1.057	.7600
#1	.0017	1.925	4.983	.0077	1.894	2.002	.9709
#2	.0017	1.935	4.912	.0077	1.909	2.026	.9756
#3	.0013	1.954	4.753	.0072	1.941	2.045	.9855

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.926	7.815	.0273	2.023	4.516	2.006	.0839
SDev	.012	.077	.0055	.019	.038	.017	.0172
%RSD	.6436	.9838	20.10	.9298	.8429	.8412	20.52
#1	1.917	7.741	.0325	2.019	4.474	1.996	.1031
#2	1.922	7.810	.0278	2.007	4.524	1.997	.0787
#3	1.941	7.895	.0215	2.044	4.549	2.026	.0698

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0344	.0014	1.905	4.772	.0893	1.941	-.0015
SDev	.0049	.0092	.011	.031	.0245	.021	.0077
%RSD	14.12	672.1	.5824	.6550	27.38	1.103	516.6
#1	.0394	.0094	1.899	4.752	.1176	1.922	.0047
#2	.0342	.0034	1.898	4.755	.0757	1.936	.0009
#3	.0297	-.0087	1.918	4.808	.0748	1.964	-.0101

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	.0021	1.913	.3705	.9214	.0141	.0016
SDev	.0022	.0001	.005	.1249	.0077	.0028	.0002

%RSD	58.52	7.137	.2432	33.70	.8349	19.49	14.77
#1	.0014	.0022	1.914	.5061	.9147	.0123	.0019
#2	.0043	.0020	1.907	.3450	.9197	.0173	.0016
#3	.0057	.0020	1.916	.2603	.9298	.0128	.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.005	.0023
SDev	.007	.0011
%RSD	.7315	46.82
#1	.9967	.0034
#2	1.006	.0021
#3	1.011	.0013

Analysis Report Wed 09-13-95 01:29:01 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 13:27:41
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	.0144	.0075	.0039	.0007	.0002	.0009
SDev	.0006	.0033	.0029	.0006	.0001	.0000	.0064
%RSD	16.03	23.16	39.45	15.50	10.83	17.31	723.5
#1	.0032	.0108	.0107	.0038	.0007	.0002	-.0063
#2	.0043	.0151	.0049	.0046	.0007	.0002	.0058
#3	.0033	.0173	.0068	.0034	.0006	.0001	.0032

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0074	-.0005	.0173	.0032	.0017	.0048	.0036
SDev	.0009	.0006	.0010	.0008	.0019	.0008	.0003
%RSD	12.44	101.8	5.956	26.57	112.0	16.37	8.814
#1	.0080	.0001	.0170	.0034	.0027	.0056	.0035
#2	.0079	-.0009	.0184	.0038	.0030	.0045	.0040
#3	.0063	-.0009	.0164	.0022	-.0005	.0041	.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0023	-.1119	.0065	.0041	.0165	.0006
SDev	.0002	.0007	.0270	.0003	.0004	.0030	.0001
%RSD	16.88	32.12	24.12	3.991	9.097	18.20	23.66
#1	.0012	.0027	-.0884	.0068	.0045	.0197	.0006
#2	.0012	.0028	-.1060	.0063	.0037	.0137	.0007
#3	.0009	.0015	-.1414	.0064	.0041	.0162	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0534	.0207	.0035	.0172	.0107	.0732
SDev	.0013	.0162	.0027	.0016	.0078	.0066	.0041
%RSD	36.74	30.33	12.78	45.80	45.69	61.43	5.576
#1	.0022	.0419	.0235	.0025	.0082	.0177	.0738
#2	.0047	.0463	.0204	.0026	.0205	.0098	.0688
#3	.0034	.0719	.0183	.0053	.0228	.0046	.0769

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0276	.0087	.0159	.0052	.0774	.0008	.0083
SDev	.0040	.0027	.0062	.0058	.0152	.0001	.0062
%RSD	14.51	30.34	39.32	112.0	19.67	8.815	74.70
#1	.0254	.0112	.0167	.0015	.0686	.0008	.0012
#2	.0322	.0059	.0216	.0118	.0949	.0009	.0127
#3	.0252	.0091	.0093	.0021	.0686	.0008	.0110

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0014	.0044	.3156	.0022	.0136	.0014
SDev	.0026	.0003	.0086	.0536	.0004	.0024	.0004

%RSD	321.2	25.01	195.6	16.98	17.22	17.34	27.40
#1	.0008	.0014	.0033	.3774	.0024	.0115	.0011
#2	.0005	.0017	.0136	.2868	.0024	.0161	.0018
#3	-.0038	.0010	-.0036	.2826	.0017	.0131	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0006	.0023
SDev	.0011	.0001
%RSD	187.5	2.018
#1	.0003	.0022
#2	.0017	.0023
#3	-.0004	.0022

Standardization Rpt. Wed 09-13-95 02:26:54 PM page

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6604	.2096	.1666	.1027	.0308	.0171	.1419
SDev	.0016	.0003	.0015	.0010	.0001	.0001	.0012
%RSD	.2357	.1378	.8745	.9756	.3247	.3370	.8261
#1	.6589	.2094	.1660	.1017	.0308	.0171	.1410
#2	.6602	.2099	.1683	.1026	.0309	.0171	.1414
#3	.6620	.2094	.1656	.1037	.0307	.0172	.1432

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1260	.0438	.6325	.1416	.0466	.0461	.1959
SDev	.0003	.0007	.0011	.0003	.0003	.0002	.0006
%RSD	.2381	1.519	.1742	.1777	.7542	.4512	.2842
#1	.1257	.0446	.6312	.1414	.0469	.0459	.1953
#2	.1263	.0435	.6330	.1419	.0462	.0463	.1964
#3	.1260	.0434	.6332	.1416	.0466	.0462	.1960

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0342	.0561	.2152	.1001	.0423	.2376	.0197
SDev	.0002	.0003	.0004	.0001	.0001	.0017	.0002
%RSD	.5064	.4483	.1759	.1525	.3608	.6972	.8792
#1	.0341	.0559	.2148	.1001	.0423	.2360	.0198
#2	.0344	.0564	.2155	.1003	.0422	.2393	.0198
#3	.0341	.0561	.2154	.1000	.0425	.2374	.0195

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0802	.0418	.3712	.0469	.1288	1.327	1.543
SDev	.0006	.0002	.0010	.0004	.0012	.010	.004
%RSD	.8116	.4976	.2712	.9294	.9541	.7225	.2462
#1	.0795	.0416	.3701	.0474	.1293	1.316	1.539
#2	.0802	.0420	.3713	.0466	.1274	1.332	1.546
#3	.0808	.0419	.3721	.0467	.1297	1.332	1.544

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.533	.2605	.1539	.3725	.6826	.0146	.9841
SDev	.005	.0018	.0010	.0008	.0011	.0000	.0089
%RSD	.3098	.6742	.6507	.2197	.1614	.0000	.9071
#1	1.528	.2603	.1528	.3723	.6825	.0146	.9849
#2	1.535	.2623	.1547	.3734	.6815	.0146	.9926
#3	1.536	.2588	.1543	.3718	.6837	.0146	.9748

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2343	.0653	.0349	1.736	.0979	.0307	.0257
SDev	.0009	.0001	.0002	.002	.0004	.0004	.0001
%RSD	.3966	.2338	.4963	.0874	.3683	1.467	.2249
#1	.2335	.0652	.0347	1.735	.0975	.0312	.0256
#2	.2353	.0655	.0350	1.736	.0982	.0307	.0257
#3	.2340	.0653	.0350	1.738	.0980	.0303	.0257

Elem	Zn	Zr
Avge	.0332	.0810
SDev	.0011	.0003

%RSD	3.307	.3967
#1	.0319	.0808
#2	.0338	.0814
#3	.0338	.0809

Standardization Rpt. Wed 09-13-95 02:29:03 PM page 1

Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	7.471	16.42	11.73	4.166	69.39	42.71	11.25
SDev	.051	.05	.03	.026	.21	.16	.04
%RSD	.6801	.2946	.2233	.6243	.2974	.3677	.3550
#1	7.432	16.40	11.75	4.144	69.32	42.64	11.23
#2	7.453	16.38	11.70	4.158	69.24	42.61	11.23
#3	7.529	16.47	11.74	4.195	69.63	42.89	11.30

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.522	5.676	55.91	7.926	13.97	27.98	23.76
SDev	.054	.021	.11	.063	.07	.10	.12
%RSD	.9788	.3720	.1954	.7906	.5075	.3422	.4946
#1	5.474	5.669	55.91	7.877	13.92	27.92	23.68
#2	5.510	5.659	55.80	7.904	13.92	27.94	23.70
#3	5.580	5.699	56.02	7.996	14.05	28.09	23.90

Standardization Rpt. Wed 09-13-95 02:32:32 PM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	68.01	46.07	73.08	9.289	2.778	12.46	6.538
SDev	.26	.18	.16	.020	.020	.10	.017
%RSD	.3759	.3845	.2194	.2149	.7241	.7625	.2648
#1	68.05	46.09	73.19	9.312	2.772	12.44	6.546
#2	68.24	46.23	73.16	9.280	2.800	12.57	6.551
#3	67.73	45.88	72.90	9.276	2.761	12.38	6.518

Elem	P
Avge	12.81
SDev	.03
%RSD	.2354
#1	12.83
#2	12.83
#3	12.78

Standardization Rpt. Wed 09-13-95 02:36:15 PM page

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	44.11	10.24	5.660	15.28	10.92
SDev	.57	.12	.059	.17	.10
%RSD	1.281	1.142	1.048	1.137	.8978
#1	44.75	10.37	5.727	15.48	11.03
#2	43.69	10.15	5.615	15.15	10.84
#3	43.88	10.20	5.638	15.22	10.88

Standardization Rpt. Wed 09-13-95 02:40:08 PM page 1

Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	25.13	22.77	33.53	11.20	2.875
SDev	.05	.05	.06	.02	.008
%RSD	.1828	.1986	.1676	.2206	.2937
#1	25.08	22.74	33.47	11.17	2.865
#2	25.16	22.82	33.57	11.22	2.880
#3	25.15	22.76	33.56	11.20	2.879

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Method: ICP1 Standard: STD6

Elem	U
Avge	46.64
SDev	.15
%RSD	.3290
#1	46.61
#2	46.50
#3	46.80

Standardization Rpt. Wed 09-13-95 02:47:51 PM page 1

Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.670	71.43	50.29
SDev	.007	.31	.17
%RSD	.4088	.4375	.3313
#1	1.662	71.11	50.10
#2	1.671	71.45	50.36
#3	1.676	71.73	50.41

Standardization Rpt. Wed 09-13-95 02:52:10 PM page 1

Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	27.30	24.30	3.530	1.100
SDev	.09	.07	.011	.003
%RSD	.3348	.3039	.2991	.2535
#1	27.39	24.37	3.541	1.103
#2	27.30	24.31	3.530	1.099
#3	27.21	24.22	3.520	1.097

Standardization Rpt. Wed 09-13-95 02:56:03 PM page 1

Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	19.12	45.08	7.834	2.933
SDev	.07	.19	.031	.015
%RSD	.3464	.4277	.3919	.5063
#1	19.12	45.08	7.835	2.931
#2	19.06	44.88	7.803	2.919
#3	19.19	45.27	7.865	2.948

Standardization Report Wed 09-13-95 02:58:28 PM page 1

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.375371	-.247882	09/13/95 02:54:46
Al	308.215	STD3	STD1-Blank	7.37476	-1.54550	09/13/95 02:54:46
As	193.600	STD5	STD1-Blank	4.00604	-.667540	09/13/95 02:54:46
B	249.600	STD3	STD1-Blank	1.08782	-.111683	09/13/95 02:54:46
Ba	493.400	STD2	STD1-Blank	1.34397	-.041394	09/13/95 02:54:46
Be	313.042	STD7	STD1-Blank	.605144	-.010368	09/13/95 02:54:46
Bi	223.061	STD8	STD1-Blank	4.13936	-.587238	09/13/95 02:54:46
Ca	317.900	STD3	STD1-Blank	3.42683	-.431781	09/13/95 02:54:46
Cd	228.800	STD3	STD1-Blank	1.08165	-.047412	09/13/95 02:54:46
Ce	418.659	STD5	STD1-Blank	2.25827	-1.42828	09/13/95 02:54:46
Co	228.600	STD2	STD1-Blank	1.22879	-.174037	09/13/95 02:54:46
Cr	205.500	STD2	STD1-Blank	1.71219	-.079731	09/13/95 02:54:46
Cu	324.700	STD2	STD1-Blank	4.85496	-.223975	09/13/95 02:54:46
Dy	353.170	STD4	STD1-Blank	1.13863	-.223057	09/13/95 02:54:46
Eu	381.900	STD4	STD1-Blank	1.95987	-.067028	09/13/95 02:54:46
Fe	259.900	STD2	STD1-Blank	2.88444	-.161913	09/13/95 02:54:46
K	766.500	STD3	STD1-Blank	195.130	-41.9984	09/13/95 02:54:46
La	398.852	STD4	STD1-Blank	3.59704	-.360183	09/13/95 02:54:46
Li	670.700	STD3	STD1-Blank	4.02537	-.170407	09/13/95 02:54:46
Mg	279.078	STD2	STD1-Blank	5.88574	-1.39825	09/13/95 02:54:46
Mn	257.600	STD3	STD1-Blank	1.53407	-.030221	09/13/95 02:54:46
Mo	202.000	STD2	STD1-Blank	1.79000	-.143499	09/13/95 02:54:46
Na	588.900	STD2	STD1-Blank	45.6232	-1.90857	09/13/95 02:54:46
Nd	406.106	STD4	STD1-Blank	3.35387	-1.24485	09/13/95 02:54:46
Ni	231.600	STD2	STD1-Blank	3.55309	-.166640	09/13/95 02:54:46
P	214.900	STD3	STD1-Blank	7.88527	-1.01562	09/13/95 02:54:4'
Pb	220.300	STD2	STD1-Blank	.916080	-1.21533	09/13/95 02:54:·
Pd	360.959	STD9	STD1-Blank	2.84389	-4.38840	09/13/95 02:54:4ᴄ
Rh	343.489	STD9	STD1-Blank	1.14831	-1.76051	09/13/95 02:54:46
Sb	206.838	STD5	STD1-Blank	3.00550	-.782833	09/13/95 02:54:46
Se	196.026	STD8	STD1-Blank	5.92400	-.911900	09/13/95 02:54:46
Si	288.100	STD7	STD1-Blank	2.81462	-1.04844	09/13/95 02:54:46
Sn	242.950	STD9	STD1-Blank	8.03686	-5.48569	09/13/95 02:54:46
Sr	421.500	STD2	STD1-Blank	1.26406	-.018455	09/13/95 02:54:46
Te	214.275	STD7	STD1-Blank	1.01399	-.997872	09/13/95 02:54:46
Th	283.730	STD4	STD1-Blank	4.68112	-1.09663	09/13/95 02:54:46
Ti	334.900	STD2	STD1-Blank	1.43886	-.094005	09/13/95 02:54:46
Tl	190.864	STD8	STD1-Blank	18.7829	-.655522	09/13/95 02:54:46
U	378.280	STD6	STD1-Blank	11.1362	-19.3376	09/13/95 02:54:46
V	292.402	STD5	STD1-Blank	1.80186	-.176402	09/13/95 02:54:46
W	224.875	STD9	STD1-Blank	17.4583	-.536552	09/13/95 02:54:46
Y	371.030	STD5	STD1-Blank	3.50955	-.090078	09/13/95 02:54:46
Zn	213.800	STD2	STD1-Blank	.715566	-.023733	09/13/95 02:54:46
Zr	339.100	STD2	STD1-Blank	2.11153	-.171104	09/13/95 02:54:46

Standardization Report Wed 09-13-95 02:59:14 PM page 1

Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.66403	.247882	09/13/95 02:54:46
Al	308.215	STD3	STD1-Blank	.135598	1.54550	09/13/95 02:54:46
As	193.600	STD5	STD1-Blank	.249623	.667540	09/13/95 02:54:46
B	249.600	STD3	STD1-Blank	.919272	.111683	09/13/95 02:54:46
Ba	493.400	STD2	STD1-Blank	.744063	.041394	09/13/95 02:54:46
Be	313.042	STD7	STD1-Blank	1.65250	.010368	09/13/95 02:54:46
Bi	223.061	STD8	STD1-Blank	.241583	.587238	09/13/95 02:54:46
Ca	317.900	STD3	STD1-Blank	.291815	.431781	09/13/95 02:54:46
Cd	228.800	STD3	STD1-Blank	.924513	.047412	09/13/95 02:54:46
Ce	418.659	STD5	STD1-Blank	.442816	1.42828	09/13/95 02:54:46
Co	228.600	STD2	STD1-Blank	.813810	.174037	09/13/95 02:54:46
Cr	205.500	STD2	STD1-Blank	.584048	.079731	09/13/95 02:54:46
Cu	324.700	STD2	STD1-Blank	.205975	.223975	09/13/95 02:54:46
Dy	353.170	STD4	STD1-Blank	.878249	.223057	09/13/95 02:54:46
Eu	381.900	STD4	STD1-Blank	.510237	.067028	09/13/95 02:54:46
Fe	259.900	STD2	STD1-Blank	.346687	.161913	09/13/95 02:54:46
K	766.500	STD3	STD1-Blank	.005125	41.9984	09/13/95 02:54:46
La	398.852	STD4	STD1-Blank	.278007	.360183	09/13/95 02:54:46
Li	670.700	STD3	STD1-Blank	.248425	.170407	09/13/95 02:54:46
Mg	279.078	STD2	STD1-Blank	.169902	1.39825	09/13/95 02:54:46
Mn	257.600	STD3	STD1-Blank	.651860	.030221	09/13/95 02:54:46
Mo	202.000	STD2	STD1-Blank	.558658	.143499	09/13/95 02:54:46
Na	588.900	STD2	STD1-Blank	.021919	1.90857	09/13/95 02:54:46
Nd	406.106	STD4	STD1-Blank	.298163	1.24485	09/13/95 02:54:46
Ni	231.600	STD2	STD1-Blank	.281445	.166640	09/13/95 02:54:46
P	214.900	STD3	STD1-Blank	.126819	1.01562	09/13/95 02:54:46
Pb	220.300	STD2	STD1-Blank	1.09161	1.21533	09/13/95 02:54:46
Pd	360.959	STD9	STD1-Blank	.351631	4.38840	09/13/95 02:54:46
Rh	343.489	STD9	STD1-Blank	.870847	1.76051	09/13/95 02:54:46
Sb	206.838	STD5	STD1-Blank	.332723	.782833	09/13/95 02:54:46
Se	196.026	STD8	STD1-Blank	.168805	.911900	09/13/95 02:54:46
Si	288.100	STD7	STD1-Blank	.355288	1.04844	09/13/95 02:54:46
Sn	242.950	STD9	STD1-Blank	.124427	5.48569	09/13/95 02:54:46
Sr	421.500	STD2	STD1-Blank	.791103	.018455	09/13/95 02:54:46
Te	214.275	STD7	STD1-Blank	.986199	.997872	09/13/95 02:54:46
Th	283.730	STD4	STD1-Blank	.213624	1.09663	09/13/95 02:54:46
Ti	334.900	STD2	STD1-Blank	.694997	.094005	09/13/95 02:54:46
Tl	190.864	STD8	STD1-Blank	.053240	.655522	09/13/95 02:54:46
U	378.280	STD6	STD1-Blank	.089797	19.3376	09/13/95 02:54:46
V	292.402	STD5	STD1-Blank	.554982	.176402	09/13/95 02:54:46
W	224.875	STD9	STD1-Blank	.057279	.536552	09/13/95 02:54:46
Y	371.030	STD5	STD1-Blank	.284937	.090078	09/13/95 02:54:46
Zn	213.800	STD2	STD1-Blank	1.39749	.023733	09/13/95 02:54:46
Zr	339.100	STD2	STD1-Blank	.473591	.171104	09/13/95 02:54:46

Standardization Readback Report Wed 09-13-95 03:00:20 PM page 1

Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	-.000000	.000000
		STD8	100.000	100.000	-.000008
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	-.000000	.000000
		STD3	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	.000000	-.000000
		STD5	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000002	.000002
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

Standardization Readback Report Wed 09-13-95 03:00:20 PM page

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47695

Standardization Readback Report Wed 09-13-95 03:00:20 PM page 4

Element Sr	Wavelength 421.500	Standard STD1-Blank STD2	Known Concentration .000000 10.0000	Measured Concentration -.000000 10.0000	Residual Concentration .000000 .000000
Element Te	Wavelength 214.275	Standard STD1-Blank STD7	Known Concentration .000000 50.0000	Measured Concentration -.000000 50.0000	Residual Concentration .000000 .000000
Element Th	Wavelength 283.730	Standard STD1-Blank STD4	Known Concentration .000000 50.0000	Measured Concentration -.000000 50.0000	Residual Concentration .000000 .000000
Element Ti	Wavelength 334.900	Standard STD1-Blank STD2	Known Concentration .000000 20.0000	Measured Concentration -.000000 20.0000	Residual Concentration .000000 .000000
Element Tl	Wavelength 190.864	Standard STD1-Blank STD8	Known Concentration .000000 20.0000	Measured Concentration .000000 20.0000	Residual Concentration -.000000 .000000
Element U	Wavelength 378.280	Standard STD1-Blank STD6	Known Concentration .000000 500.000	Measured Concentration .000001 500.000	Residual Concentration -.000001 .000000
Element V	Wavelength 292.402	Standard STD1-Blank STD5	Known Concentration .000000 20.0000	Measured Concentration .000000 20.0000	Residual Concentration -.000000 .000000
Element W	Wavelength 224.875	Standard STD1-Blank STD9	Known Concentration .000000 50.0000	Measured Concentration -.000000 50.6669	Residual Concentration .000000 -.666901
Element Y	Wavelength 371.030	Standard STD1-Blank STD5	Known Concentration .000000 10.0000	Measured Concentration .000000 10.0000	Residual Concentration -.000000 .000000
Element Zn	Wavelength 213.800	Standard STD1-Blank STD2	Known Concentration .000000 20.0000	Measured Concentration -.000000 20.0000	Residual Concentration .000000 .000000
Element Zr	Wavelength 339.100	Standard STD1-Blank STD2	Known Concentration .000000 50.0000	Measured Concentration -.000000 50.0000	Residual Concentration .000000 -.000004

Analysis Report Wed 09-13-95 03:02:37 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 15:01:18
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0144	.0033	.0202	.0007	.0001	.0164
SDev	.0022	.0075	.0045	.0040	.0005	.0000	.0084
%RSD	81.99	52.31	135.1	19.83	69.20	50.84	51.29
#1	.0037	.0187	.0039	.0196	.0009	.0001	.0234
#2	.0040	.0188	.0075	.0245	.0009	.0001	.0187
#3	.0001	.0057	-.0014	.0166	.0001	.0000	.0071

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	.0007	.0215	.0028	.0007	.0130	.0025
SDev	.0040	.0005	.0136	.0011	.0011	.0022	.0022
%RSD	57.14	71.90	63.22	37.71	167.4	16.99	88.52
#1	.0098	.0004	.0315	.0030	.0015	.0146	.0044
#2	.0085	.0004	.0271	.0038	.0012	.0139	.0032
#3	.0024	.0013	.0060	.0017	-.0006	.0105	.0000

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0016	.6114	.0060	.0015	.0206	.0003
SDev	.0005	.0018	.4347	.0029	.0024	.0100	.0001
%RSD	67.79	108.6	71.10	48.35	166.4	48.30	46.57
#1	.0011	.0030	.8911	.0082	.0027	.0193	.0004
#2	.0010	.0023	.8326	.0070	.0031	.0312	.0003
#3	.0002	-.0004	.1106	.0027	-.0013	.0114	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0421	.0215	.0035	.0182	.0284	.0653
SDev	.0015	.0301	.0111	.0041	.0007	.0137	.0367
%RSD	213.6	71.60	51.27	114.5	3.972	48.26	56.26
#1	.0013	.0342	.0269	.0051	.0177	.0394	.0942
#2	.0019	.0754	.0289	.0066	.0180	.0327	.0777
#3	-.0010	.0167	.0088	-.0011	.0190	.0130	.0239

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0258	.0099	-.0032	.4247	.0778	.0004	.0142
SDev	.0161	.0099	.0038	.0451	.0478	.0002	.0120
%RSD	62.28	100.00	119.8	10.62	61.48	60.91	84.55
#1	.0388	.0140	.0011	.4666	.0838	.0006	.0157
#2	.0308	.0172	-.0063	.4304	.1223	.0005	.0253
#3	.0078	-.0014	-.0044	.3769	.0272	.0001	.0015

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.0013	-.0092	.2516	.0022	.0096	.0010
SDev	.0047	.0010	.0015	.2329	.0016	.0196	.0008

%RSD	71.52	72.30	16.09	92.58	73.90	203.5	78.51
#1	.0012	.0020	-.0077	.4458	.0032	.0225	.0016
#2	.0093	.0017	-.0092	.3156	.0031	.0193	.0013
#3	.0094	.0002	-.0107	-.0067	.0003	-.0129	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0005	.0008
SDev	.0009	.0021
%RSD	176.3	283.7
#1	.0001	.0026
#2	.0015	.0013
#3	-.0001	-.0016

Analysis Report QC Standard Wed 09-13-95 03:05:21 PM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 15:04:02
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DMG 9/13

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4839	24.46	2.486	1.961	.4935	.0931	24.50
SDev	.0022	.08	.015	.008	.0013	.0003	.06
%RSD	.4524	.3333	.5953	.4179	.2689	.2965	.2529
#1	.4814	24.36	2.487	1.952	.4920	.0928	24.43
#2	.4847	24.51	2.471	1.968	.4944	.0931	24.52
#3	.4855	24.50	2.500	1.962	.4941	.0933	24.55
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.12	.4806	-.0443	.9811	.9830	.9889	-.0016
SDev	.04	.0009	.0012	.0037	.0027	.0044	.0006
%RSD	.1853	.1798	2.709	.3744	.2771	.4473	37.70
#1	24.07	.4799	-.0457	.9778	.9815	.9846	-.0010
#2	24.13	.4802	-.0437	.9804	.9861	.9887	-.0017
#3	24.16	.4816	-.0435	.9850	.9813	.9934	-.0022
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	19.56	26.52	.0032	1.974	25.40	.4965
SDev	.0001	.05	.20	.0012	.012	.07	.0008
%RSD	6.401	.2310	.7444	37.86	.5938	.2833	.1692
#1	.0016	19.51	26.41	.0045	1.963	25.31	.4960
#2	.0014	19.58	26.75	.0021	1.986	25.44	.4961
#3	.0014	19.60	26.39	.0030	1.971	25.43	.4975
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9840	24.71	.0049	1.014	.0539	2.489	-.0307
SDev	.0030	.17	.0022	.006	.0074	.006	.0078
%RSD	.3069	.7029	45.16	.5531	13.79	.2436	25.27
#1	.9815	24.56	.0066	1.016	.0625	2.483	-.0249
#2	.9831	24.90	.0024	1.008	.0498	2.492	-.0278
#3	.9873	24.68	.0056	1.019	.0495	2.494	-.0395
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0145	2.444	2.467	18.52	-.1198	.4959	-.0096
SDev	.0040	.009	.021	.05	.0173	.0012	.0004
%RSD	27.79	.3778	.8661	.2596	14.41	.2465	3.877
#1	-.0098	2.439	2.483	18.46	-.1163	.4945	-.0099
#2	-.0164	2.437	2.443	18.54	-.1386	.4964	-.0097
#3	-.0171	2.454	2.475	18.55	-.1046	.4968	-.0092
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0457	.9624	2.483	-.0878	.9708	.0236	-.0007
SDev	.0020	.0029	.017	.0474	.0013	.0034	.0000
%RSD	4.311	.3024	.6823	53.99	.1283	14.59	3.326
#1	.0440	.9591	2.464	-.0377	.9694	.0201	-.0007
#2	.0453	.9635	2.496	-.1320	.9719	.0236	-.0007
#3	.0479	.9646	2.490	-.0936	.9711	.0270	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9687	1.970
SDev	.0041	.006
%RSD	.4215	.3100
#1	.9644	1.963
#2	.9691	1.972
#3	.9726	1.975
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report

Wed 09-13-95 03:09:03 PM page

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 15:07:43
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	91.44	.1627	.0173	.0025	.0011	.0848
SDev	.0010	.38	.0040	.0030	.0001	.0000	.0092
%RSD	21.30	.4157	2.454	17.52	3.233	2.401	10.91
#1	.0057	91.22	.1643	.0195	.0025	.0011	.0793
#2	.0038	91.88	.1582	.0185	.0024	.0011	.0796
#3	.0042	91.23	.1656	.0138	.0025	.0010	.0955

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0571	.0087	-.0713	.0141	.0399	-.0368	.0053
SDev	.0004	.0016	.0052	.0005	.0028	.0010	.0006
%RSD	.6730	17.95	7.355	3.780	7.115	2.746	11.83
#1	.0571	.0080	-.0671	.0142	.0367	-.0367	.0060
#2	.0575	.0105	-.0772	.0135	.0422	-.0379	.0048
#3	.0568	.0076	-.0696	.0145	.0407	-.0358	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	18.13	4159.	.0165	.0071	.2858	.0029
SDev	.0002	.06	19.	.0003	.0008	.0072	.0002
%RSD	6.702	.3308	.4455	2.098	11.38	2.508	7.358
#1	.0031	18.07	4147.	.0167	.0063	.2932	.0026
#2	.0030	18.19	4180.	.0161	.0071	.2789	.0030
#3	.0034	18.12	4150.	.0166	.0079	.2854	.0030

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0154	.3341	.0364	47.28	.1318	.2680	-.1697
SDev	.0010	.0226	.0039	.13	.0120	.0123	.0093
%RSD	6.527	6.751	10.65	.2723	9.114	4.582	5.486
#1	.0142	.3237	.0385	47.14	.1243	.2767	-.1632
#2	.0160	.3186	.0319	47.35	.1255	.2539	-.1804
#3	.0160	.3600	.0387	47.37	.1457	.2732	-.1656

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0509	.0454	.0641	.1895	.3463	.0006	.0530
SDev	.0070	.0105	.0086	.0041	.0359	.0001	.0011
%RSD	13.68	23.16	13.38	2.185	10.37	13.89	2.152
#1	.0560	.0550	.0680	.1941	.3189	.0007	.0543
#2	.0429	.0341	.0543	.1860	.3330	.0005	.0521
#3	.0537	.0469	.0701	.1885	.3869	.0006	.0527

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6691	.0046	.2323	45.57	.0106	.0847	.0068
SDev	.0037	.0002	.0050	.16	.0001	.0107	.0001

%RSD	.5577	3.869	2.139	.3524	1.115	12.65	1.862
#1	.6690	.0046	.2338	45.39	.0105	.0970	.0066
#2	.6729	.0048	.2267	45.70	.0106	.0794	.0068
#3	.6654	.0044	.2363	45.61	.0108	.0776	.0069

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0279	9.312
SDev	.0011	.034
%RSD	3.972	.3624
#1	-.0290	9.289
#2	-.0268	9.350
#3	-.0280	9.295

Analysis Report QC Standard Wed 09-13-95 03:12:43 PM page 1.1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 15:11:23
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Fail-1d RS 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	-.1749	-.0101	.0096	.0002	.0003	.0026
SDev	.0017	.0143	.0088	.0024	.0005	.0000	.0076
%RSD	161.0	8.156	87.09	24.58	217.1	12.97	292.8
#1	.0029	-.1587	.0001	.0122	.0008	.0003	.0113
#2	.0006	-.1802	-.0154	.0090	-.0001	.0003	-.0015
#3	-.0004	-.1857	-.0149	.0076	-.0001	.0003	-.0021
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	.0020	1.991	.0017	.0016	.0184	1.999
SDev	.0022	.0007	.024	.0009	.0013	.0043	.035
%RSD	26.09	35.84	1.187	53.18	82.88	23.41	1.765
#1	.0110	.0018	1.965	.0028	.0030	.0232	1.961
#2	.0079	.0014	2.011	.0011	.0014	.0148	2.031
#3	.0067	.0028	1.999	.0014	.0004	.0172	2.006
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.986	.0042	.1561	1.979	-.0007	.0819	.0005
SDev	.035	.0006	.4001	.030	.0017	.0099	.0004
%RSD	1.760	13.57	256.3	1.521	224.4	12.08	83.95
#1	1.949	.0048	.6179	1.947	.0011	.0933	.0009
#2	2.018	.0042	-.0846	2.007	-.0013	.0764	.0001
#3	1.991	.0037	-.0650	1.983	-.0021	.0759	.0005
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0015	1.980	.0088	-.0081	.0393	Q2.212
SDev	.0011	.0097	.033	.0015	.0059	.0034	.020
%RSD	140.6	631.6	1.670	16.53	72.20	8.655	.8856
#1	.0003	.0125	1.949	.0105	-.0015	.0432	Q2.211
#2	-.0019	-.0018	2.015	.0077	-.0125	.0371	Q2.232
#3	-.0007	-.0061	1.976	.0084	-.0103	.0376	2.192
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.046	-.0089	-.0026	.1122	2.028	.0003	1.818
SDev	.021	.0067	.0137	.0108	.010	.0001	.030
%RSD	1.017	75.19	520.7	9.595	.5081	53.54	1.626
#1	2.030	-.0020	.0042	.1242	2.039	.0004	Q1.792
#2	2.069	-.0092	-.0183	.1092	2.020	.0002	1.850
#3	2.038	-.0154	.0063	.1033	2.024	.0002	1.812
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.051	.0004	.0024	Q8.369	-.0019	Q.5092	.9770
SDev	.082	.0005	.0076	.030	.0015	.0142	.0150
%RSD	1.622	122.5	317.5	.3602	B1.72	2.781	1.537
#1	4.963	.0010	.0083	Q8.404	-.0001	Q.4930	.9613
#2	5.124	.0002	-.0062	Q8.350	-.0027	Q.5153	.9913
#3	5.067	.0000	.0050	Q8.354	-.0028	Q.5192	.9784
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0019	-.0168
SDev	.0008	.0016
%RSD	45.12	9.436
#1	.0022	-.0150
#2	.0009	-.0174
#3	.0025	-.0180
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 03:15:06 PM Page

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 15:13:46
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	-.1590	.0050	.0112	.0009	.0003	.0096
SDev	.0028	.0130	.0129	.0007	.0004	.0001	.0044
%RSD	88.37	8.181	256.1	6.366	48.58	30.22	45.81
#1	.0062	-.1440	.0101	.0116	.0013	.0004	.0130
#2	.0021	-.1664	.0147	.0115	.0008	.0003	.0046
#3	.0010	-.1666	-.0096	.0103	.0005	.0002	.0112
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0126	.0008	1.934	.0037	.0028	.0137	1.918
SDev	.0025	.0007	.022	.0023	.0006	.0016	.043
%RSD	20.05	87.43	1.154	61.81	19.55	12.07	2.245
#1	.0155	.0015	1.910	.0061	.0032	.0151	1.870
#2	.0112	.0009	1.937	.0033	.0031	.0141	1.928
#3	.0111	.0001	1.954	.0016	.0022	.0119	1.955
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.908	.0056	.7090	1.910	.0027	.0897	.0008
SDev	.042	.0008	.4536	.038	.0014	.0114	.0001
%RSD	2.180	14.35	63.98	2.015	52.88	12.72	8.434
#1	1.862	.0065	1.223	1.868	.0044	.0968	.0008
#2	1.917	.0055	.5399	1.918	.0023	.0957	.0008
#3	1.944	.0049	.3642	1.944	.0015	.0765	.0009
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0448	1.916	.0090	.0220	.0602	2.158
SDev	.0013	.0422	.031	.0036	.0069	.0129	.031
%RSD	133.8	94.12	1.630	39.70	31.24	21.34	1.438
#1	.0023	.0908	1.883	.0130	.0148	.0681	2.123
#2	-.0004	.0356	1.921	.0076	.0284	.0671	2.174
#3	.0010	.0080	1.945	.0063	.0226	.0454	2.178
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.998	.0064	.0116	.1066	2.030	.0005	Q1.764
SDev	.027	.0084	.0065	.0137	.009	.0001	.019
%RSD	1.351	131.0	56.09	12.82	.4630	29.00	1.069
#1	1.970	.0155	.0172	.1223	2.040	.0006	Q1.748
#2	2.001	.0048	.0045	.0975	2.021	.0004	Q1.760
#3	2.024	-.0011	.0131	.1001	2.031	.0003	Q1.785
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.885	.0013	-.0013	Q8.347	.0001	Q.5028	.9420
SDev	.070	.0009	.0154	.042	.0014	.0217	.0178
%RSD	1.426	67.78	1215.	.5018	2807.	4.314	1.890
#1	4.811	.0024	.0132	Q8.314	.0015	Q.4799	.9228
#2	4.894	.0009	.0004	Q8.394	.0000	Q.5057	.9453
#3	4.949	.0007	-.0174	Q8.331	-.0014	Q.5230	.9579
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0017	-.0181
SDev	.0002	.0004
%RSD	10.64	2.079
#1	.0017	-.0178
#2	.0018	-.0185
#3	.0015	-.0179
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 03:19:08 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/13/95 15:17:49
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0021	Q.0999	Q.0745	.1202	.0489	.0224	.0168
SDev	.0003	.0011	.0042	.0006	.0004	.0001	.0064
%RSD	12.96	1.135	5.626	.5036	.7296	.3009	38.17
#1	Q-.0019	Q.0989	Q.0783	Q.1207	.0486	.0223	.0190
#2	Q-.0024	Q.0997	Q.0700	.1195	.0488	.0224	.0095
#3	Q-.0019	Q.1012	Q.0752	.1204	.0493	.0225	.0217
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.17	.0129	-.0201	Q.0218	Q.0213	Q.0256	-.0028
SDev	.13	.0012	.0063	.0008	.0026	.0005	.0004
%RSD	.3635	9.278	31.41	3.773	12.05	2.108	14.34
#1	Q35.06	Q.0134	-.0140	Q.0227	Q.0243	Q.0251	-.0024
#2	Q35.15	Q.0137	-.0198	Q.0217	Q.0200	Q.0262	-.0030
#3	Q35.31	.0115	-.0266	Q.0211	Q.0197	Q.0254	-.0031
Errors	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	Q.1166	Q1.977	.0023	Q.0114	Q9.755	.0349
SDev	.0002	.0008	.130	.0009	.0007	.053	.0002
%RSD	66.84	.6522	6.571	40.83	6.139	.5465	.6957
#1	.0004	Q.1158	Q2.062	.0033	Q.0110	9.707	.0347
#2	.0004	Q.1173	Q2.042	.0022	Q.0122	Q9.746	.0351
#3	.0001	Q.1168	Q1.828	.0014	Q.0110	Q9.813	.0350
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1011	12.12	-.0043	.0590	.0084	Q.0260	-.0447
SDev	.0008	.03	.0016	.0017	.0186	.0017	.0083
%RSD	.7839	.2818	37.06	2.818	221.5	6.491	18.64
#1	Q.1011	12.09	-.0026	.0571	.0137	Q.0263	-.0351
#2	Q.1020	12.16	-.0044	.0599	-.0123	Q.0241	-.0498
#3	Q.1004	12.12	-.0058	.0600	.0237	Q.0274	-.0492
Errors	QC Fail	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0206	-.0161	Q-.0003	.0577	-.0994	Q.2597	-.0146
SDev	.0027	.0046	.0054	.0043	.0078	.0016	.0121
%RSD	12.98	28.77	1567.	7.474	7.857	.6351	82.58
#1	-.0176	-.0182	Q.0048	.0626	-.0905	Q.2581	-.0016
#2	-.0214	-.0108	Q.0002	.0544	-.1054	Q.2596	-.0169
#3	-.0228	-.0193	Q-.0060	.0563	-.1022	.2614	-.0254
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	.0073	Q-.0025	-.0841	Q.0259	.0055	-.0028
SDev	.0030	.0005	.0039	.0508	.0003	.0111	.0004
%RSD	39.70	7.461	154.7	60.33	1.201	202.0	13.49
#1	-.0111	.0077	Q.0020	-.0409	Q.0262	.0136	-.0026
#2	-.0054	.0073	Q-.0053	-.0715	Q.0260	.0102	-.0026
#3	-.0065	.0067	Q-.0043	-.1400	Q.0256	-.0072	-.0033
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0851	-.0024
SDev	.0005	.0007
%RSD	.5545	27.59
#1	Q.0856	-.0017
#2	Q.0847	-.0029
#3	Q.0851	-.0027
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Wed 09-13-95 03:22:47 PM page 1

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/13/95 15:21:28
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	1.916	1.980	1.956	.9895	.9775	1.965
SDev	.0006	.012	.008	.016	.0063	.0059	.018
%RSD	71.99	.6207	.4138	.8409	.6392	.6011	.9077
#1	-.0002	1.902	1.970	1.937	.9823	.9708	1.954
#2	-.0013	1.923	1.982	1.967	.9918	.9798	1.955
#3	-.0011	1.923	1.986	1.963	.9943	.9819	1.986

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.916	.9788	-.0024	1.012	.5073	2.012	-.0010
SDev	.007	.0086	.0009	.006	.0011	.014	.0005
%RSD	.3638	.8790	37.37	.5785	.2261	.6833	52.11
#1	1.907	.9691	-.0020	1.006	.5070	1.996	-.0004
#2	1.919	.9818	-.0017	1.016	.5063	2.016	-.0012
#3	1.920	.9855	-.0033	1.016	.5085	2.023	-.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	1.970	5.360	-.0006	2.049	2.054	1.008
SDev	.0003	.010	.052	.0015	.029	.005	.005
%RSD	106.4	.4868	.9633	254.9	1.399	.2658	.5315
#1	.0005	1.959	5.321	.0011	2.016	2.051	1.002
#2	-.0000	1.971	5.418	-.0015	2.062	2.050	1.011
#3	.0002	1.978	5.340	-.0014	2.069	2.060	1.012

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.955	8.307	.0041	2.043	4.707	2.017	.0023
SDev	.009	.107	.0045	.024	.040	.019	.0089
%RSD	.4403	1.289	109.8	1.174	.8511	.9624	389.0
#1	1.945	8.187	.0077	2.017	4.674	2.003	.0125
#2	1.960	8.342	.0056	2.064	4.696	2.039	-.0038
#3	1.961	8.392	-.0010	2.049	4.752	2.009	-.0018

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	-.0119	1.971	4.994	-.0245	1.994	-.0202
SDev	.0088	.0038	.016	.033	.0085	.014	.0029
%RSD	769.1	32.06	.8304	.6555	34.74	.7188	14.38
#1	.0086	-.0078	1.954	4.957	-.0155	1.978	-.0187
#2	-.0034	-.0127	1.975	5.005	-.0256	1.998	-.0235
#3	-.0086	-.0153	1.986	5.020	-.0325	2.005	-.0183

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0003	1.975	-.0113	.9616	.0098	-.0003
SDev	.0049	.0001	.015	.0842	.0055	.0081	.0003

%RSD	336.5	24.38	.7491	743.9	.5712	82.88	94.29
#1	-.0034	.0004	1.962	.0834	.9553	.0049	-.0000
#2	.0063	.0004	1.991	-.0397	.9638	.0192	-.0007
#3	.0015	.0003	1.973	-.0777	.9656	.0053	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.002	-.0013
SDev	.003	.0009
%RSD	.3123	65.47
#1	1.000	-.0005
#2	1.006	-.0013
#3	1.001	-.0022

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 15:25:22
Comment: SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0047	-.0076	.0065	.0004	.0001	.0012
SDev	.0006	.0044	.0085	.0007	.0001	.0000	.0046
%RSD	2954.	94.93	111.7	10.81	21.27	32.68	378.8
#1	-.0008	-.0003	-.0008	.0074	.0003	.0000	.0059
#2	.0003	.0061	-.0048	.0063	.0004	.0001	-.0034
#3	.0004	.0082	-.0171	.0060	.0004	.0001	.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	-.0012	.0019	.0010	.0003	.0067	.0000
SDev	.0007	.0002	.0018	.0004	.0013	.0004	.0008
%RSD	38.84	15.27	93.94	42.69	382.8	5.956	8555.
#1	.0011	-.0013	.0010	.0007	-.0011	.0062	-.0008
#2	.0015	-.0010	.0007	.0008	.0011	.0070	.0000
#3	.0024	-.0012	.0040	.0015	.0011	.0069	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0002	.1496	.0012	-.0007	.0057	.0001
SDev	.0002	.0007	.0894	.0002	.0014	.0014	.0002
%RSD	99.62	424.0	59.77	18.96	210.3	24.42	198.0
#1	.0000	-.0006	.0715	.0010	-.0021	.0073	.0000
#2	.0002	-.0005	.1301	.0012	-.0005	.0046	.0003
#3	.0003	.0006	.2472	.0015	.0007	.0053	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0090	.0059	.0008	.0092	.0082	.0259
SDev	.0004	.0160	.0033	.0002	.0223	.0060	.0136
%RSD	84.76	176.5	56.43	29.67	241.2	72.91	52.66
#1	.0008	.0076	.0026	.0011	.0332	.0040	.0102
#2	.0007	-.0062	.0058	.0007	.0054	.0151	.0345
#3	.0000	.0257	.0093	.0007	-.0109	.0056	.0330

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	-.0076	-.0036	.0266	.0109	.0004	.0008
SDev	.0070	.0090	.0180	.0034	.0269	.0001	.0014
%RSD	172.7	117.2	498.9	12.93	247.6	17.19	177.7
#1	-.0023	-.0175	-.0061	.0234	-.0131	.0004	.0018
#2	.0029	-.0000	.0155	.0262	.0058	.0005	-.0008
#3	.0115	-.0054	-.0203	.0303	.0400	.0004	.0014

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0067	.0002	-.0002	.0428	-.0002	.0022	.0002
SDev	.0066	.0003	.0059	.0701	.0009	.0095	.0002

%RSD	99.35	174.4	2830.	163.5	395.7	428.6	84.96
#1	.0001	.0001	-.0036	-.0359	-.0012	-.0022	.0001
#2	-.0069	-.0001	-.0037	.0663	-.0001	-.0042	.0001
#3	-.0132	.0005	.0066	.0982	.0006	.0131	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0006	.0000
SDev	.0008	.0013
%RSD	142.8	6331.
#1	-.0001	-.0013
#2	.0004	.0002
#3	.0014	.0012

Analysis Report Wed 09-13-95 03:31:29 PM page 1

Method: ICP1 Sample Name: 95-007945-H3 @2 Operator: DRS
Run Time: 09/13/95 15:30:09
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0131	.2114	.0314	.6234	.0035	.0003	.0454
SDev	.0009	.0053	.0032	.0023	.0003	.0000	.0040
%RSD	6.894	2.522	10.12	.3673	7.944	8.663	8.740
#1	.0140	.2175	.0349	.6208	.0037	.0004	.0432
#2	.0122	.2079	.0286	.6246	.0032	.0003	.0430
#3	.0131	.2088	.0308	.6249	.0036	.0003	.0500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0890	.0057	.0691	.0329	.0167	.0899	.0106
SDev	.0007	.0014	.0021	.0011	.0032	.0022	.0009
%RSD	.7768	24.68	3.095	3.483	19.40	2.456	8.464
#1	.0892	.0063	.0711	.0334	.0166	.0913	.0116
#2	.0882	.0067	.0694	.0337	.0135	.0874	.0098
#3	.0895	.0041	.0668	.0316	.0200	.0910	.0105

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.4411	5075.	.0182	.0094	.0796	.2293
SDev	.0002	.0012	26.	.0009	.0010	.0045	.0014
%RSD	5.088	.2708	.5109	4.741	10.83	5.606	.5905
#1	.0033	.4403	5047.	.0188	.0083	.0831	.2278
#2	.0030	.4405	5080.	.0172	.0095	.0746	.2297
#3	.0031	.4425	5098.	.0186	.0103	.0811	.2305

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0114	2.687	.0667	4.667	.0868	.0912	.2002
SDev	.0018	.014	.0063	.015	.0070	.0093	.0176
%RSD	15.96	.5180	9.400	.3164	8.114	10.18	8.814
#1	.0134	2.683	.0710	4.652	.0809	.0997	.2185
#2	.0110	2.675	.0595	4.667	.0946	.0813	.1833
#3	.0099	2.702	.0695	4.682	.0849	.0925	.1988

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0903	.0444	.0535	.2858	.3227	.0032	.0639
SDev	.0061	.0069	.0066	.0037	.0162	.0001	.0036
%RSD	6.738	15.46	12.35	1.308	5.010	2.297	5.624
#1	.0973	.0513	.0517	.2873	.3344	.0032	.0659
#2	.0864	.0444	.0479	.2815	.3042	.0032	.0598
#3	.0871	.0375	.0608	.2885	.3295	.0033	.0661

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0170	.0134	.0374	1.034	.0096	.0297	.0039
SDev	.0049	.0003	.0076	.053	.0002	.0041	.0004

%RSD	28.69	2.182	20.34	5.142	2.111	13.83	9.586
#1	.0121	.0137	.0449	1.094	.0098	.0271	.0043
#2	.0218	.0132	.0376	.9947	.0094	.0275	.0037
#3	.0169	.0132	.0297	1.013	.0096	.0344	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0771	.0066
SDev	.0010	.0008
%RSD	1.253	11.55
#1	.0771	.0069
#2	.0781	.0057
#3	.0762	.0071

Analysis Report Wed 09-13-95 03:35:08 PM page 1

Method: ICP1 Sample Name: 95-007945-H1 @10 Operator: DRS
Run Time: 09/13/95 15:33:48
Comment: SEGMENT 1 @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	1.704	.0084	.0381	.0313	.0002	.1454
SDev	.0009	.014	.0046	.0013	.0001	.0001	.0063
%RSD	25.93	.8348	54.60	3.428	.2462	30.93	4.355
#1	.0041	1.688	.0106	.0372	.0313	.0002	.1383
#2	.0024	1.714	.0031	.0376	.0313	.0001	.1506
#3	.0034	1.710	.0114	.0396	.0314	.0002	.1472

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.279	.0028	.0193	.0093	.0712	.0170	.0019
SDev	.004	.0014	.0081	.0004	.0016	.0011	.0011
%RSD	.3182	48.98	42.22	3.972	2.266	6.326	59.40
#1	1.274	.0013	.0285	.0098	.0717	.0182	.0032
#2	1.282	.0032	.0131	.0092	.0724	.0164	.0009
#3	1.280	.0040	.0163	.0091	.0693	.0163	.0017

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	2.286	1124.	.0081	.0021	.1590	.1190
SDev	.0003	.014	10.	.0023	.0018	.0102	.0011
%RSD	33.41	.6295	.9177	27.79	82.64	6.409	.9253
#1	.0012	2.270	1112.	.0106	.0041	.1706	.1178
#2	.0007	2.295	1129.	.0062	.0013	.1554	.1193
#3	.0007	2.295	1131.	.0075	.0009	.1512	.1200

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0045	16.60	.0211	1.974	1.622	.1306	.0336
SDev	.0008	.16	.0077	.007	.023	.0066	.0198
%RSD	16.81	.9428	36.75	.3649	1.408	5.036	59.10
#1	.0054	16.42	.0299	1.970	1.602	.1326	.0564
#2	.0040	16.71	.0153	1.982	1.616	.1232	.0215
#3	.0042	16.67	.0180	1.970	1.647	.1359	.0227

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0180	.0050	.0019	.3532	.0666	1.479	.0184
SDev	.0100	.0082	.0097	.0043	.0223	.014	.0066
%RSD	55.37	164.5	496.1	1.210	33.55	.9458	35.88
#1	.0290	.0111	.0041	.3512	.0924	1.463	.0260
#2	.0094	-.0044	-.0086	.3581	.0535	1.488	.0142
#3	.0157	.0083	.0103	.3503	.0539	1.486	.0149

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0442	.0078	.0120	3.753	.0028	.0220	.0018
SDev	.0053	.0005	.0040	.053	.0006	.0046	.0004

%RSD	12.11	6.497	33.47	1.412	22.61	21.12	20.29
#1	.0493	.0084	.0131	3.803	.0034	.0235	.0022
#2	.0447	.0076	.0076	3.697	.0022	.0258	.0016
#3	.0386	.0074	.0154	3.757	.0027	.0168	.0016

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0328	.0008
SDev	.0013	.0004
%RSD	4.062	52.05
#1	.0313	.0012
#2	.0338	.0004
#3	.0333	.0008

Analysis Report Wed 09-13-95 03:38:52 PM page 1

Method: ICP1 Sample Name: 95-007945-H1 @5 Operator: DRS
Run Time: 09/13/95 15:37:32
Comment: SEGMENT 1 @5X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0065	3.381	.0250	.0720	.0609	.0003	.2924
SDev	.0006	.023	.0044	.0010	.0003	.0000	.0121
%RSD	8.672	.6819	17.46	1.367	.4571	9.086	4.132
#1	.0058	3.367	.0211	.0716	.0610	.0003	.2856
#2	.0068	3.408	.0241	.0712	.0611	.0003	.3063
#3	.0068	3.369	.0297	.0731	.0605	.0003	.2852

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.575	.0026	.0428	.0189	.1423	.0322	.0034
SDev	.019	.0008	.0034	.0017	.0008	.0012	.0005
%RSD	.7321	30.62	7.919	8.794	.5509	3.622	14.94
#1	2.561	.0035	.0389	.0172	.1414	.0309	.0031
#2	2.596	.0023	.0452	.0205	.1426	.0328	.0030
#3	2.567	.0020	.0443	.0190	.1429	.0330	.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	4.532	2157.	.0160	.0045	.3161	.2371
SDev	.0002	.032	13.	.0004	.0008	.0073	.0019
%RSD	13.11	.7065	.6085	2.234	18.55	2.303	.8149
#1	.0015	4.519	2156.	.0156	.0036	.3196	.2358
#2	.0014	4.569	2171.	.0163	.0052	.3209	.2393
#3	.0018	4.509	2144.	.0160	.0048	.3077	.2361

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0083	32.30	.0365	3.897	3.244	.2536	.0509
SDev	.0003	.16	.0024	.016	.055	.0052	.0074
%RSD	3.860	.4977	6.464	.4018	1.698	2.055	14.47
#1	.0086	32.38	.0339	3.892	3.182	.2488	.0464
#2	.0085	32.39	.0371	3.914	3.289	.2528	.0468
#3	.0080	32.11	.0386	3.884	3.259	.2591	.0594

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0405	.0215	.0289	.6825	.1463	2.917	.0319
SDev	.0053	.0035	.0179	.0083	.0065	.019	.0053
%RSD	13.10	16.08	62.07	1.217	4.410	.6513	16.68
#1	.0363	.0253	.0210	.6827	.1463	2.912	.0359
#2	.0387	.0185	.0494	.6907	.1399	2.939	.0258
#3	.0464	.0207	.0162	.6741	.1528	2.902	.0339

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1002	.0149	.0252	7.375	.0054	.0384	.0036
SDev	.0024	.0004	.0139	.088	.0003	.0127	.0002

%RSD	2.440	2.525	55.15	1.189	5.563	33.01	5.023
#1	.1004	.0145	.0392	7.274	.0052	.0241	.0035
#2	.0977	.0150	.0249	7.432	.0052	.0430	.0038
#3	.1026	.0153	.0115	7.418	.0057	.0481	.0034

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0754	.0008
SDev	.0014	.0001
%RSD	1.810	7.896
#1	.0755	.0008
#2	.0767	.0008
#3	.0739	.0009

Analysis Report Wed 09-13-95 03:42:20 PM page 1

Method: ICP1 Sample Name: 95-007945-H1-FS @5 Operator: DRS
Run Time: 09/13/95 15:41:00
Comment: POST DIGEST SPIKE @5X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	12.43	.0476	.0695	.0598	.0007	.3066
SDev	.0006	.06	.0057	.0018	.0001	.0000	.0042
%RSD	5.072	.5015	12.07	2.567	.2200	1.295	1.377
#1	.0113	12.43	.0411	.0682	.0599	.0007	.3019
#2	.0109	12.37	.0520	.0689	.0597	.0007	.3080
#3	.0102	12.50	.0498	.0715	.0598	.0007	.3100

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.145	.2462	.0612	.0223	1.556	.0258	.0040
SDev	.023	.0034	.0043	.0004	.011	.0015	.0004
%RSD	.3197	1.395	7.067	1.911	.7202	5.672	9.674
#1	7.137	.2426	.0607	.0218	1.561	.0261	.0038
#2	7.128	.2466	.0658	.0227	1.544	.0271	.0045
#3	7.171	.2494	.0572	.0224	1.564	.0242	.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	4.403	2090.	.0223	.0071	.4039	.3258
SDev	.0002	.020	12.	.0008	.0019	.0022	.0011
%RSD	8.272	.4510	.5781	3.396	26.05	.5451	.3261
#1	.0029	4.402	2089.	.0228	.0067	.4013	.3255
#2	.0025	4.383	2079.	.0227	.0091	.4048	.3250
#3	.0024	4.423	2103.	.0214	.0055	.4054	.3270

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0079	45.54	.0474	8.626	3.173	5.171	-.0282
SDev	.0011	.26	.0049	.028	.005	.000	.0046
%RSD	14.64	.5780	10.24	.3266	.1610	.0048	16.42
#1	.0066	45.51	.0501	8.621	3.177	5.171	-.0293
#2	.0088	45.29	.0503	8.601	3.168	5.171	-.0231
#3	.0082	45.82	.0418	8.657	3.175	5.171	-.0321

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0471	.0265	.0422	10.35	.2508	2.830	.0331
SDev	.0052	.0066	.0118	.04	.0221	.017	.0045
%RSD	10.97	24.84	27.96	.4116	8.807	.5923	13.53
#1	.0447	.0196	.0292	10.35	.2515	2.829	.0340
#2	.0530	.0327	.0523	10.30	.2725	2.813	.0372
#3	.0436	.0271	.0450	10.39	.2283	2.847	.0283

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3385	.0164	.0614	25.74	.0086	.0511	.0055
SDev	.0056	.0004	.0107	.14	.0008	.0079	.0004

%RSD	1.659	2.208	17.46	.5354	8.759	15.47	7.148
#1	.3321	.0160	.0490	25.76	.0089	.0592	.0052
#2	.3423	.0168	.0666	25.60	.0092	.0506	.0059
#3	.3413	.0163	.0685	25.87	.0078	.0434	.0055

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0629	.4595
SDev	.0004	.0019
%RSD	.6521	.4051
#1	.0631	.4591
#2	.0624	.4579
#3	.0631	.4615

Analysis Report Wed 09-13-95 03:46:09 PM page 1

Method: ICP1 Sample Name: 95-007945-H1 @2 Operator: DRS
Run Time: 09/13/95 15:44:50
Comment: SEGMENT 1 @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0171	7.874	.0576	.1579	.1385	.0007	.6889
SDev	.0022	.084	.0040	.0034	.0017	.0000	.0047
%RSD	13.13	1.069	6.880	2.156	1.207	4.322	.6804
#1	.0152	7.943	.0622	.1548	.1401	.0007	.6850
#2	.0166	7.898	.0555	.1615	.1387	.0007	.6941
#3	.0196	7.780	.0552	.1573	.1368	.0007	.6875

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.072	.0085	.0889	.0434	.3303	.0690	.0089
SDev	.048	.0002	.0121	.0005	.0012	.0006	.0009
%RSD	.7854	2.210	13.65	1.106	.3731	.9060	9.656
#1	6.111	.0087	.0763	.0436	.3296	.0683	.0079
#2	6.085	.0085	.0898	.0438	.3296	.0696	.0090
#3	6.019	.0084	.1005	.0429	.3317	.0690	.0096

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	10.50	4799.	.0361	.0098	.6964	.5515
SDev	.0003	.10	56.	.0021	.0006	.0144	.0046
%RSD	8.543	.9869	1.177	5.894	6.239	2.074	.8383
#1	.0036	10.58	4842.	.0337	.0104	.7124	.5555
#2	.0036	10.53	4820.	.0366	.0092	.6926	.5527
#3	.0042	10.38	4735.	.0378	.0100	.6842	.5464

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0187	72.94	.0771	9.047	7.676	.5789	.1003
SDev	.0010	.87	.0075	.091	.070	.0122	.0334
%RSD	5.151	1.199	9.765	1.001	.9130	2.102	33.27
#1	.0176	73.60	.0728	9.133	7.753	.5674	.0680
#2	.0194	73.28	.0726	9.056	7.661	.5777	.0982
#3	.0191	71.95	.0858	8.952	7.616	.5917	.1346

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0866	.0460	.0732	1.577	.3173	6.725	.0733
SDev	.0129	.0053	.0033	.013	.0272	.084	.0052
%RSD	14.88	11.48	4.565	.8558	8.557	1.255	7.053
#1	.0753	.0433	.0718	1.588	.2875	6.797	.0678
#2	.0840	.0426	.0770	1.582	.3406	6.745	.0781
#3	.1007	.0521	.0707	1.562	.3237	6.632	.0740

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2242	.0345	.0559	16.67	.0126	.0897	.0077
SDev	.0091	.0004	.0030	.02	.0012	.0081	.0005

%RSD	4.075	1.133	5.307	.1185	9.618	9.019	6.860
#1	.2341	.0341	.0545	16.68	.0115	.0806	.0072
#2	.2222	.0347	.0593	16.68	.0126	.0961	.0079
#3	.2162	.0348	.0539	16.65	.0139	.0923	.0082

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1600	.0052
SDev	.0015	.0017
%RSD	.9670	33.36
#1	.1595	.0034
#2	.1618	.0053
#3	.1588	.0068

Analysis Report Wed 09-13-95 03:49:59 PM page

Method: ICP1 Sample Name: 95-007945-H2 @10 Operator: DRS
Run Time: 09/13/95 15:48:40
Comment: SEGMENT 1 DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	1.896	.0122	.0547	.0363	.0002	.1796
SDev	.0007	.015	.0045	.0015	.0002	.0000	.0030
%RSD	16.10	.7997	37.04	2.677	.6368	3.935	1.693
#1	.0054	1.883	.0089	.0533	.0361	.0002	.1761
#2	.0040	1.912	.0173	.0562	.0365	.0002	.1817
#3	.0043	1.892	.0103	.0546	.0365	.0002	.1810

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.459	.0013	.0312	.0103	.0722	.0079	.0034
SDev	.009	.0019	.0044	.0016	.0006	.0003	.0006
%RSD	.6144	144.0	14.20	15.95	.8867	4.356	17.02
#1	1.449	.0035	.0347	.0119	.0725	.0083	.0038
#2	1.466	-.0000	.0262	.0086	.0715	.0079	.0027
#3	1.461	.0005	.0325	.0105	.0727	.0076	.0036

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	2.528	1125.	.0106	.0037	.1521	.0614
SDev	.0002	.016	9.	.0012	.0012	.0021	.0002
%RSD	14.41	.6327	.7847	10.91	32.53	1.398	.3790
#1	.0014	2.512	1116.	.0110	.0037	.1527	.0612
#2	.0011	2.543	1133.	.0094	.0025	.1497	.0615
#3	.0014	2.530	1125.	.0116	.0049	.1538	.0616

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	16.80	.0263	1.316	1.647	.1640	.0564
SDev	.0014	.12	.0054	.007	.023	.0051	.0166
%RSD	41.47	.7115	20.48	.5184	1.377	3.131	29.44
#1	.0035	16.67	.0285	1.310	1.622	.1640	.0699
#2	.0018	16.90	.0202	1.324	1.656	.1589	.0379
#3	.0044	16.83	.0303	1.315	1.664	.1692	.0615

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0293	.0170	.0154	.6262	.1171	1.730	.0210
SDev	.0066	.0073	.0145	.0028	.0197	.014	.0035
%RSD	22.55	42.70	94.07	.4459	16.80	.8208	16.48
#1	.0347	.0254	.0242	.6278	.1363	1.715	.0218
#2	.0219	.0123	.0232	.6277	.0970	1.743	.0172
#3	.0313	.0133	-.0013	.6229	.1181	1.732	.0240

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0534	.0075	.0154	4.391	.0040	.0210	.0020
SDev	.0036	.0003	.0170	.065	.0006	.0031	.0005

%RSD	6.720	4.353	110.7	1.476	14.32	14.79	25.15
#1	.0514	.0078	-.0010	4.406	.0045	.0226	.0026
#2	.0576	.0072	.0142	4.320	.0034	.0230	.0016
#3	.0513	.0075	.0330	4.447	.0041	.0174	.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0290	.0014
SDev	.0011	.0008
%RSD	3.831	58.85
#1	.0299	.0022
#2	.0295	.0005
#3	.0278	.0015

Analysis Report Wed 09-13-95 03:53:54 PM page

Method: ICP1 Sample Name: 95-007945-H2 @2 Operator: DRS
Run Time: 09/13/95 15:52:35
Comment: SEGMENT 1 DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0191	8.402	.0627	.2284	.1536	.0009	.8025
SDev	.0021	.131	.0124	.0022	.0025	.0001	.0067
%RSD	10.78	1.555	19.75	.9544	1.612	7.631	.8372
#1	.0176	8.508	.0621	.2273	.1557	.0008	.8026
#2	.0182	8.442	.0506	.2309	.1544	.0009	.8091
#3	.0214	8.256	.0754	.2270	.1509	.0009	.7957

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.684	.0069	.1255	.0417	.3194	-.0089	.0133
SDev	.064	.0009	.0114	.0013	.0031	.0012	.0020
%RSD	.9524	12.68	9.058	3.214	.9644	13.91	14.77
#1	6.748	.0073	.1150	.0417	.3174	-.0100	.0122
#2	6.684	.0058	.1240	.0403	.3230	-.0092	.0120
#3	6.621	.0074	.1375	.0430	.3179	-.0076	.0155

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0053	11.16	4642.	.0471	.0146	.6701	.2734
SDev	.0005	.14	87.	.0022	.0017	.0014	.0030
%RSD	9.926	1.248	1.869	4.570	11.51	.2015	1.106
#1	.0051	11.29	4710.	.0449	.0127	.6710	.2766
#2	.0050	11.18	4671.	.0471	.0151	.6707	.2730
#3	.0060	11.01	4544.	.0492	.0160	.6685	.2706

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0151	70.93	.1088	5.842	7.575	.6771	.1746
SDev	.0008	1.66	.0120	.056	.102	.0039	.0323
%RSD	5.389	2.335	11.05	.9582	1.344	.5790	18.48
#1	.0148	72.12	.0987	5.894	7.664	.6753	.1493
#2	.0145	71.64	.1055	5.850	7.596	.6744	.1636
#3	.0161	69.04	.1221	5.783	7.464	.6816	.2109

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1259	.0623	.0848	2.752	.4473	7.472	.0955
SDev	.0164	.0185	.0117	.031	.0399	.126	.0061
%RSD	13.02	29.77	13.76	1.114	8.926	1.682	6.407
#1	.1126	.0531	.0743	2.778	.4232	7.580	.0894
#2	.1208	.0502	.0827	2.759	.4252	7.502	.1016
#3	.1442	.0836	.0973	2.718	.4933	7.334	.0955

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2535	.0328	.0684	18.52	.0158	.0914	.0098
SDev	.0056	.0006	.0093	.17	.0019	.0105	.0008

%RSD	2.190	1.918	13.57	.8948	11.88	11.51	8.056
#1	.2534	.0323	.0578	18.69	.0142	.0984	.0092
#2	.2480	.0327	.0721	18.52	.0153	.0793	.0096
#3	.2591	.0335	.0751	18.36	.0179	.0965	.0107

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1334	.0063
SDev	.0031	.0010
%RSD	2.316	15.16
#1	.1346	.0057
#2	.1358	.0058
#3	.1299	.0074

Analysis Report Wed 09-13-95 03:58:09 PM page 1

Method: ICP1 Sample Name: 95-007946-HCB @2 Operator: DRS
Run Time: 09/13/95 15:56:49
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0204	.5384	.1070	.1858	.0084	.0006	.1228
SDev	.0021	.0008	.0054	.0019	.0004	.0000	.0051
%RSD	10.32	.1575	5.061	1.003	4.774	6.441	4.134
#1	.0203	.5387	.1050	.1844	.0085	.0007	.1225
#2	.0225	.5390	.1131	.1852	.0088	.0006	.1280
#3	.0183	.5374	.1029	.1879	.0080	.0006	.1178

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1253	.0146	.1232	.0440	.0370	.0316	.0217
SDev	.0018	.0032	.0205	.0022	.0024	.0034	.0025
%RSD	1.439	21.89	16.65	5.085	6.380	10.84	11.60
#1	.1245	.0134	.1288	.0451	.0344	.0319	.0223
#2	.1274	.0182	.1403	.0455	.0391	.0349	.0239
#3	.1241	.0122	.1005	.0414	.0374	.0281	.0190

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0053	.1915	4506.	.0298	.0194	.1080	.1880
SDev	.0008	.0031	119.	.0057	.0021	.0007	.0036
%RSD	14.21	1.614	2.637	18.97	10.62	.6345	1.933
#1	.0054	.1900	4467.	.0317	.0199	.1081	.1875
#2	.0061	.1895	4412.	.0342	.0211	.1072	.1846
#3	.0045	.1951	4640.	.0234	.0171	.1086	.1918

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0189	2.172	.1146	62.06	.1754	.1601	.4464
SDev	.0009	.031	.0138	1.23	.0150	.0220	.0382
%RSD	4.932	1.415	12.01	1.984	8.535	13.77	8.555
#1	.0192	2.152	.1185	61.73	.1735	.1632	.4566
#2	.0197	2.157	.1260	61.04	.1912	.1804	.4785
#3	.0179	2.208	.0993	63.43	.1615	.1367	.4042

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1997	.0899	.0982	.4663	.5822	.0088	.1184
SDev	.0203	.0111	.0031	.0046	.0574	.0002	.0076
%RSD	10.18	12.34	3.148	.9831	9.854	2.069	6.376
#1	.2065	.1027	.0949	.4631	.6008	.0087	.1137
#2	.2158	.0842	.0986	.4715	.6281	.0090	.1271
#3	.1769	.0828	.1010	.4642	.5179	.0088	.1145

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0481	.1551	.0560	1.957	.0168	.1000	.0070
SDev	.0035	.0030	.0008	.233	.0019	.0047	.0009

%RSD	7.331	1.914	1.519	11.92	11.29	4.696	13.03
#1	.0518	.1537	.0554	1.997	.0170	.0975	.0073
#2	.0475	.1532	.0569	2.168	.0186	.0970	.0078
#3	.0448	.1586	.0556	1.707	.0148	.1054	.0060

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0287	.0152
SDev	.0022	.0016
%RSD	7.619	10.63
#1	-.0269	.0157
#2	-.0282	.0166
#3	-.0311	.0134

Analysis Report QC Standard Wed 09-13-95 04:03:07 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 16:01:47
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Fail-Lw DL 9113/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4664	22.94	2.426	1.852	.4603	Q.0892	23.44
SDev	.0034	.18	.029	.017	.0040	.0006	.16
%RSD	.7344	.7647	1.215	.8910	.8687	.7255	.6870
#1	.4629	22.77	2.392	1.842	.4566	Q.0885	23.27
#2	.4698	23.12	2.446	1.871	.4645	Q.0898	23.59
#3	.4666	22.92	2.441	1.844	.4597	Q.0891	23.45
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.52	.4696	.0203	.9579	.9603	.9184	.0066
SDev	.15	.0003	.0044	.0049	.0030	.0072	.0005
%RSD	.6508	.0645	21.79	.5136	.3115	.7860	7.140
#1	23.37	.4693	.0219	.9533	.9571	.9112	.0071
#2	23.67	.4699	.0153	.9631	.9631	.9256	.0062
#3	23.50	.4696	.0236	.9571	.9606	.9184	.0065
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	18.81	Q27.71	.0157	Q1.709	24.37	.4802
SDev	.0001	.13	.97	.0005	.011	.16	.0032
%RSD	1.634	.6662	3.485	3.100	.6476	.6734	.6575
#1	.0038	18.70	Q28.68	.0163	Q1.698	24.21	.4770
#2	.0037	18.95	Q27.72	.0155	Q1.720	24.54	.4833
#3	.0038	18.78	26.75	.0153	Q1.708	24.35	.4805
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Fail	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9522	Q21.50	.0557	1.025	.0854	2.492	.1186
SDev	.0070	.11	.0033	.018	.0192	.019	.0112
%RSD	.7371	.5338	5.919	1.761	22.50	.7699	9.435
#1	.9443	Q21.39	.0577	1.031	.1076	2.474	.1208
#2	.9577	Q21.62	.0519	1.039	.0753	2.512	.1065
#3	.9545	Q21.48	.0575	1.005	.0733	2.491	.1286
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0565	2.378	2.400	Q17.62	.1175	.4764	.0269
SDev	.0050	.019	.036	.13	.0176	.0041	.0024
%RSD	8.949	.7941	1.482	.7215	15.03	.8559	9.075
#1	.0622	2.361	2.360	Q17.50	.1049	.4731	.0294
#2	.0528	2.398	2.427	Q17.75	.1098	.4809	.0269
#3	.0544	2.376	2.413	Q17.60	.1376	.4751	.0245
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0485	.9157	2.402	.7736	.9333	.0489	.0027
SDev	.0062	.0069	.032	.1125	.0069	.0018	.0001
%RSD	12.80	.7485	1.331	14.54	.7347	3.743	2.004
#1	.0473	.9097	2.365	.8214	.9269	.0507	.0027
#2	.0552	.9232	2.414	.6451	.9405	.0489	.0027
#3	.0430	.9144	2.425	.8543	.9324	.0471	.0026
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9430	1.871
SDev	.0085	.014
%RSD	.9045	.7512
#1	.9410	1.858
#2	.9523	1.886
#3	.9356	1.869
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Wed 09-13-95 04:06:47 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/13/95 16:05:27
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DRB 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4927	24.51	2.553	1.975	.4950	.0948	24.82
SDev	.0008	.10	.004	.007	.0018	.0004	.13
%RSD	.1528	.4237	.1589	.3699	.3667	.4137	.5070
#1	.4924	24.52	2.549	1.977	.4949	.0947	24.86
#2	.4923	24.40	2.556	1.967	.4932	.0945	24.68
#3	.4936	24.61	2.556	1.981	.4968	.0953	24.92
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.75	.4933	-.0166	1.009	1.009	.9868	.0015
SDev	.10	.0027	.0040	.004	.010	.0055	.0001
%RSD	.4209	.5423	23.92	.3794	.9623	.5584	8.494
#1	24.69	.4925	-.0124	1.007	1.012	.9852	.0014
#2	24.69	.4963	-.0204	1.007	.9982	.9822	.0016
#3	24.87	.4911	-.0170	1.013	1.017	.9929	.0016
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	19.96	24.94	.0076	1.865	25.80	.5080
SDev	.0002	.09	.33	.0003	.016	.11	.0028
%RSD	7.892	.4457	1.331	4.023	.8422	.4352	.5596
#1	.0022	19.93	25.32	.0074	1.880	25.77	.5076
#2	.0026	19.89	24.70	.0074	1.849	25.70	.5053
#3	.0024	20.06	24.81	.0079	1.866	25.92	.5110
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.013	23.36	.0218	1.049	.0805	2.589	.0156
SDev	.004	.19	.0012	.004	.0214	.017	.0033
%RSD	.3526	.8050	5.393	.4088	26.56	.6620	21.10
#1	1.011	23.55	.0216	1.048	.0568	2.570	.0155
#2	1.012	23.18	.0231	1.053	.0863	2.593	.0189
#3	1.017	23.33	.0208	1.045	.0983	2.604	.0123
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0135	2.508	2.545	19.15	-.0023	.5114	.0045
SDev	.0009	.008	.015	.07	.0174	.0024	.0052
%RSD	6.622	.3330	.5880	.3787	767.1	.4588	117.6
#1	.0145	2.503	2.536	19.15	.0061	.5112	-.0014
#2	.0130	2.503	2.536	19.08	-.0223	.5091	.0060
#3	.0130	2.518	2.562	19.23	.0094	.5138	.0088
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0509	.9766	2.550	.2388	.9900	.0385	.0007
SDev	.0027	.0042	.018	.0132	.0050	.0061	.0002
%RSD	5.383	.4287	.7105	5.513	.5022	15.93	27.89
#1	.0537	.9763	2.543	.2254	.9868	.0327	.0005
#2	.0509	.9727	2.536	.2517	.9875	.0449	.0008
#3	.0482	.9810	2.570	.2393	.9958	.0378	.0008
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9924	1.997
SDev	.0043	.009
%RSD	.4312	.4418
#1	.9887	1.993
#2	.9914	1.991
#3	.9971	2.008
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 04:10:42 PM page

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 16:09:22
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	89.69	.1919	.0164	.0038	.0013	.1149
SDev	.0010	.49	.0143	.0013	.0000	.0001	.0036
%RSD	8.504	.5489	7.466	7.785	.1761	4.249	3.122
#1	.0113	89.74	.2050	.0179	.0038	.0013	.1138
#2	.0112	90.16	.1766	.0154	.0038	.0012	.1189
#3	.0130	89.17	.1941	.0161	.0038	.0013	.1120

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0722	.0111	-.0250	.0210	.0428	-.0344	.0122
SDev	.0006	.0002	.0037	.0008	.0035	.0017	.0011
%RSD	.8473	2.090	14.91	3.896	8.098	5.019	9.131
#1	.0729	.0109	-.0220	.0202	.0389	-.0351	.0119
#2	.0718	.0112	-.0291	.0218	.0439	-.0356	.0113
#3	.0719	.0114	-.0237	.0210	.0456	-.0324	.0134

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	18.14	3999.	.0254	.0136	.3455	.0043
SDev	.0003	.09	23.	.0012	.0012	.0049	.0003
%RSD	5.272	.4727	.5798	4.636	9.020	1.406	6.778
#1	.0049	18.16	4002.	.0240	.0139	.3499	.0040
#2	.0050	18.22	4021.	.0259	.0147	.3403	.0045
#3	.0054	18.05	3975.	.0262	.0123	.3462	.0044

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	.4003	.0681	47.82	.1484	.3039	-.0863
SDev	.0009	.0052	.0026	.19	.0123	.0163	.0125
%RSD	4.529	1.291	3.865	.4015	8.320	5.346	14.49
#1	.0211	.4062	.0679	47.81	.1359	.3121	-.0788
#2	.0199	.3968	.0656	48.02	.1487	.2852	-.1007
#3	.0193	.3978	.0708	47.63	.1606	.3144	-.0793

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1070	.0663	.1063	.3260	.5174	.0016	.0925
SDev	.0025	.0128	.0120	.0024	.0358	.0001	.0038
%RSD	2.299	19.29	11.28	.7329	6.914	9.388	4.123
#1	.1044	.0653	.1095	.3268	.5034	.0016	.0898
#2	.1073	.0540	.1163	.3234	.4907	.0014	.0908
#3	.1093	.0795	.0930	.3279	.5580	.0017	.0968

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7001	.0073	.2615	44.98	.0170	.0994	.0091
SDev	.0115	.0002	.0031	.26	.0006	.0045	.0005

%RSD	1.636	2.768	1.192	.5818	3.821	4.567	5.972
#1	.6874	.0073	.2641	45.07	.0171	.0947	.0088
#2	.7095	.0072	.2581	45.19	.0163	.0997	.0088
#3	.7035	.0075	.2624	44.69	.0176	.1037	.0098

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0255	9.225
SDev	.0002	.052
%RSD	.7107	.5688
#1	-.0256	9.240
#2	-.0253	9.268
#3	-.0256	9.166

Analysis Report Wed 09-13-95 04:14:48 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 16:13:29
Comment: METHOD BLANK @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0086	-.0130	.0042	.0001	.0000	-.0018
SDev	.0010	.0012	.0059	.0017	.0002	.0000	.0056
%RSD	159.5	14.35	45.22	40.48	224.2	109.9	315.9
#1	.0004	.0079	-.0196	.0030	.0003	.0000	.0033
#2	-.0007	.0078	-.0106	.0034	-.0001	-.0000	-.0009
#3	-.0016	.0100	-.0086	.0062	.0001	.0000	-.0077

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	-.0000	-.0075	.0005	-.0004	.0041	-.0000
SDev	.0007	.0005	.0014	.0004	.0008	.0012	.0008
%RSD	44.73	2306.	18.32	82.85	195.3	29.16	4613.
#1	.0016	-.0001	-.0059	.0007	.0000	.0036	.0008
#2	.0008	-.0005	-.0083	.0000	-.0013	.0055	-.0008
#3	.0021	.0005	-.0083	.0008	.0001	.0033	-.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0013	.0585	-.0002	.0003	.0024	-.0000
SDev	.0001	.0006	.1176	.0025	.0007	.0016	.0003
%RSD	134.3	44.47	200.9	1509.	259.2	64.23	712.0
#1	-.0000	.0018	.1691	.0026	-.0005	.0038	.0003
#2	-.0001	.0007	-.0650	-.0020	.0007	.0028	-.0003
#3	.0000	.0014	.0715	-.0011	.0007	.0007	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0061	.0009	.0026	.0277	.0027	.0051
SDev	.0009	.0027	.0039	.0013	.0146	.0068	.0099
%RSD	131.7	43.34	433.9	51.19	52.78	254.9	192.7
#1	-.0018	.0075	.0035	.0035	.0430	.0105	.0111
#2	-.0004	.0078	-.0035	.0033	.0263	-.0019	-.0063
#3	.0001	.0031	.0027	.0011	.0139	-.0006	.0105

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	-.0093	-.0138	.0822	-.0167	.0006	-.0051
SDev	.0024	.0101	.0112	.0056	.0249	.0001	.0047
%RSD	63.45	108.9	80.67	6.827	149.7	12.05	91.57
#1	-.0012	-.0008	-.0259	.0885	-.0440	.0006	-.0010
#2	-.0058	-.0204	-.0117	.0804	.0049	.0005	-.0101
#3	-.0041	-.0065	-.0039	.0777	-.0109	.0005	-.0041

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	-.0001	-.0058	-.0382	-.0001	.0042	-.0004
SDev	.0021	.0000	.0018	.0931	.0002	.0061	.0005

%RSD	194.7	39.23	31.95	244.1	259.9	144.4	117.4
#1	-.0006	-.0001	-.0078	.0526	-.0003	.0046	-.0006
#2	.0034	-.0001	-.0053	-.1336	.0000	-.0020	-.0009
#3	.0004	-.0002	-.0042	-.0335	.0001	.0101	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	-.0001
SDev	.0005	.0004
%RSD	119.3	376.9
#1	.0009	.0001
#2	.0004	-.0006
#3	-.0001	.0001

Analysis Report Wed 09-13-95 04:17:07 PM page

Method: ICP1 Sample Name: 95-007946-H1T @10 Operator: DRS
Run Time: 09/13/95 16:15:48
Comment: QTR SEG 4B TOP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0068	1.371	.0318	.0533	.0667	.0003	.3519
SDev	.0012	.015	.0043	.0006	.0007	.0001	.0158
%RSD	17.94	1.117	13.68	1.223	1.103	14.97	4.485
#1	.0060	1.386	.0270	.0532	.0674	.0003	.3699
#2	.0063	1.373	.0330	.0540	.0667	.0003	.3407
#3	.0083	1.355	.0355	.0527	.0659	.0004	.3450

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.212	.0063	.0506	.0141	.0579	.0122	.0065
SDev	.015	.0011	.0110	.0011	.0011	.0016	.0017
%RSD	1.248	17.71	21.77	8.046	1.956	13.48	25.81
#1	1.229	.0051	.0421	.0140	.0583	.0123	.0056
#2	1.210	.0074	.0467	.0130	.0566	.0105	.0054
#3	1.199	.0065	.0631	.0152	.0587	.0138	.0084

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	3.036	1105.	.0137	.0163	.1802	.0838
SDev	.0004	.039	11.	.0025	.0009	.0051	.0011
%RSD	21.17	1.300	.9576	18.29	5.689	2.849	1.377
#1	.0016	3.073	1111.	.0123	.0158	.1774	.0850
#2	.0014	3.041	1112.	.0121	.0174	.1861	.0838
#3	.0022	2.994	1093.	.0166	.0158	.1770	.0827

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	11.38	.0414	16.84	2.029	.1457	.0759
SDev	.0009	.14	.0084	.20	.031	.0074	.0213
%RSD	12.76	1.242	20.32	1.206	1.530	5.107	28.08
#1	.0068	11.45	.0353	17.05	2.065	.1408	.0615
#2	.0063	11.48	.0380	16.84	2.007	.1419	.0658
#3	.0080	11.22	.0510	16.64	2.016	.1542	.1004

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0591	.0319	.0346	.4715	.1862	2.859	.0397
SDev	.0095	.0051	.0122	.0050	.0349	.040	.0114
%RSD	16.04	15.84	35.42	1.053	18.76	1.405	28.61
#1	.0565	.0289	.0330	.4727	.1575	2.894	.0323
#2	.0512	.0291	.0232	.4661	.1761	2.868	.0341
#3	.0696	.0378	.0475	.4758	.2251	2.815	.0528

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1007	.0514	.0144	6.946	.0056	.0364	.0033
SDev	.0031	.0002	.0054	.046	.0010	.0120	.0004

%RSD	3.101	.3233	37.36	.6619	17.61	33.04	11.27
#1	.1030	.0516	.0180	6.957	.0051	.0417	.0030
#2	.0971	.0514	.0171	6.895	.0049	.0226	.0031
#3	.1020	.0513	.0082	6.985	.0067	.0448	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0061	.0051
SDev	.0010	.0010
%RSD	16.16	19.92
#1	.0053	.0043
#2	.0058	.0048
#3	.0072	.0063

Analysis Report Wed 09-13-95 04:20:57 PM

Method: ICP1 Sample Name: 95-007946-H1T @2 Operator: DRS
Run Time: 09/13/95 16:19:37
Comment: QTR SEG 4B TOP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0129	6.547	.1102	.2303	.3100	.0010	1.626
SDev	.0009	.079	.0060	.0022	.0042	.0000	.019
%RSD	7.000	1.201	5.483	.9418	1.358	.5266	1.161
#1	.0123	6.603	.1087	.2320	.3131	.0010	1.645
#2	.0125	6.581	.1168	.2279	.3117	.0010	1.624
#3	.0139	6.457	.1050	.2311	.3052	.0010	1.608

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.945	.0286	.0866	.0465	.2841	.0317	.0093
SDev	.070	.0014	.0072	.0007	.0035	.0016	.0007
%RSD	1.177	4.738	8.266	1.506	1.234	4.945	7.929
#1	5.983	.0273	.0784	.0458	.2804	.0330	.0084
#2	5.989	.0284	.0897	.0466	.2874	.0322	.0095
#3	5.865	.0300	.0917	.0472	.2845	.0300	.0098

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	14.55	4929.	.0276	.0638	.7571	.4024
SDev	.0006	.18	59.	.0004	.0012	.0120	.0050
%RSD	18.95	1.267	1.191	1.579	1.929	1.583	1.236
#1	.0025	14.66	4972.	.0279	.0651	.7532	.4056
#2	.0031	14.65	4954.	.0279	.0627	.7705	.4049
#3	.0037	14.34	4862.	.0271	.0635	.7474	.3967

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0217	51.82	.0774	80.41	10.07	.5714	-.0124
SDev	.0002	.63	.0045	.96	.10	.0066	.0197
%RSD	1.016	1.214	5.847	1.189	.9782	1.145	159.1
#1	.0218	52.28	.0726	80.93	10.10	.5667	-.0275
#2	.0214	52.08	.0779	80.98	10.15	.5789	-.0194
#3	.0218	51.10	.0816	79.30	9.958	.5687	.0099

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1149	.0677	.0875	2.101	.4260	13.72	.0985
SDev	.0070	.0040	.0109	.028	.0402	.17	.0049
%RSD	6.097	5.881	12.47	1.338	9.430	1.257	5.009
#1	.1076	.0633	.0758	2.113	.3799	13.83	.0934
#2	.1156	.0688	.0894	2.121	.4535	13.80	.1033
#3	.1215	.0711	.0974	2.069	.4447	13.52	.0988

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4451	.2396	.0786	30.97	.0140	.1247	.0096
SDev	.0120	.0029	.0027	.36	.0004	.0079	.0004

%RSD	2.701	1.212	3.389	1.147	3.163	6.344	4.098
#1	.4428	.2415	.0806	31.19	.0138	.1175	.0092
#2	.4581	.2410	.0797	31.16	.0137	.1332	.0099
#3	.4344	.2363	.0756	30.56	.0145	.1233	.0098

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0315	.0167
SDev	.0022	.0009
%RSD	6.913	5.510
#1	.0292	.0166
#2	.0335	.0159
#3	.0317	.0177

Analysis Report Wed 09-13-95 04:24:47 PM page 1

Method: ICP1 Sample Name: 95-007946-H2T @10 Operator: DRS
Run Time: 09/13/95 16:23:27
Comment: QTR SEG 4B TOP DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0074	1.102	.0297	.0470	.0485	.0003	.2703
SDev	.0007	.012	.0048	.0011	.0003	.0000	.0067
%RSD	9.831	1.116	16.09	2.291	.6977	3.386	2.497
#1	.0076	1.088	.0293	.0463	.0482	.0003	.2736
#2	.0079	1.105	.0252	.0464	.0485	.0003	.2626
#3	.0065	1.112	.0348	.0482	.0489	.0003	.2748

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8670	.0091	.0540	.0119	.0437	.0097	.0069
SDev	.0029	.0003	.0073	.0016	.0009	.0011	.0003
%RSD	.3401	2.884	13.47	13.27	2.100	11.03	4.950
#1	.8636	.0091	.0552	.0110	.0428	.0109	.0072
#2	.8685	.0094	.0605	.0137	.0436	.0089	.0070
#3	.8688	.0089	.0462	.0109	.0446	.0092	.0065

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	2.248	1090.	.0140	.0209	.1497	.0674
SDev	.0003	.014	11.	.0018	.0005	.0042	.0006
%RSD	15.24	.6032	.9672	12.96	2.226	2.770	.9600
#1	.0021	2.235	1078.	.0148	.0207	.1517	.0668
#2	.0022	2.247	1095.	.0152	.0207	.1525	.0673
#3	.0016	2.262	1097.	.0119	.0215	.1449	.0681

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	12.68	.0451	15.92	2.907	.1253	.1041
SDev	.0006	.16	.0038	.08	.036	.0089	.0125
%RSD	10.89	1.231	8.512	.4856	1.243	7.099	12.02
#1	.0057	12.50	.0490	15.83	2.866	.1320	.1175
#2	.0062	12.75	.0451	15.94	2.936	.1287	.1021
#3	.0050	12.80	.0413	15.98	2.917	.1152	.0927

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0617	.0296	.0211	.4971	.1969	1.985	.0393
SDev	.0064	.0111	.0144	.0031	.0164	.015	.0020
%RSD	10.39	37.58	68.35	.6217	8.323	.7738	5.168
#1	.0654	.0422	.0359	.4953	.2151	1.969	.0399
#2	.0653	.0213	.0071	.5006	.1923	1.987	.0410
#3	.0543	.0253	.0203	.4953	.1833	2.000	.0371

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0703	.0449	.0233	5.378	.0062	.0477	.0032
SDev	.0056	.0003	.0058	.075	.0005	.0061	.0001

%RSD	8.030	.5551	24.97	1.400	8.028	12.81	1.519
#1	.0762	.0449	.0273	5.439	.0067	.0539	.0031
#2	.0696	.0452	.0261	5.401	.0063	.0417	.0031
#3	.0650	.0447	.0166	5.294	.0057	.0473	.0032

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0017	.0035
SDev	.0009	.0006
%RSD	53.76	16.95
#1	.0009	.0030
#2	.0027	.0041
#3	.0015	.0033

Analysis Report Wed 09-13-95 04:28:38 PM page 1

Method: ICP1 Sample Name: 95-007946-H2T @2 Operator: DRS
Run Time: 09/13/95 16:27:19
Comment: QTR SEG 4B TOP DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0160	5.149	.1062	.2007	.2210	.0009	1.241
SDev	.0006	.030	.0056	.0046	.0013	.0000	.008
%RSD	3.541	.5756	5.272	2.316	.5702	.7717	.6290
#1	.0166	5.147	.1000	.2040	.2205	.0009	1.248
#2	.0156	5.120	.1109	.1954	.2200	.0009	1.242
#3	.0158	5.179	.1078	.2026	.2224	.0009	1.233

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.202	.0378	.0961	.0439	.1974	.0222	.0120
SDev	.017	.0001	.0013	.0003	.0047	.0022	.0006
%RSD	.4159	.2727	1.296	.7739	2.371	10.04	5.017
#1	4.207	.0378	.0973	.0441	.2027	.0234	.0122
#2	4.182	.0379	.0963	.0442	.1959	.0236	.0124
#3	4.216	.0377	.0948	.0435	.1937	.0197	.0113

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	10.58	4787.	.0304	.0847	.5949	.3192
SDev	.0002	.05	30.	.0002	.0018	.0005	.0005
%RSD	6.218	.4791	.6177	.6811	2.177	.0805	.1462
#1	.0035	10.58	4774.	.0304	.0867	.5946	.3194
#2	.0037	10.53	4766.	.0305	.0831	.5955	.3187
#3	.0033	10.63	4821.	.0301	.0843	.5946	.3195

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	56.97	.0874	74.89	13.96	.4472	.0739
SDev	.0013	.41	.0041	.32	.10	.0036	.0110
%RSD	6.446	.7276	4.726	.4256	.7046	.8061	14.85
#1	.0211	56.73	.0913	74.88	13.95	.4514	.0815
#2	.0186	56.73	.0878	74.58	13.86	.4449	.0790
#3	.0205	57.45	.0830	75.22	14.06	.4454	.0613

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1335	.0733	.0908	2.248	.4706	9.288	.0994
SDev	.0084	.0009	.0031	.009	.0322	.056	.0061
%RSD	6.332	1.266	3.442	.3792	6.839	.6057	6.109
#1	.1392	.0724	.0930	2.245	.5045	9.267	.0926
#2	.1376	.0734	.0873	2.241	.4669	9.245	.1042
#3	.1238	.0742	.0922	2.257	.4405	9.351	.1014

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3490	.2044	.0739	23.09	.0142	.1123	.0086
SDev	.0092	.0009	.0124	.09	.0009	.0027	.0004

%RSD	2.643	.4472	16.76	.3753	6.717	2.431	5.171
#1	.3428	.2041	.0603	23.07	.0153	.1099	.0089
#2	.3446	.2037	.0770	23.02	.0139	.1153	.0089
#3	.3596	.2054	.0844	23.19	.0134	.1117	.0081

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0112	.0013
SDev	.0003	.0014
%RSD	3.102	115.3
#1	.0114	.0025
#2	.0115	.0016
#3	.0108	-.0003

Analysis Report Wed 09-13-95 04:32:37 PM page

Method: ICP1 Sample Name: 95-007947-H1 @10 Operator: DRS
Run Time: 09/13/95 16:31:18
Comment: QTR SEG 4C @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	.8473	.0144	.1009	.0110	.0002	.1143
SDev	.0008	.0040	.0083	.0019	.0003	.0001	.0114
%RSD	13.02	.4700	57.54	1.919	2.437	33.63	9.934
#1	.0066	.8450	.0239	.0988	.0113	.0003	.1167
#2	.0058	.8450	.0096	.1012	.0110	.0002	.1242
#3	.0051	.8519	.0096	.1026	.0107	.0002	.1019

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.774	.0021	.0359	.0127	.0106	.0529	.0039
SDev	.017	.0005	.0054	.0011	.0041	.0008	.0010
%RSD	.9341	24.34	15.07	8.749	38.55	1.479	27.06
#1	1.757	.0024	.0421	.0138	.0152	.0538	.0050
#2	1.776	.0022	.0327	.0128	.0091	.0526	.0036
#3	1.790	.0015	.0328	.0116	.0075	.0522	.0030

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	3.786	1003.	.0108	.0047	.1427	.1243
SDev	.0004	.038	10.	.0019	.0012	.0044	.0013
%RSD	23.17	.9997	1.028	18.01	25.91	3.061	1.062
#1	.0021	3.745	990.8	.0131	.0061	.1425	.1229
#2	.0015	3.793	1009.	.0099	.0045	.1471	.1245
#3	.0014	3.820	1008.	.0096	.0037	.1384	.1255

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	13.99	.0334	.7258	2.800	.1357	.0584
SDev	.0018	.12	.0069	.0104	.041	.0043	.0089
%RSD	34.85	.8714	20.66	1.428	1.455	3.187	15.24
#1	.0070	13.85	.0408	.7213	2.773	.1382	.0686
#2	.0038	14.07	.0324	.7184	2.847	.1382	.0534
#3	.0042	14.05	.0271	.7376	2.781	.1307	.0530

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0351	.0147	.0194	.2722	.0934	.1314	.0251
SDev	.0105	.0042	.0116	.0044	.0370	.0015	.0033
%RSD	29.82	28.82	60.03	1.606	39.63	1.157	13.01
#1	.0472	.0172	.0060	.2759	.1305	.1299	.0271
#2	.0298	.0098	.0248	.2734	.0932	.1313	.0269
#3	.0283	.0172	.0273	.2674	.0565	.1329	.0213

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0637	.0074	.0197	5.099	.0042	.0240	.0029
SDev	.0078	.0005	.0035	.010	.0008	.0114	.0003

%RSD	12.20	6.596	17.74	.1930	18.52	47.58	11.52
#1	.0725	.0080	.0171	5.097	.0050	.0109	.0033
#2	.0609	.0071	.0237	5.109	.0041	.0322	.0029
#3	.0577	.0072	.0183	5.090	.0034	.0288	.0026

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0402	.0007
SDev	.0003	.0001
%RSD	.6714	15.90
#1	.0405	.0008
#2	.0401	.0006
#3	.0400	.0006

Analysis Report Wed 09-13-95 04:36:59 PM page 1

Method: ICP1 Sample Name: 95-007947-H1 @2 Operator: DRS
Run Time: 09/13/95 16:35:39
Comment: QTR SEG 4C @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0213	3.896	.0632	.4507	.0476	.0007	.4780
SDev	.0024	.054	.0066	.0059	.0005	.0001	.0221
%RSD	11.33	1.381	10.46	1.315	.9769	9.765	4.619
#1	.0220	3.877	.0625	.4464	.0476	.0007	.4558
#2	.0186	3.957	.0570	.4574	.0481	.0006	.4783
#3	.0232	3.855	.0702	.4483	.0472	.0008	.4999

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.504	.0110	.1100	.0523	.0489	.2366	.0100
SDev	.074	.0004	.0153	.0020	.0015	.0035	.0021
%RSD	.8735	4.051	13.90	3.869	3.010	1.470	20.68
#1	8.482	.0105	.1131	.0524	.0474	.2349	.0108
#2	8.587	.0114	.0933	.0502	.0492	.2406	.0077
#3	8.443	.0109	.1234	.0543	.0503	.2343	.0116

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	17.57	4295.	.0329	.0112	.6211	.5820
SDev	.0006	.22	90.	.0030	.0021	.0089	.0061
%RSD	12.86	1.266	2.107	9.017	18.48	1.429	1.052
#1	.0050	17.51	4270.	.0339	.0117	.6230	.5809
#2	.0043	17.81	4396.	.0296	.0089	.6114	.5886
#3	.0056	17.38	4220.	.0353	.0129	.6289	.5765

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0205	60.86	.1040	3.352	13.41	.5701	.1001
SDev	.0008	1.54	.0125	.028	.17	.0151	.0507
%RSD	3.815	2.538	11.99	.8477	1.283	2.646	50.62
#1	.0206	60.42	.1088	3.336	13.43	.5729	.1186
#2	.0196	62.58	.0898	3.385	13.57	.5538	.0428
#3	.0212	59.59	.1133	3.335	13.23	.5836	.1389

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0946	.0581	.0826	1.184	.3564	.5904	.0855
SDev	.0214	.0098	.0192	.005	.0597	.0119	.0130
%RSD	22.58	16.92	23.26	.4411	16.75	2.015	15.24
#1	.1006	.0691	.0902	1.178	.3536	.5866	.0912
#2	.0709	.0502	.0608	1.187	.2982	.6037	.0706
#3	.1123	.0550	.0969	1.188	.4175	.5809	.0947

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3157	.0314	.0616	22.26	.0151	.0569	.0112
SDev	.0094	.0005	.0037	.24	.0025	.0092	.0008

%RSD	2.982	1.673	5.967	1.069	16.42	16.11	7.387
#1	.3048	.0314	.0581	22.21	.0158	.0533	.0115
#2	.3208	.0309	.0654	22.51	.0123	.0500	.0103
#3	.3214	.0320	.0613	22.04	.0171	.0673	.0119

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1929	-.0003
SDev	.0025	.0021
%RSD	1.292	659.9
#1	.1924	.0011
#2	.1956	-.0028
#3	.1907	.0007

Analysis Report Wed 09-13-95 04:40:54 PM page 1

Method: ICP1 Sample Name: 95-007947-H2 @10 Operator: DRS
Run Time: 09/13/95 16:39:35
Comment: QTR SEG 4C DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	1.160	.0160	.0902	.0155	.0002	.1563
SDev	.0010	.006	.0045	.0009	.0001	.0000	.0050
%RSD	16.64	.5157	28.26	.9622	.4985	6.766	3.179
#1	.0052	1.155	.0128	.0903	.0155	.0002	.1527
#2	.0070	1.159	.0140	.0910	.0155	.0002	.1543
#3	.0055	1.167	.0212	.0893	.0156	.0002	.1620

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.438	.0038	.0373	.0133	.0145	.0455	.0035
SDev	.025	.0017	.0090	.0008	.0020	.0014	.0011
%RSD	1.040	43.96	24.11	6.422	13.64	3.092	32.45
#1	2.411	.0021	.0350	.0124	.0124	.0452	.0036
#2	2.442	.0040	.0473	.0141	.0149	.0470	.0046
#3	2.462	.0055	.0297	.0133	.0163	.0443	.0023

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	5.674	1033.	.0118	.0044	.1984	.1549
SDev	.0001	.061	9.	.0021	.0018	.0025	.0014
%RSD	4.245	1.076	.8647	17.83	39.80	1.252	.8845
#1	.0014	5.615	1034.	.0112	.0032	.1956	.1537
#2	.0015	5.669	1023.	.0142	.0064	.2002	.1547
#3	.0014	5.737	1041.	.0101	.0036	.1995	.1564

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	19.78	.0391	.8248	3.825	.1945	.0445
SDev	.0016	.16	.0052	.0081	.079	.0054	.0113
%RSD	31.44	.8130	13.33	.9870	2.075	2.803	25.31
#1	.0060	19.88	.0394	.8193	3.784	.1885	.0401
#2	.0061	19.60	.0442	.8210	3.774	.1961	.0573
#3	.0032	19.88	.0337	.8342	3.916	.1990	.0361

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0308	.0157	.0279	.3384	.1197	.1819	.0242
SDev	.0076	.0047	.0143	.0012	.0321	.0021	.0070
%RSD	24.77	29.84	51.42	.3569	26.77	1.129	29.09
#1	.0286	.0122	.0147	.3371	.0970	.1803	.0170
#2	.0393	.0210	.0431	.3394	.1564	.1811	.0311
#3	.0246	.0138	.0257	.3388	.1058	.1842	.0244

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1003	.0097	.0178	7.547	.0050	.0191	.0039
SDev	.0051	.0001	.0104	.124	.0010	.0007	.0001

%RSD	5.065	1.309	58.49	1.641	20.05	3.756	3.586
#1	.0948	.0096	.0131	7.421	.0048	.0188	.0038
#2	.1014	.0098	.0107	7.669	.0061	.0199	.0040
#3	.1048	.0096	.0298	7.550	.0041	.0186	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0488	.0006
SDev	.0006	.0010
%RSD	1.178	169.1
#1	.0482	.0009
#2	.0489	.0013
#3	.0494	-.0005

Analysis Report Wed 09-13-95 04:44:44 PM page 1

Method: ICP1 Sample Name: 95-007947-H2 @2 Operator: DRS
Run Time: 09/13/95 16:43:25
Comment: QTR SEG 4C DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0226	5.172	.0828	.3922	.0651	.0009	.6692
SDev	.0014	.063	.0132	.0076	.0008	.0000	.0199
%RSD	6.192	1.226	15.96	1.947	1.292	3.965	2.971
#1	.0214	5.243	.0896	.3999	.0661	.0008	.6903
#2	.0242	5.122	.0913	.3921	.0646	.0009	.6508
#3	.0223	5.149	.0676	.3847	.0646	.0009	.6665

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.21	.0091	.1355	.0534	.0570	.1944	.0101
SDev	.15	.0008	.0114	.0019	.0017	.0042	.0015
%RSD	1.374	9.188	8.413	3.569	2.974	2.158	14.44
#1	11.39	.0081	.1273	.0545	.0554	.1992	.0090
#2	11.14	.0097	.1486	.0545	.0588	.1926	.0118
#3	11.11	.0094	.1307	.0512	.0569	.1914	.0096

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	,0059	25.35	4268.	.0411	.0148	.8587	.6978
SDev	.0003	.40	57.	.0020	.0006	.0041	.0101
%RSD	4.269	1.563	1.324	4.908	4.165	.4792	1.449
#1	.0056	25.81	4326.	.0408	.0146	.8628	.7095
#2	.0060	25.12	4213.	.0432	.0154	.8587	.6921
#3	.0060	25.13	4265.	.0393	.0142	.8545	.6918

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0234	83.02	.1260	3.725	17.79	.8129	.0639
SDev	.0005	1.20	.0070	.054	.26	.0113	.0102
%RSD	2.257	1.443	5.574	1.440	1.458	1.388	15.97
#1	.0231	84.05	.1211	3.785	18.09	.8227	.0617
#2	.0240	81.71	.1340	3.709	17.63	.8154	.0750
#3	.0231	83.29	.1229	3.682	17.66	.8006	.0550

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1049	.0606	.1099	1.477	.4423	.7925	.1021
SDev	.0130	.0063	.0080	.015	.0353	.0132	.0096
%RSD	12.43	10.43	7.320	1.000	7.994	1.672	9.385
#1	.0960	.0533	.1011	1.494	.4580	.8074	.0967
#2	.1199	.0646	.1169	1.466	.4670	.7822	.1131
#3	.0989	.0640	.1116	1.472	.4018	.7878	.0964

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4583	.0405	.0700	32.06	.0182	.0708	.0151
SDev	.0126	.0002	.0072	.41	.0004	.0092	.0006

%RSD	2.740	.4970	10.26	1.291	2.103	12.91	4.092
#1	.4624	.0406	.0765	32.54	.0179	.0628	.0147
#2	.4682	.0406	.0711	31.78	.0186	.0808	.0158
#3	.4441	.0402	.0623	31.87	.0181	.0689	.0147

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2239	-.0009
SDev	.0042	.0011
%RSD	1.883	119.8
#1	.2287	-.0020
#2	.2207	-.0006
#3	.2224	.0000

Analysis Report QC Standard Wed 09-13-95 04:52:04 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 16:50:45
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4998	25.31	2.562	2.021	.5108	.0962	25.29
SDev	.0016	.11	.023	.012	.0018	.0003	.07
%RSD	.3286	.4221	.8802	.6082	.3434	.3355	.2952
#1	.5013	25.43	2.574	2.034	.5127	.0965	25.38
#2	.4999	25.27	2.577	2.020	.5106	.0963	25.24
#3	.4981	25.23	2.537	2.009	.5092	.0959	25.26
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.91	.4884	-.0523	1.016	1.010	1.010	-.0033
SDev	.08	.0027	.0026	.003	.001	.002	.0004
%RSD	.3147	.5537	4.993	.3325	.1448	.2347	10.98
#1	24.97	.4863	-.0535	1.018	1.010	1.013	-.0037
#2	24.93	.4915	-.0540	1.017	1.008	1.009	-.0030
#3	24.82	.4875	-.0493	1.012	1.011	1.009	-.0033
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	20.20	26.74	.0004	2.052	26.20	.5136
SDev	.0001	.06	.14	.0010	.016	.10	.0016
%RSD	10.50	.2950	.5177	238.8	.7661	.3918	.3177
#1	.0011	20.26	26.86	.0010	2.069	26.28	.5154
#2	.0013	20.20	26.77	.0011	2.038	26.23	.5133
#3	.0011	20.14	26.59	-.0007	2.049	26.08	.5122
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.023	25.73	-.0085	1.045	.0421	2.565	-.0624
SDev	.002	.18	.0014	.002	.0040	.012	.0078
%RSD	.2090	.6874	17.03	.1865	9.394	.4742	12.51
#1	1.026	25.93	-.0099	1.046	.0392	2.574	-.0675
#2	1.022	25.61	-.0071	1.043	.0466	2.569	-.0534
#3	1.022	25.64	-.0084	1.046	.0406	2.551	-.0663
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0260	2.547	2.555	19.01	-.1340	.5372	-.0149
SDev	.0015	.009	.021	.06	.0136	.0018	.0055
%RSD	5.604	.3568	.8169	.2929	10.18	.3337	36.70
#1	-.0263	2.536	2.532	19.07	-.1372	.5392	-.0109
#2	-.0244	2.553	2.573	19.00	-.1190	.5366	-.0126
#3	-.0272	2.551	2.560	18.97	-.1457	.5358	-.0211
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0475	.9962	2.577	-.2246	1.005	.0217	-.0012
SDev	.0017	.0027	.013	.0360	.003	.0036	.0002
%RSD	3.574	.2698	.5190	16.01	.3038	16.57	17.61
#1	.0468	.9991	2.576	-.2230	1.008	.0245	-.0014
#2	.0463	.9959	2.591	-.2614	1.006	.0177	-.0010
#3	.0494	.9937	2.564	-.1895	1.002	.0230	-.0014
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.004	2.044
SDev	.003	.006
%RSD	.2699	.2943
#1	1.007	2.051
#2	1.001	2.042
#3	1.004	2.039
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 04:56:09 PM page

Method: ICP1 Sample Name: SST-ICS-2 9509081102 Operator: DRS
Run Time: 09/13/95 16:54:49
Comment: QTR SEG 4C DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	95.42	.1586	.0108	.0019	.0011	.0906
SDev	.0022	1.87	.0121	.0013	.0004	.0001	.0105
%RSD	140.1	1.963	7.607	12.12	23.29	7.020	11.60
#1	-.0008	97.56	.1458	.0105	.0014	.0010	.0797
#2	.0020	94.62	.1697	.0097	.0020	.0011	.0914
#3	.0035	94.08	.1602	.0122	.0022	.0011	.1007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0578	.0099	-.1048	.0130	.0424	-.0494	.0031
SDev	.0030	.0027	.0243	.0025	.0022	.0040	.0025
%RSD	5.253	27.16	23.24	18.88	5.250	8.090	80.84
#1	.0544	.0107	-.1307	.0103	.0400	-.0540	.0003
#2	.0589	.0069	-.1013	.0137	.0430	-.0471	.0040
#3	.0601	.0121	-.0824	.0151	.0443	-.0470	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	18.89	4264.	.0122	.0071	.2935	.0030
SDev	.0008	.28	85.	.0043	.0030	.0160	.0004
%RSD	31.03	1.502	1.987	35.61	42.79	5.468	13.15
#1	.0017	19.22	4380.	.0074	.0039	.2758	.0028
#2	.0025	18.74	4252.	.0131	.0075	.2977	.0026
#3	.0032	18.72	4219.	.0159	.0099	.3071	.0034

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	.3056	.0177	49.51	.0898	.2534	-.2521
SDev	.0015	.0337	.0126	.68	.0091	.0078	.0546
%RSD	10.53	11.03	71.23	1.367	10.14	3.090	21.64
#1	.0129	.2670	.0049	50.29	.0796	.2457	-.3127
#2	.0159	.3292	.0182	49.13	.0927	.2531	-.2367
#3	.0142	.3206	.0301	49.10	.0972	.2613	-.2070

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0342	.0407	.0796	.1040	.2949	.0012	.0496
SDev	.0192	.0169	.0134	.0087	.0400	.0002	.0072
%RSD	56.27	41.58	16.76	8.339	13.56	18.76	14.43
#1	.0145	.0211	.0656	.0947	.2497	.0009	.0413
#2	.0352	.0508	.0811	.1055	.3089	.0013	.0532
#3	.0529	.0501	.0922	.1118	.3259	.0013	.0542

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7098	.0038	.2489	47.43	.0095	.0716	.0063
SDev	.0147	.0011	.0110	.89	.0024	.0114	.0013

%RSD	2.067	28.92	4.426	1.870	25.28	15.89	20.80
#1	.7266	.0026	.2368	48.44	.0070	.0591	.0050
#2	.7033	.0040	.2583	47.08	.0098	.0813	.0064
#3	.6995	.0048	.2516	46.77	.0118	.0744	.0076

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0289	9.749
SDev	.0020	.190
%RSD	6.973	1.951
#1	-.0269	9.967
#2	-.0309	9.668
#3	-.0287	9.613

Analysis Report Wed 09-13-95 05:00:01 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 16:58:41
Comment: QTR SEG 4C DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0019	-.0088	.0051	-.0001	-.0000	.0023
SDev	.0009	.0013	.0075	.0026	.0002	.0000	.0103
%RSD	41.09	67.05	84.58	50.89	184.1	817.1	456.8
#1	-.0018	-.0012	-.0016	.0055	-.0003	.0000	.0106
#2	-.0034	-.0011	-.0165	.0023	-.0003	-.0000	.0054
#3	-.0017	-.0033	-.0083	.0075	.0001	.0000	-.0093

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0010	-.0191	-.0007	.0002	.0018	-.0021
SDev	.0015	.0012	.0045	.0005	.0015	.0016	.0009
%RSD	203.3	117.7	23.77	69.55	922.9	89.63	44.27
#1	.0019	-.0018	-.0142	-.0002	.0013	.0015	-.0017
#2	-.0009	.0004	-.0201	-.0010	-.0016	.0003	-.0031
#3	.0012	-.0017	-.0231	-.0011	.0008	.0035	-.0014

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0007	-.5724	-.0037	-.0020	.0018	-.0003
SDev	.0001	.0010	.1033	.0013	.0005	.0052	.0001
%RSD	13.25	138.0	18.04	34.15	23.14	293.0	27.39
#1	-.0009	-.0008	-.5334	-.0031	-.0017	-.0027	-.0002
#2	-.0008	-.0016	-.6895	-.0051	-.0025	.0075	-.0003
#3	-.0007	.0003	-.4943	-.0028	-.0017	.0005	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	-.0117	-.0119	.0030	-.0010	-.0064	-.0340
SDev	.0016	.0114	.0057	.0029	.0102	.0035	.0139
%RSD	122.8	97.45	47.80	95.65	1055.	54.28	40.97
#1	.0005	-.0103	-.0088	.0030	.0010	-.0037	-.0285
#2	-.0027	-.0238	-.0185	.0059	.0081	-.0104	-.0499
#3	-.0018	-.0011	-.0084	.0001	-.0120	-.0052	-.0237

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0198	-.0030	-.0146	.0196	-.0550	.0006	-.0082
SDev	.0053	.0029	.0104	.0029	.0126	.0001	.0070
%RSD	26.75	94.80	71.40	14.92	22.97	12.33	84.75
#1	-.0151	-.0013	-.0026	.0214	-.0539	.0007	-.0007
#2	-.0255	-.0063	-.0205	.0162	-.0681	.0005	-.0145
#3	-.0188	-.0015	-.0208	.0211	-.0429	.0005	-.0095

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	-.0009	-.0114	-.2964	-.0015	.0014	-.0012
SDev	.0047	.0005	.0033	.0384	.0007	.0086	.0002

%RSD	162.4	51.86	28.67	12.95	44.30	636.0	14.42
#1	.0044	-.0010	-.0150	-.2707	-.0009	.0105	-.0011
#2	-.0024	-.0014	-.0102	-.3405	-.0022	-.0066	-.0014
#3	.0067	-.0004	-.0088	-.2779	-.0014	.0001	-.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0001	-.0018
SDev	.0007	.0005
%RSD	1051.	28.96
#1	.0004	-.0012
#2	.0005	-.0019
#3	-.0008	-.0022

Analysis Report Wed 09-13-95 05:02:00 PM page 1

Method: ICP1 Sample Name: 95-007948-H1 @10 Operator: DRS
Run Time: 09/13/95 17:00:40
Comment: QTR SEG 4D @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.9191	.0140	.1230	.0129	.0001	.1258
SDev	.0006	.0009	.0035	.0001	.0003	.0000	.0080
%RSD	23.26	.1008	24.98	.0599	2.164	21.96	6.355
#1	.0032	.9193	.0102	.1231	.0131	.0001	.1289
#2	.0027	.9182	.0172	.1230	.0130	.0002	.1168
#3	.0020	.9200	.0146	.1230	.0126	.0001	.1318

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8160	.0021	.0109	.0109	.0116	.0281	.0009
SDev	.0019	.0003	.0081	.0003	.0017	.0008	.0006
%RSD	.2325	13.55	74.76	2.926	14.49	2.997	73.97
#1	.8154	.0019	.0193	.0111	.0124	.0290	.0009
#2	.8144	.0019	.0104	.0110	.0127	.0278	.0015
#3	.8181	.0024	.0030	.0105	.0097	.0274	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	4.761	1066.	.0052	.0007	.1334	.1308
SDev	.0001	.007	7.	.0009	.0006	.0063	.0001
%RSD	13.96	.1372	.6255	17.44	87.65	4.726	.0730
#1	.0006	4.766	1060.	.0061	.0014	.1406	.1308
#2	.0008	4.753	1064.	.0052	.0006	.1307	.1307
#3	.0006	4.763	1073.	.0043	.0002	.1289	.1309

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	13.18	.0140	.4786	2.734	.1644	.0011
SDev	.0005	.13	.0048	.0055	.027	.0078	.0086
%RSD	11.62	.9894	33.95	1.142	.9723	4.721	758.4
#1	.0035	13.08	.0193	.4848	2.765	.1731	.0061
#2	.0039	13.14	.0127	.4744	2.719	.1621	.0060
#3	.0044	13.33	.0101	.4766	2.719	.1581	-.0087

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0095	.0119	.0182	.2804	.0381	.1588	.0095
SDev	.0043	.0024	.0109	.0027	.0221	.0004	.0058
%RSD	45.82	20.46	60.03	.9483	58.10	.2765	61.26
#1	.0145	.0148	.0201	.2820	.0593	.1586	.0160
#2	.0065	.0107	.0281	.2819	.0399	.1585	.0047
#3	.0075	.0104	.0065	.2774	.0151	.1593	.0079

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0743	.0078	.0073	5.610	.0023	.0087	.0020
SDev	.0124	.0002	.0054	.061	.0004	.0026	.0002

%RSD	16.66	2.029	74.73	1.082	19.40	29.81	9.719
#1	.0880	.0080	.0073	5.555	.0028	.0093	.0021
#2	.0639	.0077	.0127	5.675	.0020	.0110	.0020
#3	.0710	.0077	.0018	5.600	.0021	.0059	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0409	-.0013
SDev	.0009	.0007
%RSD	2.099	49.17
#1	.0400	-.0021
#2	.0417	-.0008
#3	.0411	-.0011

WHC-SD-WM-DP- REV.

Analysis Report Wed 09-13-95 05:05:40 PM page 1

Method: ICP1 Sample Name: 95-007948-H1 @2 Operator: DRS
Run Time: 09/13/95 17:04:21
Comment: QTR SEG 4D @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0164	4.252	.0664	.5530	.0580	.0007	.5547
SDev	.0013	.070	.0074	.0143	.0006	.0000	.0236
%RSD	8.049	1.655	11.15	2.579	1.126	6.235	4.252
#1	.0179	4.171	.0710	.5366	.0573	.0008	.5277
#2	.0157	4.293	.0702	.5597	.0583	.0007	.5711
#3	.0156	4.293	.0578	.5626	.0585	.0007	.5654

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.939	.0072	.0902	.0465	.0511	.1221	.0063
SDev	.050	.0005	.0096	.0010	.0030	.0027	.0016
%RSD	1.273	6.380	10.63	2.120	5.861	2.170	25.91
#1	3.881	.0078	.1008	.0473	.0534	.1191	.0082
#2	3.964	.0070	.0822	.0454	.0477	.1233	.0055
#3	3.972	.0070	.0876	.0467	.0521	.1239	.0053

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0042	21.98	4584.	.0277	.0093	.6093	.6096
SDev	.0004	.33	79.	.0013	.0009	.0062	.0091
%RSD	10.04	1.497	1.725	4.655	10.02	1.023	1.499
#1	.0047	21.60	4493.	.0291	.0098	.6056	.5991
#2	.0040	22.13	4627.	.0267	.0082	.6058	.6147
#3	.0040	22.20	4633.	.0272	.0098	.6165	.6151

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0180	58.11	.0843	2.216	13.27	.7626	.0246
SDev	.0016	1.15	.0084	.028	.26	.0066	.0298
%RSD	8.895	1.986	10.02	1.266	1.953	.8691	121.0
#1	.0198	56.78	.0941	2.187	12.98	.7701	.0571
#2	.0166	58.73	.0790	2.220	13.46	.7574	-.0015
#3	.0178	58.82	.0800	2.243	13.39	.7603	.0184

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0698	.0503	.0851	1.268	.3065	.7174	.0786
SDev	.0161	.0049	.0152	.013	.0460	.0131	.0021
%RSD	23.10	9.633	17.91	.9860	15.00	1.822	2.659
#1	.0880	.0508	.0755	1.254	.3596	.7024	.0792
#2	.0574	.0550	.0771	1.273	.2809	.7241	.0804
#3	.0639	.0453	.1027	1.277	.2790	.7258	.0763

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3647	.0373	.0617	25.44	.0131	.0553	.0117
SDev	.0060	.0001	.0082	.31	.0013	.0092	.0003

%RSD	1.644	.2752	13.35	1.212	9.983	16.67	2.962
#1	.3618	.0373	.0568	25.09	.0146	.0624	.0120
#2	.3716	.0373	.0571	25.55	.0121	.0449	.0115
#3	.3607	.0375	.0712	25.67	.0126	.0586	.0114

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1959	-.0047
SDev	.0043	.0013
%RSD	2.198	26.69
#1	.1912	-.0036
#2	.1968	-.0061
#3	.1996	-.0046

Analysis Report Wed 09-13-95 05:09:35 PM page 1

Method: ICP1 Sample Name: 95-007948-H2 @10 Operator: DRS
Run Time: 09/13/95 17:08:16
Comment: QTR SEG 4D DUP @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	.8052	.0201	.0449	.0121	.0003	.1170
SDev	.0010	.0063	.0085	.0006	.0001	.0000	.0040
%RSD	14.44	.7827	42.55	1.237	1.095	7.594	3.388
#1	.0066	.8020	.0103	.0447	.0119	.0003	.1215
#2	.0085	.8011	.0261	.0455	.0122	.0003	.1142
#3	.0067	.8124	.0238	.0445	.0121	.0003	.1153

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7073	.0023	.0554	.0160	.0116	.0205	.0060
SDev	.0035	.0009	.0077	.0008	.0019	.0003	.0010
%RSD	.4895	39.33	13.87	4.740	16.16	1.609	16.98
#1	.7089	.0016	.0485	.0163	.0095	.0204	.0051
#2	.7033	.0020	.0637	.0165	.0125	.0202	.0071
#3	.7096	.0033	.0540	.0151	.0129	.0209	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	4.040	1008.	.0144	.0047	.1354	.1402
SDev	.0004	.033	15.	.0026	.0006	.0047	.0013
%RSD	18.59	.8234	1.466	18.11	12.98	3.450	.9306
#1	.0019	4.053	1018.	.0131	.0046	.1325	.1406
#2	.0026	4.003	991.0	.0174	.0054	.1408	.1387
#3	.0019	4.066	1015.	.0127	.0042	.1329	.1412

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	11.08	.0427	.5469	2.467	.1781	.0990
SDev	.0003	.18	.0086	.0031	.026	.0123	.0188
%RSD	4.744	1.641	20.03	.5599	1.056	6.889	19.04
#1	.0060	11.19	.0406	.5443	2.437	.1729	.0833
#2	.0057	10.87	.0522	.5503	2.482	.1921	.1199
#3	.0054	11.18	.0354	.5461	2.482	.1693	.0939

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0534	.0229	.0325	.2751	.1620	.1352	.0333
SDev	.0083	.0053	.0049	.0024	.0360	.0015	.0093
%RSD	15.47	23.15	15.03	.8883	22.23	1.113	27.89
#1	.0465	.0197	.0313	.2728	.1362	.1360	.0271
#2	.0625	.0199	.0379	.2777	.2031	.1334	.0440
#3	.0511	.0290	.0284	.2748	.1466	.1361	.0288

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0699	.0092	.0112	5.185	.0062	.0253	.0039
SDev	.0029	.0004	.0058	.085	.0012	.0099	.0003

%RSD	4.206	4.878	52.08	1.647	19.37	39.18	9.001
#1	.0733	.0089	.0047	5.125	.0052	.0336	.0037
#2	.0686	.0097	.0159	5.283	.0075	.0279	.0043
#3	.0678	.0091	.0131	5.148	.0058	.0143	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0321	.0017
SDev	.0008	.0016
%RSD	2.598	94.47
#1	.0315	.0003
#2	.0316	.0034
#3	.0330	.0013

Analysis Report Wed 09-13-95 05:13:23 PM page 1

Method: ICP1 Sample Name: 95-007948-N2 @2 Operator: DRS
Run Time: 09/13/95 17:12:04
Comment: QTR SEG 4D DUP @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0166	3.822	.0577	.1995	.0527	.0007	.5144
SDev	.0025	.063	.0066	.0071	.0006	.0001	.0119
%RSD	15.03	1.650	11.47	3.549	1.046	10.49	2.318
#1	.0138	3.894	.0501	.2076	.0533	.0006	.5098
#2	.0186	3.795	.0608	.1963	.0525	.0007	.5279
#3	.0174	3.776	.0622	.1946	.0523	.0007	.5054

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.521	.0078	.0954	.0567	.0521	.0738	.0082
SDev	.036	.0011	.0147	.0016	.0024	.0011	.0024
%RSD	1.030	13.95	15.40	2.893	4.522	1.510	29.92
#1	3.561	.0070	.0794	.0549	.0494	.0747	.0054
#2	3.511	.0090	.0987	.0573	.0530	.0726	.0093
#3	3.491	.0073	.1082	.0580	.0538	.0742	.0099

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	19.58	4566.	.0278	.0103	.5296	.6808
SDev	.0006	.29	78.	.0039	.0007	.0046	.0097
%RSD	13.85	1.495	1.714	13.88	6.805	.8681	1.423
#1	.0036	19.91	4655.	.0236	.0095	.5348	.6918
#2	.0045	19.47	4532.	.0287	.0107	.5280	.6770
#3	.0048	19.36	4510.	.0312	.0107	.5260	.6737

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0183	51.32	.0874	2.657	12.19	.7130	.0586
SDev	.0012	.86	.0091	.039	.23	.0133	.0364
%RSD	6.701	1.681	10.45	1.450	1.917	1.859	62.16
#1	.0180	52.30	.0769	2.701	12.45	.6984	.0166
#2	.0174	50.95	.0923	2.641	12.11	.7243	.0819
#3	.0197	50.70	.0931	2.630	12.00	.7163	.0772

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0826	.0490	.0956	1.203	.3433	.6445	.0784
SDev	.0213	.0098	.0146	.006	.0596	.0123	.0078
%RSD	25.75	19.97	15.29	.5219	17.36	1.917	9.898
#1	.0588	.0381	.0869	1.210	.2805	.6586	.0696
#2	.0891	.0571	.1124	1.197	.3504	.6396	.0815
#3	.0998	.0518	.0874	1.202	.3991	.6353	.0842

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3334	.0364	.0571	22.62	.0139	.0605	.0111
SDev	.0035	.0006	.0052	.28	.0016	.0034	.0009

%RSD	1.045	1.504	9.095	1.249	11.71	5.630	8.337
#1	.3324	.0361	.0550	22.93	.0120	.0571	.0101
#2	.3306	.0371	.0533	22.54	.0149	.0639	.0116
#3	.3373	.0362	.0631	22.38	.0148	.0605	.0117

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1613	-.0053
SDev	.0036	.0016
%RSD	2.258	29.76
#1	.1640	-.0072
#2	.1572	-.0044
#3	.1627	-.0044

Analysis Report Wed 09-13-95 05:17:24 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @10 Operator: DRS
Run Time: 09/13/95 17:16:05
Comment: SOIL STD @10X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	6.874	.0220	.0892	.0877	.0008	.0353
SDev	.0012	.065	.0042	.0013	.0006	.0000	.0116
%RSD	17.35	.9475	19.08	1.463	.7125	2.184	32.82
#1	.0056	6.948	.0186	.0880	.0884	.0008	.0487
#2	.0070	6.846	.0267	.0889	.0873	.0008	.0275
#3	.0080	6.828	.0207	.0906	.0873	.0008	.0298

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.794	.0039	.0481	.0171	.0209	.0232	.0072
SDev	.014	.0013	.0121	.0006	.0010	.0018	.0011
%RSD	.7537	33.02	25.23	3.605	4.811	7.617	15.20
#1	1.809	.0024	.0344	.0167	.0220	.0217	.0060
#2	1.786	.0047	.0527	.0167	.0203	.0228	.0082
#3	1.786	.0047	.0574	.0178	.0203	.0252	.0075

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	3.403	1093.	.0137	.0094	1.486	.1409
SDev	.0004	.030	14.	.0020	.0009	.015	.0010
%RSD	16.05	.8921	1.282	14.83	9.884	.9812	.7129
#1	.0019	3.438	1109.	.0114	.0083	1.502	.1420
#2	.0025	3.385	1091.	.0152	.0100	1.474	.1406
#3	.0025	3.386	1081.	.0144	.0100	1.482	.1401

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	1.522	.0443	1.973	.1123	.0892	.1339
SDev	.0013	.030	.0107	.025	.0072	.0016	.0180
%RSD	17.83	1.954	24.15	1.283	6.442	1.756	13.44
#1	.0065	1.521	.0322	1.997	.1126	.0881	.1136
#2	.0085	1.552	.0481	1.947	.1049	.0885	.1477
#3	.0061	1.493	.0525	1.974	.1193	.0910	.1406

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0612	.0318	.0409	28.10	.1807	.0240	.0413
SDev	.0089	.0016	.0067	.24	.0429	.0002	.0064
%RSD	14.47	4.966	16.42	.8502	23.73	.8526	15.51
#1	.0510	.0315	.0453	28.37	.1325	.0242	.0340
#2	.0659	.0335	.0332	27.99	.1948	.0238	.0457
#3	.0668	.0304	.0442	27.93	.2147	.0239	.0443

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	.2934	.0397	.6771	.0165	.0263	.0041
SDev	.0040	.0030	.0153	.1453	.0007	.0081	.0005

%RSD	33.91	1.011	38.68	21.46	4.385	30.66	12.48
#1	.0163	.2968	.0220	.5126	.0157	.0239	.0035
#2	.0106	.2913	.0480	.7306	.0166	.0198	.0044
#3	.0086	.2921	.0490	.7882	.0171	.0354	.0044

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0190	.0131
SDev	.0012	.0014
%RSD	6.242	10.40
#1	.0178	.0116
#2	.0202	.0135
#3	.0190	.0142

Analysis Report Wed 09-13-95 05:21:05 PM page 1

Method: ICP1 Sample Name: SRM-2709-H @2 Operator: DRS
Run Time: 09/13/95 17:19:46
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0208	30.62	.1135	.3763	.3753	.0032	.0941
SDev	.0017	.41	.0101	.0039	.0063	.0000	.0060
%RSD	8.201	1.352	8.910	1.045	1.672	.8818	6.417
#1	.0189	31.09	.1113	.3808	.3824	.0032	.0872
#2	.0213	30.46	.1245	.3732	.3729	.0032	.0980
#3	.0221	30.31	.1046	.3751	.3706	.0032	.0972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.273	.0106	.1347	.0624	.0889	.0834	.0196
SDev	.091	.0013	.0092	.0003	.0029	.0015	.0015
%RSD	1.105	12.61	6.859	.5556	3.214	1.821	7.722
#1	8.378	.0092	.1247	.0623	.0898	.0846	.0180
#2	8.234	.0119	.1365	.0621	.0857	.0839	.0200
#3	8.208	.0108	.1429	.0627	.0913	.0817	.0209

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	15.06	4562.	.0403	.0312	6.522	.6289
SDev	.0003	.18	69.	.0025	.0010	.063	.0070
%RSD	4.977	1.215	1.519	6.201	3.366	.9638	1.119
#1	.0063	15.27	4641.	.0374	.0324	6.595	.6370
#2	.0066	15.00	4537.	.0412	.0308	6.482	.6259
#3	.0069	14.92	4509.	.0422	.0304	6.489	.6239

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0247	6.256	.1209	8.767	.4578	.2905	.3293
SDev	.0002	.069	.0091	.112	.0133	.0073	.0283
%RSD	.9048	1.105	7.510	1.282	2.914	2.529	8.592
#1	.0245	6.335	.1113	8.893	.4721	.2820	.2983
#2	.0250	6.226	.1221	8.727	.4457	.2947	.3361
#3	.0247	6.208	.1293	8.679	.4556	.2948	.3536

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1612	.1036	.1179	127.8	.4988	.1002	.1157
SDev	.0129	.0057	.0011	1.7	.0417	.0015	.0131
%RSD	8.019	5.507	.9292	1.308	8.357	1.535	11.35
#1	.1465	.0986	.1166	129.7	.4507	.1020	.1035
#2	.1665	.1024	.1185	127.2	.5240	.0997	.1140
#3	.1706	.1098	.1185	126.5	.5217	.0991	.1296

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0405	1.288	.1509	1.845	.0624	.0813	.0140
SDev	.0022	.017	.0054	.107	.0003	.0132	.0007

%RSD	5.322	1.351	3.603	5.809	.5236	16.19	4.747
#1	.0380	1.307	.1561	1.722	.0621	.0811	.0132
#2	.0420	1.283	.1514	1.893	.0624	.0945	.0142
#3	.0414	1.273	.1452	1.920	.0627	.0682	.0145

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0894	.0510
SDev	.0008	.0006
%RSD	.8532	1.267
#1	.0900	.0510
#2	.0885	.0504
#3	.0897	.0516

Analysis Report QC Standard Wed 09-13-95 05:25:20 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/13/95 17:24:01
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS
JKS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4982	24.92	2.577	2.008	.5047	.0964	25.19
SDev	.0021	.08	.002	.008	.0014	.0002	.03
%RSD	.4293	.3374	.0709	.4005	.2781	.2438	.1315
#1	.4957	24.84	2.575	2.005	.5038	.0962	25.16
#2	.4997	25.01	2.577	2.002	.5063	.0966	25.23
#3	.4992	24.93	2.579	2.017	.5041	.0963	25.18
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.04	.4950	-.0365	1.021	1.015	.9977	-.0002
SDev	.06	.0063	.0033	.003	.004	.0041	.0002
%RSD	.2325	1.263	9.158	.3089	.3717	.4131	95.35
#1	24.98	.4882	-.0327	1.017	1.019	.9941	-.0004
#2	25.10	.5005	-.0389	1.023	1.015	.9969	-.0003
#3	25.03	.4963	-.0380	1.022	1.011	1.002	.0000
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.23	24.87	.0046	1.918	26.19	.5153
SDev	.0003	.04	.24	.0008	.013	.08	.0018
%RSD	15.30	.2193	.9812	17.89	.6861	.2897	.3497
#1	.0019	20.19	24.70	.0055	1.909	26.12	.5138
#2	.0016	20.28	25.15	.0043	1.933	26.27	.5173
#3	.0021	20.22	24.76	.0039	1.911	26.18	.5149
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021	23.96	.0096	1.053	.0832	2.596	-.0172
SDev	.005	.16	.0029	.006	.0014	.011	.0082
%RSD	.5271	.6651	29.86	.5363	1.741	.4221	47.85
#1	1.017	23.90	.0125	1.047	.0816	2.584	-.0098
#2	1.027	24.15	.0068	1.057	.0837	2.606	-.0261
#3	1.019	23.84	.0093	1.056	.0843	2.596	-.0158
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	2.525	2.567	18.87	-.0625	.5292	-.0018
SDev	.0037	.033	.011	.06	.0071	.0015	.0053
%RSD	115.2	1.320	.4244	.2993	11.43	.2756	292.6
#1	-.0074	2.487	2.555	18.81	-.0691	.5278	-.0002
#2	-.0015	2.541	2.575	18.92	-.0549	.5307	-.0077
#3	-.0006	2.548	2.572	18.87	-.0633	.5291	.0025
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0510	.9939	2.570	-.0226	1.006	.0340	-.0001
SDev	.0009	.0033	.008	.0270	.003	.0063	.0000
%RSD	1.707	.3322	.3139	119.2	.2490	18.53	13.14
#1	.0520	.9913	2.567	-.0384	1.004	.0401	-.0001
#2	.0504	.9976	2.563	-.0381	1.009	.0345	-.0001
#3	.0507	.9928	2.579	.0085	1.006	.0275	-.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.007	2.034
SDev	.001	.006
%RSD	.0972	.2710
#1	1.008	2.029
#2	1.006	2.040
#3	1.007	2.033
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Wed 09-13-95 05:28:58 PM page

Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/13/95 17:27:38
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	91.33	.1628	.0108	.0027	.0011	.1037
SDev	.0022	.75	.0147	.0012	.0003	.0000	.0190
%RSD	34.33	.8169	9.010	11.39	10.24	1.749	18.27
#1	.0051	91.60	.1527	.0095	.0024	.0011	.0963
#2	.0088	90.48	.1797	.0120	.0029	.0012	.1253
#3	.0050	91.90	.1561	.0110	.0027	.0011	.0896

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0622	.0103	-.0636	.0163	.0400	-.0424	.0084
SDev	.0027	.0022	.0110	.0021	.0012	.0025	.0015
%RSD	4.289	21.82	17.29	12.66	3.007	5.906	18.24
#1	.0602	.0090	-.0742	.0152	.0412	-.0443	.0069
#2	.0652	.0128	-.0522	.0187	.0400	-.0396	.0099
#3	.0611	.0089	-.0645	.0150	.0388	-.0432	.0083

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	18.22	4093.	.0186	.0107	.3066	.0033
SDev	.0004	.05	55.	.0026	.0004	.0238	.0004
%RSD	9.978	.2871	1.345	13.66	3.767	7.747	12.53
#1	.0033	18.19	4114.	.0162	.0111	.2952	.0034
#2	.0040	18.18	4030.	.0213	.0107	.3339	.0037
#3	.0035	18.28	4134.	.0185	.0103	.2907	.0029

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0175	.3550	.0450	48.05	.1267	.2719	-.1788
SDev	.0021	.0121	.0107	.15	.0253	.0152	.0268
%RSD	12.15	3.422	23.83	.3059	19.93	5.577	14.98
#1	.0161	.3412	.0357	47.92	.1093	.2643	-.1925
#2	.0199	.3601	.0567	48.02	.1557	.2894	-.1479
#3	.0164	.3638	.0425	48.21	.1151	.2621	-.1960

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0662	.0561	.0915	.1173	.4095	.0014	.0627
SDev	.0149	.0062	.0187	.0102	.0306	.0001	.0084
%RSD	22.45	11.13	20.48	8.679	7.465	10.43	13.42
#1	.0557	.0498	.0791	.1094	.3743	.0012	.0536
#2	.0832	.0623	.1131	.1288	.4250	.0015	.0702
#3	.0596	.0562	.0823	.1137	.4292	.0014	.0642

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6997	.0053	.2425	45.67	.0127	.0866	.0074
SDev	.0126	.0008	.0132	.27	.0016	.0082	.0005

%RSD	1.801	14.40	5.432	.5922	12.64	9.520	7.249
#1	.6864	.0047	.2296	45.81	.0115	.0930	.0071
#2	.7115	.0062	.2421	45.36	.0145	.0773	.0080
#3	.7012	.0051	.2559	45.84	.0121	.0894	.0071

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0267	9.340
SDev	.0041	.048
%RSD	15.49	.5159
#1	-.0276	9.355
#2	-.0222	9.286
#3	-.0303	9.379

Analysis Report QC Standard Wed 09-13-95 05:32:51 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 17:31:31
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Fail. Pd-1
DKS 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.1593	-.0094	.0048	.0004	.0003	.0055
SDev	.0010	.0094	.0039	.0016	.0002	.0000	.0118
%RSD	69.57	5.925	41.33	33.22	65.58	11.57	214.7
#1	.0026	-.1495	-.0131	.0043	.0005	.0003	.0157
#2	.0008	-.1601	-.0100	.0066	.0005	.0003	.0083
#3	.0009	-.1683	-.0053	.0035	.0001	.0003	-.0075
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	.0008	1.978	.0021	.0022	-.0041	1.988
SDev	.0010	.0009	.015	.0008	.0023	.0013	.015
%RSD	11.10	106.3	.7820	37.77	103.4	31.78	.7349
#1	.0105	-.0001	1.960	.0026	.0048	-.0031	1.972
#2	.0093	.0009	1.983	.0012	.0003	-.0056	1.999
#3	.0084	.0017	1.990	.0025	.0016	-.0037	1.994
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.971	.0051	-.0650	1.967	.0006	.0767	.0005
SDev	.014	.0013	.3098	.015	.0013	.0079	.0002
%RSD	.7293	25.23	476.2	.7747	217.0	10.33	36.18
#1	1.954	.0065	.2862	1.950	.0015	.0832	.0005
#2	1.980	.0041	-.1821	1.975	-.0009	.0790	.0006
#3	1.978	.0046	-.2992	1.977	.0011	.0679	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0155	1.966	.0113	-.0045	.0495	Q2.223
SDev	.0004	.0148	.021	.0039	.0240	.0076	.013
%RSD	222.2	95.43	1.074	34.26	530.7	15.26	.5758
#1	.0007	.0264	1.942	.0145	.0230	.0582	Q2.211
#2	.0000	.0216	1.976	.0123	-.0204	.0444	Q2.224
#3	-.0001	-.0014	1.980	.0070	-.0162	.0460	Q2.236
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.045	-.0018	.0028	.0663	2.012	.0009	Q1.793
SDev	.016	.0096	.0050	.0021	.021	.0001	.008
%RSD	.7924	522.9	176.1	3.130	1.058	9.043	.4305
#1	2.026	.0018	.0040	.0683	2.007	.0010	Q1.784
#2	2.057	-.0127	.0072	.0663	1.994	.0008	Q1.798
#3	2.050	.0054	-.0026	.0642	2.036	.0008	Q1.797
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.992	.0003	-.0028	Q8.286	-.0021	Q.4924	.9624
SDev	.024	.0001	.0102	.040	.0006	.0141	.0057
%RSD	.4848	25.13	365.6	.4886	29.48	2.865	.5937
#1	4.964	.0003	.0073	Q8.241	-.0015	Q.4828	.9558
#2	5.008	.0002	-.0025	Q8.299	-.0027	Q.4859	.9651
#3	5.004	.0002	-.0131	Q8.319	-.0020	Q.5086	.9662
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0157
SDev	.0006	.0010
%RSD	36.85	6.049
#1	.0015	-.0149
#2	.0011	-.0168
#3	.0023	-.0156
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 05:36:59 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/13/95 17:35:39
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Pd-Ni Sample Set
PASS
9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.1658	.0031	.0029	.0000	.0003	-.0027
SDev	.0009	.0051	.0092	.0012	.0001	.0000	.0052
%RSD	99.03	3.063	298.0	41.39	169.3	10.09	189.2
#1	.0016	-.1642	-.0058	.0043	.0001	.0003	-.0002
#2	.0014	-.1618	.0024	.0026	.0001	.0003	-.0087
#3	-.0001	-.1715	.0127	.0019	-.0000	.0003	.0007
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	.0011	1.966	.0032	.0022	-.0073	1.977
SDev	.0008	.0017	.018	.0006	.0014	.0005	.025
%RSD	9.903	154.9	.9029	20.32	63.53	7.019	1.259
#1	.0078	.0021	1.946	.0033	.0034	-.0070	1.955
#2	.0090	.0021	1.972	.0037	.0006	-.0070	1.973
#3	.0075	-.0009	1.979	.0025	.0027	-.0079	2.004
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.964	.0034	-.4293	1.959	-.0005	.0831	.0005
SDev	.024	.0016	.2440	.021	.0026	.0029	.0002
%RSD	1.226	45.78	56.83	1.079	556.1	3.504	35.10
#1	1.941	.0047	-.1821	1.937	.0023	.0829	.0004
#2	1.961	.0040	-.4358	1.963	-.0009	.0860	.0006
#3	1.989	.0017	-.6699	1.978	-.0029	.0802	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0096	1.959	.0070	-.0063	.0417	Q2.201
SDev	.0008	.0216	.022	.0027	.0188	.0052	.034
%RSD	48.54	226.4	1.134	39.10	297.4	12.57	1.544
#1	-.0024	.0172	1.935	.0088	.0125	.0438	2.162
#2	-.0008	.0263	1.963	.0085	-.0064	.0455	Q2.222
#3	-.0021	-.0149	1.979	.0039	-.0251	.0357	Q2.220
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00	•			10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.030	-.0010	.0066	.0647	2.005	.0009	Q1.795
SDev	.012	.0071	.0077	.0026	.021	.0001	.016
%RSD	.5736	677.9	116.4	4.021	1.045	16.34	.8647
#1	2.018	-.0022	-.0022	.0626	2.008	.0010	Q1.781
#2	2.030	-.0075	.0119	.0676	2.025	.0010	Q1.794
#3	2.041	.0066	.0101	.0639	1.983	.0007	1.812
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.994	.0003	-.0166	Q8.218	-.0018	Q.5207	.9596
SDev	.051	.0004	.0046	.089	.0009	.0066	.0102
%RSD	1.012	128.1	27.50	1.077	50.59	1.274	1.062
#1	4.946	.0006	-.0195	Q8.319	-.0010	Q.5283	.9502
#2	4.988	.0004	-.0189	Q8.177	-.0017	Q.5178	.9583
#3	5.047	-.0001	-.0113	Q8.157	-.0028	Q.5160	.9705
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0009	-.0190
SDev	.0005	.0007
%RSD	56.25	3.846
#1	.0012	-.0183
#2	.0011	-.0198
#3	.0003	-.0189
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Wed 09-13-95 05:40:39 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/13/95 17:39:20
Comment: (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0019	Q.0986	Q.0722	Q.1170	.0487	.0223	.0096
SDev	.0010	.0024	.0085	.0030	.0002	.0001	.0045
%RSD	53.35	2.403	11.76	2.598	.4238	.3023	46.59
#1	Q-.0029	Q.0984	Q.0627	Q.1148	.0489	.0224	.0048
#2	Q-.0018	Q.1011	Q.0747	Q.1205	.0488	.0223	.0136
#3	Q-.0009	Q.0964	Q.0791	Q.1157	.0485	.0223	.0103
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.19	.0122	-.0177	Q.0221	Q.0210	.0203	-.0026
SDev	.03	.0014	.0080	.0007	.0005	.0011	.0004
%RSD	.0889	11.26	45.07	3.178	2.427	5.516	13.61
#1	Q35.23	Q.0109	-.0264	Q.0219	Q.0216	Q.0191	-.0030
#2	Q35.18	.0123	-.0108	Q.0216	Q.0207	.0207	-.0024
#3	Q35.17	Q.0136	-.0158	.0229	Q.0207	.0212	-.0024
Errors	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1158	Q1.535	.0034	Q.0115	Q9.755	.0347
SDev	.0003	.0001	.103	.0012	.0013	.029	.0003
%RSD	74.25	.0770	6.726	34.36	11.25	.2960	.7331
#1	.0001	Q.1159	Q1.418	.0022	Q.0106	Q9.784	.0350
#2	.0006	Q.1158	Q1.613	.0035	Q.0110	Q9.755	.0345
#3	.0006	Q.1158	Q1.574	.0046	Q.0130	Q9.726	.0347
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1005	11.98	-.0013	.0592	.0134	Q.0234	-.0412
SDev	.0019	.04	.0020	.0028	.0132	.0103	.0051
%RSD	1.907	.3328	159.5	4.708	98.87	44.26	12.34
#1	Q.0991	12.02	-.0035	.0561	.0063	Q.0116	-.0430
#2	Q.0996	11.97	-.0007	.0603	.0052	Q.0308	-.0354
#3	.1027	11.95	.0004	.0613	.0287	Q.0277	-.0451
Errors	QC Fail	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0198	-.0156	Q.0035	.0263	-.1003	Q.2701	-.0052
SDev	.0051	.0048	.0005	.0043	.0123	.0011	.0068
%RSD	25.92	31.07	12.92	16.27	12.31	.3945	130.7
#1	-.0256	-.0209	Q.0039	.0221	-.0883	Q.2713	-.0122
#2	-.0156	-.0114	Q.0037	.0306	-.0997	Q.2695	.0013
#3	-.0184	-.0144	Q.0030	.0263	-.1130	Q.2694	-.0046
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0050	.0070	Q-.0014	-.0684	Q.0265	.0061	-.0026
SDev	.0040	.0002	.0132	.0562	.0003	.0065	.0000
%RSD	81.36	3.325	972.9	82.15	.9933	107.2	1.422
#1	-.0096	.0070	Q-.0160	-.1327	Q.0265	.0016	-.0026
#2	-.0023	.0069	Q.0025	-.0288	Q.0268	.0030	-.0026
#3	-.0029	.0073	.0095	-.0436	Q.0263	.0135	-.0026
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0858	-.0024
SDev	.0008	.0005
%RSD	.9458	20.00
#1	Q.0863	-.0027
#2	Q.0849	-.0025
#3	Q.0863	-.0018
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Wed 09-13-95 05:44:30 PM page 1

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/13/95 17:43:11
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	1.917	1.984	1.950	.9869	.9781	1.975
SDev	.0005	.008	.007	.013	.0021	.0029	.011
%RSD	59.12	.3916	.3325	.6782	.2162	.2911	.5360
#1	-.0011	1.910	1.990	1.962	.9885	.9799	1.986
#2	-.0010	1.925	1.985	1.952	.9877	.9796	1.974
#3	-.0003	1.915	1.977	1.936	.9844	.9748	1.965

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.918	.9728	-.0045	1.016	.5087	2.004	-.0003
SDev	.003	.0068	.0009	.003	.0044	.004	.0005
%RSD	.1402	.6971	20.66	.3015	.8621	.1878	210.3
#1	1.917	.9773	-.0042	1.016	.5039	2.007	-.0008
#2	1.921	.9650	-.0038	1.019	.5099	2.004	-.0003
#3	1.916	.9761	-.0056	1.013	.5125	2.000	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	1.969	4.852	.0010	2.044	2.062	1.011
SDev	.0000	.008	.089	.0019	.006	.007	.002
%RSD	4.965	.4109	1.843	183.2	.2840	.3469	.1696
#1	.0004	1.972	4.755	-.0011	2.039	2.069	1.011
#2	.0004	1.976	4.872	.0024	2.043	2.061	1.012
#3	.0004	1.960	4.930	.0017	2.051	2.055	1.009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.955	8.313	-.0018	2.049	4.665	2.029	.0017
SDev	.003	.048	.0042	.007	.033	.016	.0077
%RSD	.1560	.5717	230.6	.3176	.7069	.8022	461.9
#1	1.959	8.328	-.0063	2.042	4.653	2.011	-.0071
#2	1.953	8.259	.0019	2.051	4.702	2.041	.0073
#3	1.955	8.351	-.0011	2.055	4.639	2.037	.0048

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0052	1.965	4.969	-.0255	2.070	-.0180
SDev	.0035	.0047	.035	.007	.0094	.005	.0052
%RSD	844.6	89.26	1.800	.1415	36.79	.2517	29.06
#1	-.0038	-.0011	2.005	4.977	-.0148	2.074	-.0192
#2	-.0007	-.0103	1.937	4.969	-.0292	2.072	-.0225
#3	.0032	-.0043	1.954	4.962	-.0325	2.064	-.0123

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	-.0001	1.958	-.0298	.9622	.0110	-.0002
SDev	.0030	.0001	.025	.0207	.0014	.0082	.0002

%RSD	76.38	167.5	1.259	69.42	.1402	74.57	93.60
#1	.0056	-.0002	1.969	-.0536	.9627	.0018	-.0003
#2	.0005	-.0001	1.974	-.0199	.9632	.0174	.0000
#3	.0058	.0001	1.929	-.0159	.9607	.0138	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.009	-.0011
SDev	.002	.0002
%RSD	.2083	18.99
#1	1.009	-.0012
#2	1.011	-.0009
#3	1.007	-.0013

Analysis Report Wed 09-13-95 05:48:00 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/13/95 17:46:41
Comment: SOIL STD @2X DIL SLUDGE (KOH/Ni FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	-.0089	-.0139	.0028	-.0003	.0001	-.0052
SDev	.0006	.0034	.0087	.0014	.0001	.0000	.0082
%RSD	22.69	37.99	62.66	51.04	50.51	12.68	157.9
#1	-.0021	-.0121	-.0196	.0019	-.0003	.0001	-.0019
#2	-.0025	-.0054	-.0039	.0044	-.0001	.0001	.0009
#3	-.0032	-.0092	-.0181	.0021	-.0004	.0001	-.0145

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0049	-.0013	-.0169	-.0002	-.0004	.0011	-.0017
SDev	.0017	.0007	.0043	.0003	.0019	.0022	.0009
%RSD	34.66	53.39	25.11	172.1	466.6	196.8	51.74
#1	.0044	-.0007	-.0190	.0002	-.0001	.0014	-.0018
#2	.0067	-.0011	-.0120	-.0004	-.0025	.0032	-.0008
#3	.0034	-.0020	-.0198	-.0003	.0013	-.0012	-.0025

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0018	-.8260	-.0032	-.0021	-.0005	-.0002
SDev	.0002	.0007	.1187	.0008	.0007	.0035	.0001
%RSD	24.18	37.96	14.37	25.45	32.49	740.6	67.33
#1	-.0007	-.0021	-.8846	-.0036	-.0029	-.0023	-.0002
#2	-.0005	-.0010	-.6895	-.0023	-.0017	.0036	-.0003
#3	-.0008	-.0022	-.9041	-.0037	-.0017	-.0027	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0148	-.0108	.0006	.0034	-.0078	-.0313
SDev	.0002	.0092	.0031	.0009	.0055	.0025	.0061
%RSD	36.27	62.09	28.36	150.4	158.7	32.32	19.58
#1	-.0008	-.0240	-.0132	-.0003	.0036	-.0069	-.0360
#2	-.0008	-.0150	-.0074	.0015	.0088	-.0058	-.0244
#3	-.0004	-.0056	-.0119	.0005	-.0021	-.0106	-.0336

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0180	-.0097	-.0106	.0052	-.0507	.0008	-.0149
SDev	.0024	.0054	.0087	.0025	.0118	.0001	.0079
%RSD	13.19	55.58	82.20	48.02	23.37	8.310	53.16
#1	-.0207	-.0148	-.0091	.0023	-.0616	.0008	-.0083
#2	-.0171	-.0040	-.0027	.0065	-.0381	.0009	-.0127
#3	-.0162	-.0104	-.0200	.0068	-.0523	.0008	-.0237

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0011	-.0064	-.2326	-.0016	.0007	-.0009
SDev	.0039	.0004	.0027	.0805	.0003	.0095	.0002

%RSD	855.9	35.29	42.30	34.60	17.23	1391.	23.92
#1	-.0030	-.0013	-.0092	-.2038	-.0015	.0053	-.0012
#2	-.0003	-.0006	-.0038	-.1705	-.0014	.0070	-.0008
#3	.0047	-.0012	-.0064	-.3236	-.0019	-.0102	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0020
SDev	.0002	.0006
%RSD	101.4	31.94
#1	-.0004	-.0020
#2	.0000	-.0014
#3	-.0003	-.0027

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Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [NA2O2 ICP ANALYSIS] [SEC 7 OF 12]

Pages: 393

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 7 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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Na_2O_2 FUSION SEGMENT & QUARTER SEGMENT AND ACID DIGESTION DRAINABLE LIQUID ICP ANALYSIS

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DATE TO QC: 09/18/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - Na2O2 Fusion and Acid Digestion

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07932-A1 95-07932-A2 95-007932-A3 95-07932-A4 95-07932-A5
95-07941-N1 95-07941-N2 95-07941-N3
95-07945-N1 95-07946-N1 95-07947-N1 95-07948-N1

PNL ACL Quality Representative

9/19/95
Date

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295a

Samp Log#:	Seg 2 95-07932-A1 Sam	95-07932-A1 SamDil		Seg 2 95-07932-A2 Dup	95-07932-A2 DupDil		95-07932-A3 Blank		**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00		12.50			
ICP Dil:	10.00	50.00		10.00	50.00		1.00			
	<---Sample--->			<---Duplicate--->			<---Blank--->			
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	ug/mL		ug/mL	ug/mL
Ag	ND	ND		ND	ND		ND		0.015	0.1500
Al	35,454	36,139	2%	34,929	34,667	1%	(2)		0.060	0.6000
As	(30)	ND		(32)	ND		ND		0.080	0.8000
B	43	(43)		40	(41)		20	>MDL	0.020	0.2000
Ba	ND	ND		ND	ND		ND		0.010	0.1000
Be	ND	ND		ND	ND		ND		0.005	0.0500
Bi	ND	ND		ND	ND		ND		0.100	1.0000
Ca	ND	ND		ND	ND		ND		0.050	0.5000
Cd	ND	ND		ND	ND		ND		0.015	0.1500
Ce	ND	ND		ND	ND		ND		0.100	1.0000
Co	(9)	(8)		(9)	(9)		ND		0.010	0.1000
Cr	280	285	2%	277	277	0%	ND		0.020	0.2000
Cu	(4)	ND		(4)	ND		ND		0.010	0.1000
Dy	ND	ND		ND	ND		ND		0.050	0.5000
Eu	ND	ND		ND	ND		ND		0.100	1.0000
Fe	118	(123)		117	(120)		ND		0.020	0.2000
K	2,656	(2,716)		2,614	(2,713)		ND		2.000	20.0000
La	ND	ND		ND	ND		ND		0.050	0.5000
Li	ND	ND		ND	ND		ND		0.030	0.3000
Mg	ND	ND		ND	ND		ND		0.100	1.0000
Mn	ND	ND		ND	ND		ND		0.005	0.0500
Mo	(14)	ND		(14)	ND		ND		0.030	0.3000
Na	OvrRng	201,647		OvrRng	188,042	8%	24	>MDL	0.080	0.8000
Nd	ND	ND		ND	ND		ND		0.050	0.5000
Ni	310	319	3%	306	314	3%	ND		0.030	0.3000
P	467	(456)		462	(453)		ND		0.100	1.0000
Pb	91	(76)		91	(86)		ND		0.060	0.6000
Pd	ND	ND		ND	ND		ND		0.300	3.0000
Rh	ND	ND		ND	ND		ND		0.300	3.0000
Sb	ND	ND		ND	ND		ND		0.050	0.5000
Se	ND	ND		ND	ND		ND		0.100	1.0000
Si	ND	ND		ND	ND		(25)		0.500	5.0000
Sn	ND	ND		ND	ND		ND		1.000	10.0000
Sr	ND	ND		ND	ND		ND		0.005	0.0500
Te	ND	ND		ND	ND		ND		0.500	5.0000
Th	ND	ND		ND	ND		ND		0.800	8.0000
Ti	ND	ND		ND	ND		ND		0.005	0.0500
Tl	(76)	ND		(75)	ND		ND		0.500	5.0000
U	ND	ND		ND	ND		ND		2.000	20.0000
V	ND	ND		ND	ND		ND		0.010	0.1000
W	(63)	ND		ND	ND		ND		0.500	5.0000
Y	ND	ND		ND	ND		ND		0.010	0.1000
Zn	(7)	ND		(7)	ND		ND		0.020	0.2000
Zr	ND	ND		ND	ND		ND		0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) ">MDL" indicates analyte found in process blank above the MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
**** QC Results *****

09/12/95 : Analyzed
m091295a : File

Analyte ↓	Average A1 & A2 ug/mL	20% RPD	Flg	Samp Log# >>> / Spk Dil Fctr >> / Sam Dil Fctr >> / ICP Dil >>> PreSpk STD ug/mL	Seg 2 95-07932-A4 Smp+Spk 100.00 125.00 10.00 Spk Conc in Sam/Blk ug/mL	Net Spk Conc ug/mL	Rec	Spk Flg	95-07932-A5 Blk Spk 100.00 1.00 Net Blk Spk Cntrl ug/mL	Rec	10% Spk Flg	Post Spk PostSpk STD ug/mL	Post Spike ug/mL	Rec	Spk Flg
Ag	---														
Al	35,192	1%		1000	10.000	12.93	129.3%	N	8.619	86.2%	N				
As	---														
B	42	6%													
Ba	---														
Be	---														
Bi	---														
Ca	---			500	5.000	5.92	118.5%	N	4.236	84.7%					
Cd	---			25	0.250	0.24	95.4%		0.207	82.6%					
Ce	---														
Co	---														
Cr	279	1%		150	1.500	1.38	92.0%		1.314	87.6%					
Cu	---														
Dy	---														
Eu	---														
Fe	118	1%													
K	2,635	2%		2000	20.000	20.69	103.4%		16.984	84.9%					
La	---														
Li	---														
Mg	---														
Mn	---			10	0.100	0.09	94.4%		0.088	87.7%					
Mo	---														
Na	194,845	7%													
Nd	---														
Ni	308	1%		500	5.000	4.70	94.1%		4.539	90.8%					
P	465	1%													
Pb	91	1%		500	5.000	4.92	98.5%		4.373	87.5%					
Pd	---														
Rh	---														
Sb	---														
Se	---														
Si	---			1000	10.000	10.53	105.3%		9.833	98.3%					
Sn	---														
Sr	---														
Te	---														
Th	---														
Ti	---														
Tl	---														
U	---			2000	20.000	19.64	98.2%		17.555	87.8%					
V	---														
W	---														
Y	---														
Zn	---														
Zr	---			50	0.500	0.41	n/a		0.438	87.6%					

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Above 5 times MDL, precision is estimated at +/-10% and accuracy at +/-15%.
3) Where "Blank" results are >IDL the blank has been subtracted from the "Spike Control".
4) Spike Flag (N) indicates spike is outside the QC recovery criteria.
5) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
6) If spike is <25% of sample concentration, Rec is not calculated as indicated by the "n/a".
7) If sample or duplicate results are <MDL then average is not calculated (i.e., "---").

Template: TC-LAD.WK3 ICP RAW DATA --- IEC Corrected File: m091295a
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211

Analyst: D SAUDERS Reviewer: MW Thu 9/20/95

Sample ID:	A1 Sam 95-07932-	A1 SamDil 95-07932-	A2 Dup 95-07932-	A2 DupDil 95-07932-	A3 Blank 95-07932-	A4 Smp+Spk 95-07932-	A5 Blk Spk 95-07932-	Post Spk
ICP Dil:	10.00	50.00	10.00	50.00	1.00	10.00	1.00	
Run Time:	11:07	11:03	11:22	11:18	10:13	10:24	10:43	
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0021	-0.0020	0.0036	0.0002	-0.0012	0.0027	-0.0101	
Al	283.6347	57.8226	279.4312	55.4668	0.1267	284.9276	8.7455	
As	0.2428	0.0432	0.2598	0.0579	0.0087	0.2380	0.0029	
B	0.3431	0.0692	0.3233	0.0650	1.5837	0.3767	1.9268	
Ba	0.0010	-0.0002	0.0012	0.0003	0.0019	0.0013	0.0005	
Be	0.0024	0.0004	0.0024	0.0004	-0.0001	0.0025	-0.0001	
Bi	0.0415	0.0015	0.0439	0.0090	-0.0012	0.0408	-0.0180	
Ca	0.0035	-0.0280	0.0039	-0.0231	0.0126	0.5924	4.2357	
Cd	0.0007	-0.0010	-0.0007	-0.0001	-0.0013	0.0238	0.2066	
Ce	0.0072	-0.0107	0.0142	0.0008	-0.0106	0.0156	-0.0630	
Co	0.0703	0.0127	0.0711	0.0151	0.0005	0.0690	-0.0066	
Cr	2.2384	0.4563	2.2179	0.4438	0.0016	2.3764	1.3135	
Cu	0.0282	0.0010	0.0281	0.0025	-0.0020	0.0266	-0.0081	
Dy	0.0010	-0.0014	0.0024	0.0009	-0.0026	0.0006	-0.0139	
Eu	0.0009	-0.0003	0.0013	0.0004	-0.0006	0.0007	-0.0033	
Fe	0.9478	0.1971	0.9398	0.1922	0.0194	0.9499	0.0195	
K	21.2455	4.3461	20.9129	4.3404	-0.6821	23.3143	16.9840	
La	0.0044	-0.0020	0.0069	0.0019	-0.0029	0.0048	-0.0151	
Li	0.0086	0.0013	0.0098	0.0025	0.0001	0.0102	-0.0051	
Mg	0.0065	-0.0058	0.0112	0.0029	0.0060	0.0167	0.0654	
Mn	0.0022	0.0000	0.0024	0.0001	-0.0003	0.0117	0.0877	
Mo	0.1126	0.0217	0.1132	0.0229	0.0009	0.1141	-0.0062	
Na	1423.8091	322.6358	1398.4801	300.8676	1.9181	1429.4225	17.8419	
Nd	0.0057	-0.0114	0.0120	0.0013	-0.0150	0.0058	-0.0715	
Ni	2.4772	0.5109	2.4505	0.5025	0.0176	2.9476	4.5386	
P	3.7379	0.7303	3.6951	0.7253	0.0059	3.7179	-0.0312	
Pb	0.7248	0.1209	0.7296	0.1382	0.0003	1.2172	4.3727	
Pd	0.0387	-0.0071	0.0630	0.0310	-0.0267	0.0367	-0.3072	
Rh	0.0288	-0.0052	0.0402	0.0090	-0.0169	0.0282	-0.1052	
Sb	-0.0411	-0.0073	-0.0224	0.0008	0.0099	-0.0364	-0.0316	
Se	-0.0176	-0.0040	-0.0122	-0.0050	-0.0022	-0.0138	-0.0302	
Si	0.4542	0.0625	0.4451	0.0701	1.9945	1.5077	11.8280	
Sn	0.1584	-0.0226	0.1532	0.0134	-0.0360	0.1410	-0.2306	
Sr	0.0023	0.0006	0.0023	0.0008	0.0004	0.0024	-0.0002	
Te	-0.0453	-0.0255	-0.0339	-0.0090	0.0030	-0.0447	-0.0422	
Th	-0.0003	-0.0107	-0.0035	-0.0057	0.0016	0.0166	0.1962	
Ti	0.0005	-0.0008	0.0010	0.0000	0.0020	0.0005	-0.0007	
Tl	0.6049	0.1151	0.6021	0.1236	0.0083	0.6071	0.0213	
U	0.1054	-0.1631	0.2309	0.0610	-0.2183	1.9636	17.5554	
V	0.0006	-0.0017	0.0019	-0.0001	-0.0014	0.0006	-0.0086	
W	0.5039	0.0941	0.5000	0.1021	-0.0040	0.5232	-0.0161	
Y	0.0003	-0.0008	0.0009	-0.0001	-0.0010	0.0003	-0.0034	
Zn	0.0548	0.0101	0.0543	0.0104	0.0085	0.0564	-0.0021	
Zr	0.0015	-0.0002	0.0021	0.0003	-0.0005	0.0421	0.4378	

Analyze Date: 09/12/95 | File: m091295a
Project: TWRS | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP Run File: 95D255a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# / ID	95-07932-A1 Sam	95-07932-A1 SamDil	95-07932-A2 Dup	95-07932-A2 DupDil	95-07932-A3 Blank	95-07932-A4 Smp+Spk	95-07932-A5 Blk Spk	Post Spk
Sample Vol-mL	2.00	2.00	2.00	2.00	2.00	2.00		
Final Vol-mL	25.00	25.00	25.00	25.00	25.00	25.00	25.00	
Prep Factor	12.50	12.50	12.50	12.50	12.50	12.50		
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Spike Vol-mL						0.250	0.250	
Spike Dilution						100.0	100.0	
Spike ID Date						950830H901		
PSpk Dilution								
ICP Dilution	10.00	50.00	10.00	50.00	1.00	10.00	1.00	
Dil Factor	125.00	625.00	125.00	625.00	12.50	125.00	100.0	
Run Time	11:07	11:03	11:22	11:18	10:13	10:24	10:43	
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.264	-1.275	0.449	0.131	-0.015	0.339	-1.008	
Al	35454.338	36139.131	34928.894	34666.731	1.584	35615.951	874.555	
As	30.347	27.000	32.474	36.212	0.109	29.750	0.289	
B	42.881	43.238	40.411	40.637	19.796	47.094	192.683	
Ba	0.119	-0.094	0.148	0.194	0.023	0.158	0.049	
Be	0.302	0.250	0.302	0.269	-0.001	0.307	-0.006	
Bi	5.189	0.950	5.489	5.613	-0.015	5.097	-1.804	
Ca	0.432	-17.519	0.486	-14.444	0.157	74.046	423.570	
Cd	0.092	-0.638	-0.091	-0.056	-0.016	2.980	20.655	
Ce	0.894	-6.681	1.772	0.487	-0.132	1.949	-6.299	
Co	8.791	7.919	8.890	9.450	0.006	8.629	-0.657	
Cr	279.796	285.181	277.235	277.394	0.020	297.051	131.353	
Cu	3.521	0.631	3.515	1.575	-0.025	3.330	-0.814	
Dy	0.126	-0.862	0.305	0.575	-0.033	0.071	-1.385	
Eu	0.107	-0.188	0.156	0.231	-0.007	0.085	-0.334	
Fe	118.472	123.169	117.471	120.125	0.243	118.734	1.952	
K	2655.691	2716.287	2614.119	2712.762	-8.526	2914.285	1698.402	
La	0.551	-1.244	0.861	1.200	-0.036	0.596	-1.512	
Li	1.075	0.825	1.224	1.569	0.001	1.275	-0.511	
Mg	0.814	-3.637	1.395	1.819	0.075	2.090	6.541	
Mn	0.279	0.025	0.304	0.063	-0.004	1.459	8.766	
Mo	14.071	13.563	14.146	14.300	0.011	14.266	-0.622	
Na	177976.135	201647.356	174810.012	188042.256	23.977	178677.810	1784.186	
Nd	0.711	-7.100	1.496	0.838	-0.187	0.721	-7.152	
Ni	309.646	319.294	306.315	314.087	0.220	368.451	453.858	
P	467.239	456.419	461.881	453.325	0.074	464.739	-3.115	
Pb	90.603	75.556	91.194	86.400	0.004	152.152	437.271	
Pd	4.842	-4.425	7.876	19.369	-0.333	4.591	-30.723	
Rh	3.594	-3.256	5.026	5.606	-0.211	3.525	-10.521	
Sb	-5.136	-4.544	-2.795	0.500	0.123	-4.554	-3.157	
Se	-2.197	-2.481	-1.530	-3.150	-0.027	-1.726	-3.022	
Si	56.779	39.069	55.641	43.813	24.931	188.463	1182.796	
Sn	19.796	-14.144	19.148	8.362	-0.450	17.621	-23.063	
Sr	0.284	0.369	0.291	0.475	0.005	0.294	-0.024	
Te	-5.665	-15.938	-4.238	-5.644	0.037	-5.590	-4.220	
Th	-0.035	-6.694	-0.431	-3.550	0.020	2.080	19.618	
Ti	0.056	-0.481	0.125	0.000	0.025	0.068	-0.071	
Tl	75.619	71.937	75.269	77.262	0.104	75.883	2.126	
U	13.180	-101.956	28.866	38.119	-2.729	245.445	1755.540	
V	0.069	-1.088	0.231	-0.031	-0.017	0.077	-0.857	
W	62.986	58.838	62.495	63.813	-0.049	65.395	-1.606	
Y	0.041	-0.500	0.107	-0.081	-0.012	0.041	-0.340	
Zn	6.855	6.313	6.789	6.481	0.106	7.046	-0.208	
Zr	0.189	-0.119	0.259	0.188	-0.007	5.258	43.782	

|<ICP Dil>|
|<-----Adjusted for process dilution factor-----<Only>|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Acid Digestion **
Core 99 Drainable Liquids

Analyze Date: 09/12/95
File: m091295b
Report Page 1 of 1

Samp Log#:	Seg 3 95-07935- A1 Sam	95-07935- A1 SamDil		Seg 3 95-07935- A2 Dup	95-07935- A2 DupDil			**Estimated** IDL	MDL
Dil Fctr:	125.00	625.00		125.00	625.00				
ICP Dil:	10.00	50.00		10.00	50.00				
	<---------Sample--------->			<---------Duplicate--------->			20%		
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	RPD Flg	ug/mL	ug/mL
Ag	ND	ND		ND	ND			0.015	0.1500
Al	37,441	37,802	1%	37,429	38,529	3%	0%	0.060	0.6000
As	(34)	ND		(32)	ND			0.080	0.8000
B	44	(46)		45	(49)		0%	0.020	0.2000
Ba	ND	ND		ND	ND			0.010	0.1000
Be	ND	ND		ND	ND			0.005	0.0500
Bi	ND	ND		ND	ND			0.100	1.0000
Ca	ND	ND		ND	ND			0.050	0.5000
Cd	ND	ND		ND	ND			0.015	0.1500
Ce	ND	ND		ND	ND			0.100	1.0000
Co	(9)	(9)		(9)	(9)			0.010	0.1000
Cr	294	304	3%	291	300	3%	1%	0.020	0.2000
Cu	(10)	(8)		(10)	(8)			0.010	0.1000
Dy	ND	ND		ND	ND			0.050	0.5000
Eu	ND	ND		ND	ND			0.100	1.0000
Fe	97	(101)		104	(109)		7%	0.020	0.2000
K	2,780	(2,787)		2,811	(2,836)		1%	2.000	20.0000
La	ND	ND		ND	ND			0.050	0.5000
Li	ND	ND		ND	ND			0.030	0.3000
Mg	ND	ND		ND	ND			0.100	1.0000
Mn	ND	ND		ND	ND			0.005	0.0500
Mo	(15)	ND		(15)	ND			0.030	0.3000
Na	OvrRng	185,321		OvrRng	194,961		5%	0.080	0.8000
Nd	ND	ND		ND	ND			0.050	0.5000
Ni	238	247	4%	243	256	5%	2%	0.030	0.3000
P	452	(453)		457	(454)		1%	0.100	1.0000
Pb	100	(99)		97	(88)		2%	0.060	0.6000
Pd	ND	ND		ND	ND			0.300	3.0000
Rh	ND	ND		ND	ND			0.300	3.0000
Sb	ND	ND		ND	ND			0.050	0.5000
Se	ND	ND		ND	ND			0.100	1.0000
Si	(108)	ND		(119)	ND			0.500	5.0000
Sn	ND	ND		ND	ND			1.000	10.0000
Sr	(2)	ND		(5)	(5)			0.005	0.0500
Te	ND	ND		ND	ND			0.500	5.0000
Th	ND	ND		ND	ND			0.800	8.0000
Ti	ND	ND		ND	ND			0.005	0.0500
Tl	(77)	ND		(77)	ND			0.500	5.0000
U	ND	ND		ND	ND			2.000	20.0000
V	ND	ND		ND	ND			0.010	0.1000
W	776	(780)		772	(777)		1%	0.500	5.0000
Y	ND	ND		ND	ND			0.010	0.1000
Zn	(12)	ND		(12)	ND			0.020	0.2000
Zr	ND	ND		ND	ND			0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", then RPD >20% AND both sample and duplicate results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/ 95D255a

Analyze Date: 09/12/95 | File: m091295b
Project: TWRS | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP Run File: 95D255a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# ID	95-07935-A1 Sam	95-07935-A1 SamDil	95-07935-A2 Dup	95-07935-A2 DupDil				Post Spk
Sample Vol-mL	2.00	2.00	2.00	2.00				
Final Vol-mL	25.00	25.00	25.00	25.00				
Prep Factor	12.50	12.50	12.50	12.50				
Add'n Prep Dil	1.00	1.00	1.00	1.00				
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	10.00	50.00	10.00	50.00				
Dil Factor	125.00	625.00	125.00	625.00				
Run Time	11:34	11:30	12:01	11:57				
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.642	-0.794	-0.668	-2.013				
Al	37441.001	37802.419	37429.069	38528.969				
As	33.904	39.313	32.468	27.131				
B	44.395	46.481	44.576	48.506				
Ba	0.178	0.294	0.306	0.269				
Be	0.327	0.294	0.320	0.275				
Bi	5.371	7.363	4.410	7.656				
Ca	3.184	-11.581	2.799	-15.031				
Cd	-0.263	-0.813	0.038	-0.344				
Ce	2.682	3.319	2.406	-4.650				
Co	8.815	9.237	8.865	8.950				
Cr	293.886	303.569	290.969	300.081				
Cu	9.645	7.800	9.930	8.431				
Dy	0.449	0.700	0.411	-0.225				
Eu	0.184	0.294	0.181	0.050				
Fe	97.076	101.175	103.794	109.362				
K	2779.702	2786.744	2810.706	2836.069				
La	1.100	1.688	1.111	0.194				
Li	0.984	1.788	1.417	1.044				
Mg	4.161	5.756	3.104	1.056				
Mn	0.365	0.206	0.467	0.269				
Mo	15.184	15.900	14.857	15.200				
Na	173341.017	185321.269	173968.505	194960.687				
Nd	2.356	3.287	2.360	-3.269				
Ni	238.321	247.450	243.264	256.394				
P	451.788	452.881	456.930	453.719				
Pb	99.541	99.069	97.175	87.913				
Pd	10.700	18.556	10.372	3.300				
Rh	5.970	10.487	5.622	1.200				
Sb	-3.340	6.787	-5.015	-4.925				
Se	-1.225	4.087	-1.053	1.612				
Si	107.500	95.781	118.890	136.806				
Sn	19.705	30.150	16.629	-24.250				
Sr	1.719	1.919	4.760	5.031				
Te	-4.145	-5.500	-4.362	-11.969				
Th	0.166	0.019	0.369	1.375				
Ti	0.188	0.156	0.194	-0.188				
Tl	77.359	80.869	77.276	85.675				
U	43.601	47.369	51.080	-17.669				
V	0.251	0.069	0.243	-0.512				
W	775.961	779.750	771.985	776.837				
Y	0.136	0.094	0.120	-0.169				
Zn	11.545	11.650	11.553	12.013				
Zr	0.305	0.063	0.419	-0.200				

|<ICP Dil> < Only >|

Template: TC-LAD.WK3 ICP RAW DATA --- IEC Corrected File: m091295b
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211

Analyst: D SANDERS Reviewer: MW Thru 9/20/95

Sample ID:	A1 Sam 95-07935-	A1 SamDil 95-07935-	A2 Dup 95-07935-	A2 DupDil 95-07935-				Post Spk
ICP Dil:	10.00	50.00	10.00	50.00				
Run Time:	11:34	11:30	12:01	11:57				
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0051	-0.0013	-0.0053	-0.0032				
Al	299.5280	60.4839	299.4325	61.6463				
As	0.2712	0.0629	0.2597	0.0434				
B	0.3552	0.0744	0.3566	0.0776				
Ba	0.0014	0.0005	0.0025	0.0004				
Be	0.0026	0.0005	0.0026	0.0004				
Bi	0.0430	0.0118	0.0353	0.0123				
Ca	0.0255	-0.0185	0.0224	-0.0241				
Cd	-0.0021	-0.0013	0.0003	-0.0006				
Ce	0.0215	0.0053	0.0192	-0.0074				
Co	0.0705	0.0148	0.0709	0.0143				
Cr	2.3511	0.4857	2.3277	0.4801				
Cu	0.0772	0.0125	0.0794	0.0135				
Dy	0.0036	0.0011	0.0033	-0.0004				
Eu	0.0015	0.0005	0.0015	0.0001				
Fe	0.7766	0.1619	0.8304	0.1750				
K	22.2376	4.4588	22.4856	4.5377				
La	0.0088	0.0027	0.0089	0.0003				
Li	0.0079	0.0029	0.0113	0.0017				
Mg	0.0333	0.0092	0.0248	0.0017				
Mn	0.0029	0.0003	0.0037	0.0004				
Mo	0.1215	0.0254	0.1189	0.0243				
Na	1386.7281	296.5140	1391.7480	311.9371				
Nd	0.0189	0.0053	0.0189	-0.0052				
Ni	1.9066	0.3959	1.9461	0.4102				
P	3.6143	0.7246	3.6554	0.7259				
Pb	0.7963	0.1585	0.7774	0.1407				
Pd	0.0856	0.0297	0.0830	0.0053				
Rh	0.0478	0.0168	0.0450	0.0019				
Sb	-0.0267	0.0109	-0.0401	-0.0079				
Se	-0.0098	0.0065	-0.0084	0.0026				
Si	0.8600	0.1532	0.9511	0.2189				
Sn	0.1576	0.0482	0.1330	-0.0388				
Sr	0.0138	0.0031	0.0381	0.0081				
Te	-0.0332	-0.0088	-0.0349	-0.0192				
Th	0.0013	0.0000	0.0030	0.0022				
Ti	0.0015	0.0003	0.0015	-0.0003				
Tl	0.6189	0.1294	0.6182	0.1371				
U	0.3488	0.0758	0.4086	-0.0283				
V	0.0020	0.0001	0.0019	-0.0008				
W	6.2077	1.2476	6.1759	1.2429				
Y	0.0011	0.0002	0.0010	-0.0003				
Zn	0.0924	0.0186	0.0924	0.0192				
Zr	0.0024	0.0001	0.0034	-0.0003				

Project: TWRS
Procedure: PNL-AL0-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

Core 99

File: m091295c
Analyzed: 09/12/95

	Seg 1		Seg 1	Seg 2D	Seg 3A		Seg 1
Sam Log#:	95-07941-		95-07941-	95-07943-	95-07944-	95-07941-	95-07941-
Split#:	N1-Smp		N2-Dup	N1-Smp	N1-Smp	N3-Blk	N1-Smp-PS
ICP Dil:	2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr:	1511.7	7558.6	2114.2	886.5	1506.0	1366.8	3779.3
Run Time:	15:39	15:35	15:59	16:10	17:10	15:30	15:45

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Duplicate ug/g	RPD	Sample ug/g	Sample ug/g	Batch Blk ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND		ND	ND	ND	(0.08)	
0.060	Al	104,424	115,669	11	135,410	26 *	60,889	25,702	(123)	33.00	66.0%
0.080	As	(167)	ND		(256)		(112)	ND	ND	(0.22)	
0.020	B	694	(779)		1,038	40 *	(147)	635	417	0.03	
0.010	Ba	(15)	ND		(23)		(13)	(17)	ND	ND	
0.005	Be	ND	ND		ND		ND	ND	ND	ND	
0.100	Bi	ND	ND		ND		ND	ND	ND	ND	
0.050	Ca	3,071	(3,150)		3,978	26 *	1,759	3,257	2,665	20.45	81.8%
0.015	Cd	ND	ND		ND		ND	ND	ND	1.09	87.5%
0.100	Ce	ND	ND		ND		ND	ND	ND	(0.59)	
0.010	Co	(20)	ND		(35)		(19)	(22)	ND	(0.05)	
0.020	Cr	(127)	ND		(169)		(176)	(154)	(35)	6.30	84.0%
0.010	Cu	(90)	(83)		(43)		(20)	(32)	(16)	(0.00)	
0.050	Dy	ND	ND		ND		ND	ND	ND	ND	
0.100	Eu	ND	ND		ND		ND	ND	ND	ND	
0.020	Fe	1,028	(1,190)		1,411	31 *	544	1,247	(195)	0.03	
2.000	K	(4,498)	ND		(8,232)		(4,416)	(3,879)	ND	(87.97)	88.0%
0.050	La	ND	ND		ND		ND	ND	ND	ND	
0.030	Li	(52)	ND		(80)		(60)	(48)	ND	ND	
0.100	Mg	(186)	ND		(313)		(128)	ND	ND	(0.79)	
0.005	Mn	(24)	ND		(29)		(13)	(15)	ND	0.42	83.7%
0.030	Mo	ND	ND		ND		ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a		n/a	n/a	n/a	n/a	
0.050	Nd	(125)	ND		(232)		(108)	(127)	(88)	(0.32)	
0.030	Ni	473	(530)		674	35 *	532	836	(314)	21.52	86.1%
0.100	P	3,821	(4,259)		(715)		(233)	(490)	ND	0.04	
0.060	Pb	(232)	ND		(345)		(177)	(177)	(85)	22.63	90.5%
0.300	Pd	ND	ND		ND		ND	ND	ND	ND	
0.300	Rh	ND	ND		ND		ND	ND	ND	ND	
0.050	Sb	ND	ND		(111)		(58)	ND	ND	ND	
0.100	Se	ND	ND		ND		ND	ND	ND	ND	
0.500	Si	(2,650)	ND		(4,150)		(1,127)	(1,086)	ND	41.99	84.0%
1.000	Sn	ND	ND		ND		ND	ND	ND	ND	
0.005	Sr	(58)	(67)		(70)		(35)	310	(41)	(0.00)	
0.500	Te	ND	ND		ND		ND	ND	ND	ND	
0.800	Th	ND	ND		ND		ND	ND	ND	ND	
0.005	Ti	(45)	(56)		(70)		(22)	(20)	(10)	(0.03)	
0.500	Tl	ND	ND		ND		ND	ND	ND	ND	
2.000	U	ND	ND		ND		ND	ND	ND	(85.86)	85.9%
0.010	V	(57)	(79)		(55)		(15)	(19)	ND	(0.05)	
0.500	W	ND	ND		ND		ND	ND	ND	ND	
0.010	Y	ND	ND		ND		ND	ND	ND	ND	
0.020	Zn	(42)	ND		(50)		(32)	(69)	ND	ND	
0.010	Zr	n/a	n/a		n/a		n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Analyzed Date: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D255a

File: m091295c
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07941-N1-Smp	95-07941-N1-SmpDil	95-07941-N2-Dup	95-07943-N1-Smp	95-07944-N1-Smp	95-07941-N3-Blk	95-07941-N1-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1323	0.1323	0.0946	0.2256	0.1328	0.1463	0.1323
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL								
Dil: Vol-mL								
Prep Factor		755.86	755.86	1057.08	443.26	753.01	683.41	755.86
Spike ID								950830H901
Spike PreDil'n								20.0
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr		1511.7	7558.6	2114.2	886.5	1506.0	1366.8	3779.3
Run Time		15:39	15:35	15:59	16:10	17:10	15:30	15:45
ug/g	Ag	17.8	39.4	23.8	7.9	8.8	-22.7	63.5
	Al	104423.7	115669.2	135410.4	60889.3	25702.0	123.0	129366.2
	As	167.1	184.4	256.2	112.1	79.0	29.4	334.1
	B	693.7	778.5	1038.0	146.8	634.8	416.7	673.9
	Ba	15.4	21.4	23.1	13.4	16.7	8.3	24.6
	Be	0.7	1.1	1.1	0.6	0.4	0.5	2.5
	Bi	60.0	61.5	110.7	60.2	58.0	48.2	186.1
	Ca	3070.6	3150.1	3977.7	1758.6	3256.7	2665.2	18524.3
	Cd	7.4	9.4	9.7	5.6	5.3	5.3	826.6
	Ce	148.6	283.7	98.9	-8.8	27.9	-427.2	448.5
	Co	20.0	34.0	34.5	19.2	21.5	11.9	60.1
	Cr	127.2	147.5	169.2	176.0	154.2	35.1	4888.5
	Cu	90.1	82.9	42.8	20.1	31.9	16.3	93.6
	Dy	18.5	38.1	36.9	18.3	15.7	17.2	54.3
	Eu	5.9	12.4	12.2	5.9	5.2	6.4	18.9
	Fe	1028.3	1190.5	1411.1	544.0	1246.9	195.1	1053.6
	K	4498.3	8126.8	8232.3	4415.5	3878.6	2406.9	70989.0
	La	36.4	63.9	64.1	30.1	30.1	20.9	115.2
	Li	51.7	74.9	80.0	59.8	48.0	20.0	86.8
	Mg	186.3	249.5	313.2	127.7	119.5	82.6	781.3
	Mn	23.9	28.0	28.8	12.7	15.4	6.1	340.4
	Mo	24.4	29.3	37.8	19.0	26.5	9.7	40.5
	Na	5990950.4	8561192.4	8094269.2	3386285.7	6520463.7	5721492.3	7001633.9
	Nd	124.6	234.2	232.5	108.3	127.3	87.7	367.2
	Ni	472.7	529.9	674.4	532.2	835.9	314.3	16742.2
	P	3821.3	4259.0	714.9	232.9	489.6	104.1	3849.3
	Pb	231.8	333.6	344.9	176.6	177.4	85.1	17336.9
	Pd	327.2	662.1	583.6	259.8	225.9	32.6	612.8
	Rh	152.6	331.0	285.8	129.0	116.0	68.9	472.5
	Sb	71.6	122.8	111.0	58.4	59.2	54.4	170.3
	Se	72.3	43.5	154.1	66.6	79.4	61.8	239.0
	Si	2649.9	2827.8	4149.7	1127.0	1086.0	197.5	34391.5
	Sn	476.8	1101.4	903.4	434.6	315.4	350.9	1775.8
	Sr	57.8	66.7	70.3	35.0	309.8	41.2	59.1
	Te	70.6	160.6	151.5	63.6	60.6	36.5	234.7
	Th	4.2	-15.0	69.6	55.4	48.6	197.5	912.5
	Ti	44.6	55.9	69.7	22.2	20.0	9.7	64.3
	Tl	255.4	282.9	351.9	163.3	92.6	34.1	418.9
	U	2040.1	4117.5	3333.3	1509.0	1861.6	53.3	64895.5
	V	56.8	79.2	54.8	14.8	19.0	10.1	93.3
	W	63.4	151.0	82.7	44.8	69.0	39.7	184.8
	Y	7.3	14.6	14.4	7.0	7.2	6.4	27.9
	Zn	42.2	44.2	49.9	32.4	69.0	14.0	36.7
ug/g	Zr	317.7	382.5	10600.6	8360.7	5421.6	31411.1	1824.9

Template: TC-NA202 ICP RAW DATA -- IEC Corrected File: m091295c
Reported: 09/15/95

Raw Data
Data Page 2 of 2

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D. SANDERS Reviewer: MW Thu 9/20/95

Sample ID: / Split ID:		95-07941-N1-Smp	95-07941-N1-SmpDil	95-07941-N2-Dup	95-07943-N1-Smp	95-07944-N1-Smp	95-07941-N3-Blk	95-07941-N1-Smp-PS	Post Spk Conc ug/mL
Run Time:		15:39	15:35	15:59	16:10	17:10	15:30	15:45	
(ug/mL)	Ag	0.0118	0.0052	0.0113	0.0089	0.0059	-0.0166	0.0168	
	Al	69.0763	15.3030	64.0491	68.6832	17.0662	0.0900	34.2303	1000
	As	0.1105	0.0244	0.1212	0.1264	0.0525	0.0215	0.0884	
	B	0.4589	0.1030	0.4910	0.1656	0.4215	0.3049	0.1783	
	Ba	0.0102	0.0028	0.0109	0.0151	0.0111	0.0061	0.0065	
	Be	0.0004	0.0001	0.0005	0.0007	0.0003	0.0004	0.0007	
	Bi	0.0397	0.0081	0.0524	0.0679	0.0385	0.0353	0.0493	
	Ca	2.0312	0.4168	1.8815	1.9837	2.1624	1.9500	4.9015	500
	Cd	0.0049	0.0013	0.0046	0.0063	0.0035	0.0039	0.2187	25
	Ce	0.0983	0.0375	0.0468	-0.0100	0.0185	-0.3126	0.1187	
	Co	0.0132	0.0045	0.0163	0.0217	0.0143	0.0087	0.0159	
	Cr	0.0842	0.0195	0.0801	0.1985	0.1024	0.0257	1.2935	150
	Cu	0.0596	0.0110	0.0203	0.0226	0.0212	0.0119	0.0248	
	Dy	0.0122	0.0050	0.0175	0.0206	0.0104	0.0126	0.0144	
	Eu	0.0039	0.0016	0.0058	0.0066	0.0035	0.0047	0.0050	
	Fe	0.6802	0.1575	0.6675	0.6137	0.8280	0.1427	0.2788	
	K	2.9756	1.0752	3.8939	4.9807	2.5754	1.7610	18.7837	2000
	La	0.0241	0.0085	0.0303	0.0339	0.0200	0.0153	0.0305	
	Li	0.0342	0.0099	0.0379	0.0674	0.0319	0.0146	0.0230	
	Mg	0.1232	0.0330	0.1481	0.1440	0.0794	0.0604	0.2067	
	Mn	0.0158	0.0037	0.0136	0.0143	0.0102	0.0045	0.0901	10
	Mo	0.0161	0.0039	0.0179	0.0214	0.0176	0.0071	0.0107	
	Na	3963.0137	1132.6457	3828.5894	3819.7302	4329.5879	4185.9868	1852.6323	
	Nd	0.0824	0.0310	0.1100	0.1222	0.0846	0.0641	0.0972	
	Ni	0.3127	0.0701	0.3190	0.6003	0.5550	0.2299	4.4300	500
	P	2.5278	0.5635	0.3381	0.2627	0.3251	0.0762	1.0185	
	Pb	0.1533	0.0441	0.1631	0.1992	0.1178	0.0623	4.5873	500
	Pd	0.2165	0.0876	0.2761	0.2931	0.1500	0.0238	0.1621	
	Rh	0.1010	0.0438	0.1352	0.1455	0.0771	0.0504	0.1250	
	Sb	0.0473	0.0162	0.0525	0.0659	0.0393	0.0398	0.0451	
	Se	0.0479	0.0058	0.0729	0.0751	0.0528	0.0452	0.0633	
	Si	1.7529	0.3741	1.9628	1.2712	0.7211	0.1445	9.1000	1000
	Sn	0.3154	0.1457	0.4273	0.4903	0.2094	0.2567	0.4699	
	Sr	0.0383	0.0088	0.0332	0.0395	0.2057	0.0301	0.0156	
	Te	0.0467	0.0213	0.0717	0.0717	0.0402	0.0267	0.0621	
	Th	0.0028	-0.0020	0.0329	0.0624	0.0323	0.1445	0.2414	
	Ti	0.0295	0.0074	0.0330	0.0251	0.0133	0.0071	0.0170	
	Tl	0.1690	0.0374	0.1665	0.1842	0.0615	0.0249	0.1109	
	U	1.3495	0.5447	1.5767	1.7022	1.2361	0.0390	17.1713	2000
	V	0.0376	0.0105	0.0259	0.0168	0.0126	0.0074	0.0247	
	W	0.0419	0.0200	0.0391	0.0505	0.0458	0.0291	0.0489	
	Y	0.0049	0.0019	0.0068	0.0079	0.0048	0.0047	0.0074	
	Zn	0.0279	0.0059	0.0236	0.0366	0.0458	0.0102	0.0097	
(ug/mL)	Zr	0.2101	0.0506	5.0141	9.4309	3.6000	22.9812	0.4829	50

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

File: m091295d
Analyzed: 09/12/95

Core 99

	Seg 4A		Seg 4B	Seg 4C	Seg 4D		Seg 4A	
Sam Log#:	95-07945-		95-07946-	95-07947-	95-07948-	95-07941-	95-07945-	
Split#:	N1-Smp		N1-Smp	N1-Smp	N1-Smp	N3-Blk	N1-Smp-PS	
ICP Dil:	2.00	10.00	2.00	2.00	2.00	2.00	5.00	
Dil Fctr:	1926.8	9633.9	1857.0	1912.0	1816.5	1877.1	4817.0	
Run Time:	17:19	17:15	17:30	17:39	18:02	15:30	17:22	

Est. IDL ug/mL	Analyte	Sample ug/g	Dilution ug/g	%D	Sample ug/g	Sample ug/g	Sample ug/g	Batch Blk ug/g	Met PSpk ug/mL	Post Spk Recovery
0.015	Ag	ND	ND		ND	ND	ND	ND	ND	
0.060	Al	15,478	16,543	7	11,193	7,430	8,166	(169)	45.50	91.0%
0.080	As	ND	ND		ND	ND	ND	ND	ND	
0.020	B	404	(475)		433	(254)	397	572	(0.03)	
0.010	Ba	285	(321)		556	(99)	(115)	ND	(0.02)	
0.005	Be	ND	ND		ND	ND	ND	ND	ND	
0.100	Bi	(1,378)	(1,428)		2,823	(933)	(1,075)	ND	(0.10)	
0.050	Ca	16,028	16,885	5	15,459	20,636	11,455	3,660	23.71	94.8%
0.015	Cd	ND	ND		ND	ND	ND	ND	1.20	96.2%
0.100	Ce	ND	ND		ND	ND	ND	ND	ND	
0.010	Co	(41)	ND		(38)	(34)	(37)	ND	(0.02)	
0.020	Cr	619	(664)		479	(97)	(109)	(48)	7.22	96.2%
0.010	Cu	(36)	ND		(31)	(66)	(105)	(22)	ND	
0.050	Dy	ND	ND		ND	ND	ND	ND	ND	
0.100	Eu	ND	ND		ND	ND	ND	ND	ND	
0.020	Fe	20,151	22,079	10	27,212	34,805	41,981	(268)	1.15	
2.000	K	(4,826)	ND		(4,904)	(4,549)	(4,777)	ND	(87.50)	87.5%
0.050	La	ND	ND		ND	ND	ND	ND	ND	
0.030	Li	ND	ND		ND	ND	ND	ND	ND	
0.100	Mg	(1,480)	(1,664)		(1,459)	(1,280)	(1,374)	ND	(0.69)	
0.005	Mn	300	(330)		328	366	498	ND	0.49	97.8%
0.030	Mo	ND	ND		ND	ND	ND	ND	ND	
0.080	Na	n/a	n/a		n/a	n/a	n/a	n/a	n/a	
0.050	Nd	(145)	ND		(161)	(174)	(199)	(120)	ND	
0.030	Ni	14,673	16,121	10	16,741	6,710	7,209	(432)	25.37	101.5%
0.100	P	(625)	ND		3,840	(1,605)	(1,437)	ND	(0.25)	
0.060	Pb	(1,154)	(1,370)		(995)	(1,144)	2,856	(117)	25.11	100.5%
0.300	Pd	ND	ND		ND	ND	ND	ND	ND	
0.300	Rh	ND	ND		ND	ND	ND	ND	ND	
0.050	Sb	ND	ND		ND	ND	ND	ND	ND	
0.100	Se	ND	ND		ND	ND	ND	ND	ND	
0.500	Si	(2,720)	ND		(2,287)	(1,554)	(1,784)	ND	48.66	97.3%
1.000	Sn	ND	ND		ND	ND	ND	ND	ND	
0.005	Sr	13,885	15,346	11	25,031	1,260	1,468	(57)	1.04	
0.500	Te	ND	ND		ND	ND	ND	ND	ND	
0.800	Th	ND	ND		ND	ND	ND	ND	ND	
0.005	Ti	(41)	(50)		(46)	(34)	(40)	(13)	(0.01)	
0.500	Tl	ND	ND		ND	ND	ND	ND	ND	
2.000	U	(33,219)	(38,672)		54,717	46,937	50,669	ND	97.64	97.6%
0.010	V	ND	ND		(20)	ND	(21)	ND	ND	
0.500	W	ND	ND		ND	ND	ND	ND	ND	
0.010	Y	ND	ND		(20)	(20)	(25)	ND	ND	
0.020	Zn	(235)	(243)		(150)	(247)	(303)	ND	0.01	
0.010	Zr	n/a	n/a		n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
7) If RPD flagged with "*", then RPD >20% and sample & duplicate results >MDL.
8) If Percent Difference (%D) >10% and sample results >5x MDL, chemical/physical interferences may exist.
9) Data, including calibration/QC, archived File ICP-325-405-1/95D255a

Analyzed Date: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D255a

File: m091295d
Reported: 09/15/95
Data Page 1 of 2

Sample Log#		95-07945-N1-Smp	95-07945-N1-SmpDil	95-07946-N1-Smp	95-07947-N1-Smp	95-07948-N1-Smp	95-07941-N3-Blk	95-07945-N1-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1038	0.1038	0.1077	0.1046	0.1101	0.1066	0.1038
Makeup Vol-mL		100.0	100.0	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL								
Dil: Vol-mL								
Prep Factor		963.39	963.39	928.51	956.02	908.27	938.53	963.39
Spike ID								950830H901
Spike PreDil'n								20.0
ICP Dilution		2.00	10.00	2.00	2.00	2.00	2.00	5.00
Dil Fctr		1926.8	9633.9	1857.0	1912.0	1816.5	1877.1	4817.0
Run Time		17:19	17:15	17:30	17:39	18:02	15:30	17:22
ug/g	Ag	4.6	15.9	-4.8	10.8	13.7	-31.1	15.4
	Al	15478.3	16543.4	11193.1	7429.9	8166.3	168.9	59314.9
	As	124.4	192.6	107.4	114.4	115.1	40.3	252.2
	B	404.4	475.0	432.8	254.4	397.5	572.2	428.5
	Ba	284.7	320.8	555.9	99.2	114.6	11.4	307.1
	Be	1.0	1.1	1.2	0.9	0.9	0.7	2.5
	Bi	1378.4	1427.9	2822.9	932.9	1075.2	66.2	1477.7
	Ca	16027.5	16885.3	15458.6	20636.2	11455.1	3660.2	38871.4
	Cd	10.1	16.9	11.2	9.3	12.4	7.3	1157.9
	Ce	-57.9	30.8	-166.8	43.8	109.0	-586.7	-2.2
	Co	40.8	53.7	37.8	33.5	36.6	16.4	61.3
	Cr	619.3	664.1	478.8	97.4	109.2	48.2	7571.7
	Cu	36.2	40.5	31.4	66.0	104.5	22.3	5.9
	Dy	16.1	29.9	13.4	9.7	11.0	23.7	17.3
	Eu	7.9	12.4	8.5	7.7	8.5	8.7	11.6
	Fe	20150.6	22078.9	27212.2	34805.3	41980.7	267.9	21257.9
	K	4825.5	7096.3	4904.1	4548.7	4777.4	3305.4	89125.0
	La	79.9	106.0	57.0	57.3	64.8	28.7	110.8
	Li	34.0	46.9	32.0	31.7	31.4	27.4	54.3
	Mg	1479.6	1664.3	1458.5	1279.5	1373.7	113.4	2141.3
	Mn	300.2	330.1	328.4	365.5	498.3	8.4	771.2
	Mo	27.9	53.4	26.0	38.5	28.0	13.3	41.4
	Na	8492031.3	11571703.5	7884648.7	8175270.6	7340152.4	7857319.2	10574396.1
	Nd	145.2	239.0	160.5	173.6	198.9	120.4	214.5
	Ni	14672.5	16121.5	16741.4	6709.5	7208.8	431.6	39117.1
	P	624.7	712.8	3840.0	1604.6	1436.9	143.0	862.2
	Pb	1154.2	1369.9	994.7	1143.9	2856.3	116.9	25348.8
	Pd	9.7	218.5	-194.4	-63.8	-49.9	44.7	-456.1
	Rh	120.0	232.0	86.4	88.7	100.8	94.6	166.0
	Sb	49.2	115.5	59.9	56.2	56.3	74.7	59.2
	Se	89.9	203.9	118.7	123.1	143.3	84.8	138.0
	Si	2720.1	2777.1	2287.1	1554.3	1784.5	271.3	49596.3
	Sn	202.1	538.3	59.0	-20.0	-30.0	481.9	395.8
	Sr	13884.9	15346.0	25031.0	1260.1	1467.6	56.6	14884.7
	Te	84.9	138.7	100.6	79.0	114.4	50.2	118.2
	Th	528.4	557.1	868.3	675.1	752.3	271.3	1727.8
	Ti	40.8	49.5	46.2	33.6	40.5	13.3	51.4
	Tl	104.9	78.6	104.4	83.0	78.9	46.8	240.9
	U	33218.9	38672.3	54716.5	46937.5	50669.1	73.3	127288.5
	V	18.8	32.1	20.0	17.7	20.7	13.9	33.6
	W	65.2	51.0	61.6	54.7	73.9	54.5	103.0
	Y	15.7	20.4	20.3	20.2	24.9	8.8	26.1
	Zn	234.9	243.4	149.6	247.4	302.9	19.2	222.3
ug/g	Zr	13479.1	14705.5	21396.3	7634.0	6251.5	43136.9	16657.6

Template: TC-NA202

ICP RAW DATA -- IEC Corrected

File: m091295d
Reported: 09/15/95

Analyzed: 09/12/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Raw Data
Data Page 2 of 2

Analyst: D. SANDERS

Reviewer: MW Thur 9/20/95

Sample ID:		95-07945-N1-Smp	95-07945-N1-SmpDil	95-07946-N1-Smp	95-07947-N1-Smp	95-07948-N1-Smp	95-07941-N3-Blk	95-07945-N1-Smp-PS	Post Spk Conc ug/mL
Split ID:									
Run Time:		17:19	17:15	17:30	17:39	18:02	15:30	17:22	
(ug/mL)	Ag	0.0024	0.0017	-0.0026	0.0057	0.0076	-0.0166	0.0032	
	Al	8.0332	1.7172	6.0275	3.8859	4.4956	0.0900	12.3138	1000
	As	0.0646	0.0200	0.0579	0.0598	0.0634	0.0215	0.0524	
	B	0.2099	0.0493	0.2331	0.1331	0.2188	0.3049	0.0890	
	Ba	0.1477	0.0333	0.2993	0.0519	0.0631	0.0061	0.0638	
	Be	0.0005	0.0001	0.0007	0.0005	0.0005	0.0004	0.0005	
	Bi	0.7154	0.1482	1.5201	0.4879	0.5919	0.0353	0.3068	
	Ca	8.3183	1.7527	8.3245	10.7927	6.3060	1.9500	8.0697	500
	Cd	0.0052	0.0018	0.0060	0.0049	0.0069	0.0039	0.2404	25
	Ce	-0.0301	0.0032	-0.0898	0.0229	0.0600	-0.3126	-0.0005	
	Co	0.0212	0.0056	0.0204	0.0175	0.0202	0.0087	0.0127	
	Cr	0.3214	0.0689	0.2578	0.0509	0.0601	0.0257	1.5719	150
	Cu	0.0188	0.0042	0.0169	0.0345	0.0575	0.0119	0.0012	
	Dy	0.0083	0.0031	0.0072	0.0051	0.0060	0.0126	0.0036	
	Eu	0.0041	0.0013	0.0046	0.0041	0.0047	0.0047	0.0024	
	Fe	10.4582	2.2918	14.6538	18.2032	23.1104	0.1427	4.4131	
	K	2.5044	0.7366	2.6408	2.3790	2.6299	1.7610	18.5023	2000
	La	0.0415	0.0110	0.0307	0.0300	0.0357	0.0153	0.0230	
	Li	0.0177	0.0049	0.0172	0.0166	0.0173	0.0146	0.0113	
	Mg	0.7679	0.1727	0.7854	0.6692	0.7562	0.0604	0.4445	
	Mn	0.1558	0.0343	0.1768	0.1912	0.2743	0.0045	0.1601	10
	Mo	0.0145	0.0055	0.0140	0.0201	0.0154	0.0071	0.0086	
	Na	4407.3642	1201.1428	4245.8833	4275.6665	4040.7539	4185.9868	2195.2446	
	Nd	0.0754	0.0248	0.0864	0.0908	0.1095	0.0641	0.0445	
	Ni	7.6151	1.6734	9.0152	3.5091	3.9685	0.2299	8.1207	500
	P	0.3242	0.0740	2.0678	0.8392	0.7910	0.0762	0.1790	
	Pb	0.5990	0.1422	0.5357	0.5983	1.5724	0.0623	5.2624	500
	Pd	0.0050	0.0227	-0.1047	-0.0334	-0.0275	0.0238	-0.0947	
	Rh	0.0623	0.0241	0.0465	0.0464	0.0555	0.0504	0.0345	
	Sb	0.0255	0.0120	0.0323	0.0294	0.0310	0.0398	0.0123	
	Se	0.0467	0.0212	0.0639	0.0644	0.0789	0.0452	0.0287	
	Si	1.4117	0.2883	1.2316	0.8129	0.9823	0.1445	10.2962	1000
	Sn	0.1049	0.0559	0.0318	-0.0105	-0.0165	0.2567	0.0822	
	Sr	7.2063	1.5929	13.4792	0.6590	0.8079	0.0301	3.0901	
	Te	0.0441	0.0144	0.0542	0.0413	0.0630	0.0267	0.0245	
	Th	0.2742	0.0578	0.4676	0.3531	0.4141	0.1445	0.3587	
	Ti	0.0212	0.0051	0.0249	0.0176	0.0223	0.0071	0.0107	
	Tl	0.0544	0.0082	0.0562	0.0434	0.0434	0.0249	0.0500	
	U	17.2406	4.0142	29.4648	24.5483	27.8934	0.0390	26.4251	2000
	V	0.0098	0.0033	0.0108	0.0093	0.0114	0.0074	0.0070	
	W	0.0339	0.0053	0.0332	0.0286	0.0407	0.0291	0.0214	
	Y	0.0082	0.0021	0.0109	0.0105	0.0137	0.0047	0.0054	
	Zn	0.1219	0.0253	0.0806	0.1294	0.1667	0.0102	0.0461	
(ug/mL)	Zr	6.9957	1.5264	11.5219	3.9926	3.4415	22.9812	3.4581	50

									CCV1 950713H901	1 950713	1 950713	1 950713H901							
									95D255A	95D255A	95D255A	95D255A							
									9/12/95	9/12/95	9/12/95	9/12/95							
Statistical Summary for 'CCV1 950713H901'									09:55	12:25	15:10	18:33							
(HPS:CCV-1)									CONC	CONC	CONC	CONC							
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias		1846	1891	1936	1981							
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)		(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)							
Ag		4	0.000	0.000	-81				-0.001	0.000	-0.001	0.000							
Al	2.000	4	1.900	0.020	1	-0.100	-5.0		1.913	1.922	1.885	1.881							
As	2.000	4	2.017	0.026	1	0.017	0.9		2.013	2.055	1.988	2.012							
B	2.000	4	1.935	0.029	2	-0.065	-3.3		1.951	1.966	1.923	1.900							
Ba	1.000	4	1.009	0.012	1	0.009	0.9		0.999	1.004	1.007	1.026							
Be	1.000	4	0.968	0.011	1	-0.032	-3.2		0.977	0.977	0.955	0.963							
Bi	2.000	4	1.927	0.019	1	-0.073	-3.7		1.936	1.943	1.899	1.926							
Ca	2.000	4	1.926	0.029	2	-0.074	-3.7		1.943	1.958	1.903	1.899							
Cd	1.000	4	0.982	0.009	1	-0.018	-1.8		0.989	0.988	0.980	0.970							
Ce		4	0.001	0.003	378				0.002	-0.003	0.003	0.001							
Co	1.000	4	1.038	0.006	1	0.038	3.8		1.036	1.046	1.034	1.037							
Cr	0.500	4	0.516	0.001	0	0.016	3.2		0.517	0.517	0.514	0.517							
Cu	2.000	4	2.037	0.029	1	0.037	1.8		2.014	2.012	2.048	2.073							
Dy		4	0.000	0.000	-178				-0.001	0.000	0.000	0.000							
Eu		4	0.000	0.000	38				0.000	0.000	0.000	0.000							
Fe	2.000	4	2.018	0.010	1	0.018	0.9		2.016	2.031	2.006	2.017							
K	5.000	4	4.997	0.300	6	-0.003	-0.1		4.814	4.873	5.295	5.205							
La		4	0.000	0.001	192				0.001	0.001	-0.001	0.001							
Li	2.000	4	1.972	0.037	2	-0.028	-1.4		1.943	1.964	2.025	1.954							
Mg	2.000	4	2.100	0.016	1	0.100	5.0		2.092	2.099	2.087	2.122							
Mn	1.000	4	1.015	0.012	1	0.015	1.5		1.021	1.029	1.006	1.004							
Mo	2.000	4	2.004	0.008	0	0.004	0.2		1.998	2.015	1.997	2.008							
Na	8.100	4	8.404	0.382	5	0.304	3.8		8.015	8.136	8.750	8.714							
Nd		4	-0.001	0.003	-255				-0.001	-0.003	-0.003	0.003							
Ni	2.000	4	2.099	0.014	1	0.099	4.9		2.091	2.119	2.090	2.095							
P	5.000	4	4.746	0.009	0	-0.254	-5.1		4.734	4.755	4.751	4.744							
Pb	2.000	4	2.063	0.007	0	0.063	3.2		2.056	2.072	2.057	2.068							
Pd		4	0.002	0.008	321				0.008	0.010	-0.005	-0.004							
Rh		4	0.001	0.002	180				-0.001	0.003	0.003	0.000							
Sb		4	-0.001	0.008	-1512				0.002	0.009	-0.004	-0.009							
Se	2.000	4	1.980	0.030	2	-0.040	-2.0		1.938	2.002	1.941	1.959							
Si	5.000	4	4.973	0.071	1	-0.027	-0.5		5.045	5.018	4.891	4.936							
Sn		4	-0.008	0.011	-141				-0.010	-0.015	0.008	-0.014							
Sr	2.000	4	2.060	0.065	3	0.060	3.0		2.021	2.045	2.032	2.141							
Te		4	-0.018	0.004	-20				-0.014	-0.015	-0.020	-0.022							
Th		4	0.005	0.001	31				0.007	0.004	0.003	0.005							
Ti		4	0.000	0.000	75				0.000	0.000	0.000	0.001							
Tl	2.000	4	1.953	0.035	2	-0.047	-2.4		1.939	2.004	1.939	1.928							
U		4	0.007	0.016	242				0.006	-0.014	0.010	0.025							
V	1.000	4	0.964	0.004	0	-0.036	-3.6		0.961	0.965	0.960	0.968							
W		4	0.006	0.006	107				0.009	0.006	0.011	-0.003							
Y		4	0.000	0.000	-181				0.000	0.000	0.000	0.000							
Zn	1.000	4	1.031	0.011	1	0.031	3.1		1.018	1.044	1.027	1.035							
Zr		4	-0.001	0.000	-23				-0.002	-0.001	-0.001	-0.001							
TIME		4	########	0.000	0				10000.000	########	########	########							

Statistical Summary for "MCVA 950728H901"

(MCVA)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.500	11	0.485	0.009	2	-0.015	-3.1
Al	25.000	11	24.575	0.670	3	-0.425	-1.7
As	2.500	11	2.568	0.054	2	0.068	2.7
B	2.000	11	1.963	0.051	3	-0.037	-1.8
Ba	0.500	11	0.508	0.013	3	0.008	1.6
Be	0.100	11	0.093	0.002	2	-0.007	-6.8
Bi	25.000	11	24.401	0.524	2	-0.599	-2.4
Ca	25.000	11	24.691	0.499	2	-0.309	-1.2
Cd	0.500	11	0.492	0.010	2	-0.008	-1.6
Ce		11	-0.028	0.017	-61		
Co	1.000	11	1.023	0.016	2	0.023	2.3
Cr	1.000	11	1.022	0.016	2	0.022	2.2
Cu	1.000	11	0.999	0.025	3	-0.001	-0.1
Dy		11	0.001	0.002	299		
Eu		11	0.002	0.001	34		
Fe	20.000	11	20.328	0.382	2	0.328	1.6
K	25.000	11	26.211	1.441	5	1.211	4.8
La		11	0.006	0.004	65		
Li	2.000	11	1.927	0.097	5	-0.073	-3.7
Mg	25.000	11	26.450	0.481	2	1.450	5.8
Mn	0.500	11	0.506	0.010	2	0.006	1.2
Mo	1.000	11	1.026	0.018	2	0.026	2.6
Na	25.000	11	25.817	1.264	5	0.817	3.3
Nd		11	0.013	0.015	115		
Ni	1.000	11	1.052	0.017	2	0.052	5.2
P		11	0.063	0.020	31		
Pb	2.500	11	2.604	0.032	1	0.104	4.1
Pd		11	-0.002	0.043	-1885		
Rh		11	0.007	0.021	326		
Sb	2.500	11	2.536	0.043	2	0.036	1.5
Se	2.500	11	2.483	0.052	2	-0.017	-0.7
Si	20.000	11	18.955	0.569	3	-1.045	-5.2
Sn		11	-0.098	0.089	-91		
Sr	0.500	11	0.517	0.017	3	0.017	3.4
Te		11	-0.002	0.012	-690		
Th		11	0.041	0.003	7		
Ti	1.000	11	0.998	0.021	2	-0.004	-0.4
Tl		11	2.504	0.060	2		
U		11	0.154	0.257	166		
V	1.000	11	0.987	0.018	2	-0.013	-1.3
W		11	0.031	0.007	22		
Y		11	0.000	0.001	329		
Zn	1.000	11	1.015	0.017	2	0.015	1.5
Zr	2.000	11	2.045	0.031	2	0.045	2.2
TIME		11	########	0.000	0		

MCVA 950728H901	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728H901
95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95
14:49	14:58	09:43	10:51	11:47	12:09	16:15	16:19	16:39	17:44	16:17	
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	
2071	2116	2161	2206	2251	2296	2341	2386	2431	2476	2521	
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	
0.487	0.485	0.488	0.491	0.485	0.488	0.483	0.490	0.484	0.494	0.475	
25.039	24.527	24.982	25.185	24.854	24.921	23.033	25.254	24.073	24.548	23.909	
2.563	2.548	2.595	2.630	2.594	2.615	2.448	2.566	2.535	2.627	2.523	
1.983	1.969	1.996	2.004	1.996	2.005	1.835	1.991	1.937	1.966	1.915	
0.514	0.508	0.507	0.511	0.506	0.508	0.472	0.521	0.509	0.522	0.512	
0.093	0.093	0.095	0.095	0.094	0.095	0.088	0.094	0.092	0.095	0.092	
24.527	24.353	24.714	24.818	24.603	24.662	23.063	24.723	24.150	24.836	23.958	
24.798	24.667	25.089	25.216	24.957	25.193	23.721	24.813	24.288	24.914	23.948	
0.491	0.497	0.504	0.501	0.494	0.494	0.476	0.500	0.488	0.495	0.471	
-0.042	-0.027	-0.027	-0.035	-0.035	-0.032	0.015	-0.044	-0.011	-0.032	-0.043	
1.026	1.026	1.027	1.034	1.024	1.035	0.987	1.034	1.012	1.043	1.008	
1.026	1.026	1.027	1.034	1.018	1.031	0.985	1.036	1.007	1.039	1.006	
1.014	1.005	0.998	0.997	0.987	0.990	0.935	1.029	1.009	1.027	1.004	
-0.001	0.001	0.000	0.000	0.000	0.000	0.007	-0.002	0.004	0.002	-0.001	
0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.001	0.003	0.002	0.002	
20.471	20.349	20.443	20.574	20.338	20.506	19.350	20.590	20.115	20.781	20.086	
27.785	26.211	25.947	26.719	25.952	25.394	24.892	29.123	27.256	24.193	24.854	
0.003	0.006	0.004	0.004	0.004	0.005	0.015	0.002	0.011	0.006	0.004	
2.030	1.920	1.940	1.982	1.954	1.924	1.744	2.105	1.906	1.826	1.861	
26.693	26.520	26.526	26.689	26.364	26.539	25.229	26.933	26.275	27.026	26.152	
0.510	0.506	0.513	0.515	0.511	0.515	0.482	0.511	0.496	0.512	0.495	
1.032	1.028	1.030	1.036	1.026	1.037	0.980	1.036	1.017	1.046	1.016	
26.473	25.568	24.931	25.667	25.288	24.961	23.597	26.267	27.414	25.639	26.189	
0.007	0.014	0.006	0.007	0.004	0.006	0.050	-0.003	0.034	0.017	0.002	
1.051	1.053	1.051	1.066	1.060	1.062	1.012	1.060	1.041	1.078	1.037	
0.059	0.058	0.047	0.059	0.062	0.073	0.116	0.048	0.070	0.057	0.046	
2.625	2.627	2.619	2.613	2.586	2.613	2.564	2.622	2.591	2.644	2.534	
-0.023	0.000	-0.013	-0.011	-0.012	-0.007	0.102	-0.053	0.045	-0.009	-0.045	
-0.006	0.010	0.000	-0.003	0.000	0.004	0.058	-0.017	0.032	0.006	-0.012	
2.552	2.541	2.557	2.567	2.535	2.564	2.435	2.568	2.530	2.585	2.486	
2.495	2.468	2.506	2.524	2.483	2.526	2.368	2.506	2.469	2.546	2.420	
18.914	18.758	19.334	19.411	19.783	19.426	17.858	19.077	18.675	19.104	18.171	
-0.106	-0.049	-0.076	-0.093	-0.095	-0.079	0.116	-0.125	-0.148	-0.175	-0.242	
0.517	0.511	0.512	0.517	0.512	0.516	0.477	0.526	0.514	0.548	0.534	
-0.011	0.001	-0.001	0.001	-0.007	0.003	0.027	-0.017	0.003	-0.005	-0.012	
0.043	0.037	0.045	0.039	0.040	0.040	0.039	0.039	0.046	0.043	0.040	
1.003	0.995	0.996	1.004	0.994	1.001	0.938	1.014	0.990	1.023	0.993	
2.515	2.516	2.522	2.564	2.553	2.546	2.369	2.537	2.487	2.524	2.416	
0.007	0.196	0.034	0.027	0.032	0.089	0.770	-0.106	0.470	0.211	-0.033	
0.994	0.988	0.993	0.997	0.985	0.992	0.940	1.000	0.981	1.011	0.981	
0.033	0.030	0.025	0.028	0.026	0.035	0.047	0.026	0.033	0.032	0.024	
0.000	0.000	0.000	0.000	0.000	0.000	0.002	-0.001	0.002	0.001	0.000	
1.018	1.018	1.008	1.025	1.019	1.034	0.980	1.028	1.007	1.034	0.985	
2.057	2.042	2.041	2.055	2.038	2.050	1.978	2.072	2.026	2.103	2.031	
10000.000	########	########	########	########	########	########	########	########	########	########	

Statistical Summary for 'MCVB 950911H901'

(MCVB)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag		4	0.001	0.001	144		
Al		4	-0.176	0.017	-10		
As		4	0.010	0.018	184		
B		4	0.004	0.006	160		
Ba		4	0.000	0.000	83		
Be		4	0.000	0.000	9		
Bi		4	0.001	0.011	1757		
Ca		4	0.018	0.007	42		
Cd		4	0.000	0.001	116		
Co	2.000	4	1.974	0.023	1	-0.026	-1.3
Ce		4	0.003	0.002	50		
Cr		4	0.001	0.000	16		
Cu		4	-0.005	0.006	-118		
Dy	2.000	4	1.976	0.040	2	-0.024	-1.2
Eu	2.000	4	1.963	0.036	2	-0.037	-1.8
Fe		4	0.006	0.002	29		
K		4	0.051	0.270	531		
La	2.000	4	1.970	0.035	2	-0.030	-1.5
Li		4	0.002	0.001	52		
Mg		4	0.086	0.008	9		
Mn		4	0.000	0.000	59		
Mo		4	0.001	0.002	186		
Na		4	0.021	0.021	97		
Nd	2.000	4	1.954	0.038	2	-0.046	-2.3
Ni		4	0.012	0.012	99		
P		4	-0.003	0.008	-299		
Pb		4	0.050	0.008	15		
Pd	2.000	4	2.126	0.108	5	0.126	6.3
Rh	2.000	4	2.006	0.037	2	0.006	0.3
Sb		4	0.010	0.011	110		
Se		4	0.015	0.004	25		
Si		4	0.073	0.055	76		
Sn	2.000	4	1.966	0.142	7	-0.034	-1.7
Sr		4	0.000	0.000	66		
Te	2.000	4	1.803	0.018	1	-0.197	-9.8
Th	5.000	4	5.011	0.053	1	0.011	0.2
Ti		4	0.001	0.000	46		
Tl		4	0.010	0.013	128		
U	10.000	4	8.549	0.125	1	-1.451	-14.5
V		4	-0.001	0.001	-77		
W	2.000	4	0.501	0.009	2	-1.499	
Y	1.000	4	0.964	0.009	1	-0.036	-3.6
Zn		4	0.001	0.000	25		
Zr		4	-0.009	0.002	-24		
TIME		4	########	0.000	0		

MCVB 950911H901	B 950911	B 950911	B 950911H901
95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95
09:46	12:17	15:02	18:25
CONC	CONC	CONC	CONC
2566	2611	2656	2701
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.001	0.002	-0.001	0.001
-0.177	-0.153	-0.193	-0.183
0.020	0.030	-0.010	0.000
0.008	0.002	0.010	-0.004
0.001	0.001	0.000	0.001
0.000	0.000	0.000	0.000
0.016	-0.003	-0.005	-0.007
0.026	0.023	0.012	0.011
0.000	0.001	0.000	0.001
1.947	1.979	1.988	2.003
0.004	0.004	0.001	0.004
0.002	0.001	0.001	0.001
0.003	-0.011	-0.005	-0.007
1.929	1.958	2.004	2.014
1.920	1.947	1.991	1.995
0.006	0.007	0.003	0.006
0.282	-0.086	-0.256	0.273
1.925	1.959	2.004	1.991
0.003	0.003	0.001	0.002
0.085	0.092	0.075	0.092
0.000	0.000	0.000	0.001
0.003	0.002	-0.001	0.001
0.025	0.026	-0.007	0.042
1.912	1.940	1.963	2.001
0.008	0.030	0.004	0.006
0.006	-0.008	-0.010	0.002
0.056	0.049	0.040	0.056
2.010	2.087	2.144	2.261
1.986	1.986	2.024	2.048
0.017	0.020	0.001	0.000
0.017	0.019	0.010	0.015
0.155	0.058	0.041	0.039
2.051	2.026	2.032	1.753
0.001	0.001	0.000	0.001
1.814	1.818	1.779	1.800
4.941	5.004	5.066	5.032
0.001	0.001	0.000	0.001
0.017	0.024	0.005	-0.005
8.603	8.407	8.494	8.692
0.000	-0.001	-0.003	-0.001
0.495	0.493	0.503	0.513
0.955	0.956	0.972	0.971
0.002	0.001	0.002	0.001
-0.007	-0.008	-0.012	-0.008
10000.000	########	########	########

Statistical Summary for "SRM-1643c 103668"
(NIST:SRM1643c)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.002	4	-0.001	0.002	-308	-0.003	-130.7
Al	0.115	4	0.101	0.009	9	-0.013	-11.4
As	0.082	4	0.086	0.010	11	0.004	5.0
B	0.119	4	0.114	0.004	4	-0.005	-4.1
Ba	0.050	4	0.049	0.001	2	0.000	-0.3
Be	0.023	4	0.022	0.000	1	-0.001	-5.5
Bi		4	0.013	0.011	86		
Ca	36.800	4	35.156	0.383	1	-1.644	-4.5
Cd	0.012	4	0.011	0.002	14	-0.001	-7.6
Ce		4	-0.009	0.013	-136		
Co	0.024	4	0.023	0.003	11	0.000	-0.1
Cr	0.019	4	0.020	0.001	7	0.001	6.3
Cu	0.022	4	0.018	0.003	16	-0.005	-20.8
Dy		4	-0.002	0.001	-71		
Eu		4	0.001	0.001	97		
Fe	0.107	4	0.119	0.001	1	0.012	11.0
K	2.300	4	1.927	0.241	13	-0.373	-16.2
La		4	0.004	0.003	68		
Li	0.017	4	0.012	0.001	9	-0.005	-27.3
Mg	9.450	4	9.916	0.153	2	0.466	4.9
Mn	0.035	4	0.035	0.000	1	0.000	-1.2
Mo	0.104	4	0.105	0.002	2	0.001	0.7
Na	12.190	4	12.215	0.903	7	0.025	0.2
Nd		4	-0.001	0.010	-1154		
Ni	0.061	4	0.060	0.005	8	0.000	-0.2
P		4	0.015	0.009	65		
Pb	0.035	4	0.027	0.006	23	-0.009	-24.1
Pd		4	-0.028	0.037	-129		
Rh		4	-0.013	0.015	-117		
Sb		4	-0.003	0.006	-196		
Se	0.013	4	0.013	0.011	86	0.000	0.3
Si		4	0.025	0.042	170		
Sn		4	-0.056	0.044	-78		
Sr	0.264	4	0.266	0.011	4	0.003	1.0
Te		4	-0.006	0.009	-151		
Th		4	-0.006	0.002	-31		
Ti		4	0.007	0.000	6		
Tl	0.008	4	0.015	0.005	34	0.007	83.7
U		4	0.063	0.164	262		
V	0.031	4	0.027	0.001	3	-0.004	-14.3
W		4	0.001	0.002	154		
Y		4	-0.002	0.001	-31		
Zn	0.074	4	0.086	0.002	2	0.012	16.2
Zr		4	-0.002	0.001	-76		
TIME		4	########	0.000	0		

SRM-1643c 103668	-1643c 10	-1643c 10	-1643c 103668
95D255A	95D255A	95D255A	95D255A
9/12/95	9/12/95	9/12/95	9/12/95
09:50	12:21	15:08	18:29
CONC	CONC	CONC	CONC
2926	2971	3016	3061
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.002	-0.002	-0.002	-0.001
0.112	0.106	0.092	0.096
0.091	0.093	0.072	0.088
0.116	0.116	0.117	0.108
0.048	0.049	0.049	0.051
0.022	0.022	0.022	0.022
0.029	0.013	0.006	0.004
35.054	35.716	34.851	35.003
0.010	0.011	0.013	0.010
0.010	-0.014	-0.014	-0.018
0.026	0.025	0.020	0.023
0.020	0.022	0.019	0.020
0.021	0.015	0.016	0.019
0.000	-0.002	-0.003	-0.002
0.001	0.000	0.000	0.000
0.119	0.119	0.117	0.120
2.227	1.640	1.953	1.888
0.007	0.003	0.001	0.004
0.013	0.013	0.011	0.011
9.716	9.920	9.940	10.087
0.034	0.035	0.035	0.035
0.105	0.107	0.103	0.105
11.042	11.987	13.059	12.770
0.014	-0.004	-0.009	-0.004
0.061	0.067	0.056	0.057
0.025	0.006	0.007	0.020
0.035	0.023	0.021	0.026
0.024	-0.030	-0.059	-0.049
0.009	-0.016	-0.024	-0.020
0.006	-0.004	-0.006	-0.007
0.020	0.024	0.000	0.007
0.088	0.008	0.004	0.000
0.005	-0.089	-0.086	-0.054
0.254	0.285	0.265	0.281
0.007	-0.006	-0.012	-0.012
-0.006	-0.004	-0.009	-0.006
0.006	0.007	0.007	0.007
0.020	0.018	0.010	0.010
0.304	0.005	-0.065	0.007
0.026	0.026	0.026	0.027
0.001	0.002	0.003	-0.001
-0.001	-0.003	-0.003	-0.002
0.084	0.088	0.085	0.086
0.000	-0.002	-0.002	-0.003
10000.000	########	########	########

3-571

WHC-SD-WM-DP-145, REV. 1

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10
								95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A	95D255A
								9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95	9/12/95
Statistical Summary for 'STD1-Blank 108444'								09:39	10:06	11:01	11:55	12:29	14:35	14:46	15:24	16:48	17:05	17:56	18:36
(STD1-Blank)								CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3601	3646	3691	3736	3781	3826	3871	3916	3961	4006	4051	4096
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		12	0.000	0.002	-677			-0.001	0.001	-0.002	-0.002	-0.001	-0.001	-0.003	0.000	0.003	0.000	0.003	-0.001
Al		12	0.005	0.010	199			0.003	0.006	0.006	0.007	0.002	-0.003	-0.010	-0.004	0.015	0.031	0.010	0.000
As		12	0.003	0.008	206			0.006	0.011	0.005	0.008	0.009	0.000	-0.008	-0.005	-0.001	0.001	0.003	0.003
B		12	0.005	0.007	148			0.008	0.004	0.002	0.005	0.003	0.005	0.003	0.000	0.008	0.025	0.000	-0.004
Ba		12	0.000	0.000	343			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000
Be		12	0.000	0.000	216			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bi		12	0.001	0.004	289			0.003	0.007	0.000	0.000	0.009	-0.001	-0.004	0.004	0.006	-0.004	-0.001	-0.002
Ca		12	0.002	0.005	309			0.001	0.002	0.001	0.002	0.003	-0.001	-0.003	-0.003	0.004	0.016	0.003	-0.005
Cd		12	0.000	0.001	1617			-0.001	-0.001	-0.001	0.000	-0.002	0.000	0.000	0.001	0.001	0.001	0.002	0.000
Ce		12	0.001	0.011	2176			-0.001	0.003	-0.008	-0.010	-0.009	-0.002	-0.014	0.022	0.017	0.001	0.010	-0.003
Co		12	0.001	0.001	165			0.000	0.002	0.000	0.001	0.001	0.000	-0.001	0.000	0.002	0.001	0.003	0.000
Cr		12	-0.001	0.001	-202			0.002	0.000	0.000	0.000	0.001	-0.001	-0.001	-0.002	-0.001	0.000	-0.001	-0.002
Cu		12	0.000	0.002	1082			0.000	-0.001	-0.004	-0.002	-0.001	0.005	0.002	-0.003	0.002	0.001	0.003	0.000
Dy		12	0.000	0.001	2495			-0.001	0.000	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.003	0.001	0.002	0.000
Eu		12	0.000	0.000	582			0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Fe		12	0.000	0.001	-1050			-0.001	0.001	0.002	0.000	-0.001	-0.001	-0.001	-0.001	0.001	-0.001	0.002	-0.001
K		12	-0.097	0.353	-365			-0.118	-0.017	-0.327	-0.536	-0.490	-0.191	-0.519	0.023	0.572	0.082	0.437	-0.076
La		12	0.000	0.002	-5090			0.000	0.001	-0.001	-0.002	-0.001	-0.001	-0.004	0.000	0.005	0.000	0.003	0.000
Li		12	0.001	0.002	144			0.001	0.001	0.001	0.000	0.000	0.000	-0.002	0.001	0.003	0.004	0.003	0.000
Mg		12	0.000	0.006	1865			-0.003	0.010	0.001	-0.002	0.002	-0.002	-0.006	-0.010	0.010	-0.002	0.006	-0.002
Mn		12	0.000	0.000	-1222			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
Mo		12	0.001	0.001	144			0.000	0.001	0.001	0.001	0.002	0.000	-0.001	-0.002	0.001	0.002	0.002	0.002
Na		12	-0.001	0.095	-7837			0.008	0.001	-0.006	-0.003	-0.006	-0.028	-0.042	0.108	0.171	-0.136	0.090	-0.172
Nd		12	-0.001	0.009	-1179			-0.002	0.004	-0.006	-0.005	-0.009	-0.004	-0.015	0.000	0.020	0.004	0.011	-0.004
Ni		12	0.003	0.005	152			0.001	0.005	0.015	0.008	0.003	-0.001	-0.001	0.002	0.004	-0.001	0.003	-0.002
P		12	0.006	0.008	146			0.011	0.006	0.000	0.000	0.001	0.009	-0.007	0.000	0.019	0.018	0.010	-0.003
Pb		12	0.000	0.009	-3889			-0.005	0.001	-0.005	-0.010	-0.009	-0.003	-0.011	0.000	0.018	0.008	0.015	0.000
Pd		12	0.004	0.025	576			0.009	0.025	-0.001	-0.003	0.003	-0.010	-0.044	0.001	0.057	0.004	0.028	-0.018
Rh		12	0.001	0.012	947			0.003	0.010	-0.003	-0.006	0.000	-0.009	-0.020	0.002	0.027	0.002	0.015	-0.003
Sb		12	0.002	0.006	311			0.003	0.005	0.012	0.007	0.008	0.002	-0.005	0.002	-0.002	-0.003	0.001	-0.006
Se		12	0.000	0.006	-2378			-0.002	0.008	0.000	-0.003	-0.003	0.002	-0.012	-0.002	0.007	-0.003	0.009	-0.005
Si		12	0.015	0.061	400			0.197	-0.001	-0.024	0.035	-0.026	0.034	0.010	-0.019	0.012	-0.007	-0.006	-0.021
Sn		12	-0.002	0.042	-2266			-0.018	0.020	-0.031	-0.045	-0.026	-0.005	-0.075	0.018	0.059	0.024	0.068	-0.008
Sr		12	0.000	0.000	75			0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001
Te		12	0.000	0.007	-1825			0.005	0.007	0.003	-0.004	0.000	-0.006	-0.013	-0.003	0.011	0.000	0.006	-0.009
Th		12	-0.001	0.005	-437			-0.003	0.000	0.000	-0.002	-0.001	-0.007	-0.007	-0.008	0.001	0.002	0.009	0.004
Ti		12	0.000	0.001	-1544			0.000	0.000	0.000	0.000	-0.001	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Tl		12	0.001	0.008	1132			0.006	0.004	0.001	0.014	0.010	-0.001	-0.014	-0.003	0.001	-0.003	0.002	-0.006
U		12	0.012	0.140	1198			0.019	0.039	-0.033	-0.074	-0.084	-0.062	-0.224	0.043	0.320	0.063	0.193	-0.059
V		12	0.000	0.001	-458			-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.002	0.000	0.002	0.000	0.002	0.000
W		12	0.001	0.006	501			-0.009	-0.001	-0.002	-0.003	-0.005	0.007	0.006	0.007	0.009	0.000	0.005	-0.003
Y		12	0.000	0.001	-852			0.000	0.000	0.000	-0.001	-0.001	0.000	-0.001	0.000	0.001	0.000	0.001	0.000
Zn		12	0.000	0.001	491			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	-0.001
Zr		12	0.000	0.001	-991			-0.001	0.000	0.000	0.000	-0.001	-0.001	-0.002	0.001	0.003	0.000	0.001	-0.001
TIME		12	########	0.000	0			10000.000	########	########	########	########	########	########	########	########	########	########	########

3-572

WHC-SD-WM-DP-145, REV 1

								SST-ICS-0 95090811	S-0 9509	S-0 9509	S-0 9509081100
								95D255A	95D255A	95D255A	95D255A
								9/12/95	9/12/95	9/12/95	9/12/95
Statistical Summary for 'SST-ICS-0 9509081100'								10:00	10:57	11:51	12:13
(Interference Check Std - Acid Digestion)								CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3196	3241	3286	3331
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		4	-0.009	0.002	-19			-0.007	-0.008	-0.011	-0.008
Al	100.0	4	97.958	1.149	1	-2.042	-2.0	97.393	97.860	99.596	98.982
As		4	0.121	0.009	7			0.114	0.119	0.115	0.133
B		4	0.002	0.002	112			0.004	-0.001	0.003	0.002
Ba		4	0.000	0.000	65			0.000	0.000	0.000	0.001
Be		4	0.001	0.000	6			0.001	0.001	0.001	0.001
Bi		4	0.059	0.003	6			0.056	0.058	0.058	0.064
Ca		4	0.076	0.002	2			0.075	0.077	0.075	0.079
Cd		4	0.007	0.001	13			0.009	0.007	0.007	0.007
Ce		4	-0.141	0.016	-12			-0.127	-0.132	-0.164	-0.139
Co		4	0.005	0.001	29			0.006	0.005	0.003	0.006
Cr		4	0.036	0.001	2			0.036	0.035	0.037	0.037
Cu		4	-0.014	0.005	-35			-0.007	-0.018	-0.017	-0.015
Dy		4	-0.004	0.001	-36			-0.004	-0.004	-0.006	-0.002
Eu		4	0.000	0.000	103			0.001	0.000	0.000	0.001
Fe	20.0	4	19.986	0.135	1	-0.014	-0.1	19.915	19.950	20.185	19.894
K		4	-0.141	0.232	-165			0.000	-0.079	-0.485	0.000
La		4	0.003	0.002	73			0.005	0.004	0.000	0.005
Li		4	0.004	0.001	33			0.004	0.005	0.003	0.006
Mg		4	0.281	0.015	5			0.266	0.282	0.276	0.302
Mn		4	0.001	0.000	15			0.001	0.001	0.001	0.001
Mo		4	0.009	0.001	13			0.010	0.008	0.008	0.011
Na		4	0.011	0.024	227			0.001	0.012	-0.014	0.043
Nd		4	-0.026	0.008	-32			-0.023	-0.026	-0.038	-0.018
Ni	50.0	4	52.039	0.385	1	2.039	4.1	51.844	51.939	52.567	52.005
P		4	0.025	0.006	24			0.024	0.032	0.018	0.026
Pb		4	0.189	0.009	5			0.196	0.188	0.177	0.194
Pd		4	-0.381	0.035	-9			-0.345	-0.389	-0.427	-0.381
Rh		4	-0.033	0.012	-38			-0.032	-0.032	-0.050	-0.020
Sb		4	0.003	0.007	242			0.002	0.002	-0.005	0.012
Se		4	0.022	0.003	13			0.024	0.022	0.024	0.018
Si		4	0.075	0.051	68			0.085	0.026	0.146	0.064
Sn		4	0.028	0.048	167			0.047	0.040	-0.040	0.064
Sr		4	0.000	0.000	93			0.000	0.000	0.000	0.000
Te		4	-0.002	0.009	-414			0.003	-0.002	-0.015	0.006
Th		4	0.667	0.022	3			0.660	0.677	0.703	0.706
Ti		4	0.001	0.000	47			0.001	0.001	0.000	0.002
Tl		4	0.227	0.006	3			0.218	0.227	0.232	0.232
U	50.0	4	50.178	0.555	1	0.178	0.4	49.868	50.100	50.963	49.760
V		4	0.001	0.001	102			0.002	0.001	-0.001	0.002
W		4	0.049	0.005	10			0.053	0.043	0.047	0.052
Y		4	0.003	0.000	17			0.003	0.003	0.002	0.003
Zn		4	-0.029	0.001	-5			-0.026	-0.031	-0.027	-0.029
Zr	10.0	4	10.016	0.066	1	0.016	0.2	9.983	9.974	10.145	9.964
TIME		4	########	0.000	0			10000.000	########	########	########

								SST-ICS-1 9509081	S-1 9509	S-1 9509	S-1 9509	S-1 9509081101						
								95D255A	95D255A	95D255A	95D255A	95D255A						
								9/12/95	9/12/95	9/12/95	9/12/95	9/12/95						
Statistical Summary for 'SST-ICS-1 9509081101'								17:52	18:20	15:18	16:44	16:53						
(Interference Check Std - Na2O2/Zr Fusion)								CONC	CONC	CONC	CONC	CONC						
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3376	3421	3466	3511	3556						
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)						
Ag		5	-0.005	0.001	-25			-0.006	-0.005	-0.005	-0.003	-0.006						
Al	100.0	5	90.394	1.108	1	-9.606	-9.6	91.245	89.949	89.848	89.108	91.822						
As		5	0.167	0.022	13			0.179	0.178	0.130	0.183	0.164						
B		5	0.005	0.007	129			0.000	0.000	0.003	0.015	0.007						
Ba		5	0.001	0.000	34			0.001	0.001	0.001	0.001	0.001						
Be		5	0.001	0.000	3			0.001	0.001	0.001	0.001	0.001						
Bi		5	0.064	0.004	7			0.068	0.060	0.060	0.071	0.063						
Ca		5	0.048	0.004	8			0.047	0.048	0.043	0.055	0.049						
Cd		5	0.010	0.001	7			0.009	0.010	0.010	0.011	0.010						
Ce		5	-0.116	0.016	-13			-0.130	-0.121	-0.092	-0.109	-0.126						
Co		5	0.010	0.001	14			0.011	0.011	0.008	0.011	0.010						
Cr		5	0.040	0.002	4			0.040	0.042	0.038	0.039	0.041						
Cu		5	-0.012	0.003	-26			-0.014	-0.010	-0.014	-0.007	-0.014						
Dy		5	0.002	0.001	62			0.001	0.003	0.001	0.004	0.002						
Eu		5	0.002	0.000	15			0.002	0.002	0.002	0.003	0.002						
Fe	20.0	5	18.304	0.308	2	-1.696	-8.5	18.549	18.267	17.891	18.157	18.658						
K		5	0.722	0.252	35			0.546	0.769	0.459	1.112	0.723						
La		5	0.011	0.002	16			0.009	0.012	0.010	0.014	0.011						
Li		5	0.013	0.001	10			0.013	0.013	0.012	0.015	0.013						
Mg		5	0.312	0.011	4			0.314	0.316	0.292	0.320	0.319						
Mn		5	0.002	0.000	12			0.002	0.002	0.002	0.003	0.002						
Mo		5	0.014	0.002	16			0.015	0.016	0.010	0.015	0.014						
Na		5	3689.975	44.406	1			3733.137	3700.213	3639.407	3676.485	3750.840						
Nd		5	0.015	0.009	63			0.010	0.015	0.004	0.029	0.015						
Ni	50.0	5	47.549	0.810	2	-2.451	-4.9	48.204	47.556	46.459	47.090	46.439						
P		5	0.101	0.008	8			0.092	0.109	0.102	0.093	0.109						
Pb		5	0.238	0.010	4			0.241	0.241	0.220	0.245	0.243						
Pd		5	-0.296	0.026	-9			-0.318	-0.301	-0.313	-0.251	-0.298						
Rh		5	0.020	0.010	51			0.012	0.019	0.011	0.037	0.022						
Sb		5	0.031	0.008	25			0.021	0.034	0.026	0.039	0.037						
Se		5	0.057	0.009	16			0.062	0.063	0.042	0.062	0.054						
Si		5	0.009	0.012	142			-0.005	0.013	-0.003	0.021	0.019						
Sn		5	-0.039	0.130	-337			-0.122	-0.093	0.191	-0.063	-0.105						
Sr		5	0.001	0.000	48			0.001	0.001	0.000	0.001	0.000						
Te		5	0.027	0.008	28			0.025	0.027	0.019	0.040	0.026						
Th		5	0.683	0.009	1			0.688	0.682	0.680	0.672	0.694						
Ti		5	0.004	0.001	16			0.003	0.004	0.003	0.005	0.004						
Tl		5	0.220	0.006	3			0.226	0.215	0.215	0.227	0.217						
U	50.0	5	45.985	0.970	2	-4.015	-8.0	46.598	45.954	44.536	45.742	47.093						
V		5	0.006	0.001	15			0.005	0.006	0.005	0.006	0.006						
W		5	0.061	0.005	9			0.053	0.062	0.058	0.063	0.060						
Y		5	0.006	0.001	11			0.005	0.006	0.005	0.007	0.006						
Zn		5	-0.030	0.002	-6			-0.030	-0.032	-0.027	-0.030	-0.029						
Zr	10.0	5	9.550	0.172	2	-0.450	-4.5	9.691	9.522	9.329	9.459	9.750						
TIME		5	########	0.000	0			10000.000	########	########	########	########						

3-5.24

WHC-SD-WM-DP-145, REV. 1

Statistical Summary for 'SRM-2709-N @10X DIL'
(LCSS - Na2O2/Zr Fusion)

								SRM-2709-N @10X DIL
								95D255A
								9/12/95
								10:06
								CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3106
	(ug/g)		(ug/g)	(ug/g)	(%)	(ug/g)	(%)	ug/g
Ag		1	-	#DIV/0!	######			-
Al	75000	1	64707.3	#DIV/0!	######	-10293	-13.7	64707.31
As	18	1	-	#DIV/0!	######	-18	-100.0	-
B		1	222.5	#DIV/0!	######			[222.46]
Be	968	1	852.5	#DIV/0!	######	-116	-11.9	852.46
Bi		1	-	#DIV/0!	######			-
Bl		1	-	#DIV/0!	######			-
Ca	18900	1	19828.6	#DIV/0!	######	929	4.9	19828.62
Cd	0.4	1	-	#DIV/0!	######	0	-100.0	-
Ce		1	-	#DIV/0!	######			-
Co	13	1	71.5	#DIV/0!	######	58	433.6	[71.50]
Cr	130	1	226.6	#DIV/0!	######	97	74.3	[226.60]
Cu	36	1	85.6	#DIV/0!	######	51	147.3	[85.57]
Dy	3.5	1	-	#DIV/0!	######	-4	-100.0	-
Eu	0.9	1	-	#DIV/0!	######	-1	-100.0	-
Fe	35000	1	32874.9	#DIV/0!	######	-2125	-6.1	32874.88
K	20300	1	25538.8	#DIV/0!	######	5239	25.8	[25538.76]
La	23	1	-	#DIV/0!	######	-23	-100.0	-
Li		1	-	#DIV/0!	######			-
Mg	15100	1	14893.1	#DIV/0!	######	-207	-1.4	14893.12
Mn	538	1	515.1	#DIV/0!	######	-23	-4.3	515.11
Mo	2.0	1	-	#DIV/0!	######	-2	-100.0	-
Na	11600	0	#DIV/0!	#DIV/0!	######	#DIV/0!	######	>6142566
Nd	19	1	366.8	#DIV/0!	######	348	1830.4	[366.77]
Ni	88	1	528.6	#DIV/0!	######	441	500.7	[528.62]
P	620	1	882.9	#DIV/0!	######	263	42.4	[882.92]
Pb	19	1	1700.3	#DIV/0!	######	1681	8896.3	[1700.31]
Pd		1	-	#DIV/0!	######			-
Rh		1	-	#DIV/0!	######			-
Sb	7.9	1	-	#DIV/0!	######	-8	-100.0	-
Se	1.6	1	-	#DIV/0!	######	-2	-100.0	-
Si	269800	1	264935	#DIV/0!	######	-31865	-10.7	264934.64
Sn		1	-	#DIV/0!	######			-
Sr	231	1	266.6	#DIV/0!	######	36	15.4	[266.60]
Te		1	-	#DIV/0!	######			-
Th	11	1	-	#DIV/0!	######	-11	-100.0	-
Ti	3420	1	3057.6	#DIV/0!	######	-362	-10.6	3057.60
Tl	1	1	-	#DIV/0!	######	-1	-100.0	-
U	3	1	-	#DIV/0!	######	-3	-100.0	-
V	112	1	143.6	#DIV/0!	######	32	28.2	[143.55]
W	2	1	-	#DIV/0!	######	-2	-100.0	-
Y	18	1	-	#DIV/0!	######	-18	-100.0	-
Zn	108	1	-	#DIV/0!	######	-108	-100.0	-
Zr	160	1	33697.3	#DIV/0!	######	33437	######	33697.30
TIME	10000	1	10000.0	#DIV/0!	######	0	0.0	10000.0

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814I101		K.Silvers	K20966	950255A	ECP1	9/12/95 BM
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓	✓							SPC-STD 950831E101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950830I101						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓							✓	PASS	MCVA 950728I901						
	15	✓							✓	PASS	MCVB 950911H901						
	16	✓							✓		SRM-1643c 103668						
	17	✓						✓			CCV1 950713H901						
	18	✓					✓				~~SST-ICS-0~~ SST-ICS-0 950907E100						
	19	✓									STD1-Blank 108444						
	20	✓								95-007932-A3	Drainable Liquids Method Blank (Acid digest)	2X					
	21	✓								95-007932-A3	" " " " "						
	22	✓								95-007932-A4	" " Matrix Spike "	2X					
	23	✓								95-007932-A4	" " "	10X					
	24	✓								95-007932-A4	" " "	50X					
	25	✓								499 MVA	Na @ 510 ppm (950622I124 @10X)						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]refix (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

MATE # WD 00560

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x).

file: C:\ICPFIO\YYMODU\MSVRUN_OG1.TXT (94-02-03)

Pd, Sn, Te, U, W - NIH w.c.

3-576

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007932-AS	Drainable Liquid Spike Control (Acid digest)	50X	K. Silvers	K28866	950255A	ICP1	9/13/95 DM
	2	✓								95-007932-AS	" " " " "	10X					
	3	✓								95-007922-AS	" " " " "						
	4	✓							✓	PASS	MCVA 950728E901						
	5	✓							✓		SST-ICS-0 950908E100						
	6	✓					✓				STD1-Blank 108444						
	7	✓								95-007932-A1	Seq 2 Drainable Liquid (Acid digest)	50X					
	8	✓								95-007932-A1	" " " " "	10X					
	9	✓								95-007932-A1	" " " " "	5X					
	10	✓								95-007932-A2	" " " " Duplicate "	50X					
	11	✓								95-007932-A2	" " " " "	10X					
	12	✓								95-007932-A2	" " " " "	5X					
	13	✓								95-007935-A1	" 3 " " "	50X					
	14	✓								95-007935-A1	" " " " "	10X					
	15	✓								95-007935-A1	" " " " "	5X					
	16	✓								49.5ppm	STD 9 for W @ 50 ppm						
	17	✓							✓	PASS	MCVA 950728E901						
	18	✓							✓		SST-ICS-0 950908E100						
	19	✓						✓			STD1-Blank 108444						
	20	✓								95-007935-A2	Seq 3 Drainable Liquid Drip (Acid digest)	50X					
	21	✓								95-007935-A2	" " " " "	10X					
	22	✓								95-007935-A2	" " " " "	5X					
	23	✓							✓	PASS	MCVA 950728E901						
	24	✓							✓		SST-ICS-0 950908E100						
	25	✓							✓	PASS ⊗	MCVB 950911H901		↓	↓	↓	↓	↓

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [D]ark

[X] A solid vertical line denotes contiguous data.

M & T E # W D 0 0 5 6 0

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OPNOVP\DOS\ANSV\UNLOG1.F.72 (94-02-03)

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓		SRM-1643c 103668		K. Silvers	K28866	950255A	ICP1	9/12/95 DK
	1	✓						✓			CCV1 950713H901						
	1	✓					✓				STD1-Blank 108444						
	1	✓				✓	✓				STD1-Blank 108444						
	1	✓				✓					" 2 950830I102						
	1	✓				✓					" 3 3						
	1	✓				✓					" 4 4						
	1	✓				✓					" 5 5						
	1	✓				✓					" 6 6						
	"	✓				✓					" 7 7						
	"	✓				✓					" 8 8						
	"	✓				✓					" 9 9						
	"	✓					✓				STD1-Blank 108444						
	"	✓									2% HNO_3 Diluent Pump 108444						
	"	✓									"Pipeted" STD1-Blank 108444						
	"	✓									MCVA Ca Contamination check	SX					
	"	✓					✓				STD1-Blank 108444						
	"	✓							✓	Fail-K High	MCVA 950729I901						
	"	✓							✓	PASS	" "						
	"	✓							✓	PASS ⊗	MCVB 950911H901						
	"	✓							✓		SRM-1643c 103668						
	"	✓						✓			CCV1 950713H901						
	"	✓							✓		SST-ICS-1 950908I101						
	"	✓					✓				STD1-Blank 108444						
	"	✓								95-007941-N3	Method Blank (Na2O2 Fusion	SX					

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	✓									95-007941-N3	Method Blank (Na2O2 Fusion)	2X	K. Silvers	K28866	95D255A	ICP1	9/12/95 [illegible]
	✓									95-007941-N1	Segment 1 "	10X					
	✓									95-007941-N1	" " "	2X					
	✓									95-007941-N1-PS	" " Post Digest Spike "	5X					
	✓									95-007941-N2	" " Duplicate "	10X					
	✓									95-007941-N2	" " " "	2X					
	✓									95-007943-N1	Qtr Seg 2D "	10X					
	✓									95-007943-N1	" " " "	2X					
	✓								✓	Fail-Be, Li, Si Low	MCVA 950728I901						
	✓								✓	Fail-K High	" "						
	✓								✓	PASS	" "						
	✓								✓		SST-ICS-1 950908I101						
	✓						✓				STD1-Blank 108444						
	✓								✓		SST-ICS-1 960908I101						
	✓						✓				STD 1-Blank 108444						
	✓									95-007944-N1	Qtr Seg 3A (Na2O2 Fusion)	10X					
	✓									95-007944-N1	" " " "	2X					
	✓									95-007945-N1	" " 4A "	10X					
	✓									95-007945-N1	" " " "	2X					
	✓									95-007945-N1-PS	" " " Post Digest Spike "	5X					
	✓									95-007946-N1	" " 4B "	10X					
	✓									95-007946-N1	" " " "	2X					
	✓									95-007947-N1	" " 4C "	10X					
	✓									95-007947-N	" " " "	2X					
	✓								✓	PASS	MCVA 960728I901						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = (C)oncentration, (I)ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓		SST-ICS-1 950908I101		K. Silvers	K28966	950255A	ICP1	9/13/95 [illegible]
	2	✓					✓				STD1-Blank 108444						
	3	✓								95-007948-N1	Qtr Seg 4D (Na2O2 Fusion)	10X					
	4	✓								95-007948-N1	" " " "	2X					
	5	✓									SRM-2709-N "	10X					
	6	✓									" " " "	2X					
	7	✓							✓	PASS	MCVA 950728I901						
	8	✓							✓		SST-ICS-1 950908I101						
	9	✓							✓	PASS⊗	MCVB 950911H901						
	10	✓							✓		SRM-1643C 103668						
	11	✓						✓			CCV1 950713H901						
	12	✓					✓				STD1-Blank 108444						
	13																
	14																
	15																
	16																
	17																
	18																
	19																
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\PROGRAMS\RUNLOG.TJ2 (04-02-93)

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95D255A ICV-325-405-1 9/12/95 DRS

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D255A	ICP1	09/12/95	08:52	DRS	S	INT
2	SPC-BLK 108444	95D255A	ICP1	09/12/95	08:52	DRS	S	CONC
3	SPC-STD 950831I101	95D255A	ICP1	09/12/95	08:55	DRS	S	INT
4	SPC-STD 950831I101	95D255A	ICP1	09/12/95	08:55	DRS	S	CONC
5	STD1-Blank	95D255A	ICP1	09/12/95	09:02		X	IR
6	STD2	95D255A	ICP1	09/12/95	09:04		X	IR
7	STD3	95D255A	ICP1	09/12/95	09:08		X	IR
8	STD4	95D255A	ICP1	09/12/95	09:11		X	IR
9	STD5	95D255A	ICP1	09/12/95	09:15		X	IR
10	STD6	95D255A	ICP1	09/12/95	09:18		X	IR
11	STD7	95D255A	ICP1	09/12/95	09:22		X	IR
12	STD8	95D255A	ICP1	09/12/95	09:26		X	IR
13	STD9	95D255A	ICP1	09/12/95	09:29		X	IR
14	STD1-Blank 108444	95D255A	ICP1	09/12/95	09:39	DRS	S	CONC
15	MCVA 950728I901	95D255A	ICP1	09/12/95	09:43	DRS	Q	CONC
16	MCVB 950911H901	95D255A	ICP1	09/12/95	09:46	DRS	Q	CONC
17	SRM-1643c 103668	95D255A	ICP1	09/12/95	09:50	DRS	Q	CONC
18	CCV1 950713H901	95D255A	ICP1	09/12/95	09:55	DRS	S	CONC
19	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	10:00	DRS	S	CONC
20	STD1-Blank 108444	95D255A	ICP1	09/12/95	10:06	DRS	S	CONC
21	95-007932-A3 @2	95D255A	ICP1	09/12/95	10:09	DRS	S	CONC
22	95-007932-A3	95D255A	ICP1	09/12/95	10:13	DRS	S	CONC
23	95-007932-A4 @2	95D255A	ICP1	09/12/95	10:19	DRS	S	CONC
24	95-007932-A4 @10	95D255A	ICP1	09/12/95	10:24	DRS	S	CONC
25	95-007932-A4 @50	95D255A	ICP1	09/12/95	10:29	DRS	S	CONC
26	Na @500 PPM	95D255A	ICP1	09/12/95	10:33	DRS	S	CONC
27	95-007932-A5 @50	95D255A	ICP1	09/12/95	10:39	DRS	S	CONC
28	95-007932-A5 @10	95D255A	ICP1	09/12/95	10:43	DRS	S	CONC
29	95-007932-A5	95D255A	ICP1	09/12/95	10:47	DRS	S	CONC
30	MCVA 950728I901	95D255A	ICP1	09/12/95	10:51	DRS	Q	CONC
31	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	10:57	DRS	S	CONC
32	STD1-Blank 108444	95D255A	ICP1	09/12/95	11:01	DRS	S	CONC
33	95-007932-A1 @50	95D255A	ICP1	09/12/95	11:03	DRS	S	CONC
34	95-007932-A1 @10	95D255A	ICP1	09/12/95	11:07	DRS	S	CONC
35	95-007932-A1 @5	95D255A	ICP1	09/12/95	11:14	DRS	S	CONC
36	95-007932-A2 @50	95D255A	ICP1	09/12/95	11:18	DRS	S	CONC
37	95-007932-A2 @10	95D255A	ICP1	09/12/95	11:22	DRS	S	CONC
38	95-007932-A2 @5	95D255A	ICP1	09/12/95	11:26	DRS	S	CONC
39	95-007935-A1 @50	95D255A	ICP1	09/12/95	11:30	DRS	S	CONC
40	95-007935-A1 @10	95D255A	ICP1	09/12/95	11:34	DRS	S	CONC
41	95-007935-A1 @5	95D255A	ICP1	09/12/95	11:38	DRS	S	CONC
42	STD9 FOR W @50 PPM	95D255A	ICP1	09/12/95	11:43	DRS	S	CONC
43	MCVA 950728I901	95D255A	ICP1	09/12/95	11:47	DRS	Q	CONC
44	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	11:51	DRS	S	CONC
45	STD1-Blank 108444	95D255A	ICP1	09/12/95	11:55	DRS	S	CONC
46	95-007935-A2 @50	95D255A	ICP1	09/12/95	11:57	DRS	S	CONC
47	95-007935-A2 @10	95D255A	ICP1	09/12/95	12:01	DRS	S	CONC
48	95-007935-A2 @5	95D255A	ICP1	09/12/95	12:05	DRS	S	CONC
49	MCVA 950728I901	95D255A	ICP1	09/12/95	12:09	DRS	Q	CONC
50	SST-ICS-0 950908I100	95D255A	ICP1	09/12/95	12:13	DRS	S	CONC
51	MCVB 950911H901	95D255A	ICP1	09/12/95	12:17	DRS	Q	CONC
52	SRM-1643c 103668	95D255A	ICP1	09/12/95	12:21	DRS	Q	CONC
53	CCV1 950713H901	95D255A	ICP1	09/12/95	12:25	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	STD1-Blank 108444	95D255A	ICP1	09/12/95	12:29	DRS	S	CONC
55	STD1-Blank	95D255A	ICP1	09/12/95	13:51		X	IR
56	STD2	95D255A	ICP1	09/12/95	13:53		X	IR
57	STD3	95D255A	ICP1	09/12/95	13:57		X	IR
58	STD4	95D255A	ICP1	09/12/95	14:01		X	IR
59	STD5	95D255A	ICP1	09/12/95	14:05		X	IR
60	STD6	95D255A	ICP1	09/12/95	14:08		X	IR
61	STD7	95D255A	ICP1	09/12/95	14:12		X	IR
62	STD8	95D255A	ICP1	09/12/95	14:16		X	IR
63	STD9	95D255A	ICP1	09/12/95	14:20		X	IR
64	STD1-Blank 108444	95D255A	ICP1	09/12/95	14:35	DRS	S	CONC
65	2% HNO3 DILUENT PUMP	95D255A	ICP1	09/12/95	14:37	DRS	S	CONC
66	"PIPETED" STD1-BLK	95D255A	ICP1	09/12/95	14:40	DRS	S	CONC
67	MCVA @5X	95D255A	ICP1	09/12/95	14:43	DRS	S	CONC
68	STD1-Blank 108444	95D255A	ICP1	09/12/95	14:46	DRS	S	CONC
69	MCVA 950728H901	95D255A	ICP1	09/12/95	14:49	DRS	Q	CONC
70	MCVA 950728H901	95D255A	ICP1	09/12/95	14:58	DRS	Q	CONC
71	MCVB 950911H901	95D255A	ICP1	09/12/95	15:02	DRS	Q	CONC
72	SRM-1643c 103668	95D255A	ICP1	09/12/95	15:06	DRS	Q	CONC
73	CCV1 950713H901	95D255A	ICP1	09/12/95	15:10	DRS	S	CONC
✓74	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	15:18	DRS	S	CONC
75	STD1-Blank 108444	95D255A	ICP1	09/12/95	15:24	DRS	S	CONC
76	95-007941-N3 @5	95D255A	ICP1	09/12/95	15:26	DRS	S	CONC
77	95-007941-N3 @2	95D255A	ICP1	09/12/95	15:30	DRS	S	CONC
78	95-007941-N1 @10	95D255A	ICP1	09/12/95	15:35	DRS	S	CONC
79	95-007941-N1 @2	95D255A	ICP1	09/12/95	15:39	DRS	S	CONC
✓80	95-007941-N1 PSRS	95D255A	ICP1	09/12/95	15:45	DRS	S	CONC
81	95-007941-N2 @10	95D255A	ICP1	09/12/95	15:51	DRS	S	CONC
82	95-007941-N2 @2	95D255A	ICP1	09/12/95	15:59	DRS	S	CONC
83	95-007943-N1 @10	95D255A	ICP1	09/12/95	16:04	DRS	S	CONC
84	95-007943-N1 @2	95D255A	ICP1	09/12/95	16:10	DRS	S	CONC
85	MCVA 950728I901	95D255A	ICP1	09/12/95	16:15	DRS	Q	CONC
86	MCVA 950728I901	95D255A	ICP1	09/12/95	16:19	DRS	Q	CONC
87	MCVA 950728I901	95D255A	ICP1	09/12/95	16:39	DRS	Q	CONC
✓88	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	16:44	DRS	S	CONC
89	STD1-Blank 108444	95D255A	ICP1	09/12/95	16:48	DRS	S	CONC
✓90	SST-ICS-1 9509[illegible]I101	95D255A	ICP1	09/12/95	16:53	DRS	S	CONC
91	STD1-Blank 108444	95D255A	ICP1	09/12/95	17:05	DRS	S	CONC
92	95-007944-N1 @10	95D255A	ICP1	09/12/95	17:07	DRS	S	CONC
93	95-007944-N1 @2	95D255A	ICP1	09/12/95	17:10	DRS	S	CONC
94	95-007945-N1 @10	95D255A	ICP1	09/12/95	17:15	DRS	S	CONC
95	95-007945-N1 @2	95D255A	ICP1	09/12/95	17:19	DRS	S	CONC
96	95-007945-N1-PS @5	95D255A	ICP1	09/12/95	17:22	DRS	S	CONC
97	95-007946-N1 @10	95D255A	ICP1	09/12/95	17:26	DRS	S	CONC
98	95-007946-N1 @2	95D255A	ICP1	09/12/95	17:30	DRS	S	CONC
99	95-007947-N1 @10	95D255A	ICP1	09/12/95	17:34	DRS	S	CONC
100	95-007947-N1 @2	95D255A	ICP1	09/12/95	17:39	DRS	S	CONC
101	MCVA 950728I901	95D255A	ICP1	09/12/95	17:44	DRS	Q	CONC
✓102	SST-ICS-1 95-9[illegible]I101	95D255A	ICP1	09/12/95	17:52	DRS	S	CONC
103	STD1-Blank 108444	95D255A	ICP1	09/12/95	17:56	DRS	S	CONC
104	95-007948-N1 @10	95D255A	ICP1	09/12/95	17:58	DRS	S	CONC
105	95-007948-N1 @2	95D255A	ICP1	09/12/95	18:02	DRS	S	CONC
106	SRM-2709-N @10X DIL	95D255A	ICP1	09/12/95	18:08	DRS	S	CONC
107	SRM-2709-N @2	95D255A	ICP1	09/12/95	18:12	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	MCVA 950728I901	95D255A	ICP1	09/12/95	18:17	DRS	Q	CONC
109	SST-ICS-1 95-9111101	95D255A	ICP1	09/12/95	18:20	DRS	S	CONC
110	MCVB 950911H901	95D255A	ICP1	09/12/95	18:25	DRS	Q	CONC
111	SRM-1643c 103668	95D255A	ICP1	09/12/95	18:29	DRS	Q	CONC
112	CCV1 950713H901	95D255A	ICP1	09/12/95	18:33	DRS	S	CONC
113	STD1-Blank 108444	95D255A	ICP1	09/12/95	18:36	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6567.67	2085.33	1662.67	1068.67	305.667	172
2	SPC-BLK 108444	.0021	-.0050	-.0098	-.0006	.0003	-.0000
3	SPC-STD 950831I101	6729.33	2133.33	1730.33	1117	310.667	173.333
4	SPC-STD 950831I101	.0065	-.0017	.0137	.0038	.0009	.0000
5	STD1-Blank	.65596	.20796	.1659	.10539	.0304	.0172
6	STD2					8.38829	
7	STD3		75.8081		51.7494		
8	STD4						
9	STD5			27.9472			
10	STD6						
11	STD7						1.92826
12	STD8	30.8951					
13	STD9						
14	STD1-Blank 108444	-.0007	.0033	.0075	.0080	.0002	.0000
15	MCVA 950728I901	.4884	24.98	2.595	1.996	.5074	.0947
16	MCVB 950911H901	.0012	-.1766	.0196	.0076	.0008	.0003
17	SRM-1643c 103668	.0023	.1120	Q.0914	Q.1155	.0482	.0218
18	CCV1 950713H901	-.0006	1.913	2.013	1.951	.9987	.9769
19	SST-ICS-0 950908I100	-.0074	97.39	.1145	.0038	.0004	.0007
20	STD1-Blank 108444	.0006	.0062	.0105	.0036	.0002	.0000
21	95-007932-A3 @2	-.0003	.0717	.0139	.8091	.0014	-.0000
22	95-007932-A3	-.0012	.1267	.0087	1.584	.0019	-.0001
23	95-007932-A4 @2	k.0122	S5289.	k-47.70	k1.747	k.0036	k.0114
24	95-007932-A4 @10	.0027	284.9	.2380	.3767	.0013	.0025
25	95-007932-A4 @50	-.0028	58.98	.0374	.0792	-.0001	.0004
26	Na @500 PPM	-.0009	.0461	.0061	.0868	.0001	-.0000
27	95-007932-A5 @50	-.0018	.1782	.0015	.0415	-.0000	-.0000
28	95-007932-A5 @10	-.0017	.9133	.0039	.2045	.0000	-.0000
29	95-007932-A5	-.0101	8.746	.0029	1.927	.0005	-.0001
30	MCVA 950728I901	.4911	25.18	2.630	2.004	.5111	.0951
31	SST-ICS-0 950908I100	-.0082	97.86	.1193	-.0011	.0003	.0007
32	STD1-Blank 108444	-.0016	.0064	.0052	.0019	.0000	-.0000
33	95-007932-A1 @50	-.0020	57.82	.0432	.0692	-.0001	.0004
34	95-007932-A1 @10	.0021	283.6	.2428	.3431	.0010	.0024
35	95-007932-A1 @5	.0064	549.7	.4831	.6464	.0017	.0047
36	95-007932-A2 @50	.0002	55.47	.0579	.0650	.0003	.0004
37	95-007932-A2 @10	.0036	279.4	.2598	.3233	.0012	.0024
38	95-007932-A5 @5	.0066	542.4	.5074	.6228	.0020	.0047
39	95-007935-A1 @50	-.0013	60.48	.0629	.0744	.0005	.0005
40	95-007935-A1 @10	-.0051	299.5	.2712	.3552	.0014	.0026
41	95-007935-A1 @5	-.0146	603.9	.4878	.7089	.0021	.0051
42	STD9 FOR W @50 PPM	-.0576	1.231	.1083	4.591	.0063	.0001
43	MCVA 950728I901	.4855	24.85	2.594	1.996	.5055	.0939
44	SST-ICS-0 950908I100	-.0111	99.60	.1148	.0032	.0001	.0006
45	STD1-Blank 108444	-.0016	.0071	.0077	.0052	.0000	-.0000
46	95-007935-A2 @50	-.0032	61.65	.0434	.0776	.0004	.0004
47	95-007935-A2 @10	-.0053	299.4	.2597	.3566	.0025	.0026
48	95-007935-A2 @5	-.0140	600.9	.5046	.7123	.0033	.0051
49	MCVA 950728I901	.4884	24.92	2.615	2.005	.5083	.0946
50	SST-ICS-0 950908I100	-.0082	96.98	.1334	.0019	.0007	.0007
51	MCVB 950911H901	.0018	-.1534	.0303	.0022	.0005	.0002
52	SRM-1643c 103668	Q-.0015	Q.1056	Q.0931	Q.1163	.0492	.0221
53	CCV1 950713H901	-.0005	1.922	2.055	1.966	1.004	.9774

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	STD1-Blank 108444	-.0013	.0019	.0094	.0026	.0001	.0000
55	STD1-Blank	.6334	.20329	.16189	.10183	.02976	.01666
56	STD2					8.20553	
57	STD3		75.2325		51.1415		
58	STD4						
59	STD5			27.5388			
60	STD6						
61	STD7						1.87776
62	STD8	30.5297					
63	STD9						
64	STD1-Blank 108444	-.0008	-.0033	-.0001	.0045	-.0001	.0000
65	2% HNO3 DILUENT PUMP	.0018	.0054	.0061	.0075	.0003	.0001
66	"PIPETED" STD1-BLK	.0015	.0052	.0070	.0054	.0004	.0000
67	MCVA @5X	.0982	5.015	.5176	.4049	.1032	.0190
68	STD1-Blank 108444	-.0026	-.0100	-.0081	.0030	-.0004	.0000
69	MCVA 950728H901	.4875	25.04	2.563	1.983	.5141	.0935
70	MCVA 950728H901	.4846	24.53	2.548	1.969	.5078	.0927
71	MCVB 950911H901	-.0010	-.1934	-.0100	.0096	-.0001	.0002
72	SRM-1643c 103668	Q-.0020	Q.0921	Q.0723	Q.1167	.0495	.0217
73	CCV1 950713H901	-.0006	1.885	1.988	1.923	1.007	.9548
74	SST-ICS-1 950911I101	-.0054	89.85	.1300	.0026	.0006	.0008
75	STD1-Blank 108444	.0004	-.0041	-.0048	-.0005	-.0001	.0000
76	95-007941-N3 @5	-.0077	.0365	.0058	.1309	.0024	.0002
77	95-007941-N3 @2	-.0166	.0900	.0215	.3049	.0061	.0004
78	95-007941-N1 @10	.0052	15.30	.0244	.1030	.0028	.0001
79	95-007941-N1 @2	.0118	69.08	.1105	.4589	.0102	.0004
80	95-007941-N1 SPK@2.5	.0168	34.23	.0884	.1783	.0065	.0007
81	95-007941-N2 @10	.0102	13.75	.0373	.1086	.0043	.0003
82	95-007941-N2 @2	.0113	64.05	.1212	.4910	.0109	.0005
83	95-007943-N1 @10	.0127	14.48	.0398	.0394	.0055	.0004
84	95-007943-N1 @2	.0089	68.68	.1264	.1656	.0151	.0007
85	MCVA 950728I901	.4630	23.03	2.448	1.835	.4719	Q.0879
86	MCVA 950728I901	.4901	25.25	2.566	1.991	.5209	.0940
87	MCVA 950728I901	.4842	24.07	2.535	1.937	.5086	.0918
88	SST-ICS-1 950911I101	-.0030	89.11	.1833	.0154	.0014	.0007
89	STD1-Blank 108444	.0025	.0152	-.0008	.0082	.0006	.0001
90	SST-ICS-1 950911I101	-.0060	91.82	.1641	.0074	.0010	.0007
91	STD1-Blank 108444	.0004	.0306	.0007	.0247	-.0000	.0000
92	95-007944-N1 @10	.0025	3.648	.0219	.1076	.0027	.0001
93	95-007944-N1 @2	.0059	17.07	.0525	.4215	.0111	.0003
94	95-007945-N1 @10	.0017	1.717	.0200	.0493	.0333	.0001
95	95-007945-N1 @2	.0024	8.033	.0646	.2099	.1477	.0005
96	95-007945-N1-PS @5	.0032	12.31	.0524	.0890	.0638	.0005
97	95-007946-N1 @10	.0008	1.280	.0273	.0547	.0668	.0002
98	95-007946-N1 @2	-.0026	6.027	.0579	.2331	.2993	.0007
99	95-007947-N1 @10	.0055	.8162	.0251	.0302	.0124	.0002
100	95-007947-N1 @2	.0057	3.886	.0598	.1331	.0519	.0005
101	MCVA 950728I901	.4936	24.55	2.627	1.966	.5223	.0953
102	SST-ICS-1 95-911I101	-.0060	91.24	.1788	.0002	.0007	.0007
103	STD1-Blank 108444	.0026	.0102	.0030	.0002	.0002	.0000
104	95-007948-N1 @10	.0048	.9648	.0325	.0485	.0147	.0001
105	95-007948-N1 @2	.0076	4.496	.0634	.2188	.0631	.0005
106	SRM-2709-N @10X DIL	.0022	10.53	.0495	.0362	.1388	.0011
107	SRM-2709-N @2	-.0168	50.30	.1433	.1672	.6347	.0046

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#	Sample Name	Ag	Al	As	B	Ba	Be
108	MCVA 950728I901	.4751	23.91	2.523	1.915	.5116	.0920
109	SST-ICS-1 95-911I101	-.0050	89.95	.1776	-.0003	.0010	.0007
110	MCVB 950911H901	.0014	-.1825	-.0002	-.0041	.0005	.0003
111	SRM-1643c 103668	Q-.0014	Q.0963	Q.0879	Q.1081	.0510	.0221
112	CCV1 950713H901	.0001	1.881	2.012	1.900	1.026	.9633
113	STD1-Blank 108444	-.0009	-.0002	.0028	-.0038	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1438	1255.67	444	6274.33	1420.67	470.333
2	SPC-BLK 108444	.0030	.0012	.0004	.0171	.0004	-.0004
3	SPC-STD 950831I101	1711.33	1253.67	453.333	6344.33	1445.67	486.333
4	SPC-STD 950831I101	-.0022	-.0003	.0011	.0293	.0030	.0020
5	STD1-Blank	.14199	.1253	.0452	.62663	.14136	.04713
6	STD2					18.078	13.1584
7	STD3		81.0996	10.1952			
8	STD4						
9	STD5				25.7538		
10	STD6						
11	STD7						
12	STD8	27.7597					
13	STD9						
14	STD1-Blank 108444	.0030	.0006	-.0011	-.0006	.0005	.0018
15	MCVA 950728I901	24.71	25.09	.5044	-.0270	1.027	1.027
16	MCVB 950911H901	.0163	.0256	-.0003	1.947	.0040	.0016
17	SRM-1643c 103668	.0293	Q35.05	Q.0104	.0096	Q.0258	Q.0204
18	CCV1 950713H901	1.936	1.943	.9893	.0022	1.036	.5165
19	SST-ICS-0 950908I100	.0562	.0752	.0087	-.1271	.0062	.0357
20	STD1-Blank 108444	.0066	.0024	-.0009	.0029	.0018	-.0001
21	95-007932-A3 @2	.0003	.0397	-.0002	-.0038	.0014	.0001
22	95-007932-A3	-.0012	.0126	-.0013	-.0106	.0005	.0016
23	95-007932-A4 @2	k.1827	k2.359	k.5727	k.0279	k.3063	k10.79
24	95-007932-A4 @10	.0408	.5924	.0238	.0156	.0690	2.376
25	95-007932-A4 @50	.0062	.0909	.0047	-.0202	.0130	.4970
26	Na @500 PPM	.0003	.3083	-.0008	.0262	.0004	.0008
27	95-007932-A5 @50	.0002	.0555	.0039	.0089	.0003	.0280
28	95-007932-A5 @10	.0073	.4436	.0211	-.0019	.0002	.1393
29	95-007932-A5	-.0180	4.236	.2066	-.0630	-.0066	1.314
30	MCVA 950728I901	24.82	25.22	.5009	-.0354	1.034	1.034
31	SST-ICS-0 950908I100	.0578	.0766	.0069	-.1322	.0048	.0352
32	STD1-Blank 108444	.0000	.0007	-.0012	-.0079	.0001	-.0003
33	95-007932-A1 @50	.0015	-.0280	-.0010	-.0107	.0127	.4563
34	95-007932-A1 @10	.0415	.0035	.0007	.0072	.0703	2.238
35	95-007932-A1 @5	.0759	.0360	.0014	.0184	.1326	4.290
36	95-007932-A2 @50	.0090	-.0231	-.0001	.0008	.0151	.4438
37	95-007932-A2 @10	.0439	.0039	-.0007	.0142	.0711	2.218
38	95-007932-A5 @5	.0776	.0430	.0021	.0246	.1329	4.243
39	95-007935-A1 @50	.0118	-.0185	-.0013	.0053	.0148	.4857
40	95-007935-A1 @10	.0430	.0255	-.0021	.0215	.0705	2.351
41	95-007935-A1 @5	.0773	.0852	-.0001	.0162	.1339	4.633
42	STD9 FOR W @50 PPM	.0033	.0313	-.0008	-.0105	.0058	.0009
43	MCVA 950728I901	24.60	24.96	.4939	-.0349	1.024	1.016
44	SST-ICS-0 950908I100	.0582	.0752	.0071	-.1639	.0030	.0370

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
45	STD1-Blank 108444	.0003	.0016	-.0005	-.0104	.0006	-.0001
46	95-007935-A2 @50	.0123	-.0240	-.0006	-.0074	.0143	.4801
47	95-007935-A2 @10	.0353	.0224	.0003	.0193	.0709	2.328
48	95-007935-A2 @5	.0753	.0724	.0000	.0217	.1341	4.608
49	MCVA 950728I901	24.66	25.19	.4945	-.0325	1.035	1.031
50	SST-ICS-0 950908I100	.0642	.0788	.0066	-.1391	.0058	.0367
51	MCVB 950911H901	-.0029	.0230	.0009	1.979	.0036	.0012
52	SRM-1643c 103668	.0128	35.72	.0112	-.0142	Q.0252	Q.0220
53	CCV1 950713H901	1.943	1.958	.9877	-.0034	1.046	.5169
54	STD1-Blank 108444	.0091	.0032	-.0019	-.0089	.0011	.0008
55	STD1-Blank	.13779	.12286	.0438	.60696	.13746	.04596
56	STD2					17.6271	12.6761
57	STD3		79.4342	9.97683			
58	STD4						
59	STD5				25.3919		
60	STD6						
61	STD7						
62	STD8	27.3371					
63	STD9						
64	STD1-Blank 108444	-.0008	-.0005	-.0001	-.0018	.0000	-.0013
65	2% HNO3 DILUENT PUMP	.0069	-.0360	.0007	.0125	.0015	.0006
66	"PIPETED" STD1-BLK	.0042	.0102	-.0012	.0098	.0019	-.0006
67	MCVA @5X	4.985	5.017	.0983	-.0063	.2098	.2084
68	STD1-Blank 108444	-.0042	-.0028	.0001	-.0144	-.0014	-.0012
69	MCVA 950728H901	24.53	24.80	.4914	-.0420	1.026	1.028
70	MCVA 950728H901	24.35	24.67	.4973	-.0269	1.026	1.026
71	MCVB 950911H901	-.0045	.0116	.0004	1.968	.0008	.0013
72	SRM-1643c 103668	.0061	Q34.85	Q.0135	-.0142	Q.0202	.0186
73	CCV1 950713H901	1.899	1.903	.9803	.0031	1.034	.5141
74	SST-ICS-1 950911I101	.0601	.0433	.0103	-.0917	.0078	.0379
75	STD1-Blank 108444	.0036	-.0032	.0011	.0220	-.0004	-.0019
76	95-007941-N3 @5	.0100	.8145	.0014	-.1310	.0032	.0096
77	95-007941-N3 @2	.0353	1.950	.0039	-.3126	.0087	.0257
78	95-007941-N1 @10	.0081	.4168	.0013	.0375	.0045	.0195
79	95-007941-N1 @2	.0397	2.031	.0049	.0983	.0132	.0842
80	95-007941-N1 SPK@2.5	.0493	4.902	.2187	.1187	.0159	1.293
81	95-007941-N2 @10	.0343	.3780	.0027	.0654	.0098	.0199
82	95-007941-N2 @2	.0524	1.881	.0046	.0468	.0163	.0801
83	95-007943-N1 @10	.0374	.4089	.0043	.0797	.0131	.0440
84	95-007943-N1 @2	.0679	1.984	.0064	-.0100	.0217	.1985
85	MCVA 950728I901	23.06	23.72	.4755	.0153	.9869	.9846
86	MCVA 950728I901	24.72	24.81	.4996	-.0436	1.034	1.036
87	MCVA 950728I901	24.15	24.29	.4877	-.0106	1.012	1.007
88	SST-ICS-1 950911I101	.0705	.0546	.0111	-.1090	.0113	.0390
89	STD1-Blank 108444	.0064	.0041	.0013	.0170	.0022	-.0008
90	SST-ICS-1 950911I101	.0629	.0486	.0102	-.1264	.0102	.0410
91	STD1-Blank 108444	-.0036	.0164	.0014	.0015	.0009	-.0005
92	95-007944-N1 @10	.0090	.4451	.0018	.0100	.0043	.0213
93	95-007944-N1 @2	.0385	2.162	.0035	.0185	.0143	.1024
94	95-007945-N1 @10	.1482	1.753	.0018	.0032	.0056	.0689
95	95-007945-N1 @2	.7154	8.318	.0052	-.0301	.0212	.3214
96	95-007945-N1-PS @5	.3068	8.070	.2404	-.0005	.0127	1.572
97	95-007946-N1 @10	.3293	1.753	.0021	-.0169	.0067	.0559
98	95-007946-N1 @2	1.520	8.324	.0060	-.0898	.0204	.2578

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
99	95-007947-N1 @10	.1128	2.245	.0022	.0294	.0076	.0115
100	95-007947-N1 @2	.4879	10.79	.0049	.0229	.0175	.0509
101	MCVA 950728I901	24.84	24.91	.4946	-.0325	1.043	1.039
102	SST-ICS-1 95-911I101	.0656	.0467	.0091	-.1297	.0106	.0404
103	STD1-Blank 108444	-.0006	.0034	.0022	.0101	.0025	-.0010
104	95-007948-N1 @10	.1277	1.329	.0027	.0263	.0075	.0140
105	95-007948-N1 @2	.5919	6.306	.0069	.0600	.0202	.0601
106	SRM-2709-N @10X DIL	.0288	3.228	.0032	-.0228	.0116	.0369
107	SRM-2709-N @2	.0719	15.22	.0069	-.3170	.0259	.1595
108	MCVA 950728I901	23.96	23.95	.4708	-.0429	1.008	1.006
109	SST-ICS-1 95-911I101	.0596	.0481	.0099	-.1214	.0111	.0417
110	MCVB 950911H901	-.0065	.0113	.0009	2.003	.0038	.0012
111	SRM-1643c 103668	.0045	Q35.00	Q.0100	-.0180	.0227	Q.0197
112	CCV1 950713H901	1.928	1.899	.9696	.0012	1.037	.5174
113	STD1-Blank 108444	-.0022	-.0049	.0003	-.0034	.0002	-.0018

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	453.667	1943.33	337	561.667	2165.33	988.667
2	SPC-BLK 108444	-.0028	.0010	.0004	-.0006	.6901	.0014
3	SPC-STD 950831I101	23836	2199	341	624.667	2192.67	1004
4	SPC-STD 950831I101	10.27	-.0004	.0009	.0001	1.139	.0058
5	STD1-Blank	.04666	.19363	.03363	.05623	.21609	.09856
6	STD2	4.68363			76.8637		
7	STD3					3.1728	
8	STD4		50.5839	11.6515			6.39973
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0003	-.0009	.0000	-.0010	-.1184	-.0004
15	MCVA 950728I901	.9978	-.0004	.0021	20.44	25.95	.0039
16	MCVB 950911H901	.0030	1.929	1.920	.0063	.2818	1.925
17	SRM-1643c 103668	.0209	-.0001	.0013	Q.1190	2.227	.0072
18	CCV1 950713H901	2.014	-.0008	.0005	2.016	4.814	.0006
19	SST-ICS-0 950908I100	-.0069	-.0039	.0006	19.91	.0000	.0045
20	STD1-Blank 108444	-.0008	.0003	.0003	.0010	-.0169	.0012
21	95-007932-A3 @2	.0026	-.0007	.0000	.0130	-.2086	-.0009
22	95-007932-A3	-.0020	-.0026	-.0006	.0194	-.6821	-.0029
23	95-007932-A4 @2	k.1440	k.0019	k.0027	k4.277	107.0	k.0176
24	95-007932-A4 @10	.0266	.0006	.0007	.9499	23.31	.0048
25	95-007932-A4 @50	-.0003	-.0029	-.0006	.1996	4.425	-.0042
26	Na @500 PPM	-.0046	-.0006	-.0000	.0029	-.2931	-.0004
27	95-007932-A5 @50	-.0055	-.0012	-.0002	.0042	-.0113	-.0014
28	95-007932-A5 @10	-.0051	-.0022	-.0003	.0061	1.488	-.0019
29	95-007932-A5	-.0081	-.0139	-.0033	.0195	16.98	-.0151
30	MCVA 950728I901	.9968	-.0001	.0020	20.57	26.72	.0044
31	SST-ICS-0 950908I100	-.0182	-.0038	.0005	19.95	-.0789	.0039
32	STD1-Blank 108444	-.0039	-.0004	-.0001	.0015	-.3269	-.0009
33	95-007932-A1 @50	.0010	-.0014	-.0003	.1971	4.346	-.0020
34	95-007932-A1 @10	.0282	.0010	.0009	.9478	21.25	.0044
35	95-007932-A1 @5	.0573	.0030	.0016	1.811	40.74	.0099

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
36	95-007932-A2 @50	.0025	.0009	.0004	.1922	4.340	.0019
37	95-007932-A2 @10	.0281	.0024	.0013	.9398	20.91	.0069
38	95-007932-A5 @5	.0580	.0035	.0019	1.797	39.51	.0109
39	95-007935-A1 @50	.0125	.0011	.0005	.1619	4.459	.0027
40	95-007935-A1 @10	.0772	.0036	.0015	.7766	22.24	.0088
41	95-007935-A1 @5	.1572	.0024	.0017	1.520	43.40	.0094
42	STD9 FOR W @50 PPM	-.0001	.0008	.0003	.0337	-.3044	-.0004
43	MCVA 950728I901	.9870	-.0002	.0019	20.34	25.95	.0042
44	SST-ICS-0 950908I100	-.0166	-.0056	-.0002	20.18	-.4848	-.0003
45	STD1-Blank 108444	-.0018	-.0006	-.0002	.0004	-.5355	-.0015
46	95-007935-A2 @50	.0135	-.0004	.0001	.1750	4.538	.0003
47	95-007935-A2 @10	.0794	.0033	.0014	.8304	22.49	.0089
48	95-007935-A2 @5	.1574	.0032	.0018	1.628	43.37	.0109
49	MCVA 950728I901	.9896	.0004	.0021	20.51	25.39	.0052
50	SST-ICS-0 950908I100	-.0154	-.0021	.0008	19.89	.0000	.0049
51	MCVB 950911H901	-.0109	1.958	1.947	.0071	-.0958	1.959
52	SRM-1643c 103668	Q.0150	-.0019	.0004	Q.1190	Q1.640	.0030
53	CCV1 950713H901	2.012	.0000	.0004	2.031	4.673	.0011
54	STD1-Blank 108444	-.0008	-.0005	-.0001	-.0014	-.4904	-.0007
55	STD1-Blank	.04476	.18886	.03283	.05423	.2097	.09643
56	STD2	4.54556			74.6954		
57	STD3					3.00316	
58	STD4		49.6677	11.4511			6.31243
59	STD5						
60	STD6						
61	STD7						
62	STD8						
63	STD9						
64	STD1-Blank 108444	.0046	-.0010	-.0002	-.0007	-.1909	-.0012
65	2% HNO3 DILUENT PUMP	.0049	.0012	.0005	.0059	.3878	.0028
66	"PIPETED" STD1-BLK	.0063	.0014	.0005	.0013	.2923	.0019
67	MCVA @5X	.2057	-.0005	.0004	4.177	5.495	.0004
68	STD1-Blank 108444	.0019	-.0024	-.0006	-.0013	-.5191	-.0043
69	MCVA 950728H901	1.014	-.0007	.0018	20.47	Q27.79	.0033
70	MCVA 950728H901	1.005	.0010	.0023	20.35	26.21	.0061
71	MCVB 950911H901	-.0051	2.004	1.991	.0033	-.2557	2.004
72	SRM-1643c 103668	Q.0156	-.0032	.0001	Q.1168	Q1.953	.0010
73	CCV1 950713H901	2.048	-.0003	.0002	2.006	5.295	-.0009
74	SST-ICS-1 950911I101	-.0143	.0007	.0019	17.89	.4591	.0098
75	STD1-Blank 108444	-.0031	-.0000	.0002	-.0012	.0232	-.0002
76	95-007941-N3 @5	.0022	.0049	.0018	.0640	.5986	.0059
77	95-007941-N3 @2	.0119	.0126	.0047	.1427	1.761	.0153
78	95-007941-N1 @10	.0110	.0050	.0016	.1575	1.075	.0085
79	95-007941-N1 @2	.0596	.0122	.0039	.6802	2.976	.0241
80	95-007941-N1 SPK@2.5	.0248	.0144	.0050	.2788	18.78	.0305
81	95-007941-N2 @10	.0065	.0118	.0036	.1542	2.551	.0203
82	95-007941-N2 @2	.0203	.0175	.0058	.6675	3.894	.0303
83	95-007943-N1 @10	.0102	.0158	.0047	.1416	3.487	.0265
84	95-007943-N1 @2	.0226	.0206	.0066	.6137	4.981	.0339
85	MCVA 950728I901	.9354	.0069	.0039	19.35	24.89	.0154
86	MCVA 950728I901	1.029	-.0017	.0013	20.59	Q29.12	.0024
87	MCVA 950728I901	1.009	.0035	.0032	20.12	27.26	.0111
88	SST-ICS-1 950911I101	-.0072	.0040	.0026	18.16	1.112	.0136
89	STD1-Blank 108444	.0024	.0033	.0008	.0010	.5722	.0046

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
90	SST-ICS-1 950911I101	-.0136	.0017	.0021	18.66	.7234	.0110
91	STD1-Blank 108444	.0009	.0005	.0001	-.0008	.0818	.0005
92	95-007944-N1 @10	.0050	.0037	.0012	.1841	.8948	.0070
93	95-007944-N1 @2	.0212	.0104	.0035	.8280	2.575	.0200
94	95-007945-N1 @10	.0042	.0031	.0013	2.292	.7366	.0110
95	95-007945-N1 @2	.0188	.0083	.0041	10.46	2.504	.0415
96	95-007945-N1-PS @5	.0012	.0036	.0024	4.413	18.50	.0230
97	95-007946-N1 @10	.0042	.0039	.0016	3.203	.9767	.0096
98	95-007946-N1 @2	.0169	.0072	.0046	14.65	2.641	.0307
99	95-007947-N1 @10	.0101	.0066	.0024	3.889	1.479	.0152
100	95-007947-N1 @2	.0345	.0051	.0041	18.20	2.379	.0300
101	MCVA 9507281901	1.027	.0016	.0023	20.78	24.19	.0058
102	SST-ICS-1 95-911I101	-.0139	.0012	.0018	18.55	.5456	.0090
103	STD1-Blank 108444	.0027	.0023	.0007	.0019	.4365	.0026
104	95-007948-N1 @10	.0145	.0049	.0019	5.075	1.211	.0134
105	95-007948-N1 @2	.0575	.0060	.0047	23.11	2.630	.0357
106	SRM-2709-N @10X DIL	.0139	.0101	.0033	5.352	4.158	.0182
107	SRM-2709-N @2	.0478	.0174	.0077	24.52	13.99	.0378
108	MCVA 9507281901	1.004	-.0012	.0015	20.09	24.85	.0040
109	SST-ICS-1 95-911I101	-.0104	.0025	.0021	18.27	.7693	.0120
110	MCVB 950911H901	-.0067	2.014	1.995	.0059	.2728	1.991
111	SRM-1643c 103668	Q.0192	-.0023	.0004	Q.1196	Q1.888	.0042
112	CCV1 950713H901	2.073	.0002	.0003	2.017	5.205	.0010
113	STD1-Blank 108444	.0004	.0001	-.0001	-.0008	-.0764	-.0002

#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	416	2373.67	197	804	409	3669.67
2	SPC-BLK 108444	.0008	.0047	-.0001	-.0016	-.0129	.0128
3	SPC-STD 950831I101	27461.3	2515.33	73988.3	847.333	420.667	3725
4	SPC-STD 950831I101	9.395	.0265	9.992	-.0006	.0357	.0278
5	STD1-Blank	.04129	.23653	.01993	.08016	.041	.36693
6	STD2		46.9557		12.4302	5.95916	
7	STD3	13.9879		7.30116			
8	STD4						17.39
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0012	-.0027	-.0005	.0005	.0084	-.0018
15	MCVA 9507281901	1.940	26.53	.5131	1.030	24.93	.0084
16	MCVB 950911H901	.0029	.0848	.0001	.0030	.0245	1.912
17	SRM-1643c 103668	Q.0129	9.716	.0344	.1052	Q11.04	.0140
18	CCV1 950713H901	1.943	2.092	1.021	1.998	8.015	-.0007
19	SST-ICS-0 950908I100	.0037	.2662	.0014	.0099	.0010	-.0231
20	STD1-Blank 108444	.0011	.0097	-.0003	.0012	.0013	.0038
21	95-007932-A3 @2	.0002	.0053	-.0001	.0010	.9940	-.0033
22	95-007932-A3	.0001	.0060	-.0003	.0009	1.918	-.0150
23	95-007932-A4 @2	k.0368	k.0546	k-.0386	k-1.459	4922.	k.0189
24	95-007932-A4 @10	.0102	.0167	.0117	.1141	1429.	.0058
25	95-007932-A4 @50	.0001	-.0116	.0019	.0218	319.8	-.0165
26	Na @500 PPM	.0016	.0042	-.0003	.0008	499.0	-.0069

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
27	95-007932-A5 @50	.0006	.0030	.0014	-.0002	.3514	-.0091
28	95-007932-A5 @10	-.0009	.0074	.0091	.0004	1.814	-.0149
29	95-007932-A5	-.0051	.0654	.0877	-.0062	17.84	-.0715
30	MCVA 950728I901	1.982	26.69	.5154	1.036	25.67	.0074
31	SST-ICS-0 950908I100	.0045	.2815	.0011	.0085	.0120	-.0264
32	STD1-Blank 108444	.0006	.0008	-.0005	.0010	-.0056	-.0060
33	95-007932-A1 @50	.0013	-.0058	.0000	.0217	322.6	-.0114
34	95-007932-A1 @10	.0086	.0065	.0022	.1126	1424.	.0057
35	95-007932-A1 @5	.0168	.0165	.0053	.2178	2570.	.0197
36	95-007932-A2 @50	.0025	.0029	.0001	.0229	300.9	.0013
37	95-007932-A2 @10	.0098	.0112	.0024	.1132	1398.	.0120
38	95-007932-A5 @5	.0174	.0212	.0053	.2179	2529.	.0223
39	95-007935-A1 @50	.0029	.0092	.0003	.0254	296.5	.0053
40	95-007935-A1 @10	.0079	.0333	.0029	.1215	1387.	.0189
41	95-007935-A1 @5	.0119	.0281	.0056	.2320	2603.	.0151
42	STD9 FOR W @50 PPM	.0011	-.0928	-.0003	.0029	3.462	-.0037
43	MCVA 950728I901	1.954	26.36	.5110	1.028	25.29	.0044
44	SST-ICS-0 950908I100	.0029	.2757	.0010	.0081	-.0137	-.0376
45	STD1-Blank 108444	.0005	-.0023	-.0006	.0013	-.0027	-.0088
46	95-007935-A2 @50	.0017	.0017	.0004	.0243	311.9	-.0052
47	95-007935-A2 @10	.0113	.0248	.0037	.1189	1392.	.0189
48	95-007935-A2 @5	.0178	.0268	.0072	.2321	2594.	.0193
49	MCVA 950728I901	1.924	26.54	.5146	1.037	24.96	.0059
50	SST-ICS-0 950908I100	.0062	.3016	.0014	.0106	.0434	-.0177
51	MCVB 950911H901	.0029	.0919	.0004	.0017	.0260	1.940
52	SRM-1643c 103668	Q.0130	Q9.920	.0349	Q.1071	11.99	-.0044
53	CCV1 950713H901	1.964	2.099	1.029	2.015	8.136	-.0035
54	STD1-Blank 108444	.0005	.0017	-.0003	.0018	-.0083	-.0086
55	STD1-Blank	.04069	.22966	.01899	.07816	.04019	.35559
56	STD2		45.5975		12.1351	5.75543	
57	STD3	13.5612		7.17123			
58	STD4						17.1234
59	STD5						
60	STD6						
61	STD7						
62	STD8						
63	STD9						
64	STD1-Blank 108444	.0004	-.0017	-.0000	-.0004	-.0276	-.0039
65	2% HNO3 DILUENT PUMP	.0016	.0116	.0004	.0005	.0144	.0124
66	"PIPETED" STD1-BLK	.0011	.0098	.0003	.0008	.0157	.0115
67	MCVA @5X	.4029	5.447	.1029	.2086	5.257	.0029
68	STD1-Blank 108444	-.0020	-.0063	-.0001	-.0009	-.0419	-.0154
69	MCVA 950728H901	2.030	26.69	.5097	1.032	26.47	.0074
70	MCVA 950728H901	1.920	26.52	.5062	1.028	25.57	.0137
71	MCVB 950911H901	.0006	.0750	.0004	-.0014	-.0072	1.963
72	SRM-1643c 103668	Q.0110	Q9.940	.0346	.1025	Q13.06	-.0089
73	CCV1 950713H901	2.025	2.087	1.006	1.997	8.750	-.0026
74	SST-ICS-1 950911I101	.0115	.2920	.0021	.0102	3639.	.0044
75	STD1-Blank 108444	.0006	-.0096	.0001	-.0016	.1079	.0002
76	95-007941-N3 @5	.0065	.0274	.0019	.0036	2171.	.0221
77	95-007941-N3 @2	.0146	.0604	.0045	.0071	4186.	.0641
78	95-007941-N1 @10	.0099	.0330	.0037	.0039	1133.	.0310
79	95-007941-N1 @2	.0342	.1232	.0158	.0161	3963.	.0824
80	95-007941-N1 SPK@2.5	.0230	.2067	.0901	.0107	1853.	.0972

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
81	95-007941-N2 @10	.0152	.0584	.0038	.0073	1015.	.0711
82	95-007941-N2 @2	.0379	.1481	.0136	.0179	3829.	.1100
83	95-007943-N1 @10	.0228	.0717	.0042	.0094	989.1	.0947
84	95-007943-N1 @2	.0674	.1440	.0143	.0214	3820.	.1222
85	MCVA 950728I901	Q1.744	25.23	.4816	.9796	23.60	.0499
86	MCVA 950728I901	2.105	26.93	.5113	1.036	Q28.27	-.0026
87	MCVA 950728I901	1.906	26.27	.4979	1.017	27.41	.0338
88	SST-ICS-1 950911I101	.0150	.3196	.0027	.0149	3676.	.0294
89	STD1-Blank 108444	.0029	.0104	.0004	.0011	.1715	.0196
90	SST-ICS-1 950911I101	.0133	.3191	.0022	.0143	3751.	.0150
91	STD1-Blank 108444	.0043	-.0023	.0009	.0018	-.1358	.0044
92	95-007944-N1 @10	.0103	.0261	.0027	.0054	1186.	.0277
93	95-007944-N1 @2	.0319	.0794	.0102	.0176	4330.	.0846
94	95-007945-N1 @10	.0049	.1727	.0343	.0055	1201.	.0248
95	95-007945-N1 @2	.0177	.7679	.1558	.0145	4407.	.0754
96	95-007945-N1-PS @5	.0113	.4445	.1601	.0086	2195.	.0445
97	95-007946-N1 @10	.0061	.1799	.0387	.0052	1140.	.0320
98	95-007946-N1 @2	.0172	.7854	.1768	.0140	4246.	.0864
99	95-007947-N1 @10	.0079	.1612	.0410	.0086	1106.	.0505
100	95-007947-N1 @2	.0166	.6692	.1912	.0201	4276.	.0908
101	MCVA 950728I901	1.826	27.03	.5117	1.046	25.64	.0169
102	SST-ICS-1 95-911I101	.0127	.3141	.0021	.0151	3733.	.0098
103	STD1-Blank 108444	.0029	.0081	.0004	.0024	.0901	.0109
104	95-007948-N1 @10	.0074	.1824	.0601	.0058	1088.	.0428
105	95-007948-N1 @2	.0173	.7562	.2743	.0154	4041.	.1095
106	SRM-2709-N @10X DIL	.0158	2.425	.0839	.0095	1111.	.0597
107	SRM-2709-N @2	.0441	10.96	.3863	.0241	4174.	.0978
108	MCVA 950728I901	1.861	26.15	.4947	1.016	26.19	.0019
109	SST-ICS-1 95-911I101	.0129	.3162	.0021	.0157	3700.	.0152
110	MCVB 950911H901	.0019	.0916	.0007	.0008	.0420	2.001
111	SRM-1643c 103668	Q.0111	Q10.09	.0349	.1052	Q12.77	-.0042
112	CCV1 950713H901	1.954	2.122	1.004	2.006	8.714	.0026
113	STD1-Blank 108444	.0005	-.0018	.0003	.0022	-.1720	-.0042

#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	473	1306.33	13364.7	15258.7	15176.7	2605.33
2	SPC-BLK 108444	.0014	.0026	.0008	.0122	.0109	-.0085
3	SPC-STD 950831I101	483.667	1479.67	139173	15490	15400	2715.67
4	SPC-STD 950831I101	.0047	-.0011	10.41	.0547	.0306	.0208
5	STD1-Blank	.04706	.1289	1.3456	1.52303	1.5144	.25846
6	STD2	6.21449		61.3496			
7	STD3		14.4805				
8	STD4						37.2787
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9				21.5915	51.0764	
14	STD1-Blank 108444	.0011	.0112	-.0047	.0094	.0026	.0031
15	MCVA 950728I901	1.051	.0473	2.619	-.0132	-.0001	2.557
16	MCVB 950911H901	.0080	.0059	.0564	2.010	1.966	.0173
17	SRM-1643c 103668	.0612	.0250	.0351	.0236	.0093	.0057

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
18	CCV1 950713H901	2.091	4.734	2.058	.0077	-.0009	.0018
19	SST-ICS-0 950908I100	51.64	.0235	.1964	-.3452	-.0318	.0022
20	STD1-Blank 108444	.0052	.0078	.0011	.0248	.0100	.0052
21	95-007932-A3 @2	.0106	.0116	-.0011	.0053	.0021	.0129
22	95-007932-A3	.0176	.0059	.0003	-.0267	-.0169	.0099
23	95-007932-A4 @2	k13.21	k2.471	k-3.722	k.0844	k.1034	k-13.55
24	95-007932-A4 @10	2.948	3.718	1.217	.0367	.0282	-.0364
25	95-007932-A4 @50	.6190	.7417	.2315	-.0258	-.0149	-.0102
26	Na @500 PPM	-.0006	.0101	-.0065	-.0021	-.0037	.0194
27	95-007932-A5 @50	.0973	.0067	.0840	-.0122	-.0068	.0114
28	95-007932-A5 @10	.4942	.0095	.4734	-.0303	-.0139	.0043
29	95-007932-A5	4.539	-.0312	4.373	-.3072	-.1052	-.0316
30	MCVA 950728I901	1.066	.0590	2.613	-.0106	-.0027	2.567
31	SST-ICS-0 950908I100	51.94	.0319	.1879	-.3685	-.0317	.0018
32	STD1-Blank 108444	.0148	.0002	-.0048	-.0007	-.0030	.0119
33	95-007932-A1 @50	.5109	.7303	.1209	-.0071	-.0052	-.0073
34	95-007932-A1 @10	2.477	3.738	.7248	.0387	.0288	-.0411
35	95-007932-A1 @5	4.738	7.290	1.426	.0930	.0594	-.0737
36	95-007932-A2 @50	.5025	.7253	.1382	.0310	.0090	.0008
37	95-007932-A2 @10	2.451	3.695	.7296	.0630	.0402	-.0224
38	95-007932-A5 @5	4.686	7.221	1.436	.1004	.0649	-.0537
39	95-007935-A1 @50	.3959	.7246	.1585	.0297	.0168	.0109
40	95-007935-A1 @10	1.907	3.614	.7963	.0856	.0478	-.0267
41	95-007935-A1 @5	3.764	7.298	1.530	.0807	.0557	-.0898
42	STD9 FOR W @50 PPM	.0125	-.1840	-.0083	50.07	50.40	-.0314
43	MCVA 950728I901	1.060	.0618	2.586	-.0117	-.0003	2.535
44	SST-ICS-0 950908I100	52.57	.0178	.1767	-.4273	-.0498	-.0046
45	STD1-Blank 108444	.0082	.0003	-.0097	-.0028	-.0056	.0066
46	95-007935-A2 @50	.4102	.7260	.1407	.0053	.0019	-.0079
47	95-007935-A2 @10	1.946	3.655	.7774	.0830	.0450	-.0401
48	95-007935-A2 @5	3.835	7.357	1.519	.0908	.0604	-.0932
49	MCVA 950728I901	1.062	.0733	2.613	-.0066	.0035	2.564
50	SST-ICS-0 950908I100	52.01	.0264	.1944	-.3813	-.0195	.0121
51	MCVB 950911H901	.0303	-.0077	.0488	2.087	1.986	.0199
52	SRM-1643c 103668	.0673	.0063	0.0231	-.0296	-.0165	-.0043
53	CCV1 950713H901	2.119	4.755	2.072	.0104	.0026	.0091
54	STD1-Blank 108444	.0033	.0013	-.0087	.0028	-.0004	.0077
55	STD1-Blank	.04616	.12506	1.29299	1.48453	1.4744	.25233
56	STD2	6.08763		59.2873			
57	STD3		13.9936				
58	STD4						
59	STD5						36.5567
60	STD6						
61	STD7						
62	STD8						
63	STD9				21.0189	50.0579	
64	STD1-Blank 108444	-.0013	.0091	-.0034	-.0100	-.0093	.0024
65	2% HNO3 DILUENT PUMP	.0011	.0145	.0172	.0365	.0143	.0077
66	"PIPETED" STD1-BLK	.0021	.0395	.0114	.0381	.0101	.0107
67	MCVA @5X	.2129	.0380	.5344	.0013	-.0005	.4949
68	STD1-Blank 108444	-.0012	-.0068	-.0105	-.0439	-.0202	-.0045
69	MCVA 950728H901	1.051	.0595	2.625	-.0232	-.0062	2.552
70	MCVA 950728H901	1.053	.0583	2.627	-.0004	.0102	2.541
71	MCVB 950911H901	.0044	-.0103	.0400	2.144	2.024	.0007

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
72	SRM-1643c 103668	.0563	.0066	Q.0215	-.0588	-.0239	-.0065
73	CCV1 950713H901	2.090	4.751	2.057	-.0046	.0033	-.0042
74	SST-ICS-1 950911I101	46.46	.1017	.2197	-.3125	.0106	.0260
75	STD1-Blank 108444	.0021	.0003	.0001	.0013	.0022	.0017
76	95-007941-N3 @5	.0976	.0271	.0291	.0062	.0185	.0159
77	95-007941-N3 @2	.2299	.0762	.0623	.0238	.0504	.0398
78	95-007941-N1 @10	.0701	.5635	.0441	.0876	.0438	.0162
79	95-007941-N1 @2	.3127	2.528	.1533	.2165	.1010	.0473
80	95-007941-N1 SPK@2.5	4.430	1.019	4.587	.1621	.1250	.0451
81	95-007941-N2 @10	.0775	.0925	.0822	.1964	.0971	.0427
82	95-007941-N2 @2	.3190	.3381	.1632	.2761	.1352	.0525
83	95-007943-N1 @10	.1343	.1175	.1041	.2657	.1224	.0510
84	95-007943-N1 @2	.6003	.2627	.1992	.2931	.1455	.0659
85	MCVA 950728I901	1.012	.1161	2.564	.1025	.0582	2.435
86	MCVA 950728I901	1.060	.0477	2.622	-.0531	-.0172	2.568
87	MCVA 950728I901	1.041	.0704	2.591	.0448	.0324	2.530
88	SST-ICS-1 950911I101	47.09	.0934	.2453	-.2512	.0366	.0386
89	STD1-Blank 108444	.0045	.0193	.0179	.0570	.0268	-.0021
90	SST-ICS-1 950911I101	48.44	.1088	.2427	-.2964	.0222	.0374
91	STD1-Blank 108444	-.0008	.0184	.0059	.0040	.0020	-.0033
92	95-007944-N1 @10	.1196	.0766	.0425	.0651	.0303	.0116
93	95-007944-N1 @2	.5550	.3251	.1178	.1500	.0770	.0393
94	95-007945-N1 @10	1.673	.0740	.1422	.0227	.0241	.0120
95	95-007945-N1 @2	7.615	.3242	.5990	.0050	.0623	.0255
96	95-007945-N1-PS @5	8.121	.1790	5.262	-.0947	.0345	.0123
97	95-007946-N1 @10	1.962	.6150	.1266	.0069	.0253	.0083
98	95-007946-N1 @2	9.015	2.068	.5357	-.1047	.0465	.0323
99	95-007947-N1 @10	.7509	.4575	.1627	.0786	.0498	.0222
100	95-007947-N1 @2	3.509	.8392	.5983	-.0334	.0464	.0294
101	MCVA 950728I901	1.076	.0566	2.644	-.0087	.0063	2.585
102	SST-ICS-1 95-911I101	48.20	.0922	.2407	-.3180	.0124	.0207
103	STD1-Blank 108444	.0032	.0099	.0146	.0281	.0145	.0006
104	95-007948-N1 @10	.8640	.2167	.3626	.0503	.0391	.0249
105	95-007948-N1 @2	3.968	.7910	1.572	-.0275	.0555	.0310
106	SRM-2709-N @10X DIL	.0861	.1437	.2768	.1200	.0669	.0292
107	SRM-2709-N @2	.3668	.5249	1.098	.0761	.0683	.1020
108	MCVA 950728I901	1.037	.0458	2.534	-.0450	-.0117	2.486
109	SST-ICS-1 95-911I101	47.56	.1086	.2409	-.3014	.0188	.0340
110	MCVB 950911H901	.0064	.0018	.0563	Q2.261	2.048	.0003
111	SRM-1643c 103668	.0570	.0201	Q.0275	-.0492	-.0202	-.0072
112	CCV1 950713H901	2.095	4.744	2.066	-.0038	-.0004	-.0087
113	STD1-Blank 108444	-.0015	-.0030	-.0005	-.0179	-.0027	-.0077

#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1538.67	3959	6846	140.667	9872.67	2355
2	SPC-BLK 108444	-.0099	.0147	.0521	-.0002	-.0024	.0031
3	SPC-STD 950831I101	1581.33	4049	7017.33	142.333	10736.7	2389
4	SPC-STD 950831I101	.0110	.0314	.1180	-.0001	.0069	.0043
5	STD1-Blank	.15463	.39443	.68376	.014	.99023	.23473
6	STD2				8.60079		
7	STD3						
8	STD4						12.3546

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
9	STD5						
10	STD6						
11	STD7		78.6185			56.5969	
12	STD8	4.02799					
13	STD9			8.67776			
14	STD1-Blank 108444	-.0017	.1967	-.0184	.0003	.0048	-.0031
15	MCVA 950728I901	2.508	19.33	-.0757	.5124	-.0014	.0447
16	MCVB 950911H901	.0174	.1554	2.051	.0006	1.814	4.941
17	SRM-1643c 103668	Q.0202	.0877	.0051	Q.2542	.0067	-.0058
18	CCV1 950713H901	1.938	5.045	-.0102	2.021	-.0142	.0067
19	SST-ICS-0 950908I100	.0241	.0647	.0473	.0002	.0029	.6596
20	STD1-Blank 108444	.0081	-.0006	.0195	.0005	.0071	-.0000
21	95-007932-A3 @2	.0018	1.012	-.0021	.0004	.0018	-.0044
22	95-007932-A3	-.0022	1.995	-.0360	.0004	.0030	.0016
23	95-007932-A4 @2	k-12.44	k7.240	k.7937	k.0093	k-5.873	k.1021
24	95-007932-A4 @10	-.0138	1.508	.1410	.0024	-.0447	.0166
25	95-007932-A4 @50	-.0182	.2896	-.0531	.0005	-.0284	-.0001
26	Na @500 PPM	-.0036	1.154	-.0161	.0042	-.0003	-.0019
27	95-007932-A5 @50	-.0063	.2264	-.0525	.0002	-.0064	-.0006
28	95-007932-A5 @10	-.0113	1.238	-.0544	.0002	-.0012	.0201
29	95-007932-A5	-.0302	11.83	-.2306	-.0002	-.0422	.1962
30	MCVA 950728I901	2.524	19.41	-.0929	.5175	.0006	.0386
31	SST-ICS-0 950908I100	.0224	.0257	.0397	.0001	-.0021	.6770
32	STD1-Blank 108444	.0001	-.0235	-.0310	.0003	.0032	-.0004
33	95-007932-A1 @50	-.0040	.0625	-.0226	.0006	-.0255	-.0107
34	95-007932-A1 @10	-.0176	.4542	.1584	.0023	-.0453	-.0003
35	95-007932-A1 @5	-.0117	.9184	.3090	.0041	-.0721	.0002
36	95-007932-A2 @50	-.0050	.0701	.0134	.0008	-.0090	-.0057
37	95-007932-A2 @10	-.0122	.4451	.1532	.0023	-.0339	-.0035
38	95-007932-A5 @5	-.0143	.8924	.3185	.0041	-.0629	-.0017
39	95-007935-A1 @50	.0065	.1533	.0482	.0031	-.0088	.0000
40	95-007935-A1 @10	-.0098	.8600	.1576	.0138	-.0332	.0013
41	95-007935-A1 @5	-.0570	1.756	.2101	.0265	-.0838	.0029
42	STD9 FOR W @50 PPM	-.0089	48.53	49.85	.0014	.0242	.0288
43	MCVA 950728I901	2.483	19.78	-.0947	.5122	-.0070	.0399
44	SST-ICS-0 950908I100	.0243	.1465	-.0399	-.0000	-.0153	.7025
45	STD1-Blank 108444	-.0031	.0350	-.0448	.0002	-.0035	-.0023
46	95-007935-A2 @50	.0026	.2189	-.0388	.0081	-.0192	.0022
47	95-007935-A2 @10	-.0084	.9511	.1330	.0381	-.0349	.0030
48	95-007935-A2 @5	-.0427	1.872	.2258	.0742	-.0820	.0059
49	MCVA 950728I901	2.526	19.43	-.0793	.5155	.0029	.0400
50	SST-ICS-0 950908I100	.0182	.0642	.0641	.0002	.0055	.7076
51	MCVB 950911H901	.0186	.0576	2.026	.0006	1.818	5.004
52	SRM-1643c 103668	Q.0237	.0077	-.0890	.2650	-.0059	-.0041
53	CCV1 950713H901	2.002	5.018	-.0147	2.045	-.0148	.0037
54	STD1-Blank 108444	-.0025	-.0282	-.0280	.0006	-.0003	-.0013
55	STD1-Blank	.14876	.36573	.65719	.01393	.95939	.2281
56	STD2				8.60163		
57	STD3						12.0262
58	STD4						
59	STD5						
60	STD6						
61	STD7		78.4814			56.0845	
62	STD8	3.96163					

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
63	STD9			8.46126			
64	STD1-Blank 108444	.0020	.0338	-.0054	.0001	-.0076	-.0071
65	2% HNO3 DILUENT PUMP	.0090	.0394	.0423	.0003	.0071	-.0060
66	"PIPETED" STD1-BLK	.0098	.0251	.0373	.0003	.0071	-.0055
67	MCVA @5X	.5154	3.853	-.0158	.1040	-.0022	.0012
68	STD1-Blank 108444	-.0125	.0100	-.0750	.0000	-.0131	-.0069
69	MCVA 950728H901	2.495	18.91	-.1076	.5175	-.0115	.0430
70	MCVA 950728H901	2.466	18.76	-.0494	.5112	.0012	.0367
71	MCVB 950911H901	.0099	.0406	2.032	.0000	Q1.779	5.066
72	SRM-1643c 103668	Q-.0004	.0043	-.0859	.2647	-.0124	-.0089
73	CCV1 950713H901	1.941	4.891	.0083	2.032	-.0197	.0035
74	SST-ICS-1 950911I101	.0420	-.0034	.1905	.0003	.0191	.6802
75	STD1-Blank 108444	-.0015	-.0188	.0181	.0001	-.0029	-.0076
76	95-007941-N3 @5	.0162	.0467	.1318	.0132	.0140	.0572
77	95-007941-N3 @2	.0452	.1445	.2567	.0301	.0267	.1445
78	95-007941-N1 @10	.0058	.3741	.1457	.0088	.0213	-.0020
79	95-007941-N1 @2	.0478	1.753	.3154	.0383	.0467	.0028
80	95-007941-N1 SPK@2.5	.0633	9.100	.4699	.0156	.0621	.2415
81	95-007941-N2 @10	.0408	.4216	.3062	.0079	.0471	.0122
82	95-007941-N2 @2	.0729	1.963	.4273	.0332	.0717	.0329
83	95-007943-N1 @10	.0479	.2931	.4024	.0094	.0590	.0138
84	95-007943-N1 @2	.0751	1.271	.4903	.0395	.0717	.0624
85	MCVA 950728I901	2.368	Q17.86	.1156	.4775	.0274	.0391
86	MCVA 950728I901	2.508	19.08	-.1246	.5258	-.0175	.0394
87	MCVA 950728I901	2.469	18.67	-.1484	.5139	.0027	.0464
88	SST-ICS-1 950911I101	.0617	.0206	-.0633	.0006	.0398	.6716
89	STD1-Blank 108444	.0073	.0116	.0590	.0003	.0109	.0011
90	SST-ICS-1 950911I101	.0538	.0186	-.1053	.0003	.0263	.6945
91	STD1-Blank 108444	-.0034	-.0065	.0240	.0000	-.0002	.0018
92	95-007944-N1 @10	.0207	.1458	.0899	.0455	.0130	.0064
93	95-007944-N1 @2	.0528	.7211	.2094	.2057	.0402	.0323
94	95-007945-N1 @10	.0212	.2883	.0559	1.593	.0144	.0578
95	95-007945-N1 @2	.0467	1.412	.1049	7.206	.0441	.2742
96	95-007945-N1-FS @5	.0287	10.30	.0822	3.090	.0245	.3587
97	95-007946-N1 @10	.0214	.2530	.0601	2.936	.0197	.1085
98	95-007946-N1 @2	.0639	1.232	.0318	13.48	.0542	.4676
99	95-007947-N1 @10	.0318	.1674	.1213	.1417	.0303	.0816
100	95-007947-N1 @2	.0644	.8129	-.0104	.6590	.0413	.3531
101	MCVA 950728I901	2.546	19.10	-.1748	.5481	-.0046	.0433
102	SST-ICS-1 95-911I101	.0624	-.0054	-.1215	.0008	.0246	.6876
103	STD1-Blank 108444	.0092	-.0062	.0678	.0006	.0059	.0090
104	95-007948-N1 @10	.0266	.2050	.0819	.1800	.0260	.0900
105	95-007948-N1 @2	.0789	.9824	-.0165	.8079	.0630	.4141
106	SRM-2709-N @10X DIL	.0545	43.13	.1486	.0434	.0370	.0463
107	SRM-2709-N @2	.1212	207.1	.0547	.1968	.0675	.1935
108	MCVA 950728I901	2.420	18.17	-.2425	.5344	-.0116	.0404
109	SST-ICS-1 95-911I101	.0627	.0130	-.0929	.0008	.0273	.6821
110	MCVB 950911H901	.0155	.0393	Q1.753	.0007	1.800	5.032
111	SRM-1643c 103668	Q.0074	-.0005	-.0543	Q.2807	-.0123	-.0062
112	CCV1 950713H901	1.959	4.936	-.0140	2.141	-.0215	.0050
113	STD1-Blank 108444	-.0050	-.0207	-.0079	.0007	-.0089	.0035

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#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	648.333	349.333	17198.7	978.333	304.667	255
2	SPC-BLK 108444	.0007	.0010	.1549	.0017	-.0045	.0009
3	SPC-STD 950831I101	659.333	373.667	17488.3	994.667	322.333	260
4	SPC-STD 950831I101	.0019	.0396	.4172	.0039	.0082	.0023
5	STD1-Blank	.06466	.03473	1.7185	.0978	.03106	.02553
6	STD2	15.5487					
7	STD3						
8	STD4						
9	STD5				12.714		3.31983
10	STD6			52.8941			
11	STD7						
12	STD8		1.24239				
13	STD9					3.37919	
14	STD1-Blank 108444	-.0001	.0065	.0187	-.0008	-.0086	-.0002
15	MCVA 950728I901	.9961	2.522	.0340	.9930	.0245	-.0001
16	MCVB 950911H901	.0012	.0169	Q8.603	-.0004	Q.4948	.9554
17	SRM-1643c 103668	.0081	Q.0196	.3037	Q.0282	.0006	-.0012
18	CCV1 950713H901	.0003	1.939	.0056	.9611	.0092	-.0002
19	SST-ICS-0 950908I100	.0013	.2185	49.87	.0021	.0531	.0032
20	STD1-Blank 108444	.0001	.0044	.0388	.0002	-.0012	.0002
21	95-007932-A3 @2	.0014	.0133	.0085	-.0006	-.0020	-.0005
22	95-007932-A3	.0020	.0083	-.2183	-.0014	-.0040	-.0010
23	95-007932-A4 @2	k.0026	k2.869	k8.547	k.0051	k2.349	k.0014
24	95-007932-A4 @10	.0005	.6071	1.964	.0006	.5232	.0003
25	95-007932-A4 @50	-.0013	.1176	.1636	-.0024	.1015	-.0017
26	Na @500 PPM	-.0001	.0065	-.0612	-.0010	-.0039	-.000
27	95-007932-A5 @50	-.0004	.0058	.2803	-.0012	-.0027	-.0005
28	95-007932-A5 @10	-.0002	.0075	1.686	-.0014	-.0044	-.0007
29	95-007932-A5	-.0007	.0213	17.56	-.0086	-.0161	-.0034
30	MCVA 950728I901	1.004	2.564	.0273	.9975	.0284	-.0002
31	SST-ICS-0 950908I100	.0010	.2270	50.10	.0012	.0428	.0032
32	STD1-Blank 108444	-.0004	.0007	-.0332	-.0009	-.0018	-.0004
33	95-007932-A1 @50	-.0008	.1151	-.1631	-.0017	.0941	-.0008
34	95-007932-A1 @10	.0005	.6050	.1054	.0006	.5039	.0003
35	95-007932-A1 @5	.0014	1.151	.2685	.0022	.9859	.0011
36	95-007932-A2 @50	.0000	.1236	.0610	-.0001	.1021	-.0001
37	95-007932-A2 @10	.0010	.6022	.2309	.0019	.5000	.0009
38	95-007932-A5 @5	.0018	1.140	.3436	.0028	.9661	.0013
39	95-007935-A1 @50	.0003	.1294	.0758	.0001	1.248	.0001
40	95-007935-A1 @10	.0015	.6189	.3488	.0020	6.208	.0011
41	95-007935-A1 @5	.0013	1.204	.3060	.0017	12.31	.0009
42	STD9 FOR W @50 PPM	.0074	-.1623	-.0539	-.0072	49.48	.0005
43	MCVA 950728I901	.9937	2.553	.0323	.9854	.0257	-.0005
44	SST-ICS-0 950908I100	.0004	.2316	50.98	-.0005	.0466	.0023
45	STD1-Blank 108444	-.0003	.0136	-.0744	-.0011	-.0033	-.0007
46	95-007935-A2 @50	-.0003	.1371	-.0283	-.0008	1.243	-.0003
47	95-007935-A2 @10	.0016	.6182	.4086	.0019	6.176	.0010
48	95-007935-A2 @5	.0023	1.216	.4926	.0017	12.19	.0009
49	MCVA 950728I901	1.001	2.546	.0893	.9918	.0355	-.0000
50	SST-ICS-0 950908I100	.0015	.2320	49.76	.0022	.0516	.0033
51	MCVB 950911H901	.0010	.0243	Q8.407	-.0011	Q.4932	.9560
52	SRM-1643c 103668	.0072	Q.0180	.0048	Q.0263	.0016	-.0026
53	CCV1 950713H901	.0001	2.004	-.0142	.9653	.0056	-.0003

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#	Sample Name	Ti	Tl	U	V	W	Y
54	STD1-Blank 108444	-.0006	.0098	-.0836	-.0009	-.0049	-.0009
55	STD1-Blank	.06283	.03436	1.66643	.09449	.02956	.0247
56	STD2	15.1919					
57	STD3						
58	STD4						
59	STD5				12.3454		3.20323
60	STD6			51.5214			
61	STD7						
62	STD8		1.22783				
63	STD9					3.23706	
64	STD1-Blank 108444	-.0003	-.0013	-.0616	-.0011	.0071	-.0005
65	2% HNO3 DILUENT PUMP	.0006	-.0041	.1722	.0008	.0068	.0008
66	"PIPETED" STD1-BLK	.0005	-.0066	.1838	.0009	.0132	.0005
67	MCVA @5X	.2016	.5055	.0257	.2010	.0145	.0002
68	STD1-Blank 108444	-.0011	-.0144	-.2240	-.0022	.0075	-.0009
69	MCVA 950728H901	1.003	2.515	.0072	.9938	.0335	.0000
70	MCVA 950728H901	.9946	2.516	.1962	.9882	.0295	.0002
71	MCVB 950911H901	.0003	.0050	@8.494	-.0029	@.5029	.9724
72	SRM-1643c 103668	.0070	.0105	-.0653	@.0262	.0035	-.0027
73	CCV1 950713H901	.0004	1.939	.0102	.9600	.0110	.0001
74	SST-ICS-1 950911I101	.0033	.2150	44.54	.0053	.0681	.0051
75	STD1-Blank 108444	-.0000	-.0027	.0428	.0003	.0073	.0003
76	95-007941-N3 @5	.0029	.0103	-.0574	.0030	.0107	.0019
77	95-007941-N3 @2	.0071	.0249	.0390	.0074	.0291	.0047
78	95-007941-N1 @10	.0074	.0374	.5447	.0105	.0200	.0019
79	95-007941-N1 @2	.0295	.1690	1.350	.0376	.0419	.0049
80	95-007941-N1 SPK@2.5	.0170	.1109	17.17	.0247	.0489	.0074
81	95-007941-N2 @10	.0107	.0466	1.158	.0118	.0329	.0045
82	95-007941-N2 @2	.0330	.1665	1.577	.0259	.0391	.0068
83	95-007943-N1 @10	.0100	.0572	1.474	.0123	.0310	.0059
84	95-007943-N1 @2	.0251	.1842	1.702	.0168	.0505	.0079
85	MCVA 950728I901	.9384	2.369	.7705	.9398	.0475	.0025
86	MCVA 950728I901	1.014	2.537	-.1062	1.000	.0262	-.0007
87	MCVA 950728I901	.9899	2.487	.4696	.9806	.0333	.0017
88	SST-ICS-1 950911I101	.0047	.2272	45.74	.0075	.0628	.0067
89	STD1-Blank 108444	.0011	.0005	.3200	.0019	.0095	.0013
90	SST-ICS-1 950911I101	.0036	.2169	47.09	.0060	.0604	.0059
91	STD1-Blank 108444	.0003	-.0030	.0630	.0003	.0004	.0003
92	95-007944-N1 @10	.0035	.0220	.4230	.0041	.0114	.0016
93	95-007944-N1 @2	.0133	.0615	1.236	.0126	.0458	.0048
94	95-007945-N1 @10	.0051	.0082	4.014	.0033	.0053	.0021
95	95-007945-N1 @2	.0212	.0544	17.24	.0098	.0339	.0082
96	95-007945-N1-PS @5	.0107	.0500	26.43	.0070	.0214	.0054
97	95-007946-N1 @10	.0063	.0161	6.757	.0038	.0158	.0032
98	95-007946-N1 @2	.0249	.0562	29.46	.0107	.0332	.0109
99	95-007947-N1 @10	.0059	.0219	5.772	.0059	.0155	.0043
100	95-007947-N1 @2	.0176	.0434	24.55	.0093	.0286	.0105
101	MCVA 9507281901	1.023	2.524	.2112	1.011	.0318	.0006
102	SST-ICS-1 95-911I101	.0033	.2265	46.60	.0053	.0534	.0052
103	STD1-Blank 108444	.0009	.0021	.1934	.0015	.0051	.0008
104	95-007948-N1 @10	.0063	.0156	6.552	.0049	.0177	.0042
105	95-007948-N1 @2	.0223	.0435	27.89	.0114	.0407	.0137
106	SRM-2709-N @10X DIL	.4978	.0512	.6999	.0234	.0318	.0062
107	SRM-2709-N @2	2.294	.2099	.3316	.0851	.0659	.0177

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#	Sample Name	Ti	Tl	U	V	W	Y
108	MCVA 950728I901	.9933	2.416	-.0325	.9805	.0241	-.0003
109	SST-ICS-1 95-911I101	.0040	.2147	45.95	.0063	.0619	.0057
110	MCVB 950911H901	.0010	-.0053	Q8.692	-.0011	Q.5127	.9710
111	SRM-1643c 103668	.0074	.0100	.0074	Q.0270	-.0009	-.0023
112	CCV1 950713H901	.0007	1.928	.0254	.9684	-.0029	-.0000
113	STD1-Blank 108444	.0001	-.0081	-.0592	-.0003	-.0030	-.0002

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	333.333	811
2	SPC-BLK 108444	.0002	.0016
3	SPC-STD 950831I101	153010	817.667
4	SPC-STD 950831I101	10.02	.0026
5	STD1-Blank	.03363	.08076
6	STD2	30.0327	26.512
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank 108444	.0002	-.0009
15	MCVA 950728I901	1.008	2.041
16	MCVB 950911H901	.0016	-.0069
17	SRM-1643c 103668	Q.0844	.0002
18	CCV1 950713H901	1.018	-.0018
19	SST-ICS-0 950908I100	-.0279	9.983
20	STD1-Blank 108444	.0000	.0004
21	95-007932-A3 @2	.0051	.0009
22	95-007932-A3	.0085	-.0005
23	95-007932-A4 @2	k.2550	k.1988
24	95-007932-A4 @10	.0564	.0421
25	95-007932-A4 @50	.0108	.0062
26	Na @500 PPM	.0063	.0025
27	95-007932-A5 @50	-.0006	.0073
28	95-007932-A5 @10	-.0003	.0434
29	95-007932-A5	-.0021	.4378
30	MCVA 950728I901	1.025	2.055
31	SST-ICS-0 950908I100	-.0305	9.974
32	STD1-Blank 108444	-.0002	.0003
33	95-007932-A1 @50	.0101	-.0002
34	95-007932-A1 @10	.0548	.0015
35	95-007932-A1 @5	.1051	.0035
36	95-007932-A2 @50	.0104	.0003
37	95-007932-A2 @10	.0543	.0021
38	95-007932-A5 @5	.1069	.0036
39	95-007935-A1 @50	.0186	.0001
40	95-007935-A1 @10	.0924	.0024
41	95-007935-A1 @5	.1863	.0026
42	STD9 FOR W @50 PPM	.0020	.0384
43	MCVA 950728I901	1.019	2.038
44	SST-ICS-0 950908I100	-.0274	10.14

#	Sample Name	Zn	Zr
45	STD1-Blank 108444	.0003	-.0003
46	95-007935-A2 @50	.0192	-.0003
47	95-007935-A2 @10	.0924	.0034
48	95-007935-A2 @5	.1884	.0034
49	MCVA 950728I901	1.034	2.050
50	SST-ICS-0 950908I100	-.0286	9.964
51	MCVB 950911H901	.0010	-.0083
52	SRM-1643c 103668	@.0880	-.0021
53	CCV1 950713H901	1.044	-.0014
54	STD1-Blank 108444	.0001	-.0012
55	STD1-Blank	.03229	.07836
56	STD2	29.9977	25.9249
57	STD3		
58	STD4		
59	STD5		
60	STD6		
61	STD7		
62	STD8		
63	STD9		
64	STD1-Blank 108444	-.0002	-.0008
65	2% HNO3 DILUENT PUMP	-.0003	.0012
66	"PIPETED" STD1-BLK	.0008	.0016
67	MCVA @5X	.2077	.4114
68	STD1-Blank 108444	.0002	-.0021
69	MCVA 950728H901	1.018	2.057
70	MCVA 950728H901	1.018	2.042
71	MCVB 950911H901	.0016	-.0117
72	SRM-1643c 103668	@.0849	-.0024
73	CCV1 950713H901	1.027	-.0011
74	SST-ICS-1 950911I101	-.0273	9.329
75	STD1-Blank 108444	.0004	.0005
76	95-007941-N3 @5	.0037	9.937
77	95-007941-N3 @2	.0102	22.98
78	95-007941-N1 @10	.0059	.0506
79	95-007941-N1 @2	.0279	.2101
80	95-007941-N1 SPK@2.5	.0097	.4829
81	95-007941-N2 @10	.0046	1.039
82	95-007941-N2 @2	.0236	5.014
83	95-007943-N1 @10	.0084	2.019
84	95-007943-N1 @2	.0366	9.431
85	MCVA 950728I901	.9797	1.978
86	MCVA 950728I901	1.028	2.072
87	MCVA 950728I901	1.007	2.026
88	SST-ICS-1 950911I101	-.0298	9.459
89	STD1-Blank 108444	.0008	.0026
90	SST-ICS-1 950911I101	-.0293	9.750
91	STD1-Blank 108444	-.0004	-.0001
92	95-007944-N1 @10	.0092	.7619
93	95-007944-N1 @2	.0458	3.600
94	95-007945-N1 @10	.0253	1.526
95	95-007945-N1 @2	.1219	6.996
96	95-007945-N1-PS @5	.0461	3.458
97	95-007946-N1 @10	.0164	3.066
98	95-007946-N1 @2	.0806	11.52

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#	Sample Name	Zn	Zr
99	95-007947-N1 @10	.0261	1.592
100	95-007947-N1 @2	.1294	3.993
101	MCVA 950728I901	1.034	2.103
102	SST-ICS-1 95-911I101	-.0299	9.691
103	STD1-Blank 108444	.0011	.0013
104	95-007948-N1 @10	.0345	.8404
105	95-007948-N1 @2	.1667	3.441
106	SRM-2709-N @10X DIL	.0199	5.470
107	SRM-2709-N @2	.0953	25.60
108	MCVA 950728I901	.9952	2.031
109	SST-ICS-1 95-911I101	-.0323	9.522
110	MCVB 950911H901	.0011	-.0079
111	SRM-1643c 103668	0.0862	-.0026
112	CCV1 950713H901	1.035	-.0012
113	STD1-Blank 108444	-.0010	-.0014

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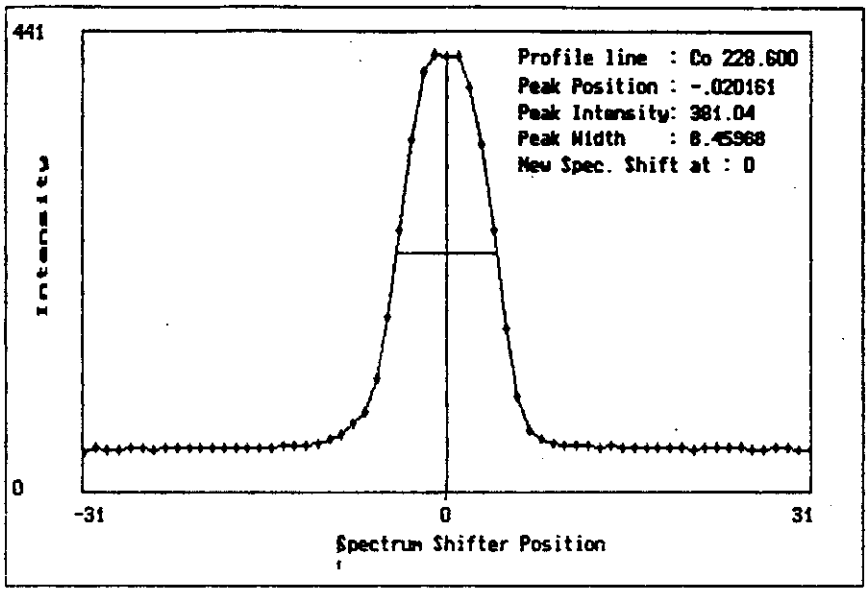

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/12/95 08:52:50
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6568	2085	1663	1069	306	172	1438
SDev	31	7	7	6	2	0	23
%RSD	.4718	.3402	.4094	.5717	.4997	.0000	1.593
#1	6595	2093	1668	1062	307	172	1418
#2	6534	2079	1655	1070	306	172	1433
#3	6574	2084	1665	1074	304	172	1463

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1256	444	6274	1421	470	454	1943
SDev	3	14	16	6	1	5	8
%RSD	.2299	3.129	.2471	.4243	.1228	.9940	.4316
#1	1259	435	6292	1427	471	458	1953
#2	1254	437	6263	1420	470	449	1939
#3	1254	460	6288	1415	470	454	1938

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	337	562	2165	989	416	2374	197
SDev	1	2	7	3	3	1	0
%RSD	.2967	.4112	.3276	.3090	.6360	.0243	.0000
#1	338	563	2173	992	417	2374	197
#2	336	559	2164	986	413	2373	197
#3	337	563	2159	988	418	2374	197

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	804	409	3670	473	1306	13360	15260
SDev	6	6	16	4	1	87	63
%RSD	.7767	1.467	.4312	.7623	.0884	.6477	.4137
#1	809	415	3687	477	1307	13460	15330
#2	797	403	3656	472	1307	13290	15210
#3	806	409	3666	470	1305	13340	15240

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15180	2605	1539	3959	6846	141	9873
SDev	47	17	5	19	11	1	61
%RSD	.3077	.6529	.3206	.4917	.1646	.4104	.6132
#1	15220	2612	1542	3981	6859	141	9928
#2	15130	2586	1541	3944	6840	140	9808
#3	15190	2618	1533	3952	6839	141	9882

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2355	648	349	17200	978	305	255
SDev	13	4	3	78	3	2	2
%RSD	.5520	.6234	.9202	.4525	.2572	.6833	.6792
#1	2370	653	348	17270	981	307	257
#2	2347	646	347	17110	976	304	254
#3	2348	646	353	17220	978	303	254

Elem	Zn	Zr
Avge	333	811
SDev	10	3
%RSD	2.851	.3699
#1	343	814
#2	333	808
#3	324	811

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/12/95 08:52:50
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	-.0050	-.0098	-.0006	.0003	-.0000	.0030
SDev	.0008	.0025	.0022	.0006	.0002	.0000	.0083
%RSD	36.43	51.06	22.26	110.7	66.49	19.96	271.3
#1	.0028	-.0021	-.0082	-.0013	.0004	-.0000	-.0043
#2	.0013	-.0070	-.0123	-.0004	.0003	-.0000	.0014
#3	.0023	-.0058	-.0090	-.0001	.0001	-.0000	.0120

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0004	.0171	.0004	-.0004	-.0028	.0010
SDev	.0007	.0014	.0027	.0006	.0001	.0018	.0008
%RSD	57.73	336.9	15.74	181.1	17.22	63.42	76.99
#1	.0020	-.0005	.0202	.0010	-.0003	-.0011	.0019
#2	.0010	-.0003	.0154	.0003	-.0005	-.0046	.0007
#3	.0007	.0020	.0157	-.0003	-.0005	-.0027	.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0006	.6901	.0015	.0008	.0047	-.0001
SDev	.0001	.0005	.1166	.0008	.0009	.0022	.0000
%RSD	36.69	83.71	16.89	57.24	113.9	45.54	49.83
#1	.0005	-.0003	.8161	.0024	.0012	.0029	-.0001
#2	.0002	-.0011	.6682	.0008	-.0002	.0071	-.0000
#3	.0004	-.0003	.5860	.0012	.0015	.0043	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0129	.0128	.0014	.0026	.0008	.0122
SDev	.0010	.0251	.0043	.0011	.0008	.0071	.0106
%RSD	60.72	194.7	33.98	80.13	30.95	928.5	86.40
#1	-.0008	.0122	.0176	.0027	.0028	.0086	.0240
#2	-.0027	-.0380	.0092	.0011	.0033	-.0053	.0035
#3	-.0013	-.0129	.0116	.0004	.0017	-.0010	.0092

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0109	-.0085	-.0099	.0147	.0521	-.0002	-.0024
SDev	.0039	.0045	.0025	.0039	.0064	.0001	.0052
%RSD	36.09	52.82	25.36	26.38	12.34	24.61	218.9
#1	.0143	-.0069	-.0084	.0192	.0592	-.0002	.0024
#2	.0066	-.0136	-.0084	.0122	.0503	-.0003	-.0079
#3	.0117	-.0051	-.0128	.0128	.0467	-.0002	-.0016

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0007	.0010	.1549	.0017	-.0045	.0009
SDev	.0037	.0005	.0053	.0737	.0003	.0031	.0005

%RSD	118.4	65.29	541.0	47.59	17.56	67.82	54.36
#1	.0064	.0013	-.0015	.2151	.0020	-.0011	.0015
#2	.0038	.0005	-.0026	.0727	.0014	-.0053	.0007
#3	-.0009	.0004	.0071	.1769	.0016	-.0071	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	.0016
SDev	.0006	.0005
%RSD	330.6	28.60
#1	.0008	.0019
#2	.0002	.0011
#3	-.0004	.0019

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/12/95 08:55:29
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6729	2133	1730	1117	311	173	1711
SDev	46	10	8	19	2	1	23
%RSD	.6827	.4695	.4338	1.677	.7434	.3331	1.333
#1	6679	2123	1739	1102	308	173	1691
#2	6769	2143	1726	1111	312	174	1736
#3	6740	2134	1726	1138	312	173	1707

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1254	453	6344	1446	486	23840	2199
SDev	6	10	40	8	10	145	9
%RSD	.4674	2.120	.6364	.5548	2.029	.6076	.3938
#1	1247	462	6298	1438	491	24000	2189
#2	1258	443	6372	1454	493	23760	2204
#3	1256	455	6363	1445	475	23750	2204

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	341	625	2193	1004	27460	2515	73990
SDev	2	2	12	4	521	13	291
%RSD	.5079	.3332	.5403	.4342	1.897	.5034	.3930
#1	339	623	2179	999	28060	2501	74260
#2	342	627	2199	1006	27110	2525	74020
#3	342	624	2200	1007	27210	2520	73680

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	847	421	3725	484	1480	139200	15490
SDev	4	2	15	8	14	399	94
%RSD	.4913	.3631	.3955	1.758	.9176	.2870	.6044
#1	852	419	3708	474	1464	139000	15380
#2	846	421	3733	490	1487	139600	15550
#3	844	422	3734	487	1488	138900	15540

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15400	2716	1581	4049	7017	142	10740
SDev	57	44	8	14	39	1	28
%RSD	.3721	1.639	.5150	.3458	.5611	.8113	.2585
#1	15340	2688	1572	4039	6972	141	10710
#2	15450	2692	1587	4043	7043	143	10740
#3	15410	2767	1585	4065	7037	143	10760

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2389	659	374	17490	995	322	260
SDev	10	4	5	86	4	5	1
%RSD	.3993	.5742	1.236	.4912	.4186	1.399	.3846
#1	2379	655	371	17400	990	327	259
#2	2398	662	379	17570	996	322	260
#3	2390	661	371	17500	998	318	261

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Elem	Zn	Zr
Avge	153000	818
SDev	508	5
%RSD	.3321	.6276
#1	153500	812
#2	153100	819
#3	152500	822

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/12/95 08:55:29
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0065	-.0017	.0137	.0038	.0009	-.0000	-.0022
SDev	.0013	.0043	.0030	.0018	.0003	.0000	.0085
%RSD	19.07	257.6	22.15	46.45	31.71	325.8	384.6
#1	.0052	-.0062	.0172	.0024	.0005	-.0000	-.0101
#2	.0076	.0025	.0118	.0031	.0010	.0000	.0068
#3	.0068	-.0014	.0120	.0058	.0010	-.0000	-.0034

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0011	.0293	.0030	.0020	10.27	-.0004
SDev	.0015	.0009	.0075	.0008	.0015	.06	.0008
%RSD	511.4	86.77	25.64	28.56	77.18	.6215	191.5
#1	-.0021	.0019	.0207	.0022	.0027	10.35	-.0014
#2	.0008	.0001	.0344	.0038	.0030	10.24	-.0001
#3	.0004	.0012	.0329	.0029	.0002	10.23	.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0001	1.139	.0058	9.395	.0265	9.992
SDev	.0003	.0004	.195	.0013	.181	.0043	.039
%RSD	28.54	327.3	17.09	21.50	1.926	16.36	.3942
#1	.0006	-.0002	.9147	.0044	9.603	.0215	10.03
#2	.0011	.0006	1.243	.0063	9.274	.0290	9.997
#3	.0011	.0000	1.260	.0068	9.308	.0289	9.951

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0358	.0278	.0047	-.0011	10.41	.0547
SDev	.0007	.0063	.0040	.0027	.0103	.03	.0188
%RSD	109.3	17.72	14.31	57.20	925.6	.3173	34.38
#1	.0001	.0289	.0232	.0016	-.0130	10.40	.0330
#2	-.0009	.0370	.0298	.0067	.0043	10.45	.0656
#3	-.0011	.0414	.0304	.0058	.0054	10.39	.0655

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0306	.0208	.0110	.0314	.1180	-.0001	.0069
SDev	.0049	.0121	.0040	.0037	.0264	.0001	.0026
%RSD	16.11	58.27	35.89	11.81	22.39	165.4	37.73
#1	.0251	.0134	.0065	.0298	.0875	-.0002	.0042
#2	.0347	.0142	.0137	.0287	.1341	-.0000	.0072
#3	.0318	.0348	.0129	.0356	.1324	-.0000	.0094

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	.0019	.0396	.4172	.0039	.0082	.0023
SDev	.0001	.0004	.0075	.0810	.0006	.0069	.0003

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%RSD	2.035	22.03	18.84	19.42	14.85	84.54	12.03
#1	.0043	.0014	.0350	.3328	.0033	.0155	.0021
#2	.0042	.0022	.0482	.4944	.0040	.0075	.0023
#3	.0044	.0021	.0355	.4246	.0044	.0016	.0026

Elem	Zn	Zr
Units	ppm	ppm
Avge	10.02	.0026
SDev	.03	.0009
%RSD	.3328	34.82
#1	10.05	.0016
#2	10.03	.0028
#3	9.985	.0034

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Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6560	.2080	.1659	.1054	.0304	.0172	.1420
SDev	.0043	.0005	.0003	.0011	.0002	.0000	.0005
%RSD	.6479	.2420	.1595	1.094	.6579	.0000	.3659
#1	.6602	.2085	.1658	.1063	.0306	.0172	.1414
#2	.6560	.2079	.1657	.1041	.0304	.0172	.1423
#3	.6517	.2075	.1662	.1058	.0302	.0172	.1423

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1253	.0452	.6266	.1414	.0471	.0467	.1936
SDev	.0003	.0008	.0008	.0005	.0006	.0001	.0003
%RSD	.2112	1.770	.1208	.3560	1.296	.3273	.1491
#1	.1254	.0444	.6275	.1419	.0478	.0468	.1938
#2	.1255	.0452	.6261	.1413	.0470	.0465	.1938
#3	.1250	.0460	.6263	.1409	.0466	.0467	.1933

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0336	.0562	.2161	.0986	.0413	.2365	.0199
SDev	.0001	.0002	.0005	.0004	.0003	.0005	.0001
%RSD	.1717	.4107	.2121	.4224	.8388	.1953	.2896
#1	.0337	.0565	.2162	.0989	.0417	.2368	.0199
#2	.0336	.0561	.2165	.0987	.0411	.2360	.0200
#3	.0336	.0561	.2156	.0981	.0411	.2368	.0199

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0802	.0410	.3669	.0471	.1289	1.346	1.523
SDev	.0006	.0001	.0005	.0009	.0018	.007	.003
%RSD	.7309	.2439	.1288	1.904	1.396	.5302	.1694
#1	.0804	.0411	.3664	.0481	.1289	1.346	1.526
#2	.0806	.0409	.3673	.0466	.1307	1.352	1.522
#3	.0795	.0410	.3671	.0465	.1271	1.338	1.521

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.514	.2585	.1546	.3944	.6838	.0140	.9902
SDev	.002	.0019	.0016	.0015	.0023	.0000	.0079
%RSD	.1572	.7466	1.067	.3881	.3355	.0000	.8018
#1	1.516	.2600	.1530	.3962	.6822	.0140	.9994
#2	1.515	.2591	.1546	.3935	.6864	.0140	.9858
#3	1.512	.2563	.1563	.3936	.6827	.0140	.9855

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2347	.0647	.0347	1.719	.0978	.0311	.0255
SDev	.0016	.0001	.0002	.007	.0001	.0004	.0001
%RSD	.7030	.1786	.5993	.3946	.1023	1.301	.2261
#1	.2361	.0646	.0349	1.723	.0978	.0306	.0256
#2	.2329	.0648	.0348	1.722	.0979	.0313	.0255
#3	.2352	.0646	.0345	1.711	.0977	.0313	.0255

Elem	Zn	Zr
Avge	.0336	.0808
SDev	.0006	.0001

%RSD	1.638	.1891
#1	.0331	.0809
#2	.0336	.0808
#3	.0342	.0806

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.388	18.08	13.16	4.684	76.86	46.96	12.43
SDev	.035	.04	.02	.022	.14	.08	.04
%RSD	.4227	.2351	.1446	.4779	.1800	.1744	.2846
#1	8.364	18.07	13.16	4.664	76.87	46.93	12.42
#2	8.372	18.04	13.14	4.678	76.72	46.89	12.40
#3	8.429	18.13	13.18	4.708	77.00	47.05	12.47

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.959	6.214	61.35	8.601	15.55	30.03	26.51
SDev	.043	.016	.08	.052	.05	.12	.07
%RSD	.7249	.2568	.1347	.6002	.3058	.4051	.2764
#1	5.909	6.210	61.34	8.560	15.53	30.06	26.50
#2	5.981	6.201	61.27	8.583	15.52	29.90	26.45
#3	5.987	6.232	61.44	8.659	15.60	30.14	26.59

Standardization Rpt. Tue 09-12-95 09:09:18 AM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.81	51.75	81.10	10.20	3.173	13.99	7.301
SDev	.30	.14	.13	.02	.041	.17	.016
%RSD	.3991	.2658	.1660	.2045	1.297	1.244	.2185
#1	76.14	51.90	81.25	10.20	3.215	14.16	7.319
#2	75.54	51.64	81.06	10.21	3.133	13.81	7.295
#3	75.74	51.70	80.99	10.17	3.171	14.00	7.289

Elem	P
Avge	14.48
SDev	.04
%RSD	.3037
#1	14.52
#2	14.44
#3	14.48

Standardization Rpt. Tue 09-12-95 09:12:57 AM page

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	50.58	11.65	6.400	17.39	12.35
SDev	.08	.03	.015	.05	.02
%RSD	.1511	.2321	.2328	.2600	.1512
#1	50.50	11.62	6.385	17.34	12.33
#2	50.64	11.66	6.400	17.42	12.36
#3	50.62	11.67	6.415	17.42	12.37

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.95	25.75	37.28	12.71	3.320
SDev	.09	.13	.11	.04	.016
%RSD	.3320	.4868	.3081	.3120	.4721
#1	27.85	25.72	37.17	12.68	3.310
#2	27.96	25.65	37.26	12.70	3.312
#3	28.03	25.89	37.40	12.76	3.338

Standardization Rpt. Tue 09-12-95 09:20:15 AM page

Method: ICP1 Standard: STD6

Elem	U
Avge	52.89
SDev	.26
%RSD	.5006
#1	52.74
#2	52.74
#3	53.20

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.928	78.62	56.60
SDev	.009	.25	.26
%RSD	.4607	.3243	.4615
#1	1.938	78.90	56.90
#2	1.926	78.54	56.47
#3	1.920	78.41	56.42

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.90	27.76	4.028	1.242
SDev	.15	.12	.022	.004
%RSD	.4810	.4269	.5351	.3566
#1	30.85	27.72	4.017	1.238
#2	31.06	27.89	4.053	1.247
#3	30.77	27.67	4.014	1.242

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.59	51.08	8.678	3.379
SDev	.17	.50	.054	.027
%RSD	.7759	.9809	.6268	.8019
#1	21.78	51.64	8.740	3.410
#2	21.52	50.90	8.653	3.370
#3	21.47	50.68	8.640	3.358

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.330697	-.216926	09/12/95 09:29:53
Al	308.215	STD3	STD1-Blank	6.61375	-1.37544	09/12/95 09:29:53
As	193.600	STD5	STD1-Blank	3.59954	-.597164	09/12/95 09:29:53
B	249.600	STD3	STD1-Blank	.968166	-.102045	09/12/95 09:29:53
Ba	493.400	STD2	STD1-Blank	1.19647	-.036373	09/12/95 09:29:53
Be	313.042	STD7	STD1-Blank	.523268	-.009000	09/12/95 09:29:53
Bi	223.061	STD8	STD1-Blank	3.62087	-.514164	09/12/95 09:29:53
Ca	317.900	STD3	STD1-Blank	3.08740	-.386851	09/12/95 09:29:53
Cd	228.800	STD3	STD1-Blank	.985222	-.044532	09/12/95 09:29:53
Ce	418.659	STD5	STD1-Blank	1.98988	-1.24693	09/12/95 09:29:53
Co	228.600	STD2	STD1-Blank	1.11504	-.157629	09/12/95 09:29:53
Cr	205.500	STD2	STD1-Blank	1.52541	-.071897	09/12/95 09:29:53
Cu	324.700	STD2	STD1-Blank	4.31316	-.201281	09/12/95 09:29:53
Dy	353.170	STD4	STD1-Blank	.992254	-.192134	09/12/95 09:29:53
Eu	381.900	STD4	STD1-Blank	1.72149	-.057899	09/12/95 09:29:53
Fe	259.900	STD2	STD1-Blank	2.60391	-.146427	09/12/95 09:29:53
K	766.500	STD3	STD1-Blank	169.107	-36.5441	09/12/95 09:29:53
La	398.852	STD4	STD1-Blank	3.17402	-.312852	09/12/95 09:29:53
Li	670.700	STD3	STD1-Blank	3.58511	-.148065	09/12/95 09:29:53
Mg	279.078	STD2	STD1-Blank	5.35112	-1.26572	09/12/95 09:29:53
Mn	257.600	STD3	STD1-Blank	1.37339	-.027376	09/12/95 09:29:53
Mo	202.000	STD2	STD1-Blank	1.61943	-.129825	09/12/95 09:29:53
Na	588.900	STD2	STD1-Blank	42.2428	-1.73196	09/12/95 09:29:53
Nd	406.106	STD4	STD1-Blank	2.93719	-1.07775	09/12/95 09:29:53
Ni	231.600	STD2	STD1-Blank	3.24284	-.152630	09/12/95 09:29:53
P	214.900	STD3	STD1-Blank	6.96788	-.898160	09/12/95 09:29:
Pb	220.300	STD2	STD1-Blank	.833277	-1.12126	09/12/95 09:29:
Pd	360.959	STD9	STD1-Blank	2.49147	-3.79459	09/12/95 09:29:53
Rh	343.489	STD9	STD1-Blank	1.00884	-1.52778	09/12/95 09:29:53
Sb	206.838	STD5	STD1-Blank	2.70123	-.698177	09/12/95 09:29:53
Se	196.026	STD8	STD1-Blank	5.16347	-.798444	09/12/95 09:29:53
Si	288.100	STD7	STD1-Blank	2.55676	-1.00847	09/12/95 09:29:53
Sn	242.950	STD9	STD1-Blank	7.19001	-4.91629	09/12/95 09:29:53
Sr	421.500	STD2	STD1-Blank	1.16458	-.016304	09/12/95 09:29:53
Te	214.275	STD7	STD1-Blank	.899173	-.890391	09/12/95 09:29:53
Th	283.730	STD4	STD1-Blank	4.12546	-.968382	09/12/95 09:29:53
Ti	334.900	STD2	STD1-Blank	1.29165	-.083527	09/12/95 09:29:53
Tl	190.864	STD8	STD1-Blank	16.5609	-.575214	09/12/95 09:29:53
U	378.280	STD6	STD1-Blank	9.77029	-16.7902	09/12/95 09:29:53
V	292.402	STD5	STD1-Blank	1.58526	-.155039	09/12/95 09:29:53
W	224.875	STD9	STD1-Blank	15.1329	-.470128	09/12/95 09:29:53
Y	371.030	STD5	STD1-Blank	3.03555	-.077508	09/12/95 09:29:53
Zn	213.800	STD2	STD1-Blank	.666687	-.022423	09/12/95 09:29:53
Zr	339.100	STD2	STD1-Blank	1.89170	-.152787	09/12/95 09:29:53

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	3.02391	.216926	09/12/95 09:29:53
Al	308.215	STD3	STD1-Blank	.151200	1.37544	09/12/95 09:29:53
As	193.600	STD5	STD1-Blank	.277813	.597164	09/12/95 09:29:53
B	249.600	STD3	STD1-Blank	1.03288	.102045	09/12/95 09:29:53
Ba	493.400	STD2	STD1-Blank	.835790	.036373	09/12/95 09:29:53
Be	313.042	STD7	STD1-Blank	1.91107	.009000	09/12/95 09:29:53
Bi	223.061	STD8	STD1-Blank	.276177	.514164	09/12/95 09:29:53
Ca	317.900	STD3	STD1-Blank	.323897	.386851	09/12/95 09:29:53
Cd	228.800	STD3	STD1-Blank	1.01500	.044532	09/12/95 09:29:53
Ce	418.659	STD5	STD1-Blank	.502543	1.24693	09/12/95 09:29:53
Co	228.600	STD2	STD1-Blank	.896832	.157629	09/12/95 09:29:53
Cr	205.500	STD2	STD1-Blank	.655563	.071897	09/12/95 09:29:53
Cu	324.700	STD2	STD1-Blank	.231848	.201281	09/12/95 09:29:53
Dy	353.170	STD4	STD1-Blank	1.00781	.192134	09/12/95 09:29:53
Eu	381.900	STD4	STD1-Blank	.580893	.057899	09/12/95 09:29:53
Fe	259.900	STD2	STD1-Blank	.384037	.146427	09/12/95 09:29:53
K	766.500	STD3	STD1-Blank	.005913	36.5441	09/12/95 09:29:53
La	398.852	STD4	STD1-Blank	.315058	.312852	09/12/95 09:29:53
Li	670.700	STD3	STD1-Blank	.278931	.148065	09/12/95 09:29:53
Mg	279.078	STD2	STD1-Blank	.186877	1.26572	09/12/95 09:29:53
Mn	257.600	STD3	STD1-Blank	.728123	.027376	09/12/95 09:29:53
Mo	202.000	STD2	STD1-Blank	.617500	.129825	09/12/95 09:29:53
Na	588.900	STD2	STD1-Blank	.023673	1.73196	09/12/95 09:29:53
Nd	406.106	STD4	STD1-Blank	.340461	1.07775	09/12/95 09:29:53
Ni	231.600	STD2	STD1-Blank	.308372	.152630	09/12/95 09:29:53
P	214.900	STD3	STD1-Blank	.143516	.898160	09/12/95 09:29:53
Pb	220.300	STD2	STD1-Blank	1.20008	1.12126	09/12/95 09:29:53
Pd	360.959	STD9	STD1-Blank	.401369	3.79459	09/12/95 09:29:53
Rh	343.489	STD9	STD1-Blank	.991239	1.52778	09/12/95 09:29:53
Sb	206.838	STD5	STD1-Blank	.370202	.698177	09/12/95 09:29:53
Se	196.026	STD8	STD1-Blank	.193668	.798444	09/12/95 09:29:53
Si	288.100	STD7	STD1-Blank	.391120	1.00847	09/12/95 09:29:53
Sn	242.950	STD9	STD1-Blank	.139082	4.91629	09/12/95 09:29:53
Sr	421.500	STD2	STD1-Blank	.858680	.016304	09/12/95 09:29:53
Te	214.275	STD7	STD1-Blank	1.11213	.890391	09/12/95 09:29:53
Th	283.730	STD4	STD1-Blank	.242397	.968382	09/12/95 09:29:53
Ti	334.900	STD2	STD1-Blank	.774202	.083527	09/12/95 09:29:53
Tl	190.864	STD8	STD1-Blank	.060383	.575214	09/12/95 09:29:53
U	378.280	STD6	STD1-Blank	.102351	16.7902	09/12/95 09:29:53
V	292.402	STD5	STD1-Blank	.630810	.155039	09/12/95 09:29:53
W	224.875	STD9	STD1-Blank	.066081	.470128	09/12/95 09:29:53
Y	371.030	STD5	STD1-Blank	.329430	.077508	09/12/95 09:29:53
Zn	213.800	STD2	STD1-Blank	1.49995	.022423	09/12/95 09:29:53
Zr	339.100	STD2	STD1-Blank	.528624	.152787	09/12/95 09:29:53

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	-.000002
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000002	.000002
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	-.000008
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	-.000000	.000000
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	.000000	-.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 09:39:50
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0033	.0075	.0080	.0002	.0000	.0030
SDev	.0002	.0015	.0019	.0011	.0001	.0000	.0033
%RSD	35.36	46.32	24.76	14.05	34.67	51.29	111.2
#1	-.0006	.0034	.0054	.0082	.0002	.0000	.0065
#2	-.0009	.0048	.0089	.0068	.0002	.0000	-.0001
#3	-.0005	.0018	.0083	.0091	.0001	.0000	.0025

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0011	-.0006	.0005	.0018	.0003	-.0009
SDev	.0011	.0014	.0041	.0004	.0008	.0010	.0004
%RSD	176.6	130.1	671.4	92.48	41.02	404.8	43.80
#1	-.0002	-.0027	.0039	.0005	.0015	.0002	-.0009
#2	.0018	-.0001	-.0014	.0000	.0013	.0013	-.0005
#3	.0003	-.0005	-.0043	.0009	.0027	-.0008	-.0012

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0010	-.1184	-.0004	.0012	-.0027	-.0005
SDev	.0002	.0002	.0338	.0003	.0008	.0044	.0002
%RSD	14810.	16.91	28.57	72.67	69.28	163.0	52.40
#1	.0001	-.0008	-.1184	-.0008	.0007	.0023	-.0003
#2	.0001	-.0009	-.0846	-.0003	.0022	-.0047	-.0003
#3	-.0002	-.0012	-.1522	-.0002	.0007	-.0058	-.0007

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0085	-.0018	.0011	.0112	-.0047	.0094
SDev	.0006	.0084	.0018	.0017	.0140	.0092	.0036
%RSD	134.8	99.83	101.3	159.7	125.8	197.0	38.63
#1	-.0001	.0085	-.0003	.0004	-.0019	.0052	.0120
#2	.0012	.0169	-.0012	.0030	.0260	-.0063	.0110
#3	.0004	.0000	-.0038	-.0002	.0093	-.0129	.0053

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0031	-.0017	.1967	-.0184	.0003	.0048
SDev	.0016	.0084	.0067	.0079	.0065	.0001	.0032
%RSD	61.04	275.2	390.4	4.034	35.36	21.92	66.00
#1	.0034	.0042	-.0058	.2050	-.0222	.0004	.0068
#2	.0038	.0109	-.0054	.1960	-.0109	.0003	.0012
#3	.0008	-.0059	.0060	.1891	-.0221	.0002	.0064

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0031	-.0001	.0065	.0187	-.0008	-.0086	-.0002
SDev	.0026	.0001	.0029	.0272	.0003	.0026	.0002

%RSD	83.50	58.09	45.23	145.9	37.62	30.76	88.98
#1	-.0012	-.0001	.0081	-.0122	-.0006	-.0071	-.0001
#2	-.0020	-.0001	.0083	.0394	-.0012	-.0117	-.0004
#3	-.0061	-.0002	.0031	.0287	-.0007	-.0071	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	-.0009
SDev	.0004	.0001
%RSD	224.1	13.55
#1	-.0002	-.0008
#2	.0002	-.0010
#3	.0006	-.0010

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/12/95 09:43:02
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4884	24.98	2.595	1.996	.5074	.0947	24.71
SDev	.0031	.21	.019	.025	.0055	.0008	.17
%RSD	.6345	.8228	.7421	1.254	1.088	.8283	.6804
#1	.4886	25.06	2.585	2.010	.5093	.0949	24.76
#2	.4914	25.14	2.617	2.011	.5117	.0954	24.85
#3	.4852	24.75	2.583	1.967	.5011	.0939	24.53
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.09	.5044	-.0270	1.027	1.027	.9978	-.0004
SDev	.13	.0070	.0130	.008	.002	.0080	.0008
%RSD	.5289	1.383	48.31	.7682	.2158	.8072	208.8
#1	25.11	.4989	-.0336	1.027	1.026	.9992	-.0009
#2	25.21	.5123	-.0355	1.035	1.026	1.005	-.0008
#3	24.95	.5022	-.0120	1.020	1.030	.9892	.0005
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.44	25.95	.0039	1.940	26.53	.5131
SDev	.0003	.16	.33	.0015	.013	.17	.0044
%RSD	15.80	.7791	1.264	37.67	.6843	.6338	.8664
#1	.0018	20.47	26.11	.0033	1.952	26.55	.5146
#2	.0020	20.58	25.57	.0028	1.943	26.68	.5166
#3	.0024	20.27	26.16	.0055	1.926	26.35	.5081
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.030	24.93	.0084	1.051	.0473	2.619	-.0132
SDev	.004	.18	.0032	.011	.0261	.008	.0246
%RSD	.3502	.7390	37.54	1.080	55.02	.3020	186.7
#1	1.029	25.13	.0085	1.046	.0687	2.615	-.0179
#2	1.034	24.89	.0052	1.064	.0183	2.628	-.0350
#3	1.027	24.77	.0116	1.043	.0550	2.613	.0134
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	2.557	2.508	19.33	-.0757	.5124	-.0014
SDev	.0099	.021	.013	.13	.0276	.0050	.0043
%RSD	9812.	.8118	.5335	.6541	36.42	.9682	309.8
#1	-.0060	2.544	2.509	19.37	-.0955	.5141	.0031
#2	-.0056	2.581	2.520	19.44	-.0875	.5162	-.0055
#3	.0113	2.547	2.494	19.19	-.0442	.5068	-.0018
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0447	.9961	2.522	.0340	.9930	.0245	-.0001
SDev	.0002	.0089	.032	.0922	.0074	.0038	.0003
%RSD	.4027	.8914	1.255	271.6	.7493	15.42	359.6
#1	.0446	.9992	2.517	.0386	.9941	.0210	-.0003
#2	.0445	1.003	2.555	-.0605	.9998	.0285	-.0002
#3	.0449	.9861	2.492	.1237	.9850	.0239	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.008	2.041
SDev	.003	.019
%RSD	.2671	.9083
#1	1.011	2.044
#2	1.007	2.057
#3	1.006	2.021
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 09:46:53
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

U, W-WM-QC PASS ANS 9/13/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.1766	.0196	.0076	.0008	.0003	.0163
SDev	.0018	.0113	.0122	.0010	.0004	.0000	.0040
%RSD	143.8	6.398	61.96	12.79	48.93	12.72	24.52
#1	-.0007	-.1896	.0056	.0066	.0004	.0002	.0117
#2	.0017	-.1712	.0265	.0085	.0010	.0003	.0183
#3	.0027	-.1690	.0268	.0077	.0011	.0003	.0190
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0256	-.0003	1.947	.0040	.0016	.0030	1.929
SDev	.0032	.0014	.022	.0025	.0021	.0011	.037
%RSD	12.43	511.5	1.114	62.24	132.1	36.42	1.935
#1	.0219	-.0001	1.972	.0011	.0003	.0018	1.971
#2	.0275	-.0018	1.937	.0054	.0004	.0040	1.911
#3	.0273	.0010	1.931	.0054	.0041	.0032	1.904
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.920	.0063	.2818	1.925	.0029	.0848	.0001
SDev	.036	.0011	.4542	.024	.0013	.0019	.0004
%RSD	1.869	17.74	161.1	1.259	44.89	2.202	263.2
#1	1.961	.0051	-.2368	1.953	.0014	.0827	-.0003
#2	1.903	.0072	.4735	1.915	.0032	.0863	.0003
#3	1.896	.0067	.6088	1.907	.0040	.0853	.0004
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0245	1.912	.0080	.0059	.0564	2.010
SDev	.0012	.0202	.028	.0020	.0112	.0095	.008
%RSD	40.56	82.27	1.473	24.59	188.4	16.92	.4174
#1	.0016	.0017	1.943	.0063	-.0054	.0455	2.011
#2	.0036	.0317	1.904	.0076	.0063	.0629	2.001
#3	.0037	.0402	1.889	.0102	.0169	.0609	2.018
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.966	.0173	.0174	.1554	2.051	.0006	1.814
SDev	.023	.0020	.0105	.0081	.025	.0002	.015
%RSD	1.150	11.33	60.39	5.218	1.208	28.51	.8006
#1	1.992	.0164	.0077	.1466	2.022	.0004	1.831
#2	1.958	.0159	.0159	.1572	2.067	.0007	1.804
#3	1.949	.0195	.0286	.1625	2.063	.0008	1.807
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.941	.0012	.0169	08.603	-.0004	0.4948	.9554
SDev	.066	.0007	.0089	.009	.0013	.0120	.0127
%RSD	1.344	61.98	52.85	.1022	348.7	2.420	1.329
#1	5.017	.0003	.0216	08.594	-.0018	0.4990	.9700
#2	4.908	.0015	.0226	08.605	.0001	0.4812	.9490
#3	4.897	.0016	.0066	08.611	.0006	0.5040	.9472
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0069
SDev	.0006	.0010
%RSD	35.94	14.83
#1	.0010	-.0078
#2	.0021	-.0058
#3	.0016	-.0071
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 09:50:51
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.1120	Q.0914	Q.1155	.0482	.0218	.0293
SDev	.0003	.0018	.0055	.0029	.0000	.0000	.0022
%RSD	15.06	1.582	6.041	2.549	.0032	.1677	7.563
#1	.0024	.1136	Q.0883	Q.1123	.0482	.0218	.0319
#2	.0019	.1101	Q.0978	.1181	.0482	.0218	.0278
#3	Q.0026	.1123	Q.0882	Q.1163	.0482	.0217	.0283
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.05	Q.0104	.0096	Q.0258	Q.0204	.0209	-.0001
SDev	.02	.0013	.0046	.0005	.0010	.0005	.0002
%RSD	.0492	12.39	47.15	1.796	5.002	2.457	184.7
#1	Q35.05	.0115	.0067	Q.0261	Q.0200	.0214	.0000
#2	Q35.07	Q.0109	.0073	Q.0260	Q.0216	.0204	.0000
#3	Q35.04	Q.0090	.0149	Q.0252	Q.0198	.0211	-.0003
Errors	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	Q.1190	2.227	.0072	Q.0129	9.716	.0344
SDev	.0001	.0006	.068	.0014	.0002	.015	.0003
%RSD	5.821	.5048	3.069	18.61	1.611	.1562	.7720
#1	.0012	Q.1194	2.165	.0061	Q.0126	Q9.723	.0342
#2	.0013	Q.1183	2.215	.0069	Q.0130	9.698	.0347
#3	.0013	Q.1193	2.300	.0087	Q.0130	Q9.726	.0344
Errors	NOCHECK	QC Fail	QC Pass	NOCHECK	QC Fail	QC Pass	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1052	Q11.04	.0140	.0612	.0250	.0351	.0236
SDev	.0011	.04	.0033	.0033	.0033	.0030	.0109
%RSD	1.090	.3339	23.19	5.398	13.21	8.664	46.33
#1	.1057	Q11.06	.0115	.0604	.0228	Q.0329	.0128
#2	.1060	Q11.07	.0177	.0584	.0287	Q.0338	.0233
#3	.1039	Q11.00	.0129	.0649	.0233	Q.0386	.0347
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	.1043	12.19		.0606		.0353	

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Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0093	.0057	Q.0202	.0877	.0051	Q.2542	.0067
SDev	.0005	.0064	.0023	.0031	.0078	.0003	.0023
%RSD	5.380	111.8	11.15	3.539	152.7	.1062	33.66
#1	.0093	.0035	Q.0189	.0905	-.0016	Q.2541	.0044
#2	.0098	.0130	Q.0228	.0882	.0137	Q.2546	.0089
#3	.0088	.0008	Q.0189	.0844	.0032	Q.2541	.0069
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0058	.0081	Q.0196	.3037	Q.0282	.0006	-.0012
SDev	.0037	.0001	.0031	.0618	.0004	.0106	.0002
%RSD	63.02	1.898	16.00	20.34	1.313	1658.	14.34
#1	-.0044	.0082	Q.0230	.2466	Q.0285	-.0094	-.0011
#2	-.0031	.0079	Q.0191	.2952	Q.0278	-.0003	-.0014
#3	-.0100	.0081	Q.0168	.3693	Q.0283	.0116	-.0012
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0844	.0002
SDev	.0008	.0003
%RSD	.8931	122.2
#1	Q.0836	.0000
#2	Q.0843	.0001
#3	Q.0851	.0005
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Tue 09-12-95 09:56:19 AM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 09:55:00
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	1.913	2.013	1.951	.9987	.9769	1.936
SDev	.0006	.003	.017	.010	.0043	.0034	.022
%RSD	92.64	.1578	.8270	.5335	.4324	.3454	1.114
#1	-.0004	1.914	2.028	1.951	1.002	.9795	1.940
#2	-.0012	1.915	1.996	1.961	1.000	.9781	1.956
#3	-.0002	1.909	2.016	1.940	.9938	.9731	1.913

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.943	.9893	.0022	1.036	.5165	2.014	-.0008
SDev	.003	.0053	.0036	.003	.0037	.010	.0009
%RSD	.1712	.5333	161.2	.2851	.7152	.4888	118.3
#1	1.946	.9847	.0017	1.039	.5194	2.015	-.0009
#2	1.941	.9951	-.0011	1.034	.5123	2.024	-.0017
#3	1.940	.9862	.0061	1.035	.5179	2.004	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	2.016	4.814	.0006	1.943	2.092	1.021
SDev	.0000	.005	.122	.0015	.006	.010	.003
%RSD	4.745	.2452	2.541	239.1	.2863	.4840	.2583
#1	.0004	2.020	4.752	.0004	1.949	2.097	1.023
#2	.0005	2.016	4.735	-.0007	1.944	2.099	1.022
#3	.0004	2.011	4.955	.0023	1.938	2.080	1.018

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.998	8.015	-.0007	2.091	4.734	2.058	.0077
SDev	.009	.026	.0005	.007	.031	.016	.0111
%RSD	.4337	.3200	75.55	.3175	.6645	.7637	143.1
#1	2.005	8.045	-.0008	2.090	4.724	2.065	.0063
#2	2.002	7.998	-.0012	2.099	4.770	2.040	-.0025
#3	1.989	8.003	-.0001	2.086	4.710	2.069	.0194

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0018	1.938	5.045	-.0102	2.021	-.0142
SDev	.0040	.0026	.012	.008	.0208	.007	.0014
%RSD	466.5	144.2	.6042	.1635	202.9	.3652	10.14
#1	-.0030	.0005	1.938	5.055	-.0169	2.026	-.0143
#2	-.0033	.0048	1.950	5.041	-.0268	2.025	-.0127
#3	.0038	.0001	1.927	5.040	.0130	2.013	-.0156

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0067	.0003	1.939	.0056	.9611	.0092	-.0002
SDev	.0104	.0002	.016	.0560	.0025	.0102	.0003

%RSD	156.0	85.17	.8239	995.1	.2598	109.8	139.7
#1	-.0048	.0003	1.958	.0470	.9620	-.0019	-.0005
#2	.0154	.0000	1.934	-.0581	.9629	.0180	-.0002
#3	.0094	.0005	1.927	.0280	.9582	.0117	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	-.0018
SDev	.003	.0010
%RSD	.3025	53.14
#1	1.014	-.0008
#2	1.020	-.0028
#3	1.020	-.0019

Analysis Report Tue 09-12-95 10:02:04 AM page

Method: ICP1 Sample Name: SST-ICS-0 9509081100 Operator: DRS
Run Time: 09/12/95 10:00:45
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0074	97.39	.1145	.0038	.0004	.0007	.0562
SDev	.0013	.50	.0053	.0011	.0002	.0000	.0056
%RSD	17.23	.5126	4.618	29.87	43.88	2.547	10.03
#1	-.0075	97.57	.1110	.0033	.0002	.0007	.0519
#2	-.0061	96.83	.1206	.0030	.0006	.0007	.0626
#3	-.0086	97.78	.1119	.0051	.0005	.0007	.0542

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0752	.0087	-.1271	.0062	.0357	-.0069	-.0039
SDev	.0011	.0011	.0054	.0006	.0014	.0007	.0006
%RSD	1.479	12.53	4.247	10.09	3.805	9.633	15.34
#1	.0754	.0086	-.1287	.0069	.0346	-.0076	-.0045
#2	.0763	.0077	-.1211	.0058	.0372	-.0064	-.0033
#3	.0741	.0099	-.1315	.0059	.0353	-.0066	-.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	19.91	.0000	.0045	.0037	.2662	.0014
SDev	.0003	.09	.1172	.0007	.0002	.0159	.0001
%RSD	49.95	.4657	168e6	14.87	5.679	5.984	10.86
#1	.0004	19.94	-.0676	.0038	.0036	.2652	.0015
#2	.0010	19.81	.1353	.0050	.0036	.2827	.0014
#3	.0005	19.99	-.0676	.0048	.0039	.2509	.0012

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0099	.0010	-.0231	51.64	.0235	.1964	-.3452
SDev	.0002	.0175	.0065	.24	.0107	.0037	.0136
%RSD	1.626	1711.	28.26	.4655	45.71	1.892	3.951
#1	.0100	-.0145	-.0287	51.67	.0261	.2005	-.3502
#2	.0101	.0200	-.0160	51.39	.0327	.1956	-.3297
#3	.0098	-.0025	-.0246	51.87	.0117	.1932	-.3556

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0318	.0022	.0241	.0647	.0473	.0002	.0029
SDev	.0035	.0063	.0098	.0085	.0137	.0001	.0040
%RSD	10.87	290.0	40.55	13.09	29.01	28.37	137.7
#1	-.0355	.0024	.0305	.0698	.0315	.0002	-.0016
#2	-.0286	.0084	.0291	.0694	.0549	.0003	.0061
#3	-.0315	-.0042	.0129	.0549	.0555	.0003	.0041

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6596	.0013	.2185	49.87	.0021	.0531	.0032
SDev	.0066	.0004	.0029	.39	.0009	.0069	.0004

%RSD	1.003	28.09	1.336	.7870	41.05	13.06	11.51
#1	.6646	.0014	.2189	49.82	.0023	.0462	.0034
#2	.6621	.0016	.2154	49.50	.0029	.0600	.0035
#3	.6521	.0009	.2212	50.28	.0012	.0531	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0279	9.983
SDev	.0017	.058
%RSD	5.960	.5815
#1	-.0261	10.01
#2	-.0294	9.916
#3	-.0281	10.02

Analysis Report Tue 09-12-95 10:07:54 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 10:06:34
Comment: (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0062	.0105	.0036	.0002	-.0000	.0066
SDev	.0008	.0046	.0068	.0013	.0003	.0000	.0072
%RSD	120.6	74.54	64.16	37.20	137.6	685.9	109.4
#1	.0009	.0099	.0158	.0050	.0004	.0000	.0051
#2	-.0002	.0010	.0029	.0023	-.0001	-.0000	.0002
#3	.0012	.0076	.0129	.0034	.0004	-.0000	.0144

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	-.0009	.0029	.0018	-.0001	-.0008	.0003
SDev	.0021	.0010	.0090	.0008	.0017	.0009	.0009
%RSD	84.39	119.3	304.2	46.07	2708.	106.6	339.7
#1	.0047	-.0020	.0111	.0025	.0019	-.0007	.0011
#2	.0007	-.0003	-.0067	.0009	-.0011	.0000	-.0007
#3	.0020	-.0002	.0044	.0020	-.0010	-.0018	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0010	-.0169	.0012	.0011	.0097	-.0003
SDev	.0004	.0004	.2325	.0021	.0009	.0080	.0003
%RSD	146.6	40.17	1375.	179.8	88.13	82.47	96.46
#1	.0005	.0010	.1860	.0026	.0014	.0153	-.0002
#2	-.0002	.0006	-.2706	-.0013	.0000	.0005	-.0007
#3	.0004	.0014	.0338	.0022	.0018	.0133	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0013	.0038	.0052	.0078	.0011	.0248
SDev	.0012	.0211	.0080	.0022	.0106	.0054	.0204
%RSD	104.6	1583.	210.1	41.66	136.6	511.3	82.25
#1	.0026	.0039	.0087	.0059	.0175	.0024	.0440
#2	.0004	-.0209	-.0054	.0028	-.0036	-.0049	.0035
#3	.0005	.0210	.0081	.0069	.0095	.0057	.0268

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0100	.0052	.0081	-.0006	.0195	.0005	.0071
SDev	.0083	.0034	.0111	.0052	.0188	.0001	.0056
%RSD	82.91	64.71	137.9	898.3	96.47	22.59	79.06
#1	.0145	.0026	.0121	.0014	.0316	.0006	.0135
#2	.0004	.0090	-.0045	-.0064	-.0022	.0004	.0031
#3	.0150	.0040	.0166	.0033	.0291	.0005	.0047

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0001	.0044	.0388	.0002	-.0012	.0002
SDev	.0022	.0004	.0069	.1338	.0007	.0096	.0005

%RSD	16680.	762.4	157.2	345.0	283.8	779.6	297.2
#1	-.0024	.0004	.0120	.1618	.0010	.0076	.0007
#2	.0004	-.0004	-.0014	-.1037	-.0003	-.0115	-.0003
#3	.0019	.0001	.0026	.0583	.0000	.0002	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0000	.0004
SDev	.0006	.0014
%RSD	3064.	347.3
#1	-.0005	.0018
#2	-.0002	-.0010
#3	.0007	.0004

Analysis Report Tue 09-12-95 10:11:13 AM page 1

Method: ICP1 Sample Name: 95-007932-A3 @2 Operator: DRS
Run Time: 09/12/95 10:09:53
Comment: DRAINABLE LIQUIDS METHOD BLANK @2XDIL(ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0717	.0139	.8091	.0014	-.0000	.0003
SDev	.0004	.0049	.0064	.0057	.0001	.0000	.0037
%RSD	118.8	6.865	46.12	.7045	5.034	196.0	1124.
#1	-.0001	.0771	.0067	.8066	.0013	.0000	.0044
#2	-.0001	.0702	.0188	.8050	.0014	-.0000	-.0030
#3	-.0007	.0676	.0161	.8156	.0013	-.0000	-.0004

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0397	-.0002	-.0038	.0014	.0001	.0026	-.0007
SDev	.0008	.0012	.0061	.0009	.0018	.0014	.0003
%RSD	1.901	617.1	160.0	62.66	1814.	54.13	41.53
#1	.0400	.0011	-.0038	.0024	-.0005	.0033	-.0008
#2	.0404	-.0005	.0023	.0014	-.0013	.0035	-.0004
#3	.0389	-.0012	-.0099	.0006	.0021	.0010	-.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0130	-.2086	-.0009	.0002	.0053	-.0001
SDev	.0002	.0007	.1356	.0011	.0009	.0034	.0004
%RSD	2695.	5.373	65.03	124.8	384.3	65.02	371.8
#1	.0001	.0138	-.2198	-.0011	-.0007	.0079	.0002
#2	.0001	.0129	-.0676	.0003	.0011	.0066	-.0001
#3	-.0002	.0124	-.3382	-.0018	.0004	.0014	-.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.9940	-.0033	.0106	.0116	-.0011	.0053
SDev	.0015	.0136	.0038	.0015	.0114	.0021	.0113
%RSD	146.0	1.368	116.0	14.01	98.18	187.5	215.6
#1	-.0001	.9884	.0010	.0089	.0053	.0008	.0113
#2	.0028	.9841	-.0044	.0114	.0248	-.0008	.0123
#3	.0005	1.010	-.0063	.0114	.0048	-.0034	-.0078

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.0129	.0018	1.012	-.0021	.0004	.0018
SDev	.0042	.0066	.0106	.009	.0040	.0001	.0022
%RSD	202.5	51.08	577.5	.8706	191.9	15.86	122.5
#1	.0060	.0053	-.0071	1.005	-.0025	.0005	-.0004
#2	.0026	.0166	.0134	1.009	.0021	.0005	.0040
#3	-.0023	.0168	-.0008	1.022	-.0059	.0003	.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0044	.0014	.0133	.0085	-.0006	-.0020	-.0005
SDev	.0042	.0003	.0038	.0367	.0004	.0038	.0002

%RSD	95.69	20.55	28.36	432.8	72.66	184.2	34.48
#1	-.0093	.0016	.0110	-.0325	-.0001	.0020	-.0004
#2	-.0020	.0014	.0177	.0384	-.0009	-.0026	-.0004
#3	-.0020	.0011	.0113	.0196	-.0008	-.0055	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0051	.0009
SDev	.0012	.0006
%RSD	23.85	59.67
#1	.0061	.0015
#2	.0054	.0009
#3	.0037	.0004

Analysis Report Tue 09-12-95 10:15:00 AM page 1

Method: ICP1 Sample Name: 95-007932-A3 Operator: DRS
Run Time: 09/12/95 10:13:41
Comment: DRAINABLE LIQUIDS METHOD BLANK (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	.1267	.0087	1.584	.0019	-.0001	-.0012
SDev	.0010	.0035	.0018	.013	.0001	.0000	.0057
%RSD	83.15	2.745	20.97	.8146	3.589	25.72	473.4
#1	-.0010	.1303	.0085	1.576	.0019	-.0001	.0048
#2	-.0023	.1233	.0107	1.599	.0018	-.0001	-.0067
#3	-.0003	.1266	.0070	1.577	.0019	-.0001	-.0018

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0126	-.0013	-.0106	.0005	.0016	-.0020	-.0026
SDev	.0017	.0007	.0020	.0015	.0006	.0016	.0008
%RSD	13.75	55.46	19.39	323.3	35.57	80.15	28.88
#1	.0127	-.0008	-.0103	.0007	.0023	-.0002	-.0027
#2	.0108	-.0021	-.0127	-.0012	.0012	-.0030	-.0034
#3	.0142	-.0009	-.0087	.0019	.0014	-.0028	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0194	-.6821	-.0029	.0001	.0060	-.0003
SDev	.0002	.0005	.1280	.0013	.0013	.0102	.0001
%RSD	29.45	2.476	18.77	43.84	1056.	169.7	42.29
#1	-.0005	.0192	-.5919	-.0023	-.0000	.0176	-.0003
#2	-.0008	.0191	-.8286	-.0044	-.0011	-.0016	-.0005
#3	-.0005	.0200	-.6257	-.0021	.0014	.0020	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	1.918	-.0150	.0176	.0059	.0003	-.0267
SDev	.0009	.011	.0067	.0014	.0118	.0037	.0175
%RSD	100.7	.5850	44.53	7.712	198.1	1244.	65.66
#1	.0002	1.927	-.0128	.0161	.0082	-.0002	-.0208
#2	.0019	1.922	-.0225	.0187	.0164	-.0031	-.0463
#3	.0005	1.905	-.0097	.0180	-.0068	.0042	-.0128

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0169	.0099	-.0022	1.995	-.0360	.0004	.0030
SDev	.0046	.0081	.0033	.008	.0198	.0000	.0044
%RSD	27.29	82.10	151.6	.4073	55.04	1.133	147.9
#1	-.0130	.0072	-.0057	1.986	-.0132	.0004	.0039
#2	-.0220	.0034	.0008	2.001	-.0454	.0004	-.0018
#3	-.0157	.0190	-.0016	1.996	-.0493	.0004	.0068

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0020	.0083	-.2183	-.0014	-.0040	-.0010
SDev	.0038	.0002	.0030	.0410	.0006	.0046	.0001

%RSD	232.4	8.139	35.90	18.78	41.81	116.5	15.26
#1	.0057	.0020	.0064	-.2154	-.0013	.0010	-.0009
#2	-.0019	.0018	.0068	-.2607	-.0020	-.0048	-.0011
#3	.0011	.0021	.0118	-.1789	-.0008	-.0081	-.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0085	-.0005
SDev	.0007	.0006
%RSD	8.549	109.6
#1	.0081	-.0009
#2	.0094	-.0009
#3	.0081	.0001

Analysis Report Tue 09-12-95 10:21:03 AM page

Method: ICP1 Sample Name: 95-007932-A4 @2 Operator: DRS
Run Time: 09/12/95 10:19:44
Comment: MATRIX SPIKE @2X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.0122	55289.	k-47.70	k1.747	k.0036	k.0114	k.1827
SDev	.0001	.	.08	.013	.0001	.0001	.0067
%RSD	.6496	.0000	.1681	.7688	3.796	.5460	3.671
#1	k.0121	55289.	k-47.68	k1.753	k.0035	k.0114	k.1857
#2	k.0122	55289.	k-47.63	k1.756	k.0037	k.0115	k.1750
#3	k.0121	55289.	k-47.78	k1.731	k.0037	k.0114	k.1874

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k2.359	k.5727	k.0279	k.3063	k10.79	k.1440	k.0019
SDev	.005	.0024	.0100	.0003	.04	.0008	.0008
%RSD	.2207	.4125	35.99	.1127	.3750	.5435	41.13
#1	k2.357	k.5706	k.0270	k.3066	k10.80	k.1446	k.0016
#2	k2.365	k.5722	k.0184	k.3064	k10.82	k.1443	k.0014
#3	k2.356	k.5753	k.0384	k.3059	k10.74	k.1431	k.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.0027	k4.277	107.0	k.0176	k.0368	k.0546	k-.0386
SDev	.0001	.015	.5	.0011	.0002	.0031	.0001
%RSD	4.820	.3495	.4730	6.160	.5647	5.746	.2585
#1	k.0027	k4.278	107.4	k.0168	k.0370	k.0512	k-.0387
#2	k.0026	k4.292	107.3	k.0173	k.0367	k.0552	k-.0385
#3	k.0029	k4.262	106.5	k.0189	k.0367	k.0573	k-.0387

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k-1.459	4922.	k.0189	k13.21	k2.471	k-3.722	k.0844
SDev	.007	27.	.0047	.04	.125	.035	.0127
%RSD	.4876	.5454	25.06	.2804	5.045	.9436	15.10
#1	k-1.460	4941.	k.0171	k13.22	k2.451	k-3.749	k.0788
#2	k-1.452	4932.	k.0154	k13.24	k2.605	k-3.682	k.0754
#3	k-1.466	4891.	k.0243	k13.17	k2.358	k-3.735	k.0990

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.1034	k-13.55	k-12.44	k7.240	k.7937	k.0093	k-5.873
SDev	.0076	.01	.02	.015	.0112	.0001	.017
%RSD	7.367	.0778	.1793	.2138	1.410	.6641	.2897
#1	k.1015	k-13.54	k-12.41	k7.230	k.7903	k.0093	k-5.889
#2	k.0969	k-13.54	k-12.44	k7.258	k.7847	k.0093	k-5.855
#3	k.1118	k-13.56	k-12.45	k7.233	k.8062	k.0094	k-5.875

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k.1021	k.0026	k2.869	k8.547	k.0051	k2.349	k.0014
SDev	.0034	.0004	.026	.070	.0005	.013	.0004

%RSD	3.375	16.11	.8915	.8166	9.318	.5336	30.26
#1	k.1001	k.0023	k2.896	k8.554	k.0050	k2.341	k.0010
#2	k.1061	k.0024	k2.866	k8.475	k.0046	k2.343	k.0014
#3	k.1001	k.0031	k2.845	k8.614	k.0056	k2.364	k.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	k.2550	k.1988
SDev	.0014	.0009
%RSD	.5588	.4768
#1	k.2534	k.1978
#2	k.2562	k.1997
#3	k.2554	k.1989

Analysis Report Tue 09-12-95 10:25:32 AM page

Method: ICP1 Sample Name: 95-007932-A4 @10 Operator: DRS
Run Time: 09/12/95 10:24:12
Comment: MATRIX SPIKE @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	284.9	.2380	.3768	.0013	.0025	.0408
SDev	.0018	3.0	.0130	.0045	.0002	.0000	.0091
%RSD	66.15	1.044	5.481	1.204	18.68	.6602	22.28
#1	.0008	287.7	.2239	.3815	.0010	.0024	.0303
#2	.0043	281.8	.2497	.3725	.0015	.0025	.0454
#3	.0031	285.3	.2404	.3762	.0013	.0025	.0467

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5924	.0238	.0156	.0690	2.376	.0266	.0006
SDev	.0041	.0015	.0120	.0006	.020	.0015	.0013
%RSD	.6879	6.490	77.07	.9251	.8328	5.662	215.4
#1	.5878	.0224	.0033	.0683	2.390	.0260	-.0007
#2	.5936	.0237	.0274	.0695	2.354	.0284	.0018
#3	.5957	.0255	.0161	.0692	2.386	.0256	.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.9499	23.31	.0048	.0102	.0167	.0117
SDev	.0004	.0057	.20	.0019	.0007	.0058	.0004
%RSD	53.28	.6009	.8375	39.19	7.284	34.63	3.210
#1	.0003	.9533	23.54	.0032	.0096	.0104	.0113
#2	.0010	.9433	23.20	.0069	.0110	.0217	.0120
#3	.0007	.9531	23.20	.0042	.0100	.0181	.0117

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1141	1429.	.0058	2.948	3.718	1.217	.0367
SDev	.0010	20.	.0076	.022	.018	.015	.0290
%RSD	.8654	1.366	132.2	.7439	.4969	1.204	78.88
#1	.1131	1449.	-.0014	2.955	3.697	1.201	.0073
#2	.1151	1410.	.0138	2.923	3.732	1.223	.0653
#3	.1141	1429.	.0049	2.965	3.725	1.228	.0376

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0282	-.0364	-.0138	1.508	.1410	.0024	-.0447
SDev	.0115	.0075	.0090	.006	.0396	.0001	.0087
%RSD	40.96	20.65	64.81	.3899	28.12	2.461	19.41
#1	.0154	-.0451	-.0172	1.513	.1045	.0023	-.0547
#2	.0379	-.0316	-.0037	1.502	.1831	.0024	-.0400
#3	.0312	-.0327	-.0206	1.508	.1353	.0024	-.0394

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0166	.0005	.6071	1.964	.0006	.5232	.0003
SDev	.0037	.0005	.0048	.114	.0013	.0087	.0005

Analysis Report Tue 09-12-95 10:25:32 AM page 2

%RSD	21.94	84.14	.7942	5.799	201.7	1.669	156.1
#1	.0203	.0000	.6017	1.843	-.0006	.5150	-.0002
#2	.0130	.0009	.6086	2.069	.0019	.5324	.0009
#3	.0167	.0007	.6110	1.979	.0006	.5221	.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0564	.0421
SDev	.0011	.0009
%RSD	1.924	2.254
#1	.0555	.0410
#2	.0576	.0426
#3	.0560	.0426

Analysis Report

Tue 09-12-95 10:31:10 AM page

Method: ICP1 Sample Name: 95-007932-A4 @50 Operator: DRS
Run Time: 09/12/95 10:29:51
Comment: MATRIX SPIKE @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	58.98	.0374	.0792	-.0001	.0004	.0062
SDev	.0006	.19	.0045	.0018	.0001	.0000	.0035
%RSD	19.47	.3175	12.10	2.222	84.35	.5780	57.12
#1	-.0022	58.91	.0394	.0795	-.0000	.0004	.0094
#2	-.0033	59.19	.0322	.0772	-.0001	.0004	.0068
#3	-.0029	58.83	.0405	.0807	-.0001	.0004	.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0909	.0047	-.0202	.0130	.4970	-.0003	-.0029
SDev	.0006	.0005	.0023	.0006	.0011	.0004	.0000
%RSD	.6165	9.832	11.37	4.284	.2154	145.3	.7037
#1	.0915	.0052	-.0194	.0132	.4971	-.0002	-.0029
#2	.0908	.0046	-.0184	.0123	.4980	-.0008	-.0029
#3	.0904	.0043	-.0228	.0133	.4958	.0001	-.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.1996	4.425	-.0042	.0001	-.0116	.0019
SDev	.0001	.0001	.052	.0003	.0008	.0036	.0002
%RSD	13.37	.0237	1.168	8.330	651.9	30.67	11.01
#1	-.0007	.1997	4.380	-.0043	.0004	-.0106	.0020
#2	-.0006	.1996	4.461	-.0038	.0007	-.0156	.0021
#3	-.0006	.1996	4.414	-.0044	-.0007	-.0087	.0017

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0218	319.8	-.0165	.6190	.7417	.2315	-.0258
SDev	.0011	1.8	.0012	.0031	.0321	.0039	.0013
%RSD	5.143	.5515	7.058	.5000	4.326	1.700	5.181
#1	.0226	319.2	-.0177	.6174	.7787	.2359	-.0243
#2	.0223	321.8	-.0165	.6226	.7231	.2284	-.0263
#3	.0205	318.4	-.0154	.6171	.7232	.2302	-.0268

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0149	-.0102	-.0182	.2896	-.0531	.0005	-.0284
SDev	.0016	.0034	.0010	.0046	.0121	.0001	.0028
%RSD	10.94	33.28	5.480	1.599	22.81	13.62	9.813
#1	-.0131	-.0139	-.0173	.2860	-.0394	.0005	-.0314
#2	-.0163	-.0097	-.0193	.2948	-.0625	.0006	-.0258
#3	-.0153	-.0071	-.0182	.2879	-.0573	.0004	-.0281

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0013	.1176	.1636	-.0024	.1015	-.0012
SDev	.0053	.0003	.0067	.0316	.0002	.0009	.0002

%RSD	4718.	20.47	5.725	19.32	6.668	.8740	15.41
#1	.0003	-.0013	.1215	.1297	-.0024	.1004	-.0010
#2	.0050	-.0010	.1098	.1686	-.0023	.1020	-.0014
#3	-.0056	-.0016	.1214	.1923	-.0026	.1019	-.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0108	.0062
SDev	.0001	.0004
%RSD	1.201	6.350
#1	.0109	.0063
#2	.0109	.0057
#3	.0107	.0065

Analysis Report

Tue 09-12-95 10:35:07 AM page :

Method: ICP1 Sample Name: Na @500 PPM Operator: DRS
Run Time: 09/12/95 10:33:48
Comment: 950622I124 @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.0461	.0061	.0868	.0001	-.0000	.0003
SDev	.0011	.0041	.0066	.0014	.0002	.0000	.0040
%RSD	126.9	8.810	107.7	1.648	194.6	58.93	1470.
#1	-.0016	.0445	-.0014	.0881	-.0001	-.0000	-.0043
#2	-.0015	.0430	.0108	.0853	.0001	-.0000	.0027
#3	.0004	.0507	.0088	.0871	.0004	-.0000	.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3083	-.0008	.0262	.0004	.0008	-.0046	-.0006
SDev	.0005	.0005	.0077	.0009	.0016	.0011	.0008
%RSD	.1685	69.01	29.52	259.5	198.0	24.05	130.5
#1	.3087	-.0004	.0179	-.0003	-.0009	-.0058	-.0011
#2	.3077	-.0014	.0275	-.0000	.0022	-.0040	-.0012
#3	.3086	-.0006	.0332	.0015	.0012	-.0039	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0029	-.2931	-.0004	.0016	.0042	-.0003
SDev	.0004	.0010	.2032	.0017	.0014	.0085	.0003
%RSD	3136.	34.76	69.31	400.5	82.92	205.3	81.90
#1	-.0003	.0017	-.4904	-.0011	.0010	-.0050	-.0007
#2	-.0002	.0036	-.3044	-.0017	.0007	.0057	-.0002
#3	.0004	.0032	-.0846	.0015	.0032	.0118	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	499.0	-.0069	-.0006	.0101	-.0065	-.0021
SDev	.0001	5.8	.0046	.0007	.0070	.0006	.0189
%RSD	19.37	1.169	66.16	112.2	69.60	9.380	908.9
#1	.0007	503.3	-.0119	-.0014	.0178	-.0058	-.0164
#2	.0007	501.2	-.0060	-.0002	.0085	-.0067	-.0091
#3	.0010	492.3	-.0028	-.0002	.0040	-.0070	.0193

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	.0194	-.0036	1.154	-.0161	.0042	-.0003
SDev	.0059	.0116	.0103	.004	.0362	.0001	.0076
%RSD	160.6	59.52	289.7	.3493	225.1	2.663	2260.
#1	-.0085	.0117	-.0153	1.155	-.0565	.0042	-.0002
#2	-.0054	.0327	.0004	1.158	-.0049	.0041	-.0080
#3	.0029	.0138	.0042	1.150	.0132	.0043	.0072

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	-.0001	.0085	-.0612	-.0010	-.0039	-.0004
SDev	.0013	.0004	.0077	.1167	.0008	.0018	.0005

%RSD	69.54	517.1	90.12	190.8	78.99	46.66	113.3
#1	-.0014	-.0003	-.0002	-.1773	-.0013	-.0021	-.0006
#2	-.0034	-.0003	.0113	-.0622	-.0015	-.0038	-.0007
#3	-.0009	.0004	.0145	.0561	-.0001	-.0057	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0063	.0025
SDev	.0010	.0009
%RSD	15.51	33.93
#1	.0067	.0018
#2	.0070	.0023
#3	.0052	.0035

Analysis Report Tue 09-12-95 10:41:13 AM page

Method: ICP1 Sample Name: 95-007932-A5 @50 Operator: DRS
Run Time: 09/12/95 10:39:53
Comment: SPIKE CONTROL @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.1782	.0015	.0415	-.0000	-.0000	.0002
SDev	.0004	.0053	.0024	.0005	.0001	.0000	.0014
%RSD	20.13	2.976	155.6	1.169	145.8	87.92	612.8
#1	-.0019	.1747	-.0012	.0409	-.0000	-.0001	-.0013
#2	-.0014	.1843	.0027	.0418	-.0000	-.0000	.0013
#3	-.0021	.1755	.0031	.0417	-.0001	-.0000	.0007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0555	.0039	.0089	.0003	.0280	-.0055	-.0012
SDev	.0001	.0005	.0052	.0006	.0020	.0008	.0004
%RSD	.2028	12.24	58.46	185.1	7.148	15.18	32.06
#1	.0556	.0037	.0127	.0008	.0297	-.0058	-.0010
#2	.0554	.0036	.0110	.0006	.0284	-.0045	-.0010
#3	.0556	.0045	.0030	-.0004	.0258	-.0060	-.0017

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0042	-.0113	-.0015	.0006	.0030	.0014
SDev	.0002	.0008	.0683	.0012	.0013	.0068	.0001
%RSD	100.6	18.34	606.2	80.18	213.3	227.0	6.881
#1	-.0003	.0038	.0000	-.0028	.0007	.0017	.0013
#2	.0000	.0036	.0507	-.0009	.0018	.0104	.0014
#3	-.0003	.0050	-.0846	-.0007	-.0007	-.0031	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.3514	-.0091	.0973	.0067	.0840	-.0122
SDev	.0002	.0089	.0009	.0011	.0187	.0060	.0037
%RSD	118.2	2.527	9.387	1.180	276.9	7.147	30.40
#1	-.0002	.3415	-.0094	.0985	-.0148	.0908	-.0097
#2	.0000	.3542	-.0081	.0969	.0186	.0818	-.0104
#3	-.0004	.3586	-.0098	.0963	.0164	.0794	-.0164

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0068	.0114	-.0063	.2264	-.0525	.0002	-.0064
SDev	.0033	.0095	.0097	.0027	.0111	.0001	.0034
%RSD	48.65	83.30	153.7	1.202	21.12	77.45	53.56
#1	-.0090	.0184	.0002	.2242	-.0521	.0001	-.0102
#2	-.0030	.0151	-.0016	.2295	-.0638	.0003	-.0055
#3	-.0084	.0006	-.0176	.2256	-.0417	.0001	-.0035

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0004	.0058	.2803	-.0012	-.0027	-.0005
SDev	.0028	.0002	.0050	.0532	.0002	.0121	.0002

%RSD	463.0	42.91	86.46	18.99	14.04	452.1	34.56
#1	-.0033	-.0003	.0001	.3210	-.0011	.0094	-.0003
#2	-.0006	-.0003	.0097	.3000	-.0012	-.0149	-.0006
#3	.0022	-.0006	.0076	.2201	-.0014	-.0026	-.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0006	.0073
SDev	.0006	.0003
%RSD	95.38	3.542
#1	-.0008	.0076
#2	.0000	.0072
#3	-.0011	.0071

Analysis Report Tue 09-12-95 10:44:52 AM page

Method: ICP1 Sample Name: 95-007932-A5 @10 Operator: DRS
Run Time: 09/12/95 10:43:33
Comment: SPIKE CONTROL @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.9133	.0039	.2045	.0000	-.0000	.0073
SDev	.0014	.0081	.0040	.0015	.0003	.0000	.0031
%RSD	79.32	.8832	103.9	.7150	688.7	62.78	42.05
#1	-.0022	.9138	.0080	.2059	-.0000	-.0000	.0044
#2	-.0028	.9211	.0036	.2030	-.0002	-.0000	.0105
#3	-.0002	.9050	-.0000	.2044	.0003	-.0000	.0070

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4436	.0211	-.0019	.0002	.1393	-.0051	-.0022
SDev	.0016	.0020	.0057	.0013	.0006	.0009	.0016
%RSD	.3708	9.452	297.5	723.8	.4459	16.89	71.07
#1	.4439	.0204	-.0027	-.0006	.1391	-.0059	-.0029
#2	.4451	.0233	-.0072	-.0004	.1388	-.0051	-.0033
#3	.4418	.0195	.0041	.0016	.1400	-.0042	-.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0061	1.488	-.0019	-.0009	.0074	.0091
SDev	.0002	.0009	.216	.0023	.0016	.0066	.0002
%RSD	85.30	15.21	14.51	117.8	182.6	90.19	2.058
#1	-.0004	.0052	1.437	-.0034	-.0026	.0100	.0088
#2	-.0004	.0060	1.302	-.0031	-.0008	-.0002	.0091
#3	-.0000	.0071	1.725	.0007	.0007	.0123	.0092

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	1.814	-.0149	.4942	.0095	.4734	-.0303
SDev	.0006	.067	.0069	.0072	.0127	.0096	.0251
%RSD	138.4	3.707	46.33	1.456	133.0	2.034	82.91
#1	.0009	1.855	-.0158	.4949	-.0035	.4650	-.0421
#2	-.0002	1.851	-.0212	.5010	.0104	.4712	-.0474
#3	.0005	1.736	-.0075	.4867	.0218	.4839	-.0015

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0139	.0043	-.0113	1.238	-.0544	.0002	-.0012
SDev	.0079	.0056	.0051	.005	.0349	.0001	.0031
%RSD	57.14	128.8	45.45	.4085	64.07	73.45	252.8
#1	-.0178	.0014	-.0153	1.240	-.0758	.0001	.0008
#2	-.0191	.0008	-.0055	1.242	-.0734	.0001	.0004
#3	-.0048	.0108	-.0132	1.233	-.0142	.0003	-.0049

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	-.0002	.0075	1.686	-.0014	-.0044	-.0007
SDev	.0047	.0004	.0073	.084	.0009	.0013	.0005

%RSD	23.52	163.7	96.65	5.010	62.24	28.92	68.40
#1	.0231	-.0003	.0071	1.626	-.0018	-.0058	-.0010
#2	.0146	-.0006	.0004	1.649	-.0021	-.0042	-.0010
#3	.0224	.0002	.0150	1.782	-.0004	-.0032	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0003	.0434
SDev	.0005	.0008
%RSD	154.7	1.846
#1	-.0008	.0425
#2	.0001	.0438
#3	-.0002	.0439

Analysis Report Tue 09-12-95 10:48:28 AM page

Method: ICP1 Sample Name: 95-007932-A5 Operator: DRS
Run Time: 09/12/95 10:47:09
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0101	8.746	.0029	1.927	.0005	-.0001	-.0180
SDev	.0005	.030	.0100	.013	.0001	.0000	.0057
%RSD	5.221	.3463	344.6	.6586	24.03	11.16	31.63
#1	-.0107	8.772	-.0076	1.940	.0004	-.0001	-.0140
#2	-.0099	8.713	.0040	1.915	.0005	-.0001	-.0155
#3	-.0097	8.752	.0123	1.926	.0006	-.0001	-.0246

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.236	.2066	-.0630	-.0066	1.314	-.0081	-.0139
SDev	.006	.0039	.0079	.0007	.006	.0009	.0009
%RSD	.1487	1.885	12.51	11.14	.4638	11.34	6.494
#1	4.237	.2110	-.0691	-.0060	1.320	-.0081	-.0148
#2	4.229	.2038	-.0541	-.0074	1.308	-.0072	-.0138
#3	4.241	.2048	-.0658	-.0064	1.313	-.0091	-.0130

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0033	.0195	16.98	-.0151	-.0051	.0654	.0877
SDev	.0002	.0008	.33	.0014	.0004	.0110	.0002
%RSD	7.080	4.142	1.965	9.349	6.977	16.80	.2372
#1	-.0036	.0194	16.83	-.0167	-.0051	.0686	.0879
#2	-.0034	.0204	16.76	-.0148	-.0048	.0745	.0877
#3	-.0031	.0188	17.37	-.0139	-.0055	.0532	.0875

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	17.84	-.0715	4.539	-.0312	4.373	-.3072
SDev	.0008	.25	.0056	.019	.0046	.025	.0208
%RSD	12.79	1.397	7.761	.4136	14.84	.5791	6.776
#1	-.0060	17.83	-.0774	4.557	-.0302	4.363	-.3313
#2	-.0056	17.60	-.0708	4.520	-.0362	4.353	-.2961
#3	-.0071	18.10	-.0664	4.539	-.0271	4.401	-.2944

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.1052	-.0316	-.0302	11.83	-.2306	-.0002	-.0422
SDev	.0043	.0013	.0052	.03	.0195	.0001	.0023
%RSD	4.071	4.123	17.09	.2818	8.440	25.33	5.519
#1	-.1091	-.0328	-.0283	11.84	-.2531	-.0003	-.0423
#2	-.1059	-.0302	-.0361	11.79	-.2187	-.0003	-.0398
#3	-.1006	-.0318	-.0263	11.85	-.2201	-.0002	-.0445

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1962	-.0007	.0213	17.56	-.0086	-.0161	-.0034
SDev	.0055	.0001	.0022	.10	.0007	.0061	.0002

%RSD	2.803	16.40	10.11	.5817	8.708	37.83	5.647
#1	.1981	-.0008	.0237	17.60	-.0094	-.0095	-.0036
#2	.1900	-.0007	.0195	17.44	-.0081	-.0215	-.0032
#3	.2005	-.0006	.0207	17.63	-.0082	-.0172	-.0033

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0021	.4378
SDev	.0016	.0023
%RSD	74.60	.5214
#1	-.0038	.4397
#2	-.0018	.4353
#3	-.0007	.4385

Analysis Report QC Standard Tue 09-12-95 10:52:45 AM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 10:51:25
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PK 55 DB 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4911	25.18	2.630	2.004	.5111	.0951	24.82
SDev	.0009	.13	.009	.007	.0020	.0002	.13
%RSD	.1874	.5141	.3567	.3255	.3997	.2081	.5429
#1	.4903	25.10	2.640	1.998	.5105	.0950	24.76
#2	.4910	25.12	2.622	2.003	.5094	.0950	24.72
#3	.4921	25.33	2.627	2.011	.5133	.0953	24.97
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.22	.5009	-.0354	1.034	1.034	.9968	-.0001
SDev	.01	.0024	.0033	.002	.000	.0039	.0002
%RSD	.0499	.4861	9.181	.2098	.0473	.3951	143.9
#1	25.20	.4981	-.0378	1.035	1.035	.9958	.0000
#2	25.22	.5027	-.0317	1.035	1.035	.9935	-.0001
#3	25.23	.5018	-.0368	1.031	1.034	1.001	-.0004
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	20.57	26.72	.0044	1.982	26.69	.5154
SDev	.0001	.03	.62	.0011	.034	.06	.0009
%RSD	6.950	.1314	2.311	26.14	1.724	.2141	.1769
#1	.0020	20.56	26.23	.0042	1.961	26.63	.5144
#2	.0021	20.55	26.52	.0056	1.964	26.70	.5155
#3	.0018	20.61	27.41	.0034	2.021	26.74	.5162
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.036	25.67	.0074	1.066	.0590	2.613	-.0106
SDev	.003	.51	.0040	.008	.0114	.010	.0095
%RSD	.2853	1.979	53.80	.7207	19.38	.3726	89.43
#1	1.033	25.30	.0040	1.057	.0604	2.613	-.0099
#2	1.037	25.46	.0118	1.071	.0470	2.623	-.0015
#3	1.039	26.25	.0064	1.071	.0697	2.603	-.0204
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	2.567	2.524	19.41	-.0929	.5175	.0006
SDev	.0022	.005	.020	.08	.0067	.0018	.0059
%RSD	82.18	.1885	.7793	.3998	7.249	.3458	995.7
#1	-.0016	2.567	2.534	19.35	-.0928	.5168	-.0017
#2	-.0013	2.571	2.501	19.39	-.0862	.5161	.0073
#3	-.0053	2.562	2.537	19.50	-.0997	.5195	-.0038
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0386	1.004	2.564	.0273	.9975	.0284	-.0002
SDev	.0036	.002	.017	.0760	.0019	.0040	.0006
%RSD	9.357	.2135	.6500	278.1	.1850	14.13	318.1
#1	.0358	1.003	2.563	.0583	.9961	.0329	.0000
#2	.0372	1.002	2.548	.0829	.9967	.0253	.0003
#3	.0427	1.006	2.582	-.0592	.9996	.0270	-.0008
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.025	2.055
SDev	.003	.003
%RSD	.2934	.1477
#1	1.023	2.054
#2	1.028	2.053
#3	1.023	2.059
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 10:58:33 AM page

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 10:57:13
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0082	97.86	.1193	-.0011	.0003	.0007	.0578
SDev	.0014	1.10	.0137	.0003	.0003	.0000	.0041
%RSD	17.38	1.127	11.46	27.74	74.47	4.815	7.060
#1	-.0066	96.64	.1282	-.0014	.0006	.0007	.0564
#2	-.0088	98.16	.1262	-.0012	.0003	.0007	.0546
#3	-.0092	98.78	.1036	-.0008	.0001	.0007	.0624

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0766	.0069	-.1322	.0048	.0352	-.0182	-.0038
SDev	.0019	.0005	.0118	.0014	.0018	.0007	.0012
%RSD	2.410	7.163	8.929	28.16	5.030	3.892	31.82
#1	.0782	.0069	-.1196	.0058	.0369	-.0174	-.0024
#2	.0770	.0064	-.1342	.0054	.0334	-.0185	-.0043
#3	.0746	.0074	-.1430	.0033	.0354	-.0187	-.0047

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	19.95	-.0789	.0039	.0045	.2815	.0011
SDev	.0006	.11	.3050	.0026	.0016	.0064	.0005
%RSD	117.9	.5560	386.5	66.18	36.57	2.278	41.96
#1	.0011	19.82	.2368	.0058	.0064	.2851	.0015
#2	.0004	20.01	-.1015	.0049	.0036	.2854	.0013
#3	-.0000	20.02	-.3720	.0010	.0036	.2741	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	.0120	-.0264	51.94	.0319	.1879	-.3685
SDev	.0010	.0163	.0094	.22	.0068	.0098	.0274
%RSD	12.10	135.1	35.41	.4256	21.33	5.205	7.438
#1	.0095	.0200	-.0160	51.68	.0372	.1986	-.3385
#2	.0084	-.0067	-.0292	52.08	.0242	.1860	-.3747
#3	.0075	.0228	-.0341	52.05	.0344	.1793	-.3923

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0317	.0018	.0224	.0257	.0397	.0001	-.0021
SDev	.0157	.0053	.0112	.0123	.0471	.0001	.0062
%RSD	49.67	295.8	50.08	47.73	118.7	82.43	302.8
#1	-.0148	.0079	.0245	.0373	.0873	.0002	.0023
#2	-.0343	-.0016	.0325	.0270	.0386	.0001	.0007
#3	-.0459	-.0009	.0103	.0129	-.0069	.0000	-.0092

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6770	.0010	.2270	50.10	.0012	.0428	.0032
SDev	.0099	.0007	.0089	.46	.0016	.0072	.0005

%RSD	1.458	71.12	3.926	.9245	128.8	16.89	16.39
#1	.6724	.0017	.2372	49.57	.0029	.0507	.0038
#2	.6884	.0010	.2217	50.31	.0009	.0411	.0031
#3	.6704	.0003	.2219	50.42	-.0002	.0366	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0305	9.974
SDev	.0010	.070
%RSD	3.372	.7036
#1	-.0313	9.893
#2	-.0294	10.01
#3	-.0309	10.02

Analysis Report Tue 09-12-95 11:02:25 AM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 11:01:05
Comment: SPIKE CONTROL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0064	.0052	.0019	.0000	-.0000	.0000
SDev	.0006	.0039	.0052	.0005	.0002	.0000	.0061
%RSD	37.40	61.38	98.55	24.33	18960.	83.53	346500.
#1	-.0019	.0049	.0048	.0017	.0000	-.0000	-.0020
#2	-.0009	.0108	.0106	.0025	.0002	-.0000	.0069
#3	-.0021	.0034	.0003	.0016	-.0002	-.0000	-.0048

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0012	-.0079	.0001	-.0003	-.0039	-.0004
SDev	.0009	.0014	.0042	.0007	.0005	.0009	.0006
%RSD	123.9	118.0	53.72	815.3	159.3	23.19	150.5
#1	.0004	-.0027	-.0077	-.0002	.0003	-.0040	-.0005
#2	.0018	.0002	-.0037	.0009	-.0005	-.0030	.0003
#3	.0000	-.0012	-.0121	-.0005	-.0006	-.0048	-.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0015	-.3269	-.0009	.0006	.0008	-.0005
SDev	.0002	.0003	.1200	.0005	.0006	.0029	.0001
%RSD	209.7	20.45	36.70	60.73	91.38	374.9	15.44
#1	-.0002	.0013	-.3044	-.0011	.0000	-.0018	-.0004
#2	.0001	.0014	-.2198	-.0003	.0011	.0039	-.0006
#3	-.0002	.0019	-.4566	-.0013	.0007	.0002	-.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	-.0056	-.0060	.0148	.0002	-.0048	-.0007
SDev	.0008	.0087	.0017	.0026	.0044	.0053	.0070
%RSD	72.38	156.7	27.93	17.80	2654.	110.7	1048.
#1	.0017	-.0084	-.0045	.0176	-.0048	-.0019	-.0014
#2	.0002	.0042	-.0056	.0124	.0037	-.0016	.0067
#3	.0012	-.0125	-.0078	.0144	.0017	-.0110	-.0073

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	.0119	.0001	-.0235	-.0310	.0003	.0032
SDev	.0071	.0019	.0078	.0023	.0257	.0001	.0050
%RSD	237.2	15.64	9120.	9.755	82.85	22.59	158.9
#1	-.0079	.0126	.0076	-.0249	-.0295	.0002	.0085
#2	.0051	.0098	-.0080	-.0248	-.0061	.0003	.0024
#3	-.0061	.0133	.0006	-.0209	-.0575	.0002	-.0015

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0004	.0007	-.0332	-.0009	-.0018	-.0004
SDev	.0012	.0002	.0092	.0666	.0005	.0063	.0003

%RSD	265.9	48.77	1249.	200.9	56.97	341.9	77.21
#1	-.0004	-.0002	-.0056	-.0451	-.0010	.0038	-.0001
#2	-.0016	-.0004	-.0035	.0386	-.0004	-.0086	-.0004
#3	.0007	-.0005	.0113	-.0930	-.0014	-.0007	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	.0003
SDev	.0003	.0007
%RSD	146.8	273.0
#1	.0001	.0003
#2	-.0002	.0009
#3	-.0005	-.0005

Analysis Report Tue 09-12-95 11:05:00 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @50 Operator: DRS
Run Time: 09/12/95 11:03:41
Comment: SEG 2 DRAINABLE LIQUIDS @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	57.82	.0432	.0692	-.0002	.0004	.0015
SDev	.0003	.14	.0013	.0026	.0001	.0000	.0064
%RSD	12.34	.2465	3.035	3.817	45.13	6.523	422.3
#1	-.0023	57.99	.0431	.0713	-.0001	.0004	.0090
#2	-.0021	57.75	.0420	.0700	-.0002	.0004	-.0020
#3	-.0018	57.73	.0446	.0662	-.0001	.0004	-.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0280	-.0010	-.0107	.0127	.4563	.0010	-.0014
SDev	.0009	.0017	.0046	.0007	.0057	.0011	.0005
%RSD	3.302	161.6	43.32	5.346	1.248	104.3	36.87
#1	-.0279	.0003	-.0151	.0128	.4554	-.0002	-.0020
#2	-.0290	-.0005	-.0112	.0119	.4511	.0014	-.0012
#3	-.0272	-.0029	-.0058	.0133	.4624	.0018	-.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.1971	4.346	-.0020	.0013	-.0058	.0000
SDev	.0002	.0009	.077	.0011	.0009	.0052	.0001
%RSD	51.89	.4595	1.783	54.44	68.33	88.77	327.1
#1	-.0005	.1970	4.329	-.0032	.0022	-.0052	-.0001
#2	-.0003	.1962	4.431	-.0011	.0004	-.0113	.0000
#3	-.0001	.1980	4.278	-.0017	.0014	-.0010	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0217	322.6	-.0114	.5109	.7303	.1209	-.0071
SDev	.0010	1.9	.0021	.0081	.0154	.0002	.0004
%RSD	4.427	.5744	18.41	1.586	2.101	.1322	5.609
#1	.0211	323.3	-.0137	.5135	.7352	.1209	-.0075
#2	.0212	324.1	-.0098	.5018	.7131	.1210	-.0067
#3	.0228	320.6	-.0105	.5173	.7426	.1207	-.0070

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0052	-.0073	-.0040	.0625	-.0226	.0006	-.0255
SDev	.0045	.0050	.0045	.0037	.0024	.0000	.0072
%RSD	86.07	69.17	113.3	5.910	10.62	.3776	28.12
#1	-.0062	-.0131	-.0050	.0583	-.0218	.0006	-.0303
#2	-.0091	-.0044	-.0079	.0653	-.0253	.0006	-.0289
#3	-.0003	-.0043	.0010	.0639	-.0207	.0006	-.0173

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0107	-.0008	.1151	-.1631	-.0017	.0941	-.0008
SDev	.0014	.0002	.0036	.0250	.0004	.0050	.0003

%RSD	13.43	30.64	3.159	15.31	21.90	5.270	41.29
#1	-.0122	-.0010	.1139	-.1915	-.0018	.0977	-.0012
#2	-.0093	-.0008	.1122	-.1537	-.0021	.0962	-.0006
#3	-.0106	-.0005	.1192	-.1443	-.0014	.0885	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0101	-.0002
SDev	.0011	.0002
%RSD	10.61	93.22
#1	.0106	-.0003
#2	.0089	.0000
#3	.0109	-.0003

Analysis Report Tue 09-12-95 11:09:13 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @10 Operator: DRS
Run Time: 09/12/95 11:07:54
Comment: SEG 2 DRAINABLE LIQUIDS @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	283.6	.2428	.3431	.0010	.0024	.0415
SDev	.0005	1.9	.0391	.0015	.0001	.0000	.0076
%RSD	22.38	.6726	16.12	.4450	12.38	.9372	18.32
#1	.0020	284.9	.2023	.3446	.0010	.0024	.0339
#2	.0026	281.4	.2456	.3431	.0011	.0024	.0492
#3	.0017	284.6	.2804	.3415	.0008	.0024	.0415

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0007	.0072	.0703	2.238	.0282	.0010
SDev	.0020	.0012	.0030	.0011	.004	.0009	.0007
%RSD	56.42	161.1	41.65	1.569	.1777	3.273	71.72
#1	.0023	.0020	.0038	.0691	2.242	.0282	.0003
#2	.0057	.0007	.0096	.0713	2.234	.0291	.0017
#3	.0024	-.0004	.0081	.0706	2.239	.0272	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.9478	21.25	.0044	.0086	.0065	.0022
SDev	.0002	.0030	.32	.0007	.0016	.0064	.0003
%RSD	26.26	.3125	1.507	15.11	18.18	98.29	12.90
#1	.0006	.9477	21.61	.0045	.0104	.0026	.0020
#2	.0010	.9449	21.02	.0051	.0079	.0139	.0025
#3	.0009	.9508	21.10	.0037	.0075	.0030	.0022

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1126	1424.	.0057	2.477	3.738	.7248	.0387
SDev	.0015	16.	.0029	.007	.020	.0098	.0170
%RSD	1.317	1.122	51.52	.2637	.5430	1.354	43.95
#1	.1109	1438.	.0041	2.470	3.719	.7140	.0276
#2	.1135	1407.	.0091	2.478	3.736	.7332	.0584
#3	.1133	1426.	.0039	2.483	3.759	.7273	.0302

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0288	-.0411	-.0176	.4542	.1584	.0023	-.0453
SDev	.0085	.0028	.0140	.0004	.0324	.0001	.0085
%RSD	29.57	6.843	79.67	.0976	20.47	2.890	18.74
#1	.0200	-.0386	-.0333	.4537	.1428	.0023	-.0543
#2	.0370	-.0405	-.0130	.4544	.1957	.0023	-.0374
#3	.0292	-.0441	-.0064	.4546	.1367	.0022	-.0443

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0005	.6050	.1054	.0006	.5039	.0003
SDev	.0047	.0001	.0117	.0923	.0006	.0024	.0003

%RSD	1674.	30.76	1.934	87.53	105.1	.4872	89.19
#1	.0028	.0003	.5967	.0283	-.0000	.5066	.0002
#2	-.0057	.0005	.5998	.2077	.0012	.5031	.0007
#3	.0020	.0005	.6183	.0803	.0005	.5019	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0548	.0015
SDev	.0017	.0006
%RSD	3.070	40.73
#1	.0544	.0010
#2	.0567	.0022
#3	.0534	.0014

Analysis Report Tue 09-12-95 11:15:40 AM page 1

Method: ICP1 Sample Name: 95-007932-A1 @5 Operator: DRS
Run Time: 09/12/95 11:14:21
Comment: SEG 2 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	549.7	.4831	.6464	.0017	.0047	.0759
SDev	.0007	3.1	.0517	.0032	.0002	.0000	.0107
%RSD	11.25	.5628	10.70	.4951	10.40	.6737	14.14
#1	.0066	546.3	.4885	.6479	.0018	.0047	.0684
#2	.0056	552.4	.4290	.6486	.0015	.0047	.0882
#3	.0070	550.4	.5320	.6428	.0019	.0048	.0711

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0360	.0014	.0184	.1326	4.290	.0573	.0030
SDev	.0006	.0009	.0023	.0015	.014	.0007	.0007
%RSD	1.819	68.16	12.33	1.134	.3280	1.272	23.09
#1	.0367	.0024	.0209	.1315	4.274	.0573	.0037
#2	.0359	.0013	.0164	.1320	4.301	.0581	.0024
#3	.0354	.0005	.0180	.1343	4.295	.0566	.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	1.811	40.74	.0099	.0168	.0165	.0053
SDev	.0003	.010	.20	.0009	.0011	.0068	.0003
%RSD	15.17	.5534	.5021	9.618	6.381	41.10	5.716
#1	.0016	1.800	40.59	.0110	.0168	.0177	.0050
#2	.0014	1.817	40.97	.0094	.0158	.0092	.0053
#3	.0019	1.817	40.67	.0093	.0179	.0226	.0056

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2178	2570.	.0197	4.738	7.290	1.426	.0930
SDev	.0030	16.	.0033	.009	.020	.003	.0089
%RSD	1.362	.6408	16.87	.1935	.2752	.2195	9.616
#1	.2163	2553.	.0230	4.730	7.267	1.429	.0985
#2	.2159	2586.	.0164	4.748	7.305	1.423	.0827
#3	.2212	2571.	.0197	4.735	7.297	1.428	.0979

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0594	-.0737	-.0117	.9184	.3090	.0041	-.0721
SDev	.0015	.0180	.0171	.0086	.0137	.0001	.0048
%RSD	2.480	24.40	145.9	.9353	4.436	1.530	6.627
#1	.0608	-.0560	-.0267	.9105	.3229	.0041	-.0725
#2	.0578	-.0920	-.0152	.9172	.3087	.0040	-.0672
#3	.0595	-.0731	.0069	.9275	.2955	.0042	-.0767

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0014	1.151	.2685	.0022	.9859	.0011
SDev	.0047	.0003	.010	.0673	.0001	.0109	.0004

%RSD	2161.	24.95	.8282	25.04	6.432	1.102	37.44
#1	.0034	.0017	1.162	.3417	.0023	.9742	.0015
#2	-.0051	.0010	1.145	.2094	.0020	.9956	.0007
#3	.0023	.0015	1.147	.2545	.0023	.9879	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1051	.0035
SDev	.0002	.0001
%RSD	.2106	3.152
#1	.1052	.0035
#2	.1051	.0033
#3	.1048	.0035

Analysis Report Tue 09-12-95 11:20:12 AM page

Method: ICP1 Sample Name: 95-007932-A2 @50 Operator: DRS
Run Time: 09/12/95 11:18:53
Comment: SEG 2 DRAINABLE LIQUIDS DUP @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	55.47	.0579	.0650	.0003	.0004	.0090
SDev	.0003	.20	.0080	.0018	.0001	.0000	.0063
%RSD	157.1	.3580	13.73	2.830	21.60	6.108	70.45
#1	-.0002	55.68	.0550	.0635	.0002	.0004	.0019
#2	.0004	55.29	.0669	.0644	.0004	.0005	.0141
#3	.0004	55.43	.0518	.0671	.0004	.0004	.0109

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0231	-.0001	.0008	.0151	.4438	.0025	.0009
SDev	.0008	.0006	.0033	.0007	.0004	.0008	.0003
%RSD	3.445	615.9	413.4	4.692	.0879	30.03	28.97
#1	-.0231	-.0000	.0002	.0148	.4442	.0022	.0006
#2	-.0239	-.0007	.0043	.0146	.4439	.0020	.0011
#3	-.0223	.0005	-.0021	.0159	.4434	.0034	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.1922	4.340	.0019	.0025	.0029	.0001
SDev	.0001	.0014	.035	.0012	.0006	.0034	.0001
%RSD	22.34	.7368	.8110	64.46	24.69	116.0	70.96
#1	.0003	.1938	4.329	.0020	.0022	.0038	.0000
#2	.0004	.1911	4.380	.0031	.0032	.0058	.0002
#3	.0004	.1917	4.312	.0007	.0022	-.0008	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0229	300.9	.0013	.5025	.7253	.1382	.0310
SDev	.0017	2.1	.0022	.0018	.0142	.0040	.0163
%RSD	7.615	.7042	165.5	.3545	1.954	2.856	52.54
#1	.0209	303.1	-.0012	.5014	.7192	.1399	.0122
#2	.0242	298.9	.0021	.5017	.7153	.1337	.0408
#3	.0236	300.6	.0031	.5046	.7415	.1411	.0400

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0090	.0008	-.0050	.0701	.0134	.0008	-.0090
SDev	.0026	.0042	.0096	.0027	.0176	.0001	.0032
%RSD	29.34	524.0	189.8	3.905	131.8	8.448	35.04
#1	.0072	.0057	-.0045	.0695	-.0041	.0007	-.0079
#2	.0120	-.0015	.0043	.0731	.0312	.0008	-.0066
#3	.0077	-.0017	-.0149	.0677	.0130	.0008	-.0126

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0057	-.0000	.1236	.0610	-.0001	.1021	-.0001
SDev	.0050	.0005	.0076	.0266	.0003	.0069	.0000

%RSD	88.76	9473.	6.119	43.66	655.9	6.720	12.71
#1	-.0005	-.0005	.1149	.0335	-.0002	.1017	-.0001
#2	-.0060	.0001	.1283	.0866	.0003	.0955	-.0002
#3	-.0106	.0005	.1277	.0629	-.0002	.1092	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0104	.0003
SDev	.0006	.0006
%RSD	6.009	205.5
#1	.0111	-.0004
#2	.0099	.0007
#3	.0102	.0007

Analysis Report Tue 09-12-95 11:23:31 AM page

Method: ICP1 Sample Name: 95-007932-A2 @10 Operator: DRS
Run Time: 09/12/95 11:22:12
Comment: SEG 2 DRAINABLE LIQUIDS DUP @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	279.4	.2598	.3233	.0012	.0024	.0439
SDev	.0004	.9	.0125	.0035	.0000	.0000	.0028
%RSD	11.62	.3337	4.827	1.096	.1262	.2924	6.453
#1	.0032	280.5	.2468	.3274	.0012	.0024	.0467
#2	.0037	278.6	.2608	.3214	.0012	.0024	.0440
#3	.0040	279.2	.2718	.3211	.0012	.0024	.0411

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	-.0007	.0142	.0711	2.218	.0281	.0024
SDev	.0005	.0003	.0030	.0005	.009	.0019	.0003
%RSD	12.06	45.44	21.28	.6767	.3995	6.621	10.67
#1	.0034	-.0010	.0114	.0706	2.227	.0261	.0023
#2	.0040	-.0008	.0174	.0716	2.209	.0298	.0027
#3	.0043	-.0004	.0137	.0711	2.218	.0285	.0023

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.9398	20.91	.0069	.0098	.0112	.0024
SDev	.0001	.0015	.13	.0017	.0004	.0060	.0001
%RSD	8.014	.1637	.6176	24.29	4.233	53.82	5.889
#1	.0012	.9407	21.05	.0051	.0100	.0107	.0023
#2	.0014	.9380	20.80	.0084	.0100	.0054	.0026
#3	.0012	.9406	20.88	.0071	.0093	.0174	.0024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1132	1398.	.0120	2.451	3.695	.7296	.0630
SDev	.0015	7.	.0061	.008	.055	.0096	.0127
%RSD	1.327	.5058	51.13	.3340	1.478	1.310	20.16
#1	.1115	1406.	.0063	2.458	3.755	.7189	.0490
#2	.1143	1393.	.0112	2.442	3.681	.7325	.0664
#3	.1137	1396.	.0185	2.452	3.649	.7373	.0737

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0402	-.0224	-.0122	.4451	.1532	.0023	-.0339
SDev	.0047	.0145	.0086	.0005	.0080	.0001	.0034
%RSD	11.58	64.76	70.63	.1206	5.200	2.810	9.961
#1	.0349	-.0351	-.0169	.4446	.1443	.0023	-.0376
#2	.0420	-.0253	-.0023	.4457	.1556	.0024	-.0333
#3	.0437	-.0066	-.0176	.4452	.1596	.0023	-.0309

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0035	.0010	.6022	.2309	.0019	.5000	.0009
SDev	.0034	.0003	.0197	.0497	.0007	.0108	.0001

%RSD	97.40	25.97	3.266	21.52	38.34	2.152	16.65
#1	.0004	.0007	.5941	.1738	.0014	.4880	.0007
#2	-.0050	.0012	.6246	.2553	.0027	.5029	.0010
#3	-.0058	.0012	.5878	.2638	.0015	.5089	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0543	.0021
SDev	.0010	.0004
%RSD	1.823	20.05
#1	.0553	.0016
#2	.0544	.0023
#3	.0533	.0023

Analysis Report Tue 09-12-95 11:27:38 AM page

Method: ICP1 Sample Name: 95-007932-A 2 dils @5 Operator: DRS
Run Time: 09/12/95 11:26:19
Comment: SEG 2 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	542.4	.5074	.6228	.0020	.0047	.0776
SDev	.0006	2.3	.0244	.0032	.0001	.0000	.0043
%RSD	8.560	.4216	4.811	.5051	5.827	.7608	5.510
#1	.0061	545.0	.4798	.6241	.0020	.0047	.0729
#2	.0066	541.5	.5263	.6251	.0019	.0047	.0812
#3	.0072	540.7	.5159	.6192	.0021	.0047	.0788

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0430	.0021	.0246	.1329	4.243	.0580	.0035
SDev	.0014	.0006	.0060	.0006	.011	.0010	.0001
%RSD	3.237	28.45	24.37	.4308	.2693	1.816	3.880
#1	.0427	.0026	.0181	.1329	4.256	.0574	.0034
#2	.0418	.0014	.0258	.1323	4.238	.0574	.0037
#3	.0445	.0024	.0300	.1334	4.235	.0592	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	1.797	39.51	.0109	.0174	.0212	.0053
SDev	.0002	.004	.06	.0017	.0002	.0016	.0003
%RSD	8.775	.2295	.1503	15.22	1.182	7.369	6.250
#1	.0018	1.802	39.57	.0105	.0172	.0223	.0049
#2	.0018	1.794	39.45	.0095	.0176	.0194	.0056
#3	.0021	1.796	39.52	.0127	.0176	.0218	.0054

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2179	2529.	.0223	4.686	7.221	1.436	.1004
SDev	.0003	10.	.0021	.018	.028	.009	.0008
%RSD	.1417	.3905	9.525	.3931	.3929	.6432	.8342
#1	.2177	2541.	.0218	4.703	7.190	1.427	.0995
#2	.2177	2525.	.0205	4.667	7.246	1.437	.1006
#3	.2182	2522.	.0247	4.688	7.226	1.445	.1011

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0649	-.0537	-.0143	.8924	.3185	.0041	-.0629
SDev	.0022	.0045	.0013	.0072	.0291	.0000	.0032
%RSD	3.397	8.351	8.988	.8047	9.134	.1341	5.078
#1	.0653	-.0569	-.0157	.8841	.2856	.0041	-.0659
#2	.0669	-.0557	-.0139	.8966	.3290	.0041	-.0596
#3	.0626	-.0486	-.0133	.8964	.3409	.0041	-.0631

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	.0018	1.140	.3436	.0028	.9661	.0013
SDev	.0047	.0002	.011	.0634	.0005	.0061	.0003

%RSD	282.8	12.38	.9997	18.46	16.99	.6313	25.35
#1	-.0043	.0017	1.138	.3023	.0027	.9697	.0009
#2	-.0044	.0016	1.130	.3118	.0024	.9590	.0015
#3	.0037	.0020	1.152	.4166	.0033	.9695	.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1069	.0036
SDev	.0019	.0005
%RSD	1.778	13.20
#1	.1080	.0034
#2	.1047	.0042
#3	.1080	.0033

Analysis Report Tue 09-12-95 11:32:09 AM page

Method: ICP1 Sample Name: 95-007935-A1 @50 Operator: DRS
Run Time: 09/12/95 11:30:50
Comment: SEG 3 DRAINABLE LIQUIDS @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	60.48	.0629	.0744	.0005	.0005	.0118
SDev	.0008	.34	.0104	.0005	.0002	.0001	.0028
%RSD	66.42	.5629	16.53	.6161	49.69	12.67	23.53
#1	-.0019	60.63	.0612	.0749	.0005	.0004	.0125
#2	-.0003	60.09	.0741	.0742	.0007	.0005	.0141
#3	-.0016	60.72	.0535	.0740	.0002	.0005	.0087

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0185	-.0013	.0053	.0148	.4857	.0125	.0011
SDev	.0009	.0005	.0039	.0005	.0042	.0022	.0005
%RSD	5.096	41.24	74.09	3.380	.8572	17.81	42.10
#1	-.0185	-.0013	.0028	.0149	.4843	.0102	.0008
#2	-.0176	-.0008	.0099	.0142	.4825	.0146	.0017
#3	-.0195	-.0019	.0033	.0152	.4904	.0126	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.1619	4.459	.0027	.0029	.0092	.0003
SDev	.0002	.0007	.179	.0016	.0009	.0062	.0005
%RSD	48.15	.4552	4.020	57.92	33.05	67.30	137.7
#1	.0002	.1611	4.431	.0016	.0036	.0077	.0003
#2	.0007	.1620	4.650	.0045	.0032	.0161	.0008
#3	.0005	.1626	4.295	.0021	.0018	.0039	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0254	296.5	.0053	.3959	.7246	.1585	.0297
SDev	.0013	2.2	.0050	.0033	.0223	.0074	.0189
%RSD	5.002	.7552	94.58	.8280	3.080	4.642	63.72
#1	.0247	298.1	.0027	.3997	.7203	.1537	.0264
#2	.0269	293.9	.0110	.3941	.7048	.1670	.0500
#3	.0247	297.5	.0021	.3939	.7488	.1548	.0126

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	.0109	.0065	.1533	.0482	.0031	-.0088
SDev	.0071	.0078	.0096	.0024	.0139	.0001	.0045
%RSD	42.39	71.70	147.0	1.537	28.73	2.206	51.44
#1	.0118	.0092	-.0032	.1511	.0324	.0030	-.0087
#2	.0249	.0194	.0161	.1530	.0584	.0031	-.0043
#3	.0137	.0040	.0067	.1557	.0539	.0031	-.0134

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0003	.1294	.0758	.0001	1.248	.0002
SDev	.0039	.0004	.0075	.1013	.0006	.015	.0006

%RSD	12600.	140.5	5.769	133.7	509.6	1.234	375.7
#1	-.0042	-.0000	.1211	.0781	-.0000	1.259	-.0004
#2	.0006	.0007	.1356	.1760	.0007	1.230	.0007
#3	.0036	.0002	.1315	-.0266	-.0004	1.253	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0186	.0001
SDev	.0006	.0007
%RSD	3.427	701.8
#1	.0186	.0003
#2	.0180	.0007
#3	.0193	-.0007

Analysis Report Tue 09-12-95 11:36:15 AM page

Method: ICP1 Sample Name: 95-007935-A1 @10 Operator: DRS
Run Time: 09/12/95 11:34:55
Comment: SEG 3 DRAINABLE LIQUIDS @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0051	299.5	.2712	.3552	.0014	.0026	.0430
SDev	.0001	1.8	.0174	.0038	.0002	.0000	.0097
%RSD	1.737	.6124	6.414	1.064	16.76	.3417	22.65
#1	-.0051	298.5	.2913	.3509	.0017	.0026	.0390
#2	-.0052	301.6	.2618	.3563	.0012	.0026	.0358
#3	-.0051	298.4	.2606	.3582	.0014	.0026	.0541

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0255	-.0021	.0215	.0705	2.351	.0772	.0036
SDev	.0016	.0009	.0038	.0005	.008	.0006	.0006
%RSD	6.284	44.29	17.68	.6470	.3591	.7652	15.22
#1	.0260	-.0030	.0255	.0710	2.348	.0768	.0040
#2	.0237	-.0022	.0180	.0701	2.361	.0769	.0030
#3	.0267	-.0011	.0209	.0705	2.345	.0778	.0039

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.7766	22.24	.0088	.0079	.0333	.0029
SDev	.0003	.0037	.09	.0016	.0009	.0073	.0002
%RSD	18.01	.4708	.4024	18.54	12.03	22.05	6.485
#1	.0016	.7739	22.14	.0091	.0075	.0328	.0031
#2	.0012	.7808	22.31	.0070	.0072	.0262	.0028
#3	.0016	.7751	22.27	.0103	.0090	.0409	.0028

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1215	1387.	.0189	1.907	3.614	.7963	.0856
SDev	.0019	10.	.0046	.007	.038	.0064	.0130
%RSD	1.584	.7099	24.29	.3597	1.052	.8056	15.20
#1	.1220	1380.	.0218	1.903	3.631	.8034	.0898
#2	.1231	1398.	.0136	1.914	3.641	.7947	.0710
#3	.1193	1382.	.0211	1.902	3.571	.7909	.0960

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0478	-.0267	-.0098	.8600	.1576	.0138	-.0332
SDev	.0061	.0215	.0177	.0063	.0393	.0001	.0069
%RSD	12.83	80.51	180.4	.7367	24.92	.5217	20.68
#1	.0508	-.0057	-.0022	.8597	.1664	.0137	-.0333
#2	.0407	-.0487	.0028	.8665	.1147	.0138	-.0399
#3	.0518	-.0257	-.0300	.8539	.1918	.0137	-.0262

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0015	.6189	.3488	.0020	6.208	.0011
SDev	.0020	.0005	.0081	.0634	.0007	.015	.0001

%RSD	148.3	31.73	1.317	18.18	35.14	.2362	13.14
#1	-.0004	.0016	.6096	.3382	.0021	6.195	.0012
#2	.0035	.0010	.6248	.2914	.0013	6.224	.0009
#3	.0008	.0019	.6222	.4169	.0027	6.205	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0924	.0024
SDev	.0006	.0006
%RSD	.6648	26.47
#1	.0929	.0027
#2	.0925	.0017
#3	.0917	.0029

Analysis Report Tue 09-12-95 11:39:52 AM page 1

Method: ICP1 Sample Name: 95-007935-A1 @5 Operator: DRS
Run Time: 09/12/95 11:38:32
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0146	603.9	.4878	.7089	.0021	.0051	.0773
SDev	.0017	7.6	.0405	.0077	.0002	.0000	.0049
%RSD	11.64	1.253	8.308	1.082	9.599	.7744	6.325
#1	-.0159	610.6	.4727	.7162	.0020	.0052	.0768
#2	-.0153	605.5	.4571	.7095	.0020	.0051	.0726
#3	-.0127	595.7	.5338	.7009	.0024	.0051	.0824

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0852	-.0001	.0162	.1339	4.633	.1572	.0024
SDev	.0016	.0008	.0074	.0014	.035	.0020	.0009
%RSD	1.907	1482.	45.57	1.062	.7578	1.266	35.18
#1	.0838	.0002	.0113	.1341	4.668	.1573	.0016
#2	.0848	-.0010	.0127	.1324	4.634	.1591	.0024
#3	.0869	.0006	.0248	.1353	4.598	.1551	.0033

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	1.520	43.40	.0094	.0119	.0281	.0056
SDev	.0004	.013	.20	.0014	.0009	.0051	.0002
%RSD	22.55	.8222	.4499	14.40	7.573	18.04	2.835
#1	.0014	1.532	43.51	.0084	.0118	.0300	.0055
#2	.0017	1.522	43.51	.0088	.0129	.0223	.0056
#3	.0022	1.507	43.17	.0109	.0111	.0319	.0058

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2320	2603.	.0151	3.764	7.298	1.530	.0807
SDev	.0022	30.	.0057	.033	.072	.009	.0197
%RSD	.9412	1.166	37.86	.8787	.9934	.5847	24.38
#1	.2342	2629.	.0110	3.792	7.307	1.522	.0614
#2	.2298	2611.	.0127	3.772	7.366	1.527	.0801
#3	.2318	2570.	.0217	3.727	7.222	1.540	.1007

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0557	-.0898	-.0570	1.756	.2101	.0265	-.0838
SDev	.0116	.0114	.0144	.003	.0415	.0003	.0100
%RSD	20.75	12.68	25.22	.1887	19.76	1.120	11.93
#1	.0460	-.0958	-.0518	1.760	.1804	.0268	-.0859
#2	.0527	-.0968	-.0732	1.756	.1922	.0265	-.0926
#3	.0685	-.0766	-.0459	1.753	.2575	.0262	-.0729

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	.0013	1.204	.3060	.0017	12.31	.0009
SDev	.0041	.0005	.017	.0785	.0009	.15	.0005

%RSD	142.2	36.31	1.415	25.64	51.02	1.205	53.35
#1	.0033	.0008	1.221	.2160	.0008	12.43	.0007
#2	-.0014	.0014	1.204	.3417	.0019	12.36	.0006
#3	.0067	.0018	1.187	.3602	.0025	12.14	.0015

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1863	.0026
SDev	.0024	.0006
%RSD	1.293	22.03
#1	.1882	.0021
#2	.1871	.0025
#3	.1836	.0033

Analysis Report Tue 09-12-95 11:44:20 AM page

Method: ICP1 Sample Name: STD9 FDR W @50 PPM Operator: DRS
Run Time: 09/12/95 11:43:00
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0576	1.231	.1083	4.591	.0063	.0001	.0033
SDev	.0008	.005	.0018	.013	.0001	.0001	.0037
%RSD	1.367	.3848	1.696	.2862	1.105	36.31	112.0
#1	-.0584	1.235	.1065	4.602	.0062	.0001	-.0010
#2	-.0574	1.233	.1101	4.593	.0063	.0001	.0057
#3	-.0569	1.226	.1082	4.576	.0062	.0002	.0053

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0313	-.0008	-.0105	.0058	.0009	-.0001	.0008
SDev	.0006	.0008	.0044	.0001	.0019	.0012	.0003
%RSD	2.049	94.25	42.16	1.357	205.5	1643.	33.30
#1	.0309	-.0015	-.0128	.0057	-.0005	-.0015	.0006
#2	.0311	-.0010	-.0133	.0057	.0002	.0007	.0011
#3	.0321	.0000	-.0054	.0058	.0031	.0006	.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0337	-.3044	-.0004	.0011	-.0928	-.0003
SDev	.0001	.0006	.0737	.0011	.0013	.0075	.0001
%RSD	34.86	1.667	24.22	251.1	119.3	8.027	18.72
#1	.0002	.0332	-.3889	-.0015	.0014	-.1009	-.0003
#2	.0003	.0343	-.2537	-.0005	.0022	-.0914	-.0003
#3	.0003	.0336	-.2706	.0007	-.0004	-.0862	-.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	3.462	-.0037	.0125	-.1840	-.0083	50.07
SDev	.0007	.043	.0025	.0009	.0019	.0057	.14
%RSD	23.47	1.233	66.08	7.387	1.028	68.30	.2822
#1	.0021	3.435	-.0065	.0131	-.1818	-.0062	50.20
#2	.0033	3.511	-.0020	.0131	-.1851	-.0147	50.08
#3	.0034	3.440	-.0026	.0115	-.1850	-.0040	49.92

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.40	-.0314	-.0089	48.53	49.85	.0014	.0242
SDev	.16	.0025	.0060	.10	.12	.0001	.0050
%RSD	.3153	8.114	66.99	.2097	.2415	4.918	20.84
#1	50.56	-.0314	-.0124	48.58	49.95	.0013	.0195
#2	50.39	-.0289	-.0123	48.59	49.88	.0014	.0295
#3	50.24	-.0339	-.0020	48.41	49.71	.0014	.0237

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0288	.0074	-.1623	-.0539	-.0072	49.48	.0005
SDev	.0045	.0003	.0172	.0213	.0002	.18	.0003

%RSD	15.59	3.742	10.61	39.58	2.969	.3565	55.21
#1	.0261	.0071	-.1814	-.0566	-.0074	49.63	.0002
#2	.0340	.0076	-.1480	-.0738	-.0071	49.53	.0005
#3	.0264	.0075	-.1575	-.0314	-.0069	49.29	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0020	.0384
SDev	.0008	.0005
%RSD	38.42	1.232
#1	.0013	.0389
#2	.0018	.0379
#3	.0028	.0385

Analysis Report QC Standard Tue 09-12-95 11:48:29 AM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 11:47:10
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DRS 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4855	24.85	2.594	1.996	.5055	.0939	24.60
SDev	.0014	.10	.013	.008	.0019	.0002	.12
%RSD	.2779	.3930	.4955	.4052	.3828	.2193	.4831
#1	.4866	24.96	2.606	2.005	.5076	.0941	24.74
#2	.4840	24.78	2.580	1.989	.5038	.0937	24.52
#3	.4858	24.82	2.595	1.996	.5052	.0939	24.55
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.96	.4939	-.0349	1.024	1.016	.9870	-.0002
SDev	.06	.0032	.0011	.003	.007	.0026	.0003
%RSD	.2289	.6438	3.237	.2613	.6562	.2670	134.9
#1	24.99	.4921	-.0361	1.025	1.021	.9900	-.0005
#2	24.89	.4976	-.0348	1.021	1.019	.9859	-.0001
#3	24.99	.4921	-.0338	1.025	1.009	.9850	-.0000
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.34	25.95	.0042	1.954	26.36	.5110
SDev	.0002	.05	.26	.0003	.029	.07	.0007
%RSD	9.618	.2672	.9975	8.446	1.467	.2579	.1321
#1	.0018	20.39	26.25	.0045	1.986	26.44	.5115
#2	.0018	20.28	25.86	.0039	1.948	26.33	.5102
#3	.0021	20.34	25.76	.0041	1.929	26.33	.5113
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.028	25.29	.0044	1.060	.0618	2.586	-.0117
SDev	.003	.31	.0022	.004	.0106	.022	.0012
%RSD	.2464	1.209	51.02	.3843	17.07	.8518	10.08
#1	1.029	25.63	.0018	1.061	.0605	2.572	-.0125
#2	1.025	25.17	.0056	1.056	.0519	2.575	-.0104
#3	1.029	25.06	.0058	1.064	.0729	2.612	-.0123
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	2.535	2.483	19.78	-.0947	.5122	-.0070
SDev	.0020	.017	.004	.09	.0259	.0017	.0065
%RSD	729.2	.6884	.1473	.4456	27.38	.3242	92.30
#1	-.0006	2.524	2.481	19.88	-.1238	.5141	-.0142
#2	-.0021	2.525	2.487	19.74	-.0861	.5111	-.0050
#3	.0018	2.555	2.481	19.72	-.0741	.5114	-.0018
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0399	.9937	2.553	.0323	.9854	.0257	-.0005
SDev	.0016	.0024	.004	.0456	.0021	.0079	.0002
%RSD	4.051	.2416	.1503	141.2	.2133	30.79	33.50
#1	.0391	.9964	2.549	-.0196	.9876	.0227	-.0005
#2	.0417	.9919	2.554	.0507	.9834	.0198	-.0006
#3	.0388	.9929	2.556	.0659	.9851	.0347	-.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.019	2.038
SDev	.009	.003
%RSD	.8863	.1691
#1	1.026	2.041
#2	1.009	2.034
#3	1.022	2.038
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 11:53:02 AM page

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 11:51:42
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0111	99.60	.1148	.0032	.0001	.0006	.0582
SDev	.0002	.26	.0017	.0020	.0001	.0000	.0042
%RSD	2.028	.2584	1.485	60.51	63.46	4.446	7.119
#1	-.0112	99.38	.1161	.0055	.0002	.0007	.0535
#2	-.0108	99.88	.1129	.0019	.0001	.0006	.0603
#3	-.0113	99.53	.1155	.0023	.0001	.0006	.0610

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0752	.0071	-.1639	.0030	.0370	-.0166	-.0056
SDev	.0003	.0026	.0062	.0006	.0012	.0021	.0002
%RSD	.3664	36.02	3.783	20.05	3.344	12.58	3.736
#1	.0754	.0056	-.1603	.0025	.0384	-.0149	-.0055
#2	.0753	.0101	-.1711	.0028	.0362	-.0159	-.0058
#3	.0749	.0056	-.1604	.0037	.0364	-.0189	-.0054

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	20.18	-.4848	-.0003	.0029	.2757	.0010
SDev	.0002	.04	.0426	.0014	.0012	.0079	.0001
%RSD	81.27	.1864	8.779	482.0	43.52	2.881	5.296
#1	-.0004	20.15	-.4397	.0006	.0036	.2675	.0009
#2	-.0003	20.22	-.5242	-.0018	.0036	.2833	.0010
#3	-.0000	20.18	-.4904	.0004	.0014	.2762	.0010

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	-.0137	-.0376	52.57	.0178	.1767	-.4273
SDev	.0008	.0090	.0015	.06	.0188	.0072	.0074
%RSD	10.54	65.69	4.028	.1074	105.4	4.090	1.733
#1	.0090	-.0036	-.0359	52.51	.0048	.1784	-.4259
#2	.0080	-.0210	-.0379	52.62	.0393	.1828	-.4353
#3	.0073	-.0164	-.0389	52.57	.0093	.1687	-.4207

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0498	-.0047	.0243	.1465	-.0399	-.0000	-.0153
SDev	.0013	.0055	.0035	.0067	.0227	.0000	.0046
%RSD	2.656	117.9	14.51	4.547	56.75	27.38	30.18
#1	-.0492	-.0018	.0210	.1519	-.0185	-.0000	-.0204
#2	-.0488	-.0110	.0237	.1484	-.0376	-.0000	-.0140
#3	-.0513	-.0012	.0280	.1390	-.0637	-.0000	-.0114

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7025	.0004	.2316	50.98	-.0005	.0466	.0023
SDev	.0079	.0001	.0022	.12	.0004	.0110	.0001

%RSD	1.123	26.58	.9433	.2329	76.72	23.66	5.179
#1	.7001	.0003	.2341	50.89	-.0004	.0437	.0022
#2	.7114	.0005	.2307	51.12	-.0002	.0373	.0024
#3	.6962	.0004	.2299	50.95	-.0010	.0588	.0022

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0274	10.14
SDev	.0011	.02
%RSD	3.928	.2353
#1	-.0267	10.13
#2	-.0269	10.17
#3	-.0286	10.14

Analysis Report Tue 09-12-95 11:56:54 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 11:55:35
Comment: SEG 3 DRAINABLE LIQUIDS @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0071	.0077	.0052	.0000	-.0000	.0003
SDev	.0010	.0033	.0004	.0014	.0001	.0000	.0013
%RSD	61.62	47.02	4.678	27.75	4439.	30.77	415.3
#1	-.0022	.0076	.0076	.0064	.0000	-.0000	.0007
#2	-.0022	.0035	.0073	.0036	-.0001	-.0000	.0014
#3	-.0005	.0101	.0080	.0055	.0001	-.0001	-.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	-.0005	-.0104	.0006	-.0001	-.0018	-.0006
SDev	.0022	.0012	.0057	.0013	.0006	.0007	.0009
%RSD	136.2	252.3	54.45	230.2	428.7	36.49	145.8
#1	.0014	-.0017	-.0120	-.0007	-.0000	-.0025	-.0008
#2	-.0005	-.0002	-.0151	.0005	-.0008	-.0016	-.0015
#3	.0039	.0005	-.0041	.0019	.0004	-.0012	.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0004	-.5355	-.0015	.0005	-.0023	-.0006
SDev	.0002	.0007	.1727	.0016	.0004	.0070	.0002
%RSD	139.6	184.6	32.26	107.9	86.66	306.4	43.27
#1	-.0003	.0012	-.6088	-.0024	.0007	-.0031	-.0006
#2	-.0003	-.0002	-.6595	-.0024	.0007	-.0088	-.0008
#3	.0001	.0001	-.3382	.0004	-.0000	.0051	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	-.0027	-.0088	.0082	.0003	-.0097	-.0028
SDev	.0008	.0105	.0061	.0011	.0123	.0030	.0179
%RSD	58.45	393.5	69.47	13.62	4180.	30.89	641.3
#1	.0017	-.0124	-.0126	.0080	.0142	-.0106	-.0081
#2	.0004	-.0040	-.0120	.0073	-.0091	-.0122	-.0175
#3	.0018	.0084	-.0017	.0095	-.0042	-.0064	.0172

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0056	.0066	-.0031	.0350	-.0448	.0002	-.0035
SDev	.0091	.0058	.0118	.0026	.0291	.0001	.0018
%RSD	161.9	88.73	385.1	7.446	65.05	45.23	49.99
#1	-.0110	.0025	-.0061	.0377	-.0275	.0001	-.0031
#2	-.0108	.0040	-.0131	.0325	-.0784	.0002	-.0054
#3	.0049	.0133	.0100	.0347	-.0284	.0003	-.0020

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0003	.0136	-.0744	-.0011	-.0033	-.0007
SDev	.0048	.0002	.0021	.0966	.0006	.0071	.0006

%RSD	210.3	60.91	15.59	130.0	53.95	216.1	85.21
#1	.0029	-.0004	.0112	-.1374	-.0011	.0025	-.0006
#2	-.0031	-.0005	.0152	-.1226	-.0017	-.0112	-.0012
#3	-.0065	-.0001	.0144	.0369	-.0005	-.0011	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	-.0003
SDev	.0001	.0008
%RSD	31.02	307.6
#1	.0003	-.0008
#2	.0002	-.0007
#3	.0004	.0007

Analysis Report Tue 09-12-95 11:58:47 AM page

Method: ICP1 Sample Name: 95-007935-A2 @50 Operator: DRS
Run Time: 09/12/95 11:57:28
Comment: SEG 3 DRAINABLE LIQUIDS DUP @50X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	61.65	.0434	.0776	.0004	.0004	.0123
SDev	.0006	.44	.0069	.0024	.0002	.0000	.0068
%RSD	19.84	.7092	15.96	3.083	41.23	5.163	55.14
#1	-.0026	61.22	.0441	.0749	.0006	.0005	.0152
#2	-.0039	62.09	.0362	.0789	.0002	.0004	.0045
#3	-.0032	61.63	.0500	.0791	.0005	.0004	.0171

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0241	-.0006	-.0074	.0143	.4801	.0135	-.0004
SDev	.0011	.0004	.0052	.0004	.0023	.0007	.0005
%RSD	4.753	70.32	70.44	2.698	.4862	5.112	145.6
#1	-.0242	-.0010	-.0064	.0144	.4793	.0142	.0002
#2	-.0251	-.0004	-.0131	.0139	.4784	.0128	-.0006
#3	-.0228	-.0003	-.0028	.0147	.4828	.0135	-.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.1750	4.538	.0003	.0017	.0017	.0004
SDev	.0002	.0013	.096	.0003	.0009	.0051	.0002
%RSD	282.7	.7291	2.119	113.9	53.73	301.5	53.25
#1	.0001	.1747	4.566	.0007	.0025	.0061	.0006
#2	-.0002	.1739	4.431	.0000	.0007	-.0039	.0002
#3	.0003	.1764	4.617	.0002	.0018	.0030	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0243	311.9	-.0052	.4102	.7260	.1407	.0053
SDev	.0004	3.8	.0042	.0028	.0064	.0114	.0097
%RSD	1.522	1.222	80.59	.6734	.8796	8.110	183.5
#1	.0240	308.5	-.0017	.4082	.7319	.1413	.0071
#2	.0247	316.0	-.0099	.4092	.7192	.1290	-.0052
#3	.0243	311.2	-.0041	.4134	.7268	.1517	.0139

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	-.0079	.0026	.2189	-.0388	.0081	-.0192
SDev	.0054	.0061	.0139	.0066	.0140	.0001	.0100
%RSD	282.7	77.31	537.8	3.031	36.13	.8955	52.44
#1	.0071	-.0010	.0037	.2126	-.0410	.0080	-.0126
#2	-.0037	-.0124	-.0118	.2183	-.0516	.0081	-.0307
#3	.0024	-.0102	.0159	.2258	-.0238	.0080	-.0141

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	-.0003	.1371	-.0283	-.0008	1.243	-.0003
SDev	.0049	.0004	.0043	.0567	.0008	.009	.0003

%RSD	219.5	142.4	3.121	200.7	90.97	.7575	114.4
#1	.0039	.0001	.1406	.0269	.0000	1.237	-.0001
#2	-.0033	-.0003	.1383	-.0864	-.0014	1.254	-.0006
#3	.0060	-.0007	.1323	-.0253	-.0012	1.238	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0192	-.0003
SDev	.0013	.0005
%RSD	6.772	138.3
#1	.0207	.0002
#2	.0182	-.0005
#3	.0187	-.0007

Analysis Report Tue 09-12-95 12:02:40 PM page

Method: ICP1 Sample Name: 95-007935-A2 @10 Operator: DRS
Run Time: 09/12/95 12:01:21
Comment: SEG 3 DRAINABLE LIQUIDS DUP @10X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0053	299.4	.2597	.3566	.0025	.0026	.0353
SDev	.0003	1.1	.0178	.0027	.0001	.0001	.0084
%RSD	5.086	.3721	6.847	.7542	2.787	2.047	23.76
#1	-.0056	299.8	.2652	.3563	.0025	.0025	.0418
#2	-.0053	298.2	.2399	.3541	.0025	.0026	.0382
#3	-.0051	300.3	.2742	.3594	.0024	.0026	.0258

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0224	.0003	.0193	.0709	2.328	.0794	.0033
SDev	.0005	.0026	.0031	.0010	.015	.0003	.0003
%RSD	2.181	839.1	16.27	1.355	.6249	.4218	10.50
#1	.0225	-.0026	.0224	.0718	2.335	.0796	.0029
#2	.0218	.0019	.0193	.0699	2.311	.0791	.0034
#3	.0228	.0016	.0161	.0711	2.337	.0797	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.8304	22.49	.0069	.0113	.0248	.0037
SDev	.0000	.0025	.27	.0010	.0010	.0044	.0003
%RSD	1.090	.3034	1.199	11.06	9.122	17.61	8.441
#1	.0014	.8317	22.31	.0097	.0107	.0283	.0034
#2	.0014	.8274	22.80	.0092	.0125	.0263	.0040
#3	.0015	.8319	22.36	.0078	.0107	.0199	.0039

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1189	1392.	.0189	1.946	3.655	.7774	.0830
SDev	.0008	3.	.0032	.011	.017	.0013	.0071
%RSD	.6674	.1989	16.91	.5863	.4690	.1718	8.566
#1	.1197	1391.	.0221	1.950	3.653	.7784	.0896
#2	.1189	1390.	.0189	1.933	3.640	.7759	.0839
#3	.1181	1395.	.0157	1.955	3.674	.7780	.0755

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0450	-.0401	-.0084	.9511	.1330	.0381	-.0349
SDev	.0022	.0044	.0135	.0111	.0222	.0002	.0019
%RSD	4.964	11.03	159.9	1.169	16.72	.4712	5.542
#1	.0424	-.0451	.0070	.9413	.1273	.0381	-.0330
#2	.0461	-.0384	-.0179	.9489	.1576	.0379	-.0348
#3	.0465	-.0368	-.0144	.9632	.1142	.0383	-.0369

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0016	.6182	.4086	.0019	6.176	.0010
SDev	.0038	.0001	.0015	.0278	.0003	.039	.0002

%RSD	128.7	9.042	.2429	6.796	15.42	.6302	18.39
#1	-.0011	.0017	.6196	.3984	.0016	6.160	.0012
#2	.0065	.0014	.6185	.4401	.0022	6.148	.0008
#3	.0035	.0016	.6166	.3875	.0021	6.220	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0924	.0034
SDev	.0011	.0003
%RSD	1.152	8.313
#1	.0935	.0031
#2	.0914	.0036
#3	.0923	.0033

Analysis Report Tue 09-12-95 12:06:36 PM page :

Method: ICP1 Sample Name: 95-007935-A2 @5 Operator: DRS
Run Time: 09/12/95 12:05:17
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0140	600.9	.5046	.7123	.0033	.0051	.0753
SDev	.0016	4.8	.0300	.0055	.0002	.0000	.0130
%RSD	11.27	.7957	5.943	.7675	6.184	.7787	17.28
#1	-.0158	606.0	.4780	.7173	.0032	.0051	.0610
#2	-.0134	600.3	.4987	.7130	.0032	.0051	.0785
#3	-.0128	596.5	.5371	.7065	.0036	.0051	.0864

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0724	.0000	.0217	.1341	4.608	.1574	.0032
SDev	.0010	.0006	.0080	.0015	.024	.0009	.0007
%RSD	1.327	4125.	37.10	1.126	.5119	.5685	23.00
#1	.0716	.0001	.0138	.1324	4.634	.1580	.0027
#2	.0721	.0006	.0214	.1347	4.603	.1578	.0029
#3	.0735	-.0006	.0298	.1352	4.588	.1564	.0040

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	1.628	43.37	.0109	.0178	.0268	.0072
SDev	.0003	.006	.28	.0018	.0014	.0069	.0001
%RSD	14.85	.3728	.6540	16.27	7.636	25.77	1.422
#1	.0016	1.635	43.70	.0092	.0193	.0219	.0071
#2	.0016	1.626	43.19	.0107	.0168	.0347	.0073
#3	.0021	1.624	43.22	.0127	.0172	.0239	.0072

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2321	2594.	.0193	3.835	7.357	1.519	.0908
SDev	.0012	20.	.0060	.011	.019	.016	.0207
%RSD	.5022	.7554	30.98	.2839	.2530	1.070	22.75
#1	.2314	2614.	.0130	3.843	7.345	1.502	.0704
#2	.2335	2591.	.0200	3.840	7.379	1.534	.0902
#3	.2316	2575.	.0249	3.823	7.348	1.520	.1117

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0604	-.0932	-.0427	1.872	.2258	.0742	-.0820
SDev	.0081	.0137	.0175	.017	.0311	.0004	.0149
%RSD	13.35	14.72	40.85	.8875	13.75	.5570	18.18
#1	.0525	-.1080	-.0620	1.854	.2389	.0746	-.0932
#2	.0600	-.0809	-.0382	1.875	.1904	.0742	-.0877
#3	.0687	-.0906	-.0280	1.887	.2482	.0738	-.0650

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	.0023	1.216	.4926	.0017	12.19	.0009
SDev	.0051	.0003	.014	.0648	.0008	.10	.0003

%RSD	86.51	12.79	1.134	13.16	47.09	.8373	34.23
#1	.0113	.0020	1.203	.4305	.0009	12.31	.0006
#2	.0053	.0023	1.216	.4875	.0017	12.15	.0011
#3	.0011	.0026	1.230	.5599	.0025	12.12	.0011

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1884	.0034
SDev	.0041	.0010
%RSD	2.176	29.34
#1	.1923	.0023
#2	.1888	.0036
#3	.1841	.0042

Analysis Report QC Standard Tue 09-12-95 12:10:47 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 12:09:28
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4884	24.92	2.615	2.005	.5083	.0946	24.66
SDev	.0022	.21	.012	.014	.0054	.0007	.18
%RSD	.4449	.8351	.4736	.7169	1.056	.7640	.7394
#1	.4903	25.12	2.628	2.016	.5132	.0953	24.84
#2	.4888	24.94	2.604	2.010	.5090	.0948	24.67
#3	.4860	24.70	2.613	1.989	.5026	.0939	24.47
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.19	.4945	-.0325	1.035	1.031	.9896	.0004
SDev	.15	.0063	.0047	.006	.009	.0085	.0007
%RSD	.5771	1.275	14.61	.6022	.8608	.8607	194.1
#1	25.32	.5012	-.0374	1.040	1.037	.9972	-.0002
#2	25.22	.4934	-.0323	1.035	1.035	.9913	.0001
#3	25.03	.4867	-.0279	1.028	1.020	.9804	.0012
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.51	25.39	.0052	1.924	26.54	.5146
SDev	.0003	.14	.24	.0008	.028	.19	.0034
%RSD	13.55	.6976	.9566	14.44	1.445	.7254	.6563
#1	.0018	20.63	25.67	.0045	1.953	26.73	.5173
#2	.0021	20.54	25.30	.0053	1.922	26.55	.5158
#3	.0024	20.35	25.21	.0060	1.898	26.34	.5108
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.037	24.96	.0059	1.062	.0733	2.613	-.0066
SDev	.004	.33	.0074	.008	.0130	.011	.0147
%RSD	.3800	1.336	125.5	.7718	17.72	.4310	221.9
#1	1.041	25.30	-.0021	1.070	.0600	2.619	-.0176
#2	1.037	24.95	.0074	1.060	.0860	2.619	-.0123
#3	1.033	24.63	.0125	1.054	.0739	2.600	.0101
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	2.564	2.526	19.43	-.0793	.5155	.0029
SDev	.0065	.010	.018	.11	.0311	.0049	.0036
%RSD	183.5	.4085	.7051	.5695	39.22	.9536	122.2
#1	-.0034	2.573	2.543	19.52	-.1145	.5202	-.0008
#2	.0045	2.566	2.529	19.45	-.0677	.5160	.0033
#3	.0094	2.553	2.507	19.30	-.0556	.5104	.0064
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0400	1.001	2.546	.0893	.9918	.0355	-.0000
SDev	.0019	.007	.011	.0883	.0067	.0057	.0003
%RSD	4.854	.7471	.4197	98.96	.6795	16.03	1663.
#1	.0413	1.008	2.548	-.0008	.9982	.0315	-.0003
#2	.0378	1.002	2.556	.0928	.9923	.0420	-.0000
#3	.0409	.9933	2.535	.1758	.9848	.0329	.0002
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	2.050
SDev	.002	.017
%RSD	.2016	.8297
#1	1.036	2.065
#2	1.034	2.055
#3	1.032	2.032
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Tue 09-12-95 12:15:10 PM page 1

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/12/95 12:13:51
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0082	96.98	.1334	.0019	.0007	.0007	.0642
SDev	.0005	.49	.0106	.0024	.0001	.0000	.0061
%RSD	5.550	.5002	7.953	122.0	10.12	2.898	9.516
#1	-.0087	97.25	.1437	.0019	.0007	.0007	.0624
#2	-.0079	97.28	.1225	-.0004	.0007	.0007	.0592
#3	-.0080	96.42	.1340	.0043	.0008	.0007	.0710

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0788	.0066	-.1391	.0058	.0367	-.0154	-.0021
SDev	.0009	.0007	.0062	.0001	.0017	.0009	.0003
%RSD	1.148	11.17	4.430	1.347	4.602	5.611	14.08
#1	.0777	.0060	-.1401	.0059	.0348	-.0148	-.0023
#2	.0792	.0075	-.1447	.0058	.0378	-.0164	-.0023
#3	.0794	.0065	-.1325	.0057	.0376	-.0152	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	19.89	.0000	.0049	.0062	.3016	.0014
SDev	.0002	.07	.1056	.0000	.0009	.0050	.0004
%RSD	23.63	.3689	155e6	.5091	14.59	1.654	32.58
#1	.0007	19.86	-.0338	.0049	.0071	.2994	.0014
#2	.0006	19.98	-.0846	.0049	.0061	.2981	.0009
#3	.0010	19.84	.1184	.0049	.0054	.3074	.0018

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0434	-.0177	52.01	.0264	.1944	-.3813
SDev	.0011	.0199	.0050	.17	.0112	.0053	.0029
%RSD	10.40	45.90	28.24	.3238	42.25	2.752	.7593
#1	.0098	.0321	-.0206	51.92	.0393	.1909	-.3787
#2	.0102	.0317	-.0207	52.20	.0198	.1917	-.3810
#3	.0119	.0664	-.0119	51.90	.0202	.2005	-.3844

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0195	.0121	.0182	.0642	.0641	.0002	.0055
SDev	.0079	.0069	.0050	.0020	.0064	.0000	.0066
%RSD	40.42	56.55	27.62	3.126	10.03	11.57	119.3
#1	-.0254	.0047	.0150	.0654	.0588	.0002	.0044
#2	-.0226	.0181	.0240	.0619	.0622	.0002	-.0005
#3	-.0105	.0135	.0157	.0653	.0712	.0002	.0125

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7076	.0015	.2320	49.76	.0022	.0516	.0033
SDev	.0069	.0003	.0099	.26	.0005	.0063	.0002

%RSD	.9704	17.95	4.251	.5212	21.12	12.26	7.354
#1	.7012	.0012	.2317	49.84	.0020	.0552	.0031
#2	.7065	.0016	.2420	49.97	.0019	.0443	.0033
#3	.7149	.0018	.2222	49.47	.0028	.0554	.0035

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0286	9.964
SDev	.0018	.047
%RSD	6.353	.4759
#1	-.0273	9.949
#2	-.0307	10.02
#3	-.0279	9.927

Analysis Report QC Standard Tue 09-12-95 12:18:59 PM page

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 12:17:39
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DKB 9/12

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.1534	.0303	.0022	.0005	.0002	-.0029
SDev	.0005	.0018	.0038	.0009	.0001	.0000	.0057
%RSD	25.65	1.148	12.57	41.78	13.43	12.29	194.6
#1	.0023	-.1524	.0269	.0026	.0006	.0003	.0033
#2	.0016	-.1555	.0297	.0029	.0005	.0002	-.0041
#3	.0015	-.1524	.0344	.0011	.0005	.0002	-.0079
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0230	.0009	1.979	.0036	.0012	-.0109	1.958
SDev	.0005	.0012	.004	.0003	.0011	.0010	.004
%RSD	2.089	140.9	.1805	9.621	92.25	9.553	.1848
#1	.0235	.0008	1.978	.0039	.0010	-.0118	1.955
#2	.0229	.0021	1.983	.0038	.0002	-.0097	1.962
#3	.0226	-.0003	1.976	.0032	.0024	-.0112	1.957
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.947	.0071	-.0958	1.959	.0029	.0919	.0004
SDev	.003	.0002	.0517	.005	.0012	.0080	.0001
%RSD	.1340	2.470	53.91	.2743	43.12	8.687	19.12
#1	1.945	.0072	-.1522	1.953	.0036	.0873	.0003
#2	1.950	.0069	-.0507	1.964	.0014	.0873	.0004
#3	1.947	.0072	-.0846	1.961	.0036	.1011	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0260	1.940	.0303	-.0077	.0488	2.087
SDev	.0010	.0129	.006	.0038	.0143	.0064	.006
%RSD	63.03	49.72	.3183	12.40	187.1	13.12	.2716
#1	.0021	.0401	1.933	.0346	.0088	.0455	2.082
#2	.0005	.0231	1.945	.0284	-.0174	.0562	2.086
#3	.0024	.0147	1.942	.0278	-.0143	.0447	2.093
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.986	.0199	.0186	.0576	2.026	.0006	1.818
SDev	.004	.0088	.0132	.0033	.023	.0000	.012
%RSD	.1870	44.46	71.25	5.659	1.151	.2775	.6842
#1	1.985	.0124	.0083	.0581	2.019	.0006	1.805
#2	1.990	.0177	.0139	.0607	2.052	.0006	1.829
#3	1.982	.0296	.0335	.0542	2.007	.0006	1.822
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.004	.0010	.0243	08.407	-.0011	0.4932	.9560
SDev	.015	.0003	.0079	.017	.0002	.0040	.0016
%RSD	.2907	29.92	32.43	.1964	14.03	.8186	.1730
#1	5.004	.0009	.0273	08.412	-.0012	0.4886	.9544
#2	5.018	.0007	.0154	08.421	-.0013	0.4946	.9577
#3	4.989	.0013	.0303	08.389	-.0009	0.4963	.9559
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0010	-.0083
SDev	.0010	.0006
%RSD	104.6	6.997
#1	.0001	-.0080
#2	.0008	-.0090
#3	.0020	-.0079
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 12:23:05 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 12:21:46
Comment: DRAINABLE LIQUIDS (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0015	Q.1056	Q.0931	Q.1163	.0492	.0221	.0128
SDev	.0008	.0025	.0029	.0024	.0003	.0001	.0009
%RSD	54.17	2.340	3.088	2.094	.5670	.4063	7.181
#1	Q-.0018	Q.1028	Q.0962	Q.1136	.0494	.0221	.0126
#2	Q-.0021	Q.1071	Q.0906	.1184	.0494	.0222	.0138
#3	Q-.0006	Q.1070	Q.0925	Q.1168	.0489	.0220	.0119
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.72	.0112	-.0142	Q.0252	Q.0220	Q.0150	-.0019
SDev	.14	.0010	.0058	.0004	.0008	.0009	.0010
%RSD	.3907	8.974	40.91	1.484	3.838	5.756	54.88
#1	35.67	.0119	-.0155	Q.0249	Q.0229	Q.0152	-.0021
#2	35.87	.0117	-.0193	Q.0250	Q.0212	Q.0140	-.0027
#3	35.61	Q.0101	-.0079	Q.0256	Q.0221	Q.0157	-.0007
Errors	QC Pass	QC Pass	NOCHECK	QC Fail	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1190	Q1.640	.0030	Q.0130	Q9.920	.0349
SDev	.0002	.0001	.138	.0016	.0010	.050	.0003
%RSD	52.85	.1195	8.438	51.31	8.103	.5037	.8753
#1	.0005	Q.1191	Q1.674	.0022	Q.0136	Q9.917	.0352
#2	.0002	Q.1189	Q1.488	.0021	Q.0118	Q9.971	.0348
#3	.0006	Q.1191	Q1.759	.0049	Q.0136	Q9.871	.0346
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1071	11.99	-.0044	.0673	.0063	Q.0231	-.0296
SDev	.0003	.33	.0056	.0039	.0146	.0056	.0139
%RSD	.2566	2.789	126.4	5.807	229.3	24.35	46.81
#1	Q.1068	12.21	-.0029	.0653	-.0105	Q.0268	-.0284
#2	Q.1073	12.15	-.0107	.0647	.0148	Q.0166	-.0441
#3	Q.1073	Q11.60	.0003	Q.0718	.0147	Q.0259	-.0164
Errors	QC Fail	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0165	-.0043	Q.0237	.0077	-.0890	.2650	-.0059
SDev	.0084	.0086	.0003	.0029	.0165	.0022	.0091
%RSD	50.94	202.9	1.133	38.12	18.56	.8442	154.7
#1	-.0186	-.0011	Q.0239	.0080	-.0901	.2653	-.0078
#2	-.0236	-.0140	Q.0239	.0047	-.1049	Q.2670	.0040
#3	-.0072	.0024	Q.0234	.0105	-.0719	.2626	-.0138
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0041	.0072	Q.0180	.0048	Q.0263	.0016	-.0026
SDev	.0044	.0003	.0032	.0816	.0006	.0087	.0003
%RSD	106.1	3.657	17.77	1716.	2.122	548.2	11.75
#1	-.0067	.0073	Q.0185	-.0220	Q.0260	-.0084	-.0028
#2	-.0067	.0069	Q.0145	-.0601	Q.0259	.0068	-.0028
#3	.0009	.0075	Q.0209	.0963	Q.0269	.0063	-.0022
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0880	-.0021
SDev	.0017	.0004
%RSD	1.912	19.69
#1	Q.0873	-.0020
#2	Q.0869	-.0025
#3	Q.0900	-.0017
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Tue 09-12-95 12:26:42 PM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 12:25:23
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	1.922	2.055	1.966	1.004	.9774	1.943
SDev	.0004	.016	.013	.023	.012	.0094	.026
%RSD	77.15	.8088	.6155	1.152	1.240	.9653	1.338
#1	-.0004	1.919	2.052	1.962	1.005	.9768	1.923
#2	-.0001	1.908	2.044	1.946	.9916	.9682	1.934
#3	-.0009	1.939	2.069	1.990	1.016	.9871	1.972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.958	.9877	-.0034	1.046	.5169	2.012	-.0000
SDev	.010	.0041	.0079	.005	.0081	.022	.0014
%RSD	.4996	.4127	229.9	.4945	1.562	1.098	18460.
#1	1.955	.9867	-.0057	1.046	.5191	2.012	-.0000
#2	1.950	.9842	.0053	1.040	.5079	1.991	.0014
#3	1.969	.9921	-.0099	1.050	.5236	2.035	-.0014

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	2.031	4.673	.0011	1.964	2.099	1.029
SDev	.0003	.015	.093	.0019	.041	.013	.007
%RSD	71.58	.7415	1.993	169.2	2.098	.6027	.6880
#1	.0003	2.029	4.667	.0014	1.982	2.096	1.028
#2	.0008	2.017	4.769	.0028	1.917	2.088	1.022
#3	.0002	2.047	4.583	-.0009	1.993	2.113	1.036

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.015	8.136	-.0035	2.119	4.755	2.072	.0104
SDev	.014	.131	.0070	.010	.072	.007	.0185
%RSD	.6997	1.614	202.3	.4669	1.522	.3294	178.1
#1	2.013	8.197	-.0043	2.111	4.738	2.073	.0069
#2	2.002	7.986	.0039	2.115	4.693	2.065	.0304
#3	2.030	8.226	-.0101	2.130	4.835	2.078	-.0061

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0091	2.002	5.018	-.0147	2.045	-.0148
SDev	.0097	.0061	.005	.038	.0081	.025	.0025
%RSD	379.1	67.09	.2698	.7663	54.94	1.219	16.77
#1	.0000	.0048	2.007	5.017	-.0160	2.046	-.0175
#2	.0133	.0161	1.997	4.980	-.0061	2.020	-.0144
#3	-.0056	.0064	2.003	5.057	-.0221	2.070	-.0126

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037	.0001	2.004	-.0142	.9653	.0056	-.0003
SDev	.0020	.0007	.017	.1035	.0084	.0029	.0003

%RSD	54.11	888.3	.8626	730.0	.8657	51.27	95.09
#1	.0040	-.0001	1.999	-.0236	.9642	.0027	-.0005
#2	.0016	.0008	1.990	.0937	.9575	.0084	.0000
#3	.0056	-.0005	2.023	-.1126	.9741	.0058	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.044	-.0014
SDev	.010	.0007
%RSD	.9709	51.77
#1	1.047	-.0016
#2	1.033	-.0006
#3	1.053	-.0021

Analysis Report Tue 09-12-95 12:30:22 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 12:29:03
Comment: SEG 3 DRAINABLE LIQUIDS DUP @5X DIL (ACID DIGEST) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.0019	.0094	.0026	.0001	.0000	.0091
SDev	.0011	.0063	.0065	.0012	.0001	.0000	.0034
%RSD	81.53	341.4	69.48	45.28	83.33	98.88	37.32
#1	-.0024	-.0054	.0048	.0027	.0000	.0000	.0056
#2	-.0002	.0047	.0169	.0038	.0001	.0001	.0093
#3	-.0013	.0062	.0066	.0014	.0001	.0000	.0124

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	-.0019	-.0089	.0011	.0008	-.0008	-.0005
SDev	.0014	.0002	.0055	.0009	.0007	.0009	.0004
%RSD	45.10	11.34	61.51	80.46	91.97	120.7	85.27
#1	.0015	-.0017	-.0151	.0001	.0010	-.0013	-.0008
#2	.0041	-.0018	-.0072	.0018	-.0000	-.0012	-.0000
#3	.0040	-.0021	-.0045	.0015	.0013	.0003	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0014	-.4904	-.0007	.0005	.0017	-.0003
SDev	.0002	.0004	.1184	.0007	.0011	.0043	.0001
%RSD	324.6	30.25	24.14	96.61	228.4	252.0	24.26
#1	-.0002	-.0018	-.6257	-.0016	-.0007	-.0025	-.0004
#2	-.0002	-.0010	-.4059	-.0003	.0014	.0015	-.0003
#3	.0002	-.0016	-.4397	-.0004	.0007	.0060	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.0083	-.0086	.0033	.0013	-.0087	.0028
SDev	.0010	.0152	.0057	.0012	.0128	.0035	.0082
%RSD	52.98	183.3	66.12	37.85	1005.	40.68	294.1
#1	.0009	-.0252	-.0152	.0024	-.0128	-.0108	-.0066
#2	.0017	-.0040	-.0053	.0047	.0122	-.0046	.0072
#3	.0028	.0043	-.0053	.0027	.0044	-.0106	.0078

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.0077	-.0025	-.0282	-.0280	.0006	-.0003
SDev	.0052	.0115	.0127	.0050	.0278	.0001	.0064
%RSD	1351.	148.4	499.9	17.88	99.31	12.23	1848.
#1	-.0061	.0052	.0104	-.0330	-.0595	.0005	-.0036
#2	.0040	.0203	-.0149	-.0229	-.0070	.0006	.0071
#3	.0010	-.0023	-.0031	-.0288	-.0174	.0006	-.0045

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	-.0006	.0098	-.0836	-.0009	-.0049	-.0009
SDev	.0072	.0005	.0114	.0290	.0007	.0008	.0002

%RSD	554.1	80.81	116.7	34.62	70.51	16.72	21.88
#1	-.0057	-.0011	.0032	-.0715	-.0016	-.0052	-.0009
#2	-.0052	-.0001	.0032	-.1167	-.0003	-.0039	-.0006
#3	.0070	-.0006	.0230	-.0627	-.0009	-.0054	-.0010

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0001	-.0012
SDev	.0006	.0005
%RSD	427.5	43.85
#1	-.0006	-.0015
#2	.0006	-.0006
#3	.0004	-.0015

Standardization Rpt. Tue 09-12-95 01:53:08 PM page

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6334	.2033	.1619	.1018	.0298	.0167	.1378
SDev	.0032	.0001	.0021	.0015	.0001	.0001	.0027
%RSD	.5123	.0492	1.290	1.474	.5132	.3464	1.949
#1	.6343	.2034	.1609	.1003	.0298	.0166	.1362
#2	.6298	.2032	.1643	.1019	.0296	.0167	.1363
#3	.6361	.2033	.1605	.1033	.0299	.0167	.1409

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1229	.0438	.6070	.1375	.0460	.0448	.1889
SDev	.0004	.0014	.0015	.0002	.0006	.0003	.0007
%RSD	.3289	3.139	.2473	.1514	1.198	.6824	.3830
#1	.1228	.0423	.6069	.1374	.0466	.0451	.1884
#2	.1225	.0450	.6055	.1377	.0456	.0447	.1885
#3	.1233	.0441	.6085	.1373	.0457	.0445	.1897

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0328	.0542	.2097	.0964	.0407	.2297	.0190
SDev	.0001	.0001	.0007	.0002	.0003	.0006	.0001
%RSD	.1758	.2817	.3127	.2395	.8511	.2551	.5263
#1	.0328	.0541	.2096	.0963	.0409	.2290	.0189
#2	.0328	.0542	.2091	.0963	.0403	.2299	.0190
#3	.0329	.0544	.2104	.0967	.0409	.2301	.0191

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0782	.0402	.3556	.0462	.1251	1.293	1.485
SDev	.0005	.0002	.0016	.0009	.0020	.004	.007
%RSD	.6565	.4975	.4604	1.941	1.610	.3453	.4695
#1	.0776	.0400	.3560	.0457	.1272	1.291	1.483
#2	.0786	.0402	.3538	.0456	.1232	1.290	1.478
#3	.0783	.0404	.3570	.0472	.1248	1.298	1.492

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.474	.2523	.1488	.3657	.6572	.0139	.9594
SDev	.006	.0016	.0009	.0016	.0018	.0001	.0028
%RSD	.4191	.6320	.6099	.4420	.2666	.4144	.2905
#1	1.474	.2531	.1496	.3648	.6554	.0139	.9602
#2	1.469	.2534	.1489	.3648	.6573	.0139	.9563
#3	1.481	.2505	.1478	.3676	.6589	.0140	.9617

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2281	.0628	.0344	1.666	.0945	.0296	.0247
SDev	.0011	.0001	.0003	.009	.0004	.0004	.0001
%RSD	.4941	.1838	.8890	.5288	.3815	1.280	.4049
#1	.2274	.0627	.0347	1.666	.0944	.0300	.0246
#2	.2275	.0629	.0341	1.658	.0942	.0293	.0247
#3	.2294	.0629	.0343	1.676	.0949	.0294	.0248

Elem	Zn	Zr
Avge	.0323	.0784
SDev	.0009	.0003

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%RSD	2.953	.4102
#1	.0317	.0780
#2	.0334	.0785
#3	.0318	.0786

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.206	17.63	12.68	4.546	74.70	45.60	12.14
SDev	.018	.02	.01	.011	.08	.05	.02
%RSD	.2133	.1095	.0575	.2524	.1010	.0994	.1647
#1	8.200	17.62	12.67	4.537	74.74	45.60	12.12
#2	8.191	17.61	12.67	4.541	74.61	45.55	12.12
#3	8.225	17.65	12.68	4.559	74.74	45.64	12.16

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.755	6.088	59.29	8.602	15.19	30.00	25.92
SDev	.025	.009	.04	.031	.02	.04	.03
%RSD	.4370	.1406	.0697	.3587	.1429	.1404	.0976
#1	5.729	6.093	59.28	8.580	15.19	29.99	25.92
#2	5.757	6.078	59.25	8.588	15.17	29.96	25.90
#3	5.780	6.092	59.33	8.637	15.21	30.04	25.95

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Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.23	51.14	79.43	9.977	3.003	13.56	7.171
SDev	.25	.14	.20	.050	.014	.07	.020
%RSD	.3303	.2701	.2560	.5001	.4515	.5012	.2759
#1	75.51	51.30	79.61	10.03	3.019	13.64	7.192
#2	75.14	51.09	79.48	9.946	2.994	13.51	7.169
#3	75.04	51.03	79.21	9.950	2.997	13.54	7.153

Elem	P
Avge	13.99
SDev	.02
%RSD	.1609
#1	14.02
#2	13.97
#3	14.00

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Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	49.67	11.45	6.312	17.12	12.03
SDev	.28	.06	.028	.08	.05
%RSD	.5658	.4884	.4372	.4797	.4140
#1	49.96	11.50	6.337	17.20	12.07
#2	49.39	11.39	6.283	17.04	11.97
#3	49.65	11.46	6.317	17.13	12.04

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.54	25.39	36.56	12.35	3.203
SDev	.07	.10	.08	.04	.015
%RSD	.2552	.4007	.2180	.3484	.4702
#1	27.61	25.51	36.65	12.39	3.220
#2	27.47	25.35	36.51	12.32	3.196
#3	27.54	25.32	36.52	12.32	3.193

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Method: ICP1 Standard: STD6

Elem	U
Avge	51.52
SDev	.22
%RSD	.4357
#1	51.71
#2	51.27
#3	51.58

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.878	78.48	56.08
SDev	.008	.27	.18
%RSD	.4066	.3389	.3130
#1	1.869	78.18	55.89
#2	1.881	78.56	56.15
#3	1.883	78.70	56.22

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.53	27.34	3.962	1.228
SDev	.05	.03	.006	.001
%RSD	.1718	.1158	.1519	.1170
#1	30.59	27.37	3.965	1.226
#2	30.50	27.31	3.955	1.228
#3	30.50	27.33	3.966	1.229

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.02	50.06	8.461	3.237
SDev	.10	.26	.032	.021
%RSD	.4626	.5136	.3834	.6437
#1	20.91	49.76	8.424	3.213
#2	21.07	50.17	8.475	3.247
#3	21.08	50.24	8.484	3.251

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.334490	-.211866	09/12/95 02:20:09
Al	308.215	STD3	STD1-Blank	6.66407	-1.35481	09/12/95 02:20:09
As	193.600	STD5	STD1-Blank	3.65271	-.591374	09/12/95 02:20:09
B	249.600	STD3	STD1-Blank	.979631	-.099759	09/12/95 02:20:09
Ba	493.400	STD2	STD1-Blank	1.22313	-.036408	09/12/95 02:20:09
Be	313.042	STD7	STD1-Blank	.537317	-.008955	09/12/95 02:20:09
Bi	223.061	STD8	STD1-Blank	3.67656	-.506630	09/12/95 02:20:09
Ca	317.900	STD3	STD1-Blank	3.15214	-.387292	09/12/95 02:20:09
Cd	228.800	STD3	STD1-Blank	1.00674	-.044095	09/12/95 02:20:09
Ce	418.659	STD5	STD1-Blank	2.01736	-1.22447	09/12/95 02:20:09
Co	228.600	STD2	STD1-Blank	1.14353	-.157198	09/12/95 02:20:09
Cr	205.500	STD2	STD1-Blank	1.58351	-.072789	09/12/95 02:20:09
Cu	324.700	STD2	STD1-Blank	4.44365	-.198928	09/12/95 02:20:09
Dy	353.170	STD4	STD1-Blank	1.01053	-.190856	09/12/95 02:20:09
Eu	381.900	STD4	STD1-Blank	1.75158	-.057510	09/12/95 02:20:09
Fe	259.900	STD2	STD1-Blank	2.67949	-.145318	09/12/95 02:20:09
K	766.500	STD3	STD1-Blank	178.989	-37.5340	09/12/95 02:20:09
La	398.852	STD4	STD1-Blank	3.21750	-.310275	09/12/95 02:20:09
Li	670.700	STD3	STD1-Blank	3.69810	-.150513	09/12/95 02:20:09
Mg	279.078	STD2	STD1-Blank	5.51051	-1.26558	09/12/95 02:20:09
Mn	257.600	STD3	STD1-Blank	1.39816	-.026565	09/12/95 02:20:09
Mo	202.000	STD2	STD1-Blank	1.65879	-.129662	09/12/95 02:20:09
Na	588.900	STD2	STD1-Blank	43.7427	-1.75846	09/12/95 02:20:09
Nd	406.106	STD4	STD1-Blank	2.98191	-1.06037	09/12/95 02:20:09
Ni	231.600	STD2	STD1-Blank	3.31045	-.152833	09/12/95 02:20:09
P	214.900	STD3	STD1-Blank	7.21057	-.901802	09/12/95 02:20:
Pb	220.300	STD2	STD1-Blank	.862154	-1.11477	09/12/95 02:20:0
Pd	360.959	STD9	STD1-Blank	2.55960	-3.79981	09/12/95 02:20:09
Rh	343.489	STD9	STD1-Blank	1.02916	-1.51739	09/12/95 02:20:09
Sb	206.838	STD5	STD1-Blank	2.75449	-.695050	09/12/95 02:20:09
Se	196.026	STD8	STD1-Blank	5.24540	-.780340	09/12/95 02:20:09
Si	288.100	STD7	STD1-Blank	2.56031	-.936390	09/12/95 02:20:09
Sn	242.950	STD9	STD1-Blank	7.36500	-4.84028	09/12/95 02:20:09
Sr	421.500	STD2	STD1-Blank	1.16446	-.016225	09/12/95 02:20:09
Te	214.275	STD7	STD1-Blank	.907028	-.870203	09/12/95 02:20:09
Th	283.730	STD4	STD1-Blank	4.23798	-.966684	09/12/95 02:20:09
Ti	334.900	STD2	STD1-Blank	1.32196	-.083063	09/12/95 02:20:09
Tl	190.864	STD8	STD1-Blank	16.7579	-.575913	09/12/95 02:20:09
U	378.280	STD6	STD1-Blank	10.0291	-16.7128	09/12/95 02:20:09
V	292.402	STD5	STD1-Blank	1.63253	-.154274	09/12/95 02:20:09
W	224.875	STD9	STD1-Blank	15.7964	-.467046	09/12/95 02:20:09
Y	371.030	STD5	STD1-Blank	3.14611	-.077709	09/12/95 02:20:09
Zn	213.800	STD2	STD1-Blank	.667437	-.021558	09/12/95 02:20:09
Zr	339.100	STD2	STD1-Blank	1.93450	-.151600	09/12/95 02:20:09

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.98963	.211866	09/12/95 02:20:09
Al	308.215	STD3	STD1-Blank	.150058	1.35481	09/12/95 02:20:09
As	193.600	STD5	STD1-Blank	.273769	.591374	09/12/95 02:20:09
B	249.600	STD3	STD1-Blank	1.02079	.099759	09/12/95 02:20:09
Ba	493.400	STD2	STD1-Blank	.817577	.036408	09/12/95 02:20:09
Be	313.042	STD7	STD1-Blank	1.86110	.008955	09/12/95 02:20:09
Bi	223.061	STD8	STD1-Blank	.271993	.506630	09/12/95 02:20:09
Ca	317.900	STD3	STD1-Blank	.317245	.387292	09/12/95 02:20:09
Cd	228.800	STD3	STD1-Blank	.993303	.044095	09/12/95 02:20:09
Ce	418.659	STD5	STD1-Blank	.495698	1.22447	09/12/95 02:20:09
Co	228.600	STD2	STD1-Blank	.874483	.157198	09/12/95 02:20:09
Cr	205.500	STD2	STD1-Blank	.631508	.072789	09/12/95 02:20:09
Cu	324.700	STD2	STD1-Blank	.225040	.198928	09/12/95 02:20:09
Dy	353.170	STD4	STD1-Blank	.989577	.190856	09/12/95 02:20:09
Eu	381.900	STD4	STD1-Blank	.570913	.057510	09/12/95 02:20:09
Fe	259.900	STD2	STD1-Blank	.373206	.145318	09/12/95 02:20:09
K	766.500	STD3	STD1-Blank	.005587	37.5340	09/12/95 02:20:09
La	398.852	STD4	STD1-Blank	.310800	.310275	09/12/95 02:20:09
Li	670.700	STD3	STD1-Blank	.270409	.150513	09/12/95 02:20:09
Mg	279.078	STD2	STD1-Blank	.181471	1.26558	09/12/95 02:20:09
Mn	257.600	STD3	STD1-Blank	.715223	.026565	09/12/95 02:20:09
Mo	202.000	STD2	STD1-Blank	.602848	.129662	09/12/95 02:20:09
Na	588.900	STD2	STD1-Blank	.022861	1.75846	09/12/95 02:20:09
Nd	406.106	STD4	STD1-Blank	.335355	1.06037	09/12/95 02:20:09
Ni	231.600	STD2	STD1-Blank	.302073	.152833	09/12/95 02:20:09
P	214.900	STD3	STD1-Blank	.138685	.901802	09/12/95 02:20:09
Pb	220.300	STD2	STD1-Blank	1.15989	1.11477	09/12/95 02:20:09
Pd	360.959	STD9	STD1-Blank	.390687	3.79981	09/12/95 02:20:09
Rh	343.489	STD9	STD1-Blank	.971670	1.51739	09/12/95 02:20:09
Sb	206.838	STD5	STD1-Blank	.363044	.695050	09/12/95 02:20:09
Se	196.026	STD8	STD1-Blank	.190643	.780340	09/12/95 02:20:09
Si	288.100	STD7	STD1-Blank	.390578	.936390	09/12/95 02:20:09
Sn	242.950	STD9	STD1-Blank	.135777	4.84028	09/12/95 02:20:09
Sr	421.500	STD2	STD1-Blank	.858770	.016225	09/12/95 02:20:09
Te	214.275	STD7	STD1-Blank	1.10250	.870203	09/12/95 02:20:09
Th	283.730	STD4	STD1-Blank	.235961	.966684	09/12/95 02:20:09
Ti	334.900	STD2	STD1-Blank	.756455	.083063	09/12/95 02:20:09
Tl	190.864	STD8	STD1-Blank	.059673	.575913	09/12/95 02:20:09
U	378.280	STD6	STD1-Blank	.099710	16.7128	09/12/95 02:20:09
V	292.402	STD5	STD1-Blank	.612547	.154274	09/12/95 02:20:09
W	224.875	STD9	STD1-Blank	.063306	.467046	09/12/95 02:20:09
Y	371.030	STD5	STD1-Blank	.317853	.077709	09/12/95 02:20:09
Zn	213.800	STD2	STD1-Blank	1.49827	.021558	09/12/95 02:20:09
Zr	339.100	STD2	STD1-Blank	.516930	.151600	09/12/95 02:20:09

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	-.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.00000	.000001
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	.000002	-.000002
		STD3	500.000	500.000	-.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	-.000002
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	.000001	-.000001
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 14:35:34
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0033	-.0001	.0045	-.0001	.0000	-.0008
SDev	.0003	.0026	.0122	.0015	.0001	.0000	.0030
%RSD	32.13	76.42	11100.	32.41	151.8	183.9	382.6
#1	-.0010	-.0060	-.0129	.0047	-.0002	-.0000	-.0034
#2	-.0005	-.0032	.0115	.0029	.0000	.0000	-.0014
#3	-.0009	-.0009	.0010	.0058	-.0001	.0000	.0025

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0001	-.0018	.0000	-.0013	.0047	-.0010
SDev	.0009	.0008	.0041	.0007	.0009	.0004	.0008
%RSD	180.7	1372.	224.9	2318.	65.08	8.208	86.73
#1	-.0009	-.0009	-.0048	-.0003	-.0023	.0047	-.0019
#2	.0006	-.0001	-.0035	-.0004	-.0007	.0043	-.0006
#3	-.0012	.0008	.0028	.0008	-.0009	.0050	-.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0007	-.1909	-.0012	.0004	-.0017	-.0000
SDev	.0001	.0009	.1192	.0002	.0004	.0030	.0002
%RSD	67.68	120.6	62.42	18.21	100.1	181.5	669.1
#1	-.0003	-.0014	-.3222	-.0013	.0007	-.0050	-.0002
#2	-.0002	.0002	-.0895	-.0010	.0004	-.0008	.0000
#3	-.0001	-.0009	-.1611	-.0014	-.0000	.0008	.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0276	-.0039	-.0013	.0091	-.0034	-.0100
SDev	.0010	.0090	.0021	.0021	.0015	.0051	.0122
%RSD	241.7	32.63	52.98	161.4	16.67	150.4	122.6
#1	-.0015	-.0304	-.0063	-.0025	.0106	-.0091	-.0240
#2	.0004	-.0349	-.0034	.0011	.0076	.0008	-.0018
#3	-.0001	-.0175	-.0022	-.0025	.0090	-.0020	-.0041

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0093	.0024	.0020	.0338	-.0054	.0001	-.0076
SDev	.0058	.0041	.0070	.0006	.0152	.0001	.0081
%RSD	62.51	168.0	345.2	1.822	282.0	50.32	106.7
#1	-.0158	-.0019	-.0036	.0338	-.0207	.0001	-.0146
#2	-.0079	.0030	-.0002	.0344	-.0051	.0001	-.0096
#3	-.0044	.0061	.0099	.0331	.0096	.0002	.0013

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0071	-.0003	-.0013	-.0616	-.0011	.0071	-.0005
SDev	.0032	.0002	.0076	.0974	.0005	.0103	.0003

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%RSD	45.39	61.59	566.5	158.1	42.18	145.1	63.82
#1	-.0102	-.0006	-.0061	-.1699	-.0017	.0057	-.0008
#2	-.0038	-.0001	.0075	-.0340	-.0007	-.0025	-.0003
#3	-.0073	-.0003	-.0054	.0190	-.0010	.0180	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0008
SDev	.0012	.0005
%RSD	685.4	65.56
#1	.0004	-.0014
#2	-.0015	-.0006
#3	.0006	-.0004

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Method: ICP1 Sample Name: 2% HNO3 DILUENT PUMP Operator: DRS
Run Time: 09/12/95 14:37:45
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0054	.0061	.0075	.0003	.0001	.0069
SDev	.0002	.0015	.0058	.0011	.0001	.0000	.0077
%RSD	12.18	28.10	96.51	14.79	21.78	45.14	111.6
#1	.0020	.0052	-.0007	.0076	.0003	.0001	.0107
#2	.0020	.0070	.0101	.0063	.0004	.0000	-.0020
#3	.0016	.0040	.0088	.0085	.0003	.0001	.0121

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0360	.0007	.0125	.0015	.0006	.0049	.0012
SDev	.0005	.0012	.0051	.0003	.0013	.0004	.0003
%RSD	1.319	167.9	40.72	16.68	195.4	9.031	25.41
#1	-.0357	.0011	.0097	.0014	.0006	.0046	.0009
#2	-.0365	-.0006	.0095	.0013	.0019	.0054	.0015
#3	-.0357	.0016	.0184	.0018	-.0006	.0046	.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0059	.3878	.0028	.0016	.0116	.0004
SDev	.0002	.0008	.0450	.0004	.0013	.0019	.0001
%RSD	30.82	13.10	11.61	13.87	80.96	16.39	38.97
#1	.0004	.0050	.3401	.0032	.0004	.0097	.0002
#2	.0005	.0066	.4296	.0024	.0015	.0115	.0003
#3	.0007	.0061	.3938	.0028	.0030	.0135	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0144	.0124	.0011	.0145	.0172	.0365
SDev	.0012	.0177	.0024	.0005	.0110	.0055	.0101
%RSD	221.2	122.8	19.10	46.21	76.10	31.73	27.73
#1	-.0008	.0173	.0097	.0017	.0154	.0218	.0263
#2	.0013	.0304	.0138	.0007	.0030	.0187	.0465
#3	.0011	-.0046	.0137	.0010	.0250	.0112	.0366

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	.0077	.0090	.0394	.0423	.0003	.0071
SDev	.0019	.0083	.0047	.0046	.0041	.0001	.0080
%RSD	13.18	107.0	51.88	11.62	9.741	20.83	112.8
#1	.0129	-.0007	.0070	.0356	.0392	.0004	-.0020
#2	.0137	.0082	.0057	.0383	.0470	.0003	.0132
#3	.0165	.0158	.0143	.0445	.0406	.0003	.0100

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	.0006	-.0041	.1722	.0008	.0068	.0008
SDev	.0035	.0001	.0076	.0333	.0003	.0060	.0003

%RSD	58.08	10.64	186.5	19.37	34.68	87.50	35.50
#1	-.0038	.0005	-.0087	.1447	.0011	.0111	.0005
#2	-.0099	.0006	.0047	.2093	.0005	.0094	.0011
#3	-.0042	.0006	-.0082	.1625	.0009	-.0000	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0003	.0012
SDev	.0003	.0004
%RSD	83.57	32.94
#1	-.0006	.0008
#2	-.0005	.0016
#3	-.0000	.0012

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Method: ICP1 Sample Name: "PIPETED" STD1-BLK Operator: DRS
Run Time: 09/12/95 14:40:28
Comment: (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0052	.0070	.0054	.0004	.0000	.0042
SDev	.0002	.0013	.0110	.0016	.0001	.0000	.0101
%RSD	13.20	25.36	156.8	30.49	31.72	8.517	240.4
#1	.0013	.0068	.0115	.0066	.0005	.0000	-.0049
#2	.0016	.0048	-.0055	.0061	.0005	.0000	.0025
#3	.0016	.0042	.0150	.0035	.0003	.0001	.0150

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	-.0012	.0098	.0019	-.0006	.0063	.0014
SDev	.0003	.0005	.0031	.0008	.0010	.0001	.0003
%RSD	3.289	38.36	31.10	44.29	177.6	1.315	18.37
#1	.0101	-.0009	.0128	.0021	-.0002	.0062	.0015
#2	.0106	-.0010	.0099	.0026	.0002	.0063	.0016
#3	.0099	-.0018	.0067	.0010	-.0017	.0064	.0011

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0013	.2923	.0019	.0011	.0098	.0003
SDev	.0002	.0007	.0919	.0002	.0006	.0075	.0003
%RSD	43.40	51.69	31.42	9.294	58.02	76.66	110.9
#1	.0003	.0012	.2685	.0020	.0015	.0046	.0003
#2	.0007	.0021	.3938	.0018	.0004	.0183	-.0001
#3	.0004	.0007	.2148	.0021	.0015	.0064	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0157	.0115	.0021	.0395	.0114	.0381
SDev	.0002	.0197	.0002	.0024	.0100	.0095	.0022
%RSD	21.30	125.5	1.484	113.8	25.39	83.70	5.817
#1	.0006	.0346	.0117	-.0007	.0281	.0004	.0380
#2	.0010	.0172	.0116	.0033	.0472	.0170	.0403
#3	.0008	-.0047	.0113	.0037	.0432	.0167	.0359

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0101	.0108	.0098	.0251	.0373	.0003	.0071
SDev	.0018	.0015	.0040	.0011	.0047	.0001	.0018
%RSD	17.99	14.02	40.99	4.376	12.56	19.46	24.88
#1	.0111	.0091	.0062	.0262	.0338	.0004	.0053
#2	.0112	.0119	.0090	.0250	.0356	.0003	.0073
#3	.0080	.0113	.0141	.0240	.0427	.0003	.0088

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0055	.0005	-.0066	.1838	.0009	.0132	.0005
SDev	.0053	.0001	.0029	.0307	.0005	.0087	.0000

%RSD	95.82	17.15	43.41	16.70	51.10	66.01	3.611
#1	-.0057	.0004	-.0089	.2192	.0010	.0126	.0005
#2	-.0002	.0006	-.0034	.1658	.0014	.0048	.0005
#3	-.0107	.0005	-.0076	.1663	.0004	.0222	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0016
SDev	.0002	.0002
%RSD	20.01	11.12
#1	.0007	.0018
#2	.0008	.0017
#3	.0010	.0015

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Method: ICP1 Sample Name: MCVA @5X Operator: DRS
Run Time: 09/12/95 14:43:49
Comment: MCVA @5X DIL (Ca CONTAMINATIO CHECK)(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0982	5.015	.5176	.4049	.1032	.0190	4.985
SDev	.0002	.052	.0094	.0047	.0011	.0001	.045
%RSD	.2150	1.037	1.806	1.167	1.105	.4825	.9098
#1	.0981	4.957	.5129	.4004	.1019	.0189	4.944
#2	.0984	5.030	.5283	.4045	.1035	.0191	4.978
#3	.0980	5.057	.5114	.4098	.1041	.0190	5.034

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.017	.0983	-.0063	.2098	.2084	.2057	-.0005
SDev	.019	.0004	.0101	.0009	.0026	.0016	.0014
%RSD	.3796	.4383	160.1	.4120	1.228	.8043	285.4
#1	4.996	.0978	.0024	.2105	.2097	.2040	.0011
#2	5.034	.0984	-.0040	.2099	.2055	.2058	-.0011
#3	5.020	.0986	-.0174	.2088	.2101	.2073	-.0015

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	4.177	5.495	.0004	.4029	5.447	.1029
SDev	.0003	.025	.082	.0022	.0126	.048	.0006
%RSD	62.81	.5891	1.493	577.4	3.131	.8872	.5849
#1	.0007	4.149	5.584	.0025	.3897	5.396	.1022
#2	.0005	4.191	5.423	.0005	.4041	5.452	.1033
#3	.0002	4.192	5.477	-.0019	.4148	5.492	.1033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2086	5.257	.0029	.2129	.0380	.5344	.0013
SDev	.0015	.228	.0094	.0024	.0085	.0015	.0195
%RSD	.7435	4.331	323.4	1.111	22.36	.2884	1452.
#1	.2078	5.027	.0136	.2105	.0394	.5332	.0203
#2	.2103	5.263	-.0005	.2129	.0456	.5361	.0024
#3	.2075	5.482	-.0043	.2152	.0288	.5339	-.0187

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.4949	.5154	3.853	-.0158	.1040	-.0022
SDev	.0080	.0095	.0135	.027	.0163	.0010	.0037
%RSD	1767.	1.916	2.615	.7127	103.4	.9383	167.7
#1	.0080	.4840	.5308	3.822	.0003	.1029	.0013
#2	-.0015	.5007	.5060	3.863	-.0153	.1043	-.0060
#3	-.0079	.5001	.5093	3.875	-.0324	.1048	-.0019

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.2016	.5055	.0257	.2010	.0145	.0002
SDev	.0039	.0010	.0098	.1129	.0002	.0097	.0005

%RSD	337.2	.5196	1.937	439.1	.1142	66.68	217.6
#1	.0056	.2003	.4957	.1492	.2009	.0253	.0008
#2	-.0008	.2021	.5053	.0001	.2008	.0066	-.0001
#3	-.0014	.2022	.5153	-.0722	.2013	.0116	-.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2077	.4114
SDev	.0010	.0025
%RSD	.4983	.5983
#1	.2070	.4086
#2	.2071	.4131
#3	.2089	.4126

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 14:46:53
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	-.0100	-.0081	.0030	-.0004	.0000	-.0042
SDev	.0005	.0040	.0007	.0010	.0001	.0000	.0015
%RSD	20.40	39.90	9.234	33.83	38.73	147.7	34.98
#1	-.0025	-.0133	-.0087	.0039	-.0004	.0000	-.0028
#2	-.0021	-.0055	-.0082	.0019	-.0002	.0000	-.0041
#3	-.0031	-.0111	-.0073	.0033	-.0004	.0000	-.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	.0001	-.0144	-.0014	-.0012	.0019	-.0024
SDev	.0012	.0013	.0033	.0005	.0009	.0004	.0006
%RSD	43.20	983.5	23.18	35.13	72.66	23.10	25.80
#1	-.0041	-.0004	-.0176	-.0018	-.0005	.0014	-.0028
#2	-.0016	.0016	-.0109	-.0015	-.0021	.0019	-.0017
#3	-.0028	-.0008	-.0147	-.0008	-.0008	.0022	-.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0013	-.5191	-.0043	-.0020	-.0063	-.0002
SDev	.0001	.0003	.1860	.0012	.0006	.0004	.0002
%RSD	23.33	24.41	35.84	27.93	28.68	6.445	121.5
#1	-.0008	-.0016	-.6265	-.0040	-.0018	-.0067	-.0003
#2	-.0005	-.0009	-.3043	-.0033	-.0015	-.0059	.0000
#3	-.0006	-.0013	-.6265	-.0056	-.0026	-.0065	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	-.0419	-.0154	-.0012	-.0068	-.0105	-.0439
SDev	.0018	.0263	.0030	.0013	.0095	.0082	.0067
%RSD	211.8	62.72	19.26	108.9	140.0	78.07	15.29
#1	-.0027	-.0696	-.0165	-.0027	-.0031	-.0178	-.0503
#2	.0009	-.0172	-.0120	-.0005	.0003	-.0016	-.0369
#3	-.0008	-.0389	-.0177	-.0004	-.0176	-.0121	-.0444

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0202	-.0045	-.0125	.0100	-.0750	.0000	-.0131
SDev	.0053	.0036	.0029	.0047	.0250	.0001	.0048
%RSD	26.42	80.86	23.15	46.89	33.35	299.8	36.63
#1	-.0248	-.0047	-.0102	.0053	-.0831	-.0000	-.0180
#2	-.0144	-.0080	-.0157	.0147	-.0470	.0001	-.0084
#3	-.0214	-.0008	-.0115	.0099	-.0950	-.0000	-.0130

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0069	-.0011	-.0144	-.2240	-.0022	.0075	-.0009
SDev	.0040	.0004	.0067	.0700	.0006	.0125	.0002

%RSD	57.19	32.66	46.63	31.23	29.13	165.5	17.93
#1	-.0098	-.0013	-.0215	-.2674	-.0028	.0171	-.0011
#2	-.0086	-.0007	-.0081	-.1433	-.0015	.0121	-.0008
#3	-.0024	-.0014	-.0136	-.2613	-.0022	-.0066	-.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	-.0021
SDev	.0007	.0005
%RSD	370.4	23.60
#1	-.0006	-.0019
#2	.0003	-.0017
#3	.0008	-.0026

Analysis Report QC Standard Tue 09-12-95 02:51:09 PM page

Method: ICP1 Sample Name: MCVA 950728H901 Operator: DRS
Run Time: 09/12/95 14:49:50
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

FAIL-K DLG 9/11

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4875	25.04	2.563	1.983	.5141	.0935	24.53
SDev	.0020	.18	.013	.013	.0040	.0004	.15
%RSD	.4109	.7351	.4898	.6367	.7787	.4232	.6085
#1	.4891	25.15	2.567	1.986	.5170	.0937	24.66
#2	.4881	25.14	2.573	1.995	.5158	.0936	24.56
#3	.4853	24.83	2.549	1.970	.5095	.0930	24.36
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.80	.4914	-.0420	1.026	1.028	1.014	-.0007
SDev	.07	.0024	.0069	.002	.001	.005	.0008
%RSD	.2632	.4839	16.43	.2140	.1249	.5182	111.7
#1	24.84	.4898	-.0467	1.027	1.028	1.017	-.0015
#2	24.84	.4942	-.0453	1.027	1.030	1.017	-.0009
#3	24.72	.4904	-.0341	1.023	1.027	1.008	.0002
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	20.47	@27.79	.0033	2.030	26.69	.5097
SDev	.0003	.08	.41	.0011	.033	.14	.0027
%RSD	18.23	.4096	1.478	33.16	1.648	.5411	.5293
#1	.0015	20.53	@27.98	.0021	2.052	26.79	.5117
#2	.0017	20.51	@28.07	.0037	2.048	26.76	.5108
#3	.0021	20.38	27.31	.0042	1.992	26.53	.5066
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.032	26.47	.0074	1.051	.0595	2.625	-.0232
SDev	.002	.48	.0061	.008	.0043	.008	.0130
%RSD	.2103	1.831	83.11	.8037	7.190	.3199	55.97
#1	1.032	26.76	.0026	1.055	.0548	2.616	-.0299
#2	1.034	26.74	.0052	1.058	.0605	2.633	-.0314
#3	1.029	25.91	.0143	1.042	.0631	2.627	-.0082
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	2.552	2.495	18.91	-.1076	.5175	-.0115
SDev	.0060	.021	.014	.09	.0236	.0038	.0057
%RSD	96.30	.8310	.5712	.4794	21.91	.7421	49.79
#1	-.0113	2.535	2.510	18.97	-.1336	.5202	-.0140
#2	-.0077	2.576	2.493	18.96	-.1016	.5192	-.0156
#3	.0004	2.546	2.482	18.81	-.0876	.5131	-.0049
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0430	1.003	2.515	.0072	.9938	.0335	.0000
SDev	.0030	.006	.018	.0546	.0042	.0018	.0004
%RSD	7.016	.5713	.7014	754.2	.4209	5.403	1674.
#1	.0398	1.007	2.535	-.0292	.9970	.0314	-.0004
#2	.0432	1.006	2.503	-.0190	.9954	.0345	-.0001
#3	.0458	.9965	2.506	.0700	.9891	.0345	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.057
SDev	.004	.013
%RSD	.3570	.6224
#1	1.017	2.066
#2	1.015	2.063
#3	1.022	2.043
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 02:59:56 PM page 1

Method: ICP1 Sample Name: MCVA 950728H901 Operator: DRS
Run Time: 09/12/95 14:58:37
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DLW 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4846	24.53	2.548	1.969	.5078	.0927	24.35
SDev	.0037	.25	.018	.019	.0047	.0006	.21
%RSD	.7619	1.005	.6936	.9815	.9210	.6149	.8461
#1	.4814	24.37	2.528	1.961	.5047	.0924	24.22
#2	.4886	24.81	2.559	1.991	.5132	.0934	24.59
#3	.4839	24.41	2.558	1.955	.5055	.0924	24.25
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.67	.4973	-.0269	1.026	1.026	1.005	.0010
SDev	.12	.0044	.0069	.004	.005	.010	.0009
%RSD	.4846	.8769	25.68	.4152	.4508	1.009	85.02
#1	24.60	.4990	-.0217	1.024	1.024	.9965	.0021
#2	24.80	.5006	-.0347	1.031	1.032	1.016	.0005
#3	24.59	.4924	-.0242	1.022	1.023	1.002	.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	20.35	26.21	.0061	1.920	26.52	.5062
SDev	.0004	.12	.53	.0011	.039	.20	.0027
%RSD	17.47	.5990	2.040	18.72	2.030	.7604	.5288
#1	.0027	20.27	25.94	.0074	1.894	26.42	.5053
#2	.0019	20.49	26.83	.0059	1.965	26.75	.5092
#3	.0024	20.29	25.87	.0051	1.901	26.39	.5041
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.028	25.57	.0137	1.053	.0583	2.627	-.0004
SDev	.009	.49	.0051	.006	.0248	.013	.0129
%RSD	.8969	1.928	37.67	.5371	42.55	.4977	2986.
#1	1.022	25.23	.0158	1.054	.0449	2.634	.0106
#2	1.039	26.13	.0078	1.059	.0431	2.636	-.0147
#3	1.024	25.34	.0173	1.047	.0869	2.612	.0028
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	2.541	2.466	18.76	-.0494	.5112	.0012
SDev	.0076	.012	.047	.15	.0115	.0047	.0045
%RSD	74.78	.4541	1.887	.7894	23.30	.9207	380.0
#1	.0184	2.529	2.467	18.66	-.0404	.5079	.0031
#2	.0033	2.542	2.513	18.93	-.0454	.5166	-.0040
#3	.0089	2.552	2.420	18.69	-.0624	.5091	.0044
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0367	.9946	2.516	.1962	.9882	.0295	.0002
SDev	.0035	.0082	.018	.1009	.0060	.0095	.0002
%RSD	9.472	.8226	.7125	51.44	.6040	32.33	67.10
#1	.0374	.9888	2.504	.3128	.9843	.0231	.0003
#2	.0329	1.004	2.536	.1406	.9951	.0405	.0001
#3	.0397	.9911	2.507	.1354	.9853	.0249	.0004
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.042
SDev	.007	.015
%RSD	.7124	.7221
#1	1.010	2.032
#2	1.025	2.059
#3	1.019	2.035
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 03:03:47 PM page :

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 15:02:27
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Te, U, Wallhorn
PASS
DLG 9/12/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.1934	-.0100	.0096	-.0001	.0002	-.0045
SDev	.0012	.0092	.0083	.0020	.0001	.0000	.0062
%RSD	125.8	4.754	83.31	20.89	193.5	6.546	137.3
#1	.0004	-.1845	-.0018	.0089	.0001	.0002	-.0017
#2	-.0021	-.1930	-.0185	.0119	-.0002	.0002	-.0002
#3	-.0012	-.2029	-.0098	.0081	-.0002	.0003	-.0116
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0116	.0004	1.968	.0008	.0013	-.0051	2.004
SDev	.0018	.0011	.017	.0008	.0007	.0016	.020
%RSD	15.29	277.3	.8549	102.0	55.42	31.10	1.009
#1	.0134	.0016	1.960	.0017	.0005	-.0040	1.986
#2	.0099	-.0006	1.957	.0004	.0016	-.0044	2.001
#3	.0114	.0002	1.987	.0003	.0018	-.0070	2.026
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.991	.0033	-.2557	2.004	.0006	.0750	.0004
SDev	.019	.0006	.1563	.016	.0008	.0137	.0001
%RSD	.9712	18.31	61.11	.8130	134.4	18.23	41.04
#1	1.974	.0040	-.0756	1.990	.0011	.0901	.0004
#2	1.987	.0030	-.3371	1.999	.0011	.0713	.0004
#3	2.012	.0029	-.3545	2.022	-.0003	.0635	.0002
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	-.0072	1.963	.0044	-.0103	.0400	2.144
SDev	.0013	.0168	.017	.0005	.0128	.0064	.018
%RSD	88.20	232.5	.8691	11.86	124.4	15.92	.8250
#1	-.0003	.0119	1.951	.0039	-.0246	.0432	2.156
#2	-.0028	-.0143	1.955	.0049	-.0000	.0327	2.124
#3	-.0012	-.0193	1.983	.0044	-.0062	.0442	2.152
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.024	.0007	.0099	.0406	2.032	.0000	Q1.779
SDev	.009	.0108	.0069	.0008	.040	.0001	.019
%RSD	.4406	1533.	69.94	1.843	1.974	533.1	1.059
#1	2.015	.0128	.0097	.0415	2.064	.0001	Q1.766
#2	2.026	-.0083	.0030	.0405	1.987	.0001	Q1.770
#3	2.032	-.0024	.0168	.0400	2.046	-.0001	1.800
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.066	.0003	.0050	Q8.494	-.0029	Q.5029	.9724
SDev	.053	.0005	.0078	.126	.0011	.0125	.0082
%RSD	1.051	161.9	155.4	1.486	37.49	2.478	.8403
#1	5.022	.0008	.0035	Q8.469	-.0017	Q.4909	.9660
#2	5.051	.0002	-.0019	Q8.382	-.0038	Q.5021	.9695
#3	5.125	-.0001	.0135	Q8.631	-.0030	Q.5158	.9816
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0117
SDev	.0004	.0006
%RSD	27.77	5.423
#1	.0013	-.0121
#2	.0021	-.0110
#3	.0014	-.0121
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 03:07:48 PM page

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 15:06:29
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0020	Q.0921	Q.0723	Q.1167	.0495	.0217	.0061
SDev	.0008	.0074	.0079	.0020	.0003	.0001	.0021
%RSD	40.15	8.072	10.97	1.711	.6569	.5261	34.20
#1	Q-.0013	Q.1001	.0810	Q.1146	.0492	.0216	.0072
#2	Q-.0019	Q.0906	Q.0704	.1186	.0493	.0217	.0075
#3	Q-.0029	Q.0855	Q.0654	Q.1169	.0498	.0218	.0037
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q34.85	Q.0135	-.0142	Q.0202	.0186	Q.0156	-.0032
SDev	.14	.0007	.0050	.0009	.0005	.0010	.0006
%RSD	.3984	4.924	35.12	4.689	2.566	6.667	18.47
#1	Q34.69	.0127	-.0109	Q.0198	.0192	Q.0151	-.0026
#2	Q34.91	Q.0140	-.0117	Q.0213	.0185	Q.0168	-.0033
#3	Q34.95	Q.0136	-.0199	Q.0195	Q.0182	Q.0149	-.0038
Errors	QC Fail	QC Fail	NOCHECK	QC Fail	QC Pass	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	Q.1168	Q1.953	.0010	Q.0110	Q9.940	.0346
SDev	.0003	.0008	.126	.0008	.0011	.031	.0003
%RSD	526.1	.6720	6.459	81.43	10.41	.3111	.9562
#1	.0002	Q.1165	Q2.034	.0019	Q.0102	Q9.906	.0342
#2	.0002	Q.1177	Q2.017	.0006	Q.0124	Q9.947	.0347
#3	-.0003	Q.1163	Q1.807	.0005	Q.0105	Q9.966	.0348
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1025	Q13.06	-.0089	.0563	.0066	Q.0215	-.0588
SDev	.0013	.11	.0036	.0024	.0029	.0109	.0130
%RSD	1.247	.8772	40.86	4.341	43.19	50.90	22.03
#1	Q.1018	Q12.96	-.0098	.0536	.0096	Q.0237	-.0528
#2	Q.1018	Q13.03	-.0049	.0582	.0039	Q.0311	-.0499
#3	.1040	Q13.19	-.0120	.0573	.0064	Q.0096	-.0737
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0239	-.0065	Q-.0004	.0043	-.0859	.2647	-.0124
SDev	.0070	.0043	.0115	.0019	.0250	.0020	.0069
%RSD	29.13	66.01	2799.	43.36	29.07	.7603	55.42
#1	-.0172	-.0040	Q-.0083	.0051	-.0751	.2629	-.0088
#2	-.0235	-.0115	.0128	.0056	-.0682	.2643	-.0081
#3	-.0311	-.0040	Q-.0057	.0022	-.1145	Q.2669	-.0204
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0089	.0070	.0105	-.0653	Q.0262	.0035	-.0027
SDev	.0009	.0001	.0030	.0618	.0008	.0073	.0003
%RSD	10.23	2.175	28.23	94.68	3.076	210.8	10.87
#1	-.0082	.0071	.0084	-.0498	Q.0263	.0117	-.0024
#2	-.0085	.0072	Q.0139	-.0127	Q.0270	.0007	-.0028
#3	-.0099	.0069	.0092	-.1334	Q.0254	-.0021	-.0030
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0849	-.0024
SDev	.0010	.0009
%RSD	1.199	40.10
#1	Q.0847	-.0017
#2	Q.0860	-.0019
#3	Q.0840	-.0035
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Tue 09-12-95 03:12:16 PM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 15:10:57
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	1.885	1.988	1.923	1.007	.9548	1.899
SDev	.0003	.016	.003	.015	.007	.0064	.015
%RSD	46.00	.8521	.1585	.7830	.6486	.6661	.8058
#1	-.0003	1.874	1.989	1.910	1.004	.9511	1.917
#2	-.0008	1.878	1.985	1.918	1.003	.9511	1.892
#3	-.0006	1.903	1.991	1.939	1.015	.9621	1.889

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.903	.9803	.0031	1.034	.5141	2.048	-.0003
SDev	.011	.0052	.0021	.005	.0043	.015	.0002
%RSD	.5847	.5349	66.49	.5204	.8465	.7207	61.06
#1	1.897	.9787	.0007	1.031	.5094	2.039	-.0001
#2	1.895	.9760	.0045	1.030	.5151	2.040	-.0004
#3	1.916	.9862	.0040	1.040	.5179	2.065	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	2.006	5.295	-.0009	2.025	2.087	1.006
SDev	.0000	.012	.122	.0009	.010	.012	.007
%RSD	13.91	.6171	2.305	108.4	.5150	.5684	.7042
#1	.0002	2.002	5.242	-.0017	2.013	2.078	1.002
#2	.0002	1.997	5.434	.0001	2.029	2.081	1.002
#3	.0002	2.020	5.207	-.0010	2.033	2.100	1.014

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.997	8.750	-.0026	2.090	4.751	2.057	-.0046
SDev	.009	.075	.0005	.014	.016	.010	.0017
%RSD	.4404	.8610	18.45	.6655	.3405	.5042	36.46
#1	1.989	8.664	-.0021	2.077	4.768	2.050	-.0028
#2	1.995	8.804	-.0025	2.087	4.736	2.052	-.0049
#3	2.006	8.782	-.0031	2.104	4.750	2.069	-.0062

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	-.0042	1.941	4.891	.0083	2.032	-.0197
SDev	.0011	.0101	.022	.027	.0094	.013	.0109
%RSD	33.08	238.9	1.136	.5518	113.0	.6621	55.28
#1	.0045	.0057	1.953	4.873	.0129	2.024	-.0234
#2	.0031	-.0144	1.915	4.878	.0146	2.025	-.0074
#3	.0023	-.0040	1.954	4.922	-.0025	2.048	-.0281

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0004	1.939	.0102	.9600	.0110	.0001
SDev	.0033	.0002	.019	.0656	.0051	.0042	.0003

%RSD	96.44	46.69	.9650	645.8	.5341	38.00	305.1
#1	.0071	.0002	1.942	.0079	.9567	.0157	.0001
#2	.0005	.0005	1.919	.0768	.9574	.0094	.0004
#3	.0028	.0004	1.956	-.0543	.9659	.0079	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.027	-.0011
SDev	.006	.0003
%RSD	.6311	22.83
#1	1.023	-.0012
#2	1.023	-.0008
#3	1.034	-.0013

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Method: ICP1 Sample Name: SST-ICS-1 9509[illegible]I101 Operator: DRS
Run Time: 09/12/95 15:18:41
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0054	89.85	.1300	.0026	.0006	.0008	.0601
SDev	.0011	1.31	.0079	.0011	.0002	.0000	.0061
%RSD	20.79	1.461	6.044	43.01	31.21	5.877	10.22
#1	-.0058	90.22	.1354	.0015	.0006	.0007	.0579
#2	-.0042	88.39	.1336	.0038	.0009	.0008	.0671
#3	-.0064	90.93	.1210	.0025	.0005	.0007	.0554

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0433	.0103	-.0917	.0078	.0379	-.0143	.0007
SDev	.0011	.0016	.0131	.0016	.0013	.0026	.0011
%RSD	2.477	15.95	14.24	20.08	3.286	18.08	155.0
#1	.0421	.0122	-.0974	.0069	.0369	-.0169	.0003
#2	.0440	.0097	-.0767	.0096	.0375	-.0117	.0020
#3	.0439	.0091	-.1009	.0069	.0393	-.0145	-.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	17.89	.4591	.0098	.0115	.2921	.0021
SDev	.0004	.18	.2480	.0024	.0009	.0087	.0003
%RSD	21.26	.9827	54.02	25.06	8.264	2.972	11.87
#1	.0016	17.94	.3429	.0103	.0119	.2868	.0018
#2	.0024	17.70	.7439	.0119	.0122	.3021	.0022
#3	.0018	18.04	.2906	.0071	.0104	.2873	.0023

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	3639.	.0044	46.46	.1017	.2197	-.3125
SDev	.0022	49.	.0098	.42	.0212	.0112	.0268
%RSD	21.60	1.346	223.4	.9039	20.83	5.088	8.561
#1	.0093	3653.	-.0005	46.59	.0775	.2166	-.3200
#2	.0127	3585.	.0157	45.99	.1168	.2322	-.2829
#3	.0086	3680.	-.0020	46.80	.1108	.2105	-.3348

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0260	.0420	-.0034	.1905	.0003	.0191
SDev	.0104	.0053	.0074	.0078	.0144	.0001	.0100
%RSD	97.52	20.18	17.72	229.0	7.586	40.78	52.25
#1	.0084	.0245	.0337	-.0101	.1806	.0002	.0198
#2	.0220	.0319	.0480	.0052	.2071	.0004	.0286
#3	.0016	.0218	.0443	-.0053	.1838	.0002	.0088

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6802	.0033	.2150	44.54	.0053	.0681	.0051
SDev	.0070	.0006	.0152	.49	.0014	.0060	.0005

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%RSD	1.024	17.09	7.072	1.100	26.89	8.812	10.35
#1	.6790	.0032	.2318	44.76	.0045	.0615	.0045
#2	.6739	.0039	.2021	43.97	.0069	.0733	.0056
#3	.6877	.0028	.2111	44.87	.0045	.0694	.0051

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0273	9.329
SDev	.0025	.114
%RSD	9.007	1.220
#1	-.0298	9.368
#2	-.0249	9.201
#3	-.0272	9.418

Analysis Report Tue 09-12-95 03:25:20 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 15:24:00
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0041	-.0048	-.0005	-.0001	.0000	.0036
SDev	.0003	.0031	.0057	.0014	.0001	.0000	.0065
%RSD	73.43	74.09	118.0	287.8	85.95	2.626	181.4
#1	.0005	-.0006	-.0052	-.0018	-.0000	.0000	.0049
#2	.0001	-.0062	.0011	.0010	-.0000	.0000	.0093
#3	.0007	-.0055	-.0102	-.0006	-.0002	.0000	-.0035

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0032	.0011	.0220	-.0004	-.0019	-.0031	-.0000
SDev	.0007	.0014	.0040	.0004	.0010	.0010	.0004
%RSD	20.47	128.6	17.93	93.90	53.80	33.65	1970.
#1	-.0025	.0028	.0181	-.0006	-.0030	-.0025	.0002
#2	-.0037	.0002	.0219	.0000	-.0013	-.0025	.0002
#3	-.0034	.0004	.0260	-.0006	-.0013	-.0043	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0012	.0232	-.0002	.0006	-.0096	.0001
SDev	.0001	.0005	.0439	.0002	.0004	.0029	.0001
%RSD	46.76	43.47	188.7	101.3	69.59	30.69	102.3
#1	.0003	-.0007	.0639	-.0003	.0004	-.0103	.0001
#2	.0002	-.0012	.0291	.0000	.0011	-.0121	.0001
#3	.0002	-.0018	-.0232	-.0003	.0004	-.0064	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.1079	.0002	.0021	.0003	.0001	.0013
SDev	.0007	.0091	.0005	.0014	.0275	.0018	.0076
%RSD	42.67	8.459	222.6	66.53	9042.	1596.	574.8
#1	-.0011	.1181	.0001	.0036	-.0144	.0022	.0075
#2	-.0014	.1006	-.0002	.0010	-.0167	-.0008	.0036
#3	-.0024	.1050	.0007	.0016	.0320	-.0010	-.0071

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0017	-.0015	-.0188	.0181	.0001	-.0029
SDev	.0020	.0056	.0072	.0012	.0191	.0000	.0043
%RSD	92.22	333.0	462.9	6.399	105.6	.5646	145.9
#1	.0041	-.0027	-.0098	-.0191	.0305	.0001	.0002
#2	.0025	.0080	.0033	-.0198	-.0039	.0001	-.0078
#3	.0000	-.0002	.0019	-.0174	.0276	.0001	-.0012

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	-.0000	-.0027	.0428	.0003	.0073	.0003
SDev	.0033	.0000	.0119	.0046	.0002	.0051	.0002

%RSD	43.29	8.428	439.3	10.82	55.17	69.82	67.59
#1	-.0069	-.0000	-.0154	.0422	.0004	.0051	.0005
#2	-.0111	-.0000	-.0008	.0477	.0005	.0131	.0002
#3	-.0047	-.0000	.0081	.0385	.0001	.0036	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	.0005
SDev	.0006	.0001
%RSD	139.3	25.59
#1	.0011	.0005
#2	.0002	.0006
#3	.0000	.0004

Analysis Report Tue 09-12-95 03:27:31 PM page

Method: ICP1 Sample Name: 95-007941-N3 @5 Operator: DRS
Run Time: 09/12/95 15:26:11
Comment: METHOD BLANK @5X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0077	.0365	.0058	.1309	.0024	.0002	.0100
SDev	.0014	.0049	.0099	.0026	.0003	.0000	.0100
%RSD	18.52	13.43	171.8	1.990	12.51	18.08	99.27
#1	-.0086	.0324	.0167	.1327	.0024	.0002	.0086
#2	-.0084	.0351	.0033	.1279	.0022	.0001	.0207
#3	-.0060	.0419	-.0027	.1320	.0028	.0002	.0009

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8145	.0014	-.1310	.0032	.0096	.0022	.0049
SDev	.0054	.0007	.0094	.0017	.0028	.0003	.0010
%RSD	.6651	49.58	7.156	52.24	29.20	11.43	20.35
#1	.8180	.0011	-.1321	.0027	.0063	.0021	.0045
#2	.8172	.0009	-.1398	.0019	.0109	.0020	.0042
#3	.8082	.0021	-.1212	.0051	.0114	.0025	.0061

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0640	.5986	.0059	.0065	.0274	.0019
SDev	.0003	.0005	.2166	.0014	.0008	.0045	.0002
%RSD	16.97	.7569	36.18	24.35	12.71	16.47	10.16
#1	.0016	.0644	.4649	.0053	.0061	.0255	.0017
#2	.0017	.0641	.4824	.0049	.0061	.0242	.0019
#3	.0022	.0634	.8485	.0076	.0075	.0325	.0021

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	2171.	.0221	.0976	.0271	.0291	.0062
SDev	.0003	19.	.0055	.0015	.0061	.0049	.0237
%RSD	9.561	.8543	25.00	1.561	22.55	16.94	383.7
#1	.0034	2181.	.0182	.0963	.0250	.0256	-.0149
#2	.0034	2181.	.0198	.0993	.0339	.0270	.0017
#3	.0040	2149.	.0285	.0972	.0223	.0348	.0318

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0185	.0159	.0162	.0467	.1318	.0132	.0140
SDev	.0030	.0101	.0072	.0039	.0214	.0002	.0035
%RSD	16.43	63.37	44.25	8.318	16.24	1.414	25.38
#1	.0190	.0181	.0083	.0423	.1186	.0134	.0108
#2	.0152	.0049	.0180	.0491	.1202	.0131	.0133
#3	.0213	.0247	.0224	.0489	.1564	.0130	.0178

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0572	.0029	.0103	-.0574	.0030	.0108	.0019
SDev	.0048	.0004	.0054	.1048	.0007	.0092	.0004

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%RSD	8.411	15.44	52.87	182.5	24.16	85.98	22.95
#1	.0591	.0027	.0118	-.1369	.0025	.0056	.0019
#2	.0608	.0025	.0042	-.0968	.0027	.0214	.0015
#3	.0517	.0034	.0147	.0614	.0039	.0052	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0037	9.937
SDev	.0006	.092
%RSD	15.26	.9262
#1	.0043	9.989
#2	.0032	9.992
#3	.0035	9.831

Analysis Report Tue 09-12-95 03:31:45 PM page 1

Method: ICP1 Sample Name: 95-007941-N3 @2 Operator: DRS
Run Time: 09/12/95 15:30:25
Comment: METHOD BLANK @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0166	.0900	.0215	.3049	.0061	.0004	.0353
SDev	.0014	.0035	.0082	.0023	.0003	.0000	.0026
%RSD	8.271	3.854	37.99	.7654	4.582	7.680	7.287
#1	-.0151	.0925	.0268	.3027	.0064	.0004	.0351
#2	-.0178	.0860	.0121	.3045	.0059	.0004	.0328
#3	-.0168	.0915	.0256	.3074	.0059	.0004	.0379

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.950	.0039	-.3126	.0087	.0257	.0119	.0126
SDev	.005	.0007	.0097	.0003	.0025	.0020	.0006
%RSD	.2600	17.73	3.101	3.885	9.816	17.08	4.757
#1	1.945	.0043	-.3028	.0090	.0263	.0134	.0133
#2	1.955	.0043	-.3126	.0083	.0229	.0128	.0122
#3	1.951	.0031	-.3222	.0089	.0279	.0096	.0124

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.1427	1.761	.0153	.0146	.0604	.0045
SDev	.0003	.0003	.192	.0010	.0019	.0051	.0001
%RSD	6.916	.2016	10.91	6.353	13.05	8.412	2.576
#1	.0050	.1426	1.982	.0164	.0168	.0600	.0046
#2	.0044	.1425	1.633	.0149	.0132	.0556	.0044
#3	.0046	.1430	1.668	.0146	.0139	.0657	.0044

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0071	4186.	.0641	.2299	.0762	.0623	.0238
SDev	.0003	53.	.0064	.0036	.0011	.0052	.0176
%RSD	3.987	1.273	9.926	1.585	1.426	8.374	73.69
#1	.0072	4125.	.0715	.2326	.0774	.0683	.0434
#2	.0068	4220.	.0606	.2314	.0758	.0594	.0093
#3	.0073	4214.	.0603	.2258	.0753	.0591	.0189

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0504	.0398	.0452	.1445	.2567	.0301	.0267
SDev	.0063	.0020	.0057	.0028	.0162	.0001	.0047
%RSD	12.47	5.034	12.57	1.948	6.325	.4765	17.42
#1	.0576	.0398	.0409	.1476	.2735	.0300	.0290
#2	.0460	.0418	.0430	.1420	.2556	.0302	.0214
#3	.0476	.0378	.0516	.1440	.2411	.0302	.0299

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1445	.0071	.0249	.0390	.0074	.0291	.0047
SDev	.0036	.0005	.0023	.1270	.0009	.0052	.0001

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%RSD	2.482	7.612	9.261	325.3	12.76	17.86	2.678
#1	.1467	.0077	.0233	.1525	.0085	.0351	.0048
#2	.1404	.0069	.0240	.0627	.0068	.0260	.0048
#3	.1465	.0066	.0276	-.0981	.0069	.0261	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0102	22.98
SDev	.0007	.15
%RSD	7.013	.6575
#1	.0094	22.81
#2	.0105	23.09
#3	.0108	23.05

Analysis Report Tue 09-12-95 03:36:42 PM page 1

Method: ICP1 Sample Name: 95-007941-N1 @10 Operator: DRS
Run Time: 09/12/95 15:35:23
Comment: SEGMENT 1 @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	15.30	.0244	.1030	.0028	.0001	.0081
SDev	.0005	.08	.0018	.0026	.0001	.0000	.0022
%RSD	10.02	.5478	7.400	2.495	2.442	8.801	26.82
#1	.0047	15.36	.0229	.1002	.0029	.0002	.0090
#2	.0057	15.34	.0239	.1035	.0028	.0002	.0098
#3	.0053	15.21	.0264	.1053	.0029	.0001	.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4168	.0013	.0375	.0045	.0195	.0110	.0050
SDev	.0011	.0002	.0041	.0010	.0016	.0013	.0005
%RSD	.2700	16.50	10.82	21.84	8.214	11.98	10.51
#1	.4156	.0014	.0338	.0034	.0211	.0110	.0048
#2	.4178	.0010	.0369	.0052	.0195	.0097	.0047
#3	.4169	.0013	.0419	.0049	.0179	.0123	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.1575	1.075	.0085	.0099	.0330	.0037
SDev	.0001	.0010	.136	.0024	.0014	.0035	.0002
%RSD	7.806	.6241	12.67	28.68	13.76	10.54	4.848
#1	.0015	.1572	1.005	.0061	.0093	.0368	.0039
#2	.0017	.1586	.9880	.0084	.0115	.0299	.0036
#3	.0018	.1567	1.232	.0109	.0090	.0324	.0036

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	1133.	.0310	.0701	.5635	.0441	.0876
SDev	.0004	9.	.0049	.0009	.0092	.0028	.0147
%RSD	9.684	.8036	15.83	1.303	1.630	6.279	16.75
#1	.0043	1140.	.0258	.0711	.5626	.0411	.0727
#2	.0037	1135.	.0316	.0698	.5548	.0447	.0881
#3	.0037	1123.	.0356	.0694	.5731	.0466	.1020

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0438	.0162	.0058	.3741	.1457	.0088	.0213
SDev	.0040	.0037	.0116	.0037	.0292	.0001	.0018
%RSD	9.104	22.63	200.9	.9811	20.02	.8705	8.339
#1	.0408	.0147	.0185	.3703	.1531	.0089	.0232
#2	.0423	.0204	-.0040	.3744	.1136	.0089	.0207
#3	.0483	.0136	.0027	.3777	.1705	.0088	.0198

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0074	.0374	.5447	.0105	.0200	.0019
SDev	.0039	.0001	.0016	.1110	.0005	.0032	.0003

%RSD	197.0	1.871	4.363	20.37	4.437	15.90	15.51
#1	-.0000	.0075	.0364	.4859	.0103	.0212	.0018
#2	.0005	.0074	.0366	.4755	.0101	.0164	.0018
#3	-.0065	.0073	.0393	.6728	.0110	.0224	.0023

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0059	.0506
SDev	.0013	.0042
%RSD	22.65	8.362
#1	.0044	.0470
#2	.0061	.0495
#3	.0070	.0553

Analysis Report Tue 09-12-95 03:41:12 PM page

Method: ICP1 Sample Name: 95-007941-N1 @2 Operator: DRS
Run Time: 09/12/95 15:39:53
Comment: SEGMENT 1 @2X DILL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	69.08	.1105	.4589	.0102	.0004	.0397
SDev	.0007	.42	.0019	.0044	.0001	.0000	.0034
%RSD	5.852	.6144	1.765	.9565	.6999	4.600	8.447
#1	.0110	69.28	.1124	.4619	.0102	.0004	.0432
#2	.0123	68.59	.1107	.4538	.0102	.0005	.0365
#3	.0121	69.36	.1085	.4608	.0103	.0004	.0394

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.031	.0049	.0983	.0132	.0842	.0596	.0122
SDev	.011	.0014	.0059	.0008	.0026	.0005	.0004
%RSD	.5435	28.11	6.036	6.347	3.069	.8243	3.035
#1	2.033	.0059	.0918	.0127	.0813	.0601	.0119
#2	2.020	.0033	.1035	.0142	.0848	.0591	.0126
#3	2.041	.0056	.0996	.0128	.0864	.0595	.0122

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	.6802	2.976	.0241	.0342	.1232	.0158
SDev	.0002	.0046	.070	.0009	.0017	.0061	.0002
%RSD	4.678	.6792	2.344	3.721	4.971	4.928	1.309
#1	.0037	.6812	2.906	.0231	.0329	.1233	.0157
#2	.0040	.6752	3.045	.0246	.0336	.1171	.0158
#3	.0040	.6843	2.976	.0246	.0362	.1292	.0161

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0161	3963.	.0824	.3127	2.528	.1533	.2165
SDev	.0007	11.	.0027	.0020	.035	.0034	.0126
%RSD	4.529	.2716	3.269	.6530	1.401	2.191	5.835
#1	.0153	3970.	.0822	.3117	2.531	.1536	.2029
#2	.0168	3951.	.0852	.3113	2.491	.1498	.2279
#3	.0163	3968.	.0799	.3150	2.561	.1565	.2187

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1010	.0473	.0479	1.753	.3154	.0383	.0467
SDev	.0033	.0102	.0082	.015	.0143	.0002	.0049
%RSD	3.231	21.59	17.13	.8807	4.540	.5518	10.52
#1	.1000	.0438	.0386	1.754	.2989	.0384	.0410
#2	.1046	.0589	.0506	1.737	.3228	.0380	.0495
#3	.0983	.0393	.0543	1.768	.3245	.0384	.0495

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0295	.1690	1.350	.0376	.0419	.0049
SDev	.0047	.0002	.0067	.111	.0001	.0092	.0003

%RSD	171.5	.7415	3.970	8.237	.2668	21.82	5.625
#1	.0033	.0297	.1613	1.269	.0375	.0316	.0049
#2	-.0022	.0295	.1736	1.476	.0377	.0454	.0051
#3	.0072	.0293	.1721	1.303	.0376	.0489	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0279	.2101
SDev	.0011	.0054
%RSD	3.966	2.596
#1	.0268	.2071
#2	.0290	.2069
#3	.0280	.2164

Analysis Report Tue 09-12-95 03:47:15 PM page

Method: ICP1 Sample Name: 95-007941-N1 ~~SPK02.5~~ P.585 BK 9/11/95 Operator: DRS
Run Time: 09/12/95 15:45:55 5x DB 9/11/95
Comment: SEGMENT 1 POST DIGEST SPIKE ~~02.5~~ DIL(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	34.23	.0884	.1783	.0065	.0007	.0493
SDev	.0005	.22	.0091	.0024	.0001	.0000	.0079
%RSD	3.118	.6388	10.34	1.371	1.072	1.654	16.03
#1	.0172	33.98	.0828	.1809	.0065	.0007	.0489
#2	.0162	34.32	.0835	.1780	.0066	.0007	.0415
#3	.0170	34.39	.0989	.1760	.0065	.0007	.0573

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.902	.2187	.1187	.0159	1.293	.0248	.0144
SDev	.033	.0032	.0019	.0011	.013	.0005	.0003
%RSD	.6759	1.484	1.647	6.736	1.020	2.160	2.262
#1	4.865	.2150	.1206	.0169	1.280	.0251	.0146
#2	4.912	.2202	.1167	.0147	1.295	.0242	.0140
#3	4.928	.2210	.1187	.0161	1.306	.0250	.0146

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.2788	18.78	.0305	.0230	.2067	.0901
SDev	.0001	.0022	.11	.0005	.0002	.0099	.0007
%RSD	2.976	.7855	.5671	1.641	.9030	4.809	.7404
#1	.0048	.2763	18.67	.0307	.0229	.2167	.0893
#2	.0050	.2805	18.81	.0299	.0232	.2067	.0902
#3	.0051	.2795	18.88	.0308	.0229	.1968	.0906

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0107	1853.	.0972	4.430	1.019	4.587	.1621
SDev	.0010	10.	.0071	.038	.011	.046	.0087
%RSD	9.540	.5465	7.289	.8670	1.122	.9930	5.364
#1	.0103	1841.	.1036	4.386	1.027	4.535	.1722
#2	.0119	1858.	.0896	4.444	1.006	4.617	.1572
#3	.0100	1859.	.0984	4.459	1.023	4.610	.1570

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1250	.0451	.0633	9.100	.4699	.0156	.0621
SDev	.0030	.0118	.0052	.063	.0067	.0001	.0045
%RSD	2.366	26.13	8.291	.6950	1.423	.6936	7.203
#1	.1263	.0315	.0616	9.027	.4774	.0155	.0647
#2	.1216	.0512	.0591	9.129	.4646	.0156	.0570
#3	.1271	.0525	.0691	9.143	.4676	.0158	.0647

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2415	.0170	.1109	17.17	.0247	.0489	.0074
SDev	.0112	.0002	.0077	.12	.0003	.0146	.0005

%RSD	4.629	1.409	6.990	.7228	1.256	29.80	6.773
#1	.2431	.0172	.1021	17.03	.0247	.0390	.0076
#2	.2296	.0168	.1167	17.26	.0244	.0420	.0068
#3	.2517	.0172	.1138	17.23	.0250	.0657	.0078

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0097	.4829
SDev	.0010	.0046
%RSD	10.46	.9561
#1	.0086	.4776
#2	.0099	.4864
#3	.0106	.4846

Analysis Report Tue 09-12-95 03:52:58 PM page

Method: ICP1 Sample Name: 95-007941-N2 @10 Operator: DRS
Run Time: 09/12/95 15:51:39
Comment: SEGMENT 1 DUP @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0102	13.75	.0373	.1086	.0043	.0003	.0343
SDev	.0006	.11	.0032	.0027	.0001	.0000	.0067
%RSD	5.706	.8281	8.507	2.493	3.239	3.564	19.65
#1	.0096	13.63	.0406	.1085	.0044	.0003	.0360
#2	.0102	13.77	.0342	.1059	.0042	.0003	.0400
#3	.0108	13.86	.0372	.1113	.0042	.0003	.0269

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3780	.0027	.0654	.0098	.0199	.0065	.0118
SDev	.0023	.0004	.0047	.0008	.0023	.0008	.0004
%RSD	.6112	15.59	7.115	8.624	11.60	12.60	3.624
#1	.3756	.0030	.0699	.0107	.0173	.0074	.0123
#2	.3782	.0030	.0658	.0096	.0218	.0059	.0116
#3	.3802	.0023	.0606	.0091	.0205	.0061	.0115

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	.1542	2.551	.0203	.0152	.0584	.0038
SDev	.0001	.0004	.113	.0011	.0006	.0008	.0002
%RSD	1.428	.2395	4.446	5.559	3.623	1.286	4.735
#1	.0035	.1537	2.662	.0214	.0147	.0581	.0037
#2	.0036	.1545	2.557	.0204	.0158	.0579	.0037
#3	.0036	.1543	2.435	.0192	.0151	.0593	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	1015.	.0711	.0775	.0925	.0822	.1964
SDev	.0004	7.	.0068	.0007	.0143	.0029	.0098
%RSD	6.010	.6419	9.565	.9378	15.51	3.595	4.982
#1	.0072	1009.	.0785	.0767	.1064	.0790	.2077
#2	.0077	1014.	.0651	.0781	.0778	.0848	.1911
#3	.0068	1022.	.0699	.0778	.0933	.0827	.1904

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0971	.0427	.0408	.4216	.3062	.0079	.0471
SDev	.0016	.0060	.0030	.0023	.0100	.0001	.0126
%RSD	1.656	14.00	7.314	.5447	3.249	.7506	26.83
#1	.0984	.0476	.0409	.4223	.3141	.0080	.0611
#2	.0976	.0443	.0378	.4234	.2950	.0079	.0436
#3	.0953	.0361	.0438	.4190	.3094	.0079	.0365

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	.0107	.0467	1.158	.0118	.0329	.0045
SDev	.0032	.0001	.0073	.088	.0004	.0066	.0001

%RSD	26.51	1.427	15.66	7.630	3.558	20.01	3.357
#1	.0094	.0107	.0441	1.255	.0121	.0349	.0045
#2	.0157	.0105	.0549	1.139	.0120	.0256	.0046
#3	.0115	.0108	.0409	1.081	.0113	.0383	.0043

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0046	1.039
SDev	.0005	.008
%RSD	11.87	.7923
#1	.0050	1.034
#2	.0048	1.035
#3	.0040	1.049

Analysis Report

Tue 09-12-95 04:00:48 PM page .

Method: ICP1 Sample Name: 95-007941-N2 @2 Operator: DRS
Run Time: 09/12/95 15:59:28
Comment: SEGMENT 1 DUP @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	64.05	.1212	.4910	.0109	.0005	.0524
SDev	.0011	.78	.0107	.0039	.0002	.0000	.0031
%RSD	10.08	1.213	8.870	.8014	1.913	1.621	5.934
#1	.0101	64.58	.1336	.4924	.0108	.0005	.0493
#2	.0123	63.16	.1143	.4865	.0112	.0005	.0555
#3	.0113	64.41	.1157	.4940	.0108	.0005	.0522

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.881	.0046	.0468	.0163	.0801	.0203	.0175
SDev	.013	.0010	.0071	.0010	.0029	.0004	.0012
%RSD	.6947	20.82	15.19	6.148	3.663	2.245	6.958
#1	1.889	.0047	.0395	.0159	.0818	.0198	.0161
#2	1.866	.0055	.0537	.0175	.0817	.0202	.0185
#3	1.889	.0036	.0472	.0156	.0767	.0207	.0178

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	.6675	3.894	.0303	.0379	.1481	.0136
SDev	.0003	.0067	.213	.0014	.0004	.0059	.0003
%RSD	5.275	.9988	5.472	4.457	1.096	3.998	2.082
#1	.0055	.6721	3.708	.0292	.0376	.1415	.0137
#2	.0061	.6598	4.126	.0318	.0376	.1501	.0138
#3	.0058	.6705	3.847	.0299	.0383	.1529	.0133

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0179	3829.	.1100	.3190	.3381	.1632	.2761
SDev	.0006	28.	.0054	.0040	.0069	.0086	.0173
%RSD	3.231	.7305	4.886	1.241	2.053	5.297	6.258
#1	.0181	3849.	.1049	.3166	.3324	.1545	.2586
#2	.0183	3797.	.1156	.3168	.3458	.1717	.2931
#3	.0172	3841.	.1094	.3236	.3362	.1633	.2765

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1352	.0525	.0729	1.963	.4273	.0332	.0717
SDev	.0090	.0053	.0031	.015	.0132	.0003	.0022
%RSD	6.675	10.10	4.307	.7429	3.098	.9546	3.092
#1	.1283	.0503	.0757	1.969	.4138	.0334	.0697
#2	.1454	.0586	.0695	1.946	.4402	.0329	.0741
#3	.1319	.0487	.0734	1.973	.4279	.0335	.0713

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0329	.0330	.1665	1.577	.0259	.0391	.0068
SDev	.0008	.0004	.0052	.104	.0004	.0099	.0004

%RSD	2.406	1.231	3.146	6.618	1.393	25.36	6.358
#1	.0327	.0326	.1610	1.523	.0255	.0278	.0064
#2	.0338	.0329	.1715	1.697	.0262	.0462	.0073
#3	.0323	.0334	.1669	1.510	.0260	.0435	.0067

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0236	5.014
SDev	.0011	.046
%RSD	4.822	.9146
#1	.0231	5.034
#2	.0228	4.962
#3	.0249	5.047

Analysis Report Tue 09-12-95 04:05:36 PM page 1

Method: ICP1 Sample Name: 95-007943-N1 @10 Operator: DRS
Run Time: 09/12/95 16:04:16
Comment: QTR SEG 2D @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	14.48	.0398	.0394	.0055	.0004	.0374
SDev	.0004	.05	.0060	.0017	.0002	.0000	.0029
%RSD	2.830	.3425	15.01	4.344	3.824	6.723	7.610
#1	.0123	14.53	.0462	.0414	.0053	.0004	.0396
#2	.0131	14.44	.0388	.0384	.0057	.0004	.0342
#3	.0127	14.47	.0344	.0385	.0057	.0004	.0384

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4089	.0043	.0797	.0131	.0440	.0102	.0158
SDev	.0004	.0004	.0012	.0006	.0011	.0009	.0003
%RSD	.0949	9.076	1.506	4.620	2.548	9.257	1.855
#1	.4092	.0042	.0791	.0124	.0430	.0112	.0155
#2	.4090	.0047	.0789	.0136	.0438	.0100	.0160
#3	.4084	.0039	.0810	.0132	.0452	.0094	.0160

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.1416	3.487	.0265	.0228	.0717	.0042
SDev	.0001	.0003	.126	.0014	.0008	.0041	.0001
%RSD	2.130	.2107	3.617	5.474	3.294	5.758	1.868
#1	.0046	.1420	3.342	.0248	.0219	.0670	.0042
#2	.0048	.1415	3.551	.0275	.0230	.0735	.0041
#3	.0048	.1414	3.568	.0271	.0234	.0747	.0041

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	989.1	.0947	.1343	.1175	.1041	.2657
SDev	.0014	3.6	.0025	.0043	.0045	.0085	.0133
%RSD	14.46	.3630	2.674	3.168	3.803	8.174	5.001
#1	.0098	992.9	.0925	.1374	.1184	.0976	.2504
#2	.0079	985.7	.0942	.1294	.1214	.1137	.2737
#3	.0105	988.8	.0975	.1360	.1126	.1009	.2731

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1224	.0510	.0479	.2931	.4024	.0094	.0590
SDev	.0037	.0096	.0109	.0036	.0093	.0001	.0048
%RSD	3.000	18.82	22.73	1.213	2.309	.6901	8.079
#1	.1183	.0514	.0427	.2905	.4078	.0094	.0645
#2	.1236	.0412	.0604	.2971	.3917	.0094	.0563
#3	.1253	.0603	.0406	.2916	.4078	.0095	.0562

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0138	.0100	.0572	1.474	.0123	.0310	.0059
SDev	.0028	.0002	.0014	.034	.0004	.0072	.0005

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%RSD	20.16	2.268	2.490	2.318	3.138	23.27	8.128
#1	.0109	.0101	.0588	1.486	.0119	.0326	.0054
#2	.0165	.0102	.0561	1.435	.0123	.0231	.0060
#3	.0139	.0098	.0569	1.500	.0127	.0372	.0063

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0084	2.019
SDev	.0004	.006
%RSD	4.677	.2946
#1	.0082	2.021
#2	.0088	2.012
#3	.0081	2.023

Analysis Report Tue 09-12-95 04:11:40 PM page 1

Method: ICP1 Sample Name: 95-007943-N1 @2 Operator: DRS
Run Time: 09/12/95 16:10:21
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0089	68.68	.1264	.1656	.0151	.0007	.0679
SDev	.0008	.29	.0029	.0017	.0001	.0000	.0074
%RSD	8.487	.4219	2.256	1.036	.8254	1.365	10.85
#1	.0084	68.97	.1263	.1676	.0152	.0007	.0638
#2	.0098	68.39	.1236	.1643	.0149	.0007	.0764
#3	.0086	68.68	.1293	.1650	.0151	.0007	.0635

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.984	.0064	-.0100	.0217	.1985	.0226	.0206
SDev	.006	.0009	.0040	.0003	.0052	.0009	.0007
%RSD	.2848	13.59	40.61	1.511	2.637	4.067	3.245
#1	1.989	.0061	-.0135	.0213	.2026	.0217	.0199
#2	1.978	.0073	-.0055	.0219	.1926	.0236	.0212
#3	1.985	.0056	-.0108	.0218	.2002	.0226	.0207

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.6137	4.981	.0339	.0674	.1440	.0143
SDev	.0002	.0014	.076	.0011	.0009	.0014	.0001
%RSD	2.555	.2306	1.526	3.165	1.346	.9999	.7181
#1	.0064	.6151	4.894	.0327	.0675	.1443	.0144
#2	.0067	.6123	5.033	.0347	.0665	.1453	.0142
#3	.0067	.6135	5.016	.0343	.0683	.1425	.0142

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0214	3820.	.1222	.6003	.2627	.1992	.2931
SDev	.0009	11.	.0005	.0025	.0106	.0014	.0076
%RSD	4.059	.2912	.4393	.4219	4.022	.6811	2.584
#1	.0211	3831.	.1217	.6028	.2719	.1988	.2873
#2	.0224	3809.	.1227	.6004	.2512	.2007	.2902
#3	.0207	3819.	.1222	.5977	.2651	.1981	.3017

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1455	.0659	.0751	1.271	.4903	.0395	.0717
SDev	.0066	.0066	.0048	.004	.0070	.0002	.0026
%RSD	4.572	10.02	6.387	.2907	1.434	.4623	3.636
#1	.1385	.0730	.0755	1.273	.4822	.0396	.0689
#2	.1518	.0647	.0797	1.267	.4953	.0393	.0723
#3	.1463	.0599	.0701	1.273	.4933	.0395	.0740

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0624	.0251	.1842	1.702	.0168	.0505	.0079
SDev	.0059	.0004	.0050	.092	.0004	.0064	.0003

%RSD	9.400	1.674	2.738	5.376	2.322	12.67	4.188
#1	.0615	.0248	.1900	1.599	.0163	.0497	.0078
#2	.0687	.0249	.1816	1.734	.0169	.0446	.0077
#3	.0571	.0256	.1809	1.774	.0171	.0573	.0083

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0366	9.431
SDev	.0008	.034
%RSD	2.230	.3609
#1	.0360	9.457
#2	.0375	9.392
#3	.0362	9.443

Analysis Report QC Standard Tue 09-12-95 04:17:04 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:15:45
Comment:
Mode: CONC Corr. Factor: 1 SLUDGE (Na2O2 FUSION) K.SILVERS

Fail Beti, S. AJS 9/14/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4630	23.03	2.448	1.835	.4719	Q.0879	23.06
SDev	.0074	.54	.043	.048	.0123	.0020	.45
%RSD	1.592	2.341	1.761	2.593	2.603	2.281	1.946
#1	.4551	Q22.44	2.402	Q1.781	.4585	Q.0857	22.59
#2	.4642	23.15	2.453	1.851	.4746	Q.0882	23.12
#3	.4697	23.50	2.488	1.872	.4826	Q.0897	23.48
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.72	.4755	.0153	.9869	.9846	.9354	.0069
SDev	.40	.0084	.0170	.0169	.0202	.0233	.0018
%RSD	1.693	1.773	111.0	1.716	2.051	2.486	25.49
#1	23.29	.4661	.0340	.9687	.9647	.9092	.0089
#2	23.80	.4781	.0111	.9896	.9840	.9433	.0063
#3	24.08	.4823	.0008	1.002	1.005	.9537	.0056
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	19.35	24.89	.0154	Q1.744	25.23	.4816
SDev	.0004	.40	.07	.0033	.047	.52	.0097
%RSD	11.34	2.051	.2802	21.44	2.670	2.081	2.025
#1	.0044	18.92	24.82	.0192	Q1.693	24.66	.4711
#2	.0038	19.42	24.89	.0139	Q1.756	25.34	.4834
#3	.0035	19.71	24.96	.0131	Q1.784	25.69	.4903
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Fail	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9796	23.60	.0499	1.012	.1161	2.564	.1025
SDev	.0234	.57	.0110	.018	.0291	.026	.0356
%RSD	2.385	2.421	22.14	1.823	25.05	1.009	34.77
#1	.9533	22.95	.0623	.9962	.1476	2.535	.1413
#2	.9876	23.79	.0459	1.007	.1103	2.572	.0948
#3	.9979	24.05	.0413	1.032	.0904	2.584	.0713
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0582	2.435	2.368	Q17.86	.1156	.4775	.0274
SDev	.0139	.060	.040	.35	.0671	.0122	.0080
%RSD	23.88	2.452	1.669	1.974	58.05	2.561	29.20
#1	.0730	2.375	2.336	Q17.47	.1796	.4643	.0337
#2	.0565	2.435	2.356	Q17.94	.1215	.4797	.0301
#3	.0453	2.495	2.412	18.16	.0457	.4884	.0184
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0391	.9384	2.369	.7705	.9398	.0475	.0025
SDev	.0017	.0221	.049	.1651	.0192	.0034	.0006
%RSD	4.245	2.358	2.058	21.43	2.049	7.078	23.27
#1	.0405	.9144	2.313	.9521	.9190	.0486	.0031
#2	.0373	.9427	2.387	.7301	.9434	.0501	.0023
#3	.0396	.9581	2.406	.6293	.9570	.0437	.0020
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9797	1.978
SDev	.0197	.023
%RSD	2.007	1.177
#1	.9573	1.953
#2	.9876	1.984
#3	.9941	1.998
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 04:20:50 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:19:31
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4901	25.25	2.566	1.991	.5209	.0940	24.72
SDev	.0067	.44	.032	.037	.0109	.0015	.38
%RSD	1.372	1.724	1.260	1.856	2.089	1.644	1.552
#1	.4844	24.87	2.543	1.956	.5114	.0927	24.41
#2	.4885	25.17	2.552	1.986	.5187	.0935	24.60
#3	.4975	25.73	2.603	2.030	.5328	.0957	25.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.81	.4996	-.0436	1.034	1.036	1.029	-.0017
SDev	.27	.0057	.0134	.014	.017	.019	.0019
%RSD	1.097	1.137	30.71	1.382	1.644	1.895	109.6
#1	24.61	.4946	-.0340	1.026	1.026	1.012	.0001
#2	24.71	.4984	-.0380	1.026	1.026	1.024	-.0016
#3	25.12	.5058	-.0590	1.050	1.056	1.050	-.0036
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	20.59	Q29.12	.0024	2.105	26.93	.5113
SDev	.0006	.31	.39	.0030	.048	.38	.0076
%RSD	46.93	1.484	1.324	126.0	2.264	1.403	1.481
#1	.0019	20.35	Q28.76	.0053	2.053	26.63	.5049
#2	.0013	20.48	Q29.53	.0025	2.114	26.82	.5092
#3	.0007	20.94	Q29.08	-.0007	2.147	27.35	.5196
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.036	Q28.27	-.0026	1.060	.0477	2.622	-.0531
SDev	.014	.49	.0101	.012	.0219	.027	.0310
%RSD	1.369	1.719	390.7	1.127	45.79	1.044	58.43
#1	1.026	Q27.73	.0067	1.056	.0312	2.618	-.0270
#2	1.031	Q28.40	-.0011	1.051	.0395	2.598	-.0449
#3	1.052	Q28.67	-.0134	1.074	.0725	2.652	-.0874
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0172	2.568	2.508	19.08	-.1246	.5258	-.0175
SDev	.0119	.044	.049	.26	.0520	.0108	.0125
%RSD	69.55	1.727	1.946	1.357	41.71	2.056	71.42
#1	-.0061	2.528	2.476	18.86	-.0882	.5166	-.0071
#2	-.0156	2.560	2.484	19.01	-.1015	.5231	-.0140
#3	-.0298	2.616	2.564	19.36	-.1841	.5377	-.0313
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0394	1.014	2.537	-.1062	1.000	.0262	-.0007
SDev	.0022	.018	.033	.2002	.015	.0075	.0008
%RSD	5.520	1.746	1.291	188.6	1.513	28.53	114.5
#1	.0419	1.000	2.500	.0661	.9881	.0346	.0001
#2	.0383	1.008	2.563	-.0588	.9959	.0236	-.0008
#3	.0380	1.034	2.548	-.3258	1.017	.0204	-.0016
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.028	2.072
SDev	.013	.039
%RSD	1.216	1.890
#1	1.020	2.041
#2	1.021	2.058
#3	1.042	2.116
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Tue 09-12-95 04:40:44 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 16:39:25
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS ALS 9/7/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4842	24.07	2.535	1.937	.5086	.0918	24.15
SDev	.0016	.06	.021	.006	.0017	.0005	.10
%RSD	.3285	.2522	.8350	.3260	.3368	.5811	.4327
#1	.4832	24.05	2.514	1.934	.5074	.0914	24.07
#2	.4834	24.03	2.534	1.933	.5079	.0916	24.11
#3	.4860	24.14	2.556	1.945	.5106	.0924	24.27
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.29	.4877	-.0106	1.012	1.007	1.009	.0035
SDev	.14	.0046	.0017	.006	.004	.005	.0003
%RSD	.5906	.9536	16.07	.5801	.3651	.5331	8.012
#1	24.18	.4871	-.0125	1.008	1.008	1.005	.0032
#2	24.24	.4834	-.0091	1.009	1.003	1.006	.0038
#3	24.45	.4926	-.0103	1.018	1.010	1.015	.0036
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	20.12	27.26	.0111	1.906	26.27	.4979
SDev	.0000	.12	.34	.0006	.016	.13	.0037
%RSD	.4484	.5756	1.235	5.271	.8499	.4853	.7507
#1	.0032	20.03	27.39	.0106	1.917	26.19	.4948
#2	.0031	20.07	Q27.50	.0117	1.913	26.21	.4967
#3	.0032	20.25	26.87	.0110	1.887	26.42	.5020
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.017	27.41	.0338	1.041	.0704	2.591	.0448
SDev	.006	.33	.0029	.001	.0122	.016	.0026
%RSD	.6247	1.191	8.546	.0963	17.35	.6199	5.800
#1	1.010	Q27.62	.0305	1.040	.0624	2.591	.0456
#2	1.016	Q27.58	.0349	1.042	.0642	2.575	.0419
#3	1.023	27.04	.0360	1.041	.0844	2.607	.0469
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0324	2.530	2.469	18.67	-.1484	.5139	.0027
SDev	.0033	.017	.017	.06	.0037	.0017	.0048
%RSD	10.20	.6806	.6975	.3404	2.486	.3286	176.7
#1	.0315	2.519	2.451	18.63	-.1490	.5130	.0017
#2	.0296	2.522	2.470	18.65	-.1518	.5128	-.0015
#3	.0360	2.550	2.485	18.75	-.1445	.5158	.0079
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0464	.9899	2.487	.4696	.9806	.0333	.0017
SDev	.0049	.0042	.014	.0464	.0047	.0055	.0000
%RSD	10.62	.4236	.5610	9.877	.4752	16.40	.8471
#1	.0407	.9873	2.477	.4914	.9766	.0277	.0017
#2	.0492	.9877	2.503	.5011	.9795	.0386	.0016
#3	.0493	.9948	2.481	.4163	.9857	.0337	.0017
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.007	2.026
SDev	.007	.009
%RSD	.7166	.4603
#1	1.010	2.020
#2	.9987	2.022
#3	1.012	2.037
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report

Tue 09-12-95 04:45:26 PM page

Method: ICP1 Sample Name: SST-ICS-1 9509~~11~~1101 Operator: DRS
Run Time: 09/12/95 16:44:06
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	89.11	.1833	.0154	.0014	.0007	.0705
SDev	.0022	1.06	.0146	.0024	.0003	.0000	.0099
%RSD	74.03	1.195	7.960	15.39	22.52	3.073	14.09
#1	-.0053	90.20	.1703	.0147	.0011	.0007	.0591
#2	-.0009	88.08	.1804	.0134	.0018	.0008	.0763
#3	-.0027	89.04	.1991	.0180	.0014	.0007	.0762

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0546	.0111	-.1090	.0113	.0390	-.0072	.0040
SDev	.0018	.0013	.0142	.0014	.0014	.0011	.0017
%RSD	3.366	11.89	13.03	12.04	3.559	14.79	42.01
#1	.0526	.0111	-.1225	.0098	.0401	-.0070	.0022
#2	.0562	.0123	-.0942	.0125	.0375	-.0063	.0055
#3	.0549	.0097	-.1102	.0117	.0395	-.0084	.0042

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	18.16	1.112	.0136	.0150	.3196	.0027
SDev	.0005	.12	.267	.0018	.0005	.0042	.0005
%RSD	19.34	.6571	24.03	13.02	3.412	1.325	18.23
#1	.0020	18.24	.8151	.0119	.0149	.3149	.0022
#2	.0030	18.02	1.333	.0154	.0155	.3233	.0030
#3	.0027	18.21	1.188	.0135	.0145	.3205	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0149	3676.	.0294	47.09	.0934	.2453	-.2512
SDev	.0007	46.	.0107	.25	.0143	.0163	.0259
%RSD	4.780	1.260	36.53	.5249	15.30	6.629	10.33
#1	.0142	3729.	.0185	47.22	.0784	.2288	-.2748
#2	.0156	3640.	.0400	46.80	.1068	.2613	-.2234
#3	.0149	3661.	.0297	47.25	.0950	.2458	-.2554

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0366	.0386	.0617	.0206	-.0633	.0006	.0398
SDev	.0168	.0099	.0073	.0101	.0302	.0001	.0056
%RSD	45.84	25.60	11.85	49.17	47.66	17.48	14.17
#1	.0180	.0297	.0533	.0093	-.0981	.0005	.0333
#2	.0507	.0492	.0662	.0288	-.0447	.0007	.0436
#3	.0411	.0368	.0657	.0238	-.0471	.0006	.0424

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6716	.0047	.2272	45.74	.0075	.0628	.0067
SDev	.0085	.0007	.0105	.47	.0012	.0039	.0008

%RSD	1.262	14.72	4.625	1.035	16.33	6.132	12.71
#1	.6768	.0040	.2177	46.22	.0062	.0605	.0057
#2	.6618	.0054	.2254	45.28	.0085	.0673	.0071
#3	.6762	.0048	.2384	45.73	.0080	.0607	.0072

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0298	9.459
SDev	.0018	.087
%RSD	5.896	.9176
#1	-.0298	9.531
#2	-.0316	9.363
#3	-.0281	9.484

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 16:48:37
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	.0152	-.0008	.0082	.0006	.0001	.0064
SDev	.0001	.0021	.0009	.0016	.0000	.0000	.0059
%RSD	5.106	13.60	112.0	20.10	.1380	3.831	92.03
#1	.0024	.0133	-.0010	.0099	.0006	.0001	.0060
#2	.0025	.0174	.0002	.0082	.0006	.0001	.0125
#3	.0027	.0151	-.0016	.0066	.0006	.0001	.0007

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	.0013	.0170	.0022	-.0008	.0024	.0033
SDev	.0008	.0009	.0020	.0008	.0007	.0008	.0001
%RSD	18.58	67.78	11.68	34.93	89.26	35.67	2.582
#1	.0036	.0005	.0188	.0015	-.0010	.0033	.0032
#2	.0050	.0023	.0148	.0031	-.0000	.0018	.0033
#3	.0037	.0011	.0173	.0022	-.0014	.0019	.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0010	.5722	.0046	.0029	.0104	.0004
SDev	.0002	.0000	.0561	.0009	.0010	.0032	.0001
%RSD	19.64	4.079	9.804	18.86	35.33	30.45	21.23
#1	.0007	.0011	.5398	.0036	.0018	.0140	.0005
#2	.0010	.0010	.6370	.0051	.0038	.0080	.0004
#3	.0008	.0010	.5398	.0052	.0031	.0092	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.1715	.0196	.0045	.0193	.0179	.0570
SDev	.0015	.0141	.0023	.0004	.0008	.0045	.0026
%RSD	139.3	8.209	11.62	8.224	4.279	25.13	4.590
#1	.0008	.1817	.0175	.0041	.0202	.0228	.0590
#2	-.0002	.1772	.0221	.0047	.0191	.0169	.0578
#3	.0028	.1554	.0194	.0047	.0185	.0139	.0540

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0268	-.0021	.0073	.0116	.0590	.0003	.0109
SDev	.0024	.0039	.0117	.0013	.0130	.0000	.0002
%RSD	9.084	188.3	159.9	11.02	22.09	.7893	1.632
#1	.0257	.0001	.0182	.0126	.0542	.0003	.0111
#2	.0297	.0003	.0086	.0121	.0490	.0003	.0108
#3	.0252	-.0067	-.0050	.0102	.0737	.0003	.0109

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0011	.0005	.3200	.0019	.0095	.0013
SDev	.0061	.0001	.0027	.0269	.0003	.0039	.0002

%RSD	536.9	8.080	504.5	8.406	15.13	40.79	13.81
#1	.0026	.0011	-.0009	.2889	.0016	.0054	.0012
#2	.0063	.0011	.0037	.3352	.0022	.0131	.0015
#3	-.0055	.0010	-.0012	.3359	.0019	.0100	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0026
SDev	.0006	.0002
%RSD	77.48	6.366
#1	.0006	.0028
#2	.0003	.0025
#3	.0014	.0027

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Method: ICP1 Sample Name: SST-ICS-1 950911I101 Operator: DRS
Run Time: 09/12/95 16:53:54
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	91.82	.1641	.0074	.0010	.0007	.0629
SDev	.0008	.40	.0118	.0022	.0001	.0000	.0008
%RSD	13.26	.4327	7.193	30.09	12.90	3.968	1.348
#1	-.0057	91.62	.1775	.0096	.0010	.0007	.0623
#2	-.0070	92.28	.1595	.0075	.0008	.0007	.0625
#3	-.0055	91.57	.1552	.0051	.0011	.0008	.0639

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0486	.0102	-.1264	.0102	.0410	-.0136	.0017
SDev	.0012	.0006	.0102	.0009	.0015	.0002	.0008
%RSD	2.446	5.405	8.100	8.785	3.678	1.262	47.98
#1	.0495	.0098	-.1230	.0097	.0406	-.0136	.0022
#2	.0473	.0108	-.1379	.0096	.0397	-.0138	.0008
#3	.0491	.0100	-.1183	.0112	.0426	-.0135	.0022

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	18.66	.7234	.0110	.0133	.3191	.0022
SDev	.0002	.03	.0799	.0023	.0005	.0120	.0002
%RSD	10.42	.1777	11.04	20.78	3.847	3.766	9.473
#1	.0021	18.64	.6856	.0121	.0138	.3165	.0022
#2	.0019	18.70	.6694	.0083	.0128	.3086	.0020
#3	.0023	18.64	.8151	.0125	.0132	.3322	.0024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	3751.	.0150	48.44	.1088	.2427	-.2964
SDev	.0011	19.	.0050	.04	.0070	.0031	.0105
%RSD	7.642	.5117	33.02	.0871	6.411	1.256	3.546
#1	.0133	3740.	.0135	48.42	.1039	.2393	-.2964
#2	.0142	3773.	.0111	48.49	.1168	.2437	-.3070
#3	.0155	3739.	.0206	48.41	.1057	.2452	-.2860

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0222	.0374	.0538	.0186	-.1053	.0003	.0263
SDev	.0058	.0046	.0155	.0057	.0183	.0001	.0107
%RSD	26.28	12.19	28.75	30.56	17.41	23.83	40.64
#1	.0232	.0392	.0631	.0178	-.1223	.0003	.0211
#2	.0159	.0322	.0359	.0134	-.1078	.0003	.0192
#3	.0274	.0407	.0623	.0247	-.0859	.0004	.0386

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6945	.0036	.2169	47.09	.0060	.0604	.0059
SDev	.0040	.0002	.0097	.16	.0005	.0023	.0004

%RSD	.5825	4.572	4.495	.3396	8.909	3.836	7.407
#1	.6904	.0038	.2281	47.03	.0060	.0610	.0062
#2	.6985	.0034	.2109	47.27	.0055	.0624	.0054
#3	.6945	.0035	.2115	46.97	.0066	.0579	.0062

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0293	9.750
SDev	.0018	.032
%RSD	6.068	.3265
#1	-.0301	9.744
#2	-.0273	9.784
#3	-.0306	9.721

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 17:05:02
Comment: QTR SEG 2D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0306	.0007	.0247	-.0000	.0000	-.0036
SDev	.0006	.0015	.0034	.0026	.0002	.0000	.0019
%RSD	128.0	4.915	457.9	10.35	436.8	110.5	52.94
#1	.0006	.0300	.0001	.0268	.0001	.0000	-.0035
#2	.0009	.0323	-.0023	.0256	-.0000	-.0000	-.0017
#3	-.0002	.0295	.0044	.0219	-.0002	.0000	-.0055

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0164	.0015	.0015	.0009	-.0005	.0009	.0005
SDev	.0016	.0005	.0039	.0007	.0007	.0004	.0005
%RSD	10.05	31.43	268.8	84.62	134.5	46.88	95.51
#1	.0175	.0009	-.0019	.0005	.0002	.0009	.0003
#2	.0173	.0016	.0058	.0017	-.0011	.0004	.0011
#3	.0145	.0018	.0004	.0004	-.0006	.0012	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0008	.0818	.0005	.0043	-.0023	.0009
SDev	.0002	.0008	.1750	.0008	.0014	.0017	.0004
%RSD	281.6	101.7	213.9	175.3	31.91	74.15	50.62
#1	-.0001	-.0015	.0437	-.0001	.0041	-.0031	.0011
#2	.0003	.0001	.2728	.0014	.0058	-.0034	.0011
#3	.0000	-.0010	-.0709	.0001	.0030	-.0003	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	-.1358	.0044	-.0008	.0184	.0059	.0040
SDev	.0007	.0066	.0039	.0019	.0193	.0054	.0067
%RSD	38.90	4.832	87.28	236.9	105.2	91.53	165.9
#1	.0021	-.1430	.0027	-.0015	.0025	-.0003	-.0027
#2	.0010	-.1301	.0089	.0014	.0399	.0097	.0107
#3	.0024	-.1343	.0018	-.0022	.0127	.0083	.0042

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0033	-.0034	-.0065	.0240	-.0000	-.0002
SDev	.0079	.0065	.0016	.0025	.0092	.0001	.0028
%RSD	400.7	195.8	47.72	37.97	38.47	1136.	1433.
#1	.0030	-.0107	-.0017	-.0084	.0248	.0000	-.0012
#2	.0093	.0009	-.0037	-.0037	.0327	.0000	-.0023
#3	-.0064	-.0000	-.0049	-.0074	.0144	-.0001	.0030

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0003	-.0030	.0630	.0003	.0004	.0003
SDev	.0013	.0001	.0051	.0894	.0006	.0040	.0001

%RSD	74.23	58.71	171.3	141.9	185.2	1033.	47.52
#1	.0020	.0004	-.0057	-.0127	.0000	.0020	.0002
#2	.0029	.0003	-.0061	.1616	.0011	.0032	.0004
#3	.0003	.0001	.0029	.0401	-.0001	-.0041	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0004	-.0001
SDev	.0004	.0007
%RSD	83.73	1214.
#1	-.0006	-.0006
#2	-.0006	.0007
#3	-.0000	-.0003

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Method: ICP1 Sample Name: 95-007944-N1 @10 Operator: DRS
Run Time: 09/12/95 17:07:04
Comment: QTR SEG 3A @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	3.648	.0219	.1076	.0027	.0001	.0090
SDev	.0003	.026	.0061	.0017	.0001	.0001	.0029
%RSD	13.26	.7053	27.91	1.593	4.538	75.79	32.01
#1	.0029	3.623	.0278	.1086	.0028	.0001	.0057
#2	.0023	3.647	.0156	.1086	.0027	.0001	.0102
#3	.0023	3.675	.0225	.1056	.0025	.0000	.0111

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4451	.0018	.0100	.0043	.0213	.0050	.0037
SDev	.0020	.0006	.0019	.0003	.0003	.0008	.0007
%RSD	.4554	33.53	19.28	7.120	1.328	15.11	18.52
#1	.4447	.0011	.0080	.0047	.0209	.0044	.0045
#2	.4433	.0018	.0118	.0041	.0214	.0058	.0033
#3	.4473	.0023	.0104	.0042	.0214	.0047	.0033

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.1841	.8948	.0070	.0103	.0261	.0027
SDev	.0003	.0008	.0982	.0014	.0002	.0044	.0002
%RSD	23.09	.4222	10.98	20.78	1.887	16.97	6.194
#1	.0014	.1832	.9931	.0074	.0101	.0236	.0028
#2	.0014	.1844	.8948	.0081	.0105	.0236	.0025
#3	.0009	.1847	.7966	.0053	.0105	.0313	.0028

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	1186.	.0277	.1196	.0766	.0425	.0651
SDev	.0018	6.	.0042	.0022	.0099	.0075	.0072
%RSD	32.75	.5384	15.27	1.862	12.91	17.60	11.04
#1	.0039	1179.	.0325	.1170	.0789	.0488	.0733
#2	.0050	1189.	.0246	.1207	.0658	.0445	.0615
#3	.0074	1191.	.0259	.1211	.0851	.0342	.0603

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0303	.0116	.0207	.1458	.0899	.0455	.0130
SDev	.0066	.0063	.0043	.0027	.0123	.0003	.0033
%RSD	21.93	54.93	20.56	1.867	13.71	.6557	25.39
#1	.0308	.0185	.0159	.1485	.0893	.0452	.0160
#2	.0366	.0100	.0238	.1460	.0779	.0454	.0095
#3	.0234	.0061	.0225	.1431	.1025	.0458	.0135

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	.0035	.0220	.4230	.0041	.0114	.0016
SDev	.0089	.0003	.0037	.0535	.0001	.0102	.0003

%RSD	138.9	6.973	16.97	12.66	2.962	90.06	17.73
#1	-.0032	.0036	.0260	.4712	.0041	.0180	.0019
#2	.0080	.0037	.0211	.4325	.0042	.0165	.0016
#3	.0145	.0033	.0187	.3654	.0040	-.0004	.0013

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0092	.7619
SDev	.0003	.0062
%RSD	3.018	.8107
#1	.0095	.7576
#2	.0091	.7591
#3	.0091	.7690

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Method: ICP1 Sample Name: 95-007944-N1 @2 Operator: DRS
Run Time: 09/12/95 17:10:48
Comment: QTR SEG 3A @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0059	17.07	.0525	.4215	.0111	.0003	.0385
SDev	.0013	.21	.0053	.0083	.0001	.0000	.0029
%RSD	22.86	1.247	10.01	1.959	1.092	5.071	7.541
#1	.0073	16.83	.0573	.4127	.0111	.0003	.0418
#2	.0046	17.25	.0532	.4290	.0109	.0003	.0376
#3	.0057	17.12	.0469	.4228	.0112	.0003	.0362

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.162	.0035	.0185	.0143	.1024	.0212	.0104
SDev	.015	.0007	.0124	.0012	.0016	.0012	.0014
%RSD	.6706	18.99	67.03	8.189	1.591	5.820	13.07
#1	2.146	.0043	.0310	.0149	.1006	.0226	.0118
#2	2.170	.0033	.0061	.0130	.1038	.0206	.0091
#3	2.172	.0030	.0184	.0151	.1027	.0203	.0104

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.8280	2.575	.0200	.0319	.0794	.0102
SDev	.0001	.0084	.191	.0017	.0002	.0032	.0003
%RSD	4.340	1.009	7.421	8.418	.6101	3.987	2.595
#1	.0036	.8184	2.745	.0218	.0320	.0799	.0101
#2	.0034	.8340	2.368	.0184	.0316	.0760	.0105
#3	.0034	.8314	2.614	.0198	.0320	.0823	.0101

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0176	4330.	.0846	.5550	.3251	.1178	.1500
SDev	.0017	65.	.0059	.0053	.0202	.0025	.0182
%RSD	9.584	1.510	7.003	.9548	6.224	2.159	12.17
#1	.0188	4257.	.0894	.5505	.3037	.1199	.1699
#2	.0157	4385.	.0780	.5536	.3439	.1150	.1340
#3	.0184	4347.	.0863	.5609	.3276	.1184	.1461

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0771	.0393	.0528	.7211	.2094	.2057	.0402
SDev	.0094	.0042	.0141	.0006	.0122	.0026	.0079
%RSD	12.18	10.78	26.83	.0873	5.827	1.257	19.55
#1	.0870	.0442	.0691	.7204	.2208	.2028	.0464
#2	.0684	.0376	.0437	.7214	.1965	.2077	.0314
#3	.0758	.0362	.0455	.7215	.2110	.2066	.0430

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0323	.0133	.0615	1.236	.0126	.0458	.0048
SDev	.0019	.0002	.0016	.126	.0008	.0045	.0006

%RSD	5.807	1.442	2.635	10.18	6.255	9.747	12.15
#1	.0329	.0134	.0630	1.366	.0134	.0423	.0053
#2	.0337	.0130	.0598	1.115	.0118	.0508	.0042
#3	.0302	.0134	.0615	1.227	.0126	.0443	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0458	3.600
SDev	.0001	.041
%RSD	.2644	1.127
#1	.0460	3.553
#2	.0458	3.628
#3	.0457	3.618

Analysis Report Tue 09-12-95 05:16:37 PM page 1

Method: ICP1 Sample Name: 95-007945-N1 @10 Operator: DRS
Run Time: 09/12/95 17:15:17
Comment: QTR SEG 4A @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	1.717	.0200	.0493	.0333	.0001	.1482
SDev	.0004	.005	.0033	.0010	.0003	.0000	.0043
%RSD	24.56	.3134	16.68	1.979	.9684	2.402	2.893
#1	.0018	1.712	.0174	.0494	.0329	.0001	.1471
#2	.0020	1.718	.0238	.0483	.0334	.0001	.1530
#3	.0012	1.722	.0188	.0502	.0335	.0001	.1446

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.753	.0018	.0032	.0056	.0689	.0042	.0031
SDev	.010	.0006	.0065	.0001	.0013	.0004	.0006
%RSD	.5497	35.75	201.8	2.064	1.844	9.878	20.56
#1	1.742	.0020	.0107	.0057	.0702	.0046	.0035
#2	1.760	.0022	-.0003	.0056	.0690	.0042	.0034
#3	1.757	.0010	-.0007	.0055	.0676	.0038	.0024

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	2.292	.7366	.0110	.0049	.1728	.0343
SDev	.0002	.014	.1184	.0013	.0012	.0025	.0005
%RSD	12.50	.6109	16.08	11.45	25.08	1.456	1.454
#1	.0013	2.276	.8130	.0112	.0045	.1745	.0337
#2	.0015	2.301	.7966	.0121	.0062	.1699	.0344
#3	.0011	2.299	.6002	.0097	.0039	.1739	.0347

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	1201.	.0248	1.673	.0740	.1422	.0227
SDev	.0004	6.	.0020	.011	.0117	.0036	.0043
%RSD	7.858	.4603	8.098	.6844	15.81	2.524	19.18
#1	.0060	1199.	.0257	1.661	.0677	.1414	.0232
#2	.0054	1197.	.0262	1.677	.0668	.1461	.0268
#3	.0052	1207.	.0225	1.682	.0875	.1391	.0181

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0241	.0120	.0212	.2883	.0559	1.593	.0144
SDev	.0040	.0076	.0095	.0010	.0155	.010	.0020
%RSD	16.63	63.67	44.90	.3530	27.74	.6078	13.93
#1	.0269	.0175	.0137	.2872	.0543	1.582	.0150
#2	.0258	.0152	.0319	.2892	.0721	1.595	.0160
#3	.0195	.0033	.0179	.2884	.0412	1.601	.0122

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0578	.0051	.0082	4.014	.0033	.0053	.0021
SDev	.0046	.0001	.0052	.020	.0002	.0058	.0002

%RSD	7.967	2.737	63.15	.4942	6.665	110.1	8.092
#1	.0622	.0052	.0111	4.009	.0034	.0027	.0020
#2	.0530	.0052	.0022	4.036	.0035	.0120	.0023
#3	.0583	.0050	.0112	3.998	.0031	.0012	.0020

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0253	1.526
SDev	.0004	.010
%RSD	1.706	.6375
#1	.0252	1.515
#2	.0249	1.533
#3	.0257	1.531

Analysis Report Tue 09-12-95 05:20:21 PM page

Method: ICP1 Sample Name: 95-007945-N1 @2 Operator: DRS
Run Time: 09/12/95 17:19:02
Comment: QTR SEG 4A @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	8.033	.0646	.2099	.1477	.0005	.7154
SDev	.0014	.133	.0077	.0024	.0022	.0000	.0147
%RSD	59.78	1.655	11.92	1.135	1.502	4.820	2.061
#1	.0040	7.886	.0725	.2095	.1453	.0005	.7034
#2	.0013	8.145	.0572	.2124	.1497	.0006	.7319
#3	.0019	8.068	.0640	.2077	.1482	.0005	.7109

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.318	.0052	-.0301	.0212	.3214	.0188	.0083
SDev	.102	.0023	.0113	.0011	.0006	.0009	.0014
%RSD	1.221	43.18	37.57	5.113	.1740	4.767	17.21
#1	8.205	.0027	-.0174	.0224	.3208	.0190	.0099
#2	8.401	.0069	-.0337	.0208	.3219	.0178	.0071
#3	8.349	.0062	-.0391	.0203	.3215	.0195	.0080

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	10.46	2.504	.0415	.0177	.7679	.1558
SDev	.0005	.15	.295	.0015	.0014	.0071	.0017
%RSD	12.38	1.400	11.77	3.702	7.700	.9300	1.063
#1	.0047	10.30	2.843	.0432	.0177	.7615	.1539
#2	.0039	10.58	2.303	.0404	.0163	.7756	.1571
#3	.0037	10.50	2.368	.0408	.0190	.7665	.1564

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0145	4407.	.0754	7.615	.3242	.5990	.0050
SDev	.0008	95.	.0081	.090	.0077	.0077	.0269
%RSD	5.312	2.158	10.74	1.185	2.371	1.281	537.1
#1	.0154	4302.	.0847	7.519	.3325	.5988	.0341
#2	.0140	4488.	.0703	7.698	.3173	.6068	-.0190
#3	.0141	4432.	.0712	7.629	.3229	.5915	-.0000

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0623	.0255	.0467	1.412	.1049	7.206	.0441
SDev	.0134	.0073	.0102	.015	.0353	.135	.0017
%RSD	21.52	28.64	21.84	1.065	33.66	1.867	3.856
#1	.0771	.0322	.0582	1.396	.1401	7.054	.0457
#2	.0509	.0177	.0432	1.426	.0695	7.310	.0423
#3	.0588	.0267	.0387	1.413	.1050	7.255	.0442

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2742	.0212	.0544	17.24	.0098	.0339	.0082
SDev	.0064	.0003	.0033	.20	.0009	.0071	.0007

%RSD	2.322	1.344	6.144	1.136	9.587	20.91	8.967
#1	.2764	.0215	.0506	17.02	.0109	.0271	.0089
#2	.2792	.0211	.0562	17.34	.0092	.0412	.0075
#3	.2671	.0209	.0565	17.37	.0092	.0333	.0081

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1219	6.996
SDev	.0031	.116
%RSD	2.549	1.658
#1	.1198	6.865
#2	.1255	7.087
#3	.1205	7.035

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Method: ICP1 Sample Name: 95-007945-N1-PS @5 Operator: DRS
Run Time: 09/12/95 17:22:43
Comment: QTR SEG 4A POST DIGEST SPIKE @5X DIL(Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	12.31	.0524	.0890	.0638	.0005	.3068
SDev	.0009	.08	.0150	.0017	.0004	.0000	.0112
%RSD	27.41	.6620	28.60	1.944	.6069	4.285	3.656
#1	.0038	12.24	.0400	.0909	.0633	.0005	.2965
#2	.0022	12.40	.0481	.0877	.0640	.0005	.3051
#3	.0035	12.30	.0690	.0883	.0639	.0005	.3187

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.070	.2404	-.0005	.0127	1.572	.0012	.0036
SDev	.035	.0028	.0066	.0006	.009	.0006	.0006
%RSD	.4339	1.156	1404.	4.326	.5768	48.66	17.69
#1	8.036	.2381	.0062	.0126	1.576	.0019	.0039
#2	8.106	.2435	-.0070	.0123	1.578	.0011	.0029
#3	8.068	.2396	-.0006	.0133	1.561	.0007	.0040

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	4.413	18.50	.0230	.0113	.4445	.1601
SDev	.0001	.020	.11	.0003	.0000	.0076	.0003
%RSD	2.400	.4583	.5688	1.240	.0307	1.709	.1639
#1	.0024	4.393	18.43	.0227	.0113	.4358	.1599
#2	.0023	4.433	18.62	.0232	.0113	.4488	.1600
#3	.0024	4.413	18.46	.0231	.0113	.4490	.1604

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	2195.	.0445	8.121	.1790	5.262	-.0947
SDev	.0005	18.	.0020	.032	.0129	.029	.0093
%RSD	6.037	.8322	4.412	.3928	7.229	.5458	9.805
#1	.0088	2180.	.0468	8.097	.1642	5.238	-.0841
#2	.0080	2215.	.0432	8.157	.1881	5.294	-.1013
#3	.0090	2191.	.0435	8.108	.1847	5.256	-.0987

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0345	.0123	.0287	10.30	.0822	3.090	.0245
SDev	.0060	.0063	.0059	.05	.0206	.020	.0035
%RSD	17.31	50.88	20.52	.4758	25.09	.6554	14.43
#1	.0410	.0106	.0253	10.26	.1060	3.070	.0278
#2	.0293	.0192	.0252	10.35	.0699	3.110	.0208
#3	.0331	.0071	.0354	10.28	.0706	3.090	.0251

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3587	.0107	.0500	26.43	.0070	.0214	.0054
SDev	.0020	.0001	.0016	.17	.0007	.0038	.0003

%RSD	.3547	.9918	3.208	.6383	9.515	17.96	4.662
#1	.3591	.0106	.0482	26.28	.0075	.0173	.0057
#2	.3565	.0106	.0507	26.61	.0062	.0249	.0052
#3	.3605	.0108	.0512	26.38	.0072	.0220	.0053

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0461	3.458
SDev	.0002	.025
%RSD	.3846	.7208
#1	.0463	3.432
#2	.0462	3.482
#3	.0459	3.461

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Method: ICP1 Sample Name: 95-007946-N1 @10 Operator: DRS
Run Time: 09/12/95 17:26:30
Comment: QTR SEG 4B @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	1.280	.0273	.0547	.0668	.0002	.3293
SDev	.0014	.009	.0114	.0021	.0004	.0000	.0036
%RSD	174.5	.6646	41.96	3.779	.6276	17.22	1.100
#1	-.0004	1.289	.0147	.0527	.0670	.0001	.3324
#2	.0005	1.279	.0300	.0546	.0670	.0002	.3253
#3	.0023	1.272	.0371	.0568	.0663	.0002	.3303

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.753	.0021	-.0169	.0067	.0559	.0042	.0039
SDev	.008	.0007	.0099	.0011	.0012	.0006	.0014
%RSD	.4462	32.94	58.74	16.22	2.198	14.30	35.76
#1	1.757	.0023	-.0251	.0059	.0545	.0039	.0024
#2	1.758	.0013	-.0197	.0063	.0562	.0038	.0040
#3	1.744	.0027	-.0059	.0080	.0569	.0049	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	3.203	.9767	.0096	.0061	.1799	.0387
SDev	.0003	.023	.1661	.0018	.0011	.0117	.0002
%RSD	22.10	.7103	17.01	18.88	17.79	6.482	.5745
#1	.0013	3.221	.8294	.0079	.0049	.1792	.0389
#2	.0015	3.212	.9439	.0094	.0066	.1686	.0388
#3	.0020	3.178	1.157	.0115	.0069	.1919	.0385

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	1140.	.0320	1.963	.6150	.1266	.0069
SDev	.0011	12.	.0080	.008	.0175	.0115	.0216
%RSD	21.27	1.095	25.06	.3949	2.854	9.044	312.6
#1	.0040	1147.	.0262	1.969	.5964	.1194	-.0132
#2	.0054	1146.	.0287	1.965	.6313	.1206	.0041
#3	.0061	1125.	.0412	1.954	.6174	.1398	.0297

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0253	.0083	.0214	.2530	.0601	2.936	.0197
SDev	.0138	.0041	.0076	.0049	.0139	.030	.0008
%RSD	54.35	49.12	35.26	1.938	23.12	1.006	4.052
#1	.0153	.0064	.0128	.2480	.0568	2.958	.0192
#2	.0197	.0055	.0268	.2531	.0481	2.949	.0194
#3	.0410	.0130	.0247	.2578	.0753	2.903	.0207

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1085	.0063	.0161	6.757	.0038	.0158	.0032
SDev	.0037	.0008	.0016	.049	.0009	.0030	.0007

%RSD	3.438	13.24	9.944	.7281	24.48	19.16	23.45
#1	.1086	.0058	.0146	6.764	.0030	.0134	.0027
#2	.1047	.0059	.0178	6.802	.0036	.0148	.0027
#3	.1121	.0073	.0159	6.704	.0048	.0192	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0164	3.066
SDev	.0006	.029
%RSD	3.882	.9372
#1	.0162	3.084
#2	.0172	3.081
#3	.0159	3.033

Analysis Report Tue 09-12-95 05:31:51 PM page 1

Method: ICP1 Sample Name: 95-007946-N1 @2 Operator: DRS
Run Time: 09/12/95 17:30:32
Comment: QTR SEG 4B @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	6.027	.0579	.2331	.2993	.0007	1.520
SDev	.0012	.055	.0069	.0003	.0027	.0000	.014
%RSD	45.58	.9123	11.97	.1216	.9015	6.581	.9529
#1	-.0039	6.091	.0570	.2327	.3025	.0006	1.532
#2	-.0015	5.997	.0514	.2333	.2979	.0007	1.504
#3	-.0024	5.994	.0651	.2331	.2977	.0007	1.524

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.324	.0060	-.0898	.0204	.2578	.0169	.0072
SDev	.047	.0011	.0121	.0009	.0024	.0020	.0013
%RSD	.5610	17.56	13.44	4.506	.9301	11.74	17.44
#1	8.377	.0073	-.1036	.0196	.2557	.0148	.0058
#2	8.308	.0053	-.0811	.0201	.2604	.0187	.0079
#3	8.289	.0055	-.0847	.0214	.2573	.0172	.0080

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	14.65	2.641	.0307	.0172	.7854	.1768
SDev	.0001	.11	.183	.0019	.0007	.0148	.0012
%RSD	3.043	.7699	6.911	6.268	4.096	1.880	.6651
#1	.0044	14.78	2.434	.0285	.0167	.7771	.1782
#2	.0047	14.60	2.712	.0322	.0180	.8025	.1764
#3	.0047	14.58	2.777	.0315	.0170	.7767	.1759

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0140	4246.	.0864	9.015	2.068	.5357	-.1047
SDev	.0015	62.	.0073	.063	.031	.0027	.0233
%RSD	10.98	1.449	8.384	.7042	1.485	.5070	22.25
#1	.0128	4317.	.0782	9.088	2.089	.5351	-.1315
#2	.0134	4212.	.0919	8.974	2.082	.5386	-.0933
#3	.0157	4209.	.0892	8.984	2.033	.5333	-.0893

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0465	.0323	.0639	1.232	.0318	13.48	.0542
SDev	.0072	.0064	.0064	.005	.0408	.12	.0059
%RSD	15.56	19.84	10.08	.3691	128.7	.8890	10.92
#1	.0398	.0251	.0579	1.236	-.0148	13.62	.0485
#2	.0542	.0375	.0707	1.231	.0482	13.41	.0537
#3	.0455	.0341	.0632	1.227	.0618	13.41	.0603

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4676	.0249	.0562	29.46	.0108	.0332	.0109
SDev	.0055	.0003	.0051	.17	.0009	.0036	.0005

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%RSD	1.182	1.325	9.094	.5660	8.550	10.87	4.227
#1	.4739	.0246	.0503	29.65	.0097	.0352	.0104
#2	.4651	.0252	.0594	29.34	.0113	.0290	.0112
#3	.4637	.0249	.0589	29.40	.0113	.0353	.0112

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0806	11.52
SDev	.0007	.11
%RSD	.8480	.9856
#1	.0809	11.65
#2	.0810	11.46
#3	.0798	11.45

Analysis Report Tue 09-12-95 05:36:00 PM page

Method: ICP1 Sample Name: 95-007947-N1 @10 Operator: DRS
Run Time: 09/12/95 17:34:40
Comment: QTR SEG 4C @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.8162	.0251	.0302	.0124	.0002	.1128
SDev	.0009	.0027	.0018	.0009	.0003	.0000	.0017
%RSD	15.89	.3322	7.203	2.867	2.057	2.605	1.513
#1	.0045	.8130	.0269	.0292	.0123	.0002	.1145
#2	.0059	.8178	.0233	.0307	.0122	.0002	.1129
#3	.0061	.8177	.0251	.0308	.0127	.0002	.1111

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.245	.0022	.0294	.0076	.0115	.0101	.0066
SDev	.007	.0004	.0032	.0006	.0004	.0001	.0003
%RSD	.3117	18.14	10.84	7.814	3.475	.7966	5.304
#1	2.248	.0020	.0274	.0072	.0115	.0102	.0064
#2	2.237	.0020	.0331	.0083	.0112	.0100	.0063
#3	2.250	.0027	.0278	.0074	.0120	.0100	.0070

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	3.889	1.479	.0152	.0079	.1612	.0410
SDev	.0002	.011	.074	.0010	.0009	.0030	.0002
%RSD	10.30	.2922	4.992	6.343	11.40	1.857	.5356
#1	.0022	3.895	1.402	.0141	.0069	.1622	.0412
#2	.0023	3.876	1.550	.0159	.0085	.1635	.0408
#3	.0027	3.897	1.484	.0156	.0082	.1578	.0410

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0086	1106.	.0505	.7509	.4575	.1627	.0786
SDev	.0008	5.	.0068	.0055	.0107	.0043	.0124
%RSD	8.885	.4963	13.55	.7295	2.329	2.623	15.80
#1	.0093	1112.	.0430	.7504	.4642	.1612	.0643
#2	.0086	1102.	.0563	.7457	.4452	.1675	.0844
#3	.0078	1103.	.0521	.7567	.4631	.1594	.0871

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0498	.0222	.0318	.1674	.1213	.1417	.0303
SDev	.0048	.0065	.0094	.0041	.0228	.0006	.0036
%RSD	9.659	29.33	29.65	2.455	18.81	.4550	11.85
#1	.0447	.0279	.0216	.1667	.0950	.1423	.0266
#2	.0543	.0236	.0403	.1718	.1352	.1410	.0305
#3	.0504	.0151	.0335	.1637	.1337	.1417	.0338

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0816	.0059	.0219	5.772	.0059	.0155	.0043
SDev	.0124	.0005	.0088	.041	.0003	.0069	.0002

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%RSD	15.16	7.951	40.11	.7136	5.301	44.53	3.965
#1	.0929	.0054	.0123	5.725	.0055	.0203	.0042
#2	.0834	.0063	.0240	5.788	.0059	.0185	.0045
#3	.0684	.0061	.0296	5.803	.0061	.0076	.0042

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0261	1.592
SDev	.0013	.003
%RSD	4.960	.1933
#1	.0250	1.590
#2	.0275	1.596
#3	.0259	1.591

Analysis Report Tue 09-12-95 05:40:48 PM page 1

Method: ICP1 Sample Name: 95-007947-N1 @2 Operator: DRS
Run Time: 09/12/95 17:39:28
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	3.886	.0598	.1331	.0519	.0005	.4879
SDev	.0005	.013	.0023	.0019	.0001	.0000	.0043
%RSD	8.924	.3460	3.845	1.453	.1334	5.125	.8911
#1	.0056	3.897	.0584	.1344	.0520	.0005	.4888
#2	.0052	3.871	.0625	.1309	.0518	.0005	.4832
#3	.0062	3.890	.0585	.1339	.0518	.0005	.4918

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.79	.0049	.0229	.0175	.0509	.0345	.0051
SDev	.02	.0027	.0018	.0002	.0017	.0007	.0007
%RSD	.2062	54.90	7.883	1.361	3.373	2.128	13.27
#1	10.82	.0040	.0219	.0173	.0521	.0339	.0044
#2	10.77	.0028	.0219	.0176	.0517	.0343	.0051
#3	10.79	.0079	.0250	.0177	.0490	.0353	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	18.20	2.379	.0300	.0166	.6692	.1912
SDev	.0001	.05	.096	.0017	.0008	.0064	.0011
%RSD	2.358	.2843	4.032	5.573	4.725	.9552	.5614
#1	.0040	18.26	2.270	.0284	.0157	.6658	.1924
#2	.0040	18.16	2.417	.0297	.0171	.6652	.1904
#3	.0042	18.20	2.450	.0317	.0171	.6766	.1907

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0201	4276.	.0908	3.509	.8392	.5983	-.0334
SDev	.0009	25.	.0010	.012	.0094	.0033	.0074
%RSD	4.406	.5907	1.117	.3471	1.120	.5449	22.09
#1	.0207	4301.	.0897	3.522	.8380	.5976	-.0410
#2	.0191	4250.	.0908	3.498	.8305	.5954	-.0263
#3	.0206	4276.	.0918	3.507	.8491	.6018	-.0328

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0464	.0294	.0644	.8129	-.0105	.6590	.0413
SDev	.0027	.0085	.0095	.0018	.0191	.0025	.0052
%RSD	5.726	28.78	14.80	.2267	183.0	.3768	12.54
#1	.0450	.0233	.0587	.8149	-.0315	.6618	.0400
#2	.0447	.0391	.0591	.8113	-.0058	.6571	.0471
#3	.0495	.0258	.0754	.8126	.0060	.6582	.0370

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3531	.0176	.0434	24.55	.0093	.0286	.0105
SDev	.0063	.0004	.0057	.08	.0003	.0111	.0001

%RSD	1.774	2.111	13.03	.3259	3.717	38.85	1.325
#1	.3468	.0173	.0485	24.62	.0089	.0255	.0106
#2	.3593	.0174	.0373	24.46	.0096	.0194	.0104
#3	.3531	.0180	.0444	24.57	.0093	.0410	.0106

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1294	3.993
SDev	.0004	.009
%RSD	.3476	.2217
#1	.1289	4.002
#2	.1298	3.985
#3	.1296	3.991

Analysis Report QC Standard Tue 09-12-95 05:46:18 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 17:44:59
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DLS 9/12/

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4936	24.55	2.627	1.966	.5223	.0953	24.84
SDev	.0030	.21	.005	.017	.0053	.0007	.17
%RSD	.6053	.8714	.1986	.8894	1.023	.7245	.7040
#1	.4943	24.61	2.626	1.971	.5237	.0956	24.88
#2	.4962	24.73	2.622	1.981	.5268	.0957	24.98
#3	.4903	24.31	2.632	1.947	.5164	.0945	24.64
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.91	.4946	-.0325	1.043	1.039	1.027	.0016
SDev	.11	.0046	.0090	.005	.011	.010	.0009
%RSD	.4447	.9230	27.68	.5120	1.065	1.021	58.87
#1	24.96	.4943	-.0344	1.044	1.036	1.027	.0014
#2	24.99	.4993	-.0404	1.047	1.052	1.038	.0008
#3	24.79	.4902	-.0227	1.037	1.030	1.017	.0026
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	20.78	24.19	.0058	1.826	27.03	.5117
SDev	.0004	.13	.12	.0008	.024	.15	.0033
%RSD	16.46	.6371	.5078	14.57	1.332	.5593	.6427
#1	.0022	20.83	24.07	.0056	1.830	27.07	.5134
#2	.0019	20.88	24.32	.0051	1.848	27.15	.5137
#3	.0027	20.63	24.19	.0068	Q1.800	26.86	.5079
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.046	25.64	.0169	1.076	.0566	2.644	-.0087
SDev	.005	.29	.0079	.005	.0168	.010	.0220
%RSD	.4989	1.126	46.65	.4965	29.70	.3936	251.2
#1	1.048	25.63	.0160	1.080	.0759	2.633	-.0127
#2	1.050	25.93	.0095	1.077	.0486	2.654	-.0285
#3	1.040	25.35	.0253	1.070	.0452	2.647	.0149
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	2.585	2.546	19.10	-.1748	.5481	-.0046
SDev	.0105	.017	.009	.12	.0499	.0052	.0036
%RSD	167.6	.6447	.3718	.6537	28.56	.9491	77.73
#1	.0038	2.567	2.535	19.14	-.2066	.5495	-.0051
#2	-.0028	2.590	2.552	19.21	-.2005	Q.5524	-.0078
#3	.0177	2.599	2.551	18.96	-.1172	.5423	-.0008
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0433	1.023	2.524	.2112	1.011	.0318	.0006
SDev	.0031	.008	.017	.1186	.006	.0063	.0005
%RSD	7.225	.8016	.6744	56.17	.5666	19.80	79.47
#1	.0401	1.026	2.521	.2130	1.013	.0390	.0003
#2	.0464	1.030	2.542	.0917	1.016	.0282	.0004
#3	.0434	1.014	2.509	.3290	1.005	.0280	.0012
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	2.103
SDev	.004	.018
%RSD	.3613	.8652
#1	1.030	2.112
#2	1.038	2.115
#3	1.033	2.082
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: SST-ICS-1 95-9~~11~~1101 Operator: DRS
Run Time: 09/12/95 17:52:17
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	91.24	.1788	.0002	.0007	.0007	.0656
SDev	.0011	.64	.0103	.0014	.0002	.0000	.0110
%RSD	18.34	.7045	5.733	664.5	29.08	3.652	16.82
#1	-.0057	90.99	.1752	.0018	.0008	.0007	.0783
#2	-.0072	91.98	.1709	-.0006	.0005	.0007	.0579
#3	-.0051	90.77	.1904	-.0006	.0007	.0007	.0607

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0467	.0091	-.1297	.0106	.0404	-.0139	.0012
SDev	.0014	.0003	.0073	.0001	.0022	.0013	.0009
%RSD	2.936	3.888	5.612	1.129	5.346	9.031	75.64
#1	.0465	.0089	-.1315	.0106	.0384	-.0127	.0019
#2	.0455	.0095	-.1358	.0107	.0427	-.0152	.0002
#3	.0482	.0088	-.1216	.0105	.0402	-.0139	.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	18.55	.5456	.0090	.0128	.3141	.0021
SDev	.0003	.10	.1229	.0005	.0014	.0082	.0004
%RSD	16.39	.5143	22.52	5.995	10.74	2.622	18.20
#1	.0019	18.53	.6657	.0089	.0142	.3124	.0026
#2	.0014	18.65	.4201	.0086	.0115	.3069	.0018
#3	.0019	18.47	.5511	.0096	.0125	.3231	.0020

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0151	3733.	.0098	48.20	.0922	.2407	-.3180
SDev	.0022	23.	.0059	.16	.0061	.0061	.0127
%RSD	14.62	.6233	60.34	.3388	6.571	2.553	4.004
#1	.0155	3722.	.0132	48.24	.0956	.2468	-.3104
#2	.0127	3760.	.0030	48.35	.0852	.2407	-.3327
#3	.0171	3717.	.0133	48.03	.0957	.2345	-.3108

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	.0207	.0624	-.0054	-.1215	.0008	.0247
SDev	.0053	.0043	.0094	.0030	.0352	.0001	.0101
%RSD	42.20	20.91	15.02	56.56	28.95	11.42	41.08
#1	.0148	.0257	.0619	-.0068	-.0877	.0008	.0347
#2	.0064	.0182	.0533	-.0075	-.1579	.0007	.0145
#3	.0161	.0182	.0720	-.0019	-.1189	.0008	.0248

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6876	.0033	.2265	46.60	.0053	.0534	.0052
SDev	.0093	.0006	.0070	.28	.0011	.0057	.0004

%RSD	1.358	17.50	3.080	.6095	20.23	10.61	8.801
#1	.6967	.0039	.2289	46.45	.0063	.0530	.0057
#2	.6880	.0028	.2319	46.93	.0042	.0479	.0048
#3	.6781	.0033	.2186	46.42	.0056	.0592	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0299	9.691
SDev	.0013	.065
%RSD	4.246	.6663
#1	-.0310	9.662
#2	-.0302	9.765
#3	-.0285	9.646

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 17:56:38
Comment: QTR SEG 4C @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0102	.0030	.0002	.0002	.0000	-.0006
SDev	.0003	.0060	.0014	.0010	.0000	.0000	.0043
%RSD	11.36	58.23	47.01	464.9	.5997	289.5	739.3
#1	.0026	.0104	.0046	-.0009	.0002	-.0000	-.0033
#2	.0023	.0161	.0023	.0011	.0002	.0000	.0044
#3	.0029	.0042	.0021	.0005	.0002	-.0000	-.0028

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0034	.0022	.0101	.0025	-.0010	.0027	.0023
SDev	.0010	.0018	.0014	.0005	.0018	.0008	.0002
%RSD	29.05	83.44	13.53	20.39	175.7	29.70	10.47
#1	.0039	.0006	.0107	.0019	.0003	.0034	.0023
#2	.0041	.0018	.0111	.0027	-.0003	.0029	.0025
#3	.0023	.0041	.0086	.0029	-.0030	.0018	.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0019	.4365	.0026	.0029	.0081	.0004
SDev	.0002	.0007	.1022	.0007	.0005	.0026	.0003
%RSD	25.50	38.41	23.42	27.97	17.62	31.99	84.01
#1	.0008	.0027	.4692	.0029	.0034	.0101	.0004
#2	.0008	.0019	.5184	.0032	.0030	.0090	.0007
#3	.0005	.0012	.3219	.0018	.0024	.0052	.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	.0901	.0109	.0032	.0099	.0146	.0281
SDev	.0005	.0448	.0010	.0023	.0105	.0074	.0086
%RSD	20.15	49.74	9.570	72.41	106.5	50.80	30.51
#1	.0024	.1017	.0101	.0053	.0098	.0130	.0341
#2	.0028	.1280	.0121	.0036	-.0006	.0226	.0319
#3	.0019	.0406	.0105	.0007	.0204	.0081	.0183

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0145	.0006	.0092	-.0062	.0678	.0006	.0059
SDev	.0018	.0052	.0103	.0022	.0104	.0001	.0041
%RSD	12.17	892.6	112.6	35.81	15.38	18.72	70.02
#1	.0148	.0062	.0171	-.0044	.0652	.0007	.0084
#2	.0161	-.0041	.0128	-.0056	.0793	.0006	.0082
#3	.0126	-.0004	-.0025	-.0087	.0590	.0005	.0011

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0090	.0009	.0021	.1934	.0015	.0051	.0008
SDev	.0019	.0001	.0041	.0549	.0004	.0070	.0003

%RSD	21.03	11.79	196.0	28.41	25.87	136.0	40.60
#1	.0099	.0010	-.0013	.2148	.0018	.0046	.0010
#2	.0069	.0010	.0067	.2345	.0017	.0123	.0010
#3	.0103	.0008	.0009	.1310	.0011	-.0016	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0011	.0013
SDev	.0005	.0002
%RSD	45.07	13.19
#1	.0009	.0013
#2	.0017	.0015
#3	.0008	.0012

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Method: ICP1 Sample Name: 95-007948-N1 @10 Operator: DRS
Run Time: 09/12/95 17:58:51
Comment: QTR SEG 4D @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0048	.9648	.0325	.0485	.0147	.0001	.1277
SDev	.0014	.0050	.0124	.0022	.0001	.0001	.0080
%RSD	28.08	.5195	38.25	4.621	.4872	39.72	6.284
#1	.0052	.9596	.0458	.0511	.0146	.0001	.1241
#2	.0059	.9695	.0306	.0471	.0147	.0002	.1368
#3	.0033	.9655	.0211	.0474	.0147	.0001	.1220

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.329	.0027	.0263	.0075	.0140	.0145	.0049
SDev	.007	.0015	.0061	.0013	.0005	.0011	.0012
%RSD	.5266	55.67	23.07	17.48	3.377	7.349	25.07
#1	1.321	.0013	.0308	.0084	.0140	.0137	.0057
#2	1.330	.0026	.0287	.0081	.0135	.0157	.0056
#3	1.335	.0043	.0194	.0060	.0145	.0142	.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	5.075	1.211	.0134	.0074	.1824	.0601
SDev	.0003	.045	.248	.0014	.0011	.0073	.0002
%RSD	17.85	.8966	20.51	10.82	14.71	3.989	.2779
#1	.0022	5.028	1.435	.0139	.0066	.1823	.0599
#2	.0021	5.078	1.255	.0144	.0086	.1897	.0602
#3	.0015	5.118	.9439	.0117	.0070	.1752	.0602

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	1088.	.0428	.8640	.2167	.3626	.0503
SDev	.0004	13.	.0072	.0025	.0062	.0024	.0244
%RSD	7.160	1.234	16.82	.2842	2.875	.6609	48.57
#1	.0059	1077.	.0482	.8612	.2174	.3630	.0736
#2	.0054	1085.	.0455	.8649	.2101	.3648	.0522
#3	.0062	1103.	.0346	.8659	.2225	.3601	.0249

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0391	.0249	.0266	.2050	.0819	.1801	.0260
SDev	.0056	.0009	.0137	.0023	.0279	.0021	.0067
%RSD	14.34	3.795	51.60	1.121	34.14	1.136	25.98
#1	.0444	.0253	.0352	.2074	.1101	.1781	.0243
#2	.0396	.0255	.0108	.2046	.0813	.1799	.0334
#3	.0332	.0238	.0339	.2029	.0542	.1822	.0203

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0900	.0063	.0156	6.552	.0049	.0177	.0042
SDev	.0028	.0008	.0083	.060	.0007	.0032	.0005

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0202	-.0072	Q.0074	-.0005	-.0543	Q.2807	-.0123
SDev	.0096	.0050	.0108	.0053	.0192	.0019	.0011
%RSD	47.77	68.84	145.1	1151.	35.35	.6595	9.017
#1	-.0282	-.0081	Q.0157	-.0046	-.0761	Q.2823	-.0130
#2	-.0228	-.0117	Q-.0048	-.0023	-.0467	Q.2811	-.0129
#3	-.0095	-.0019	Q.0114	.0055	-.0401	Q.2787	-.0110
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	.0074	.0100	.0074	Q.0270	-.0009	-.0023
SDev	.0052	.0003	.0040	.1002	.0005	.0091	.0003
%RSD	83.61	4.629	40.60	1347.	1.941	980.8	13.43
#1	-.0114	.0073	.0055	-.0396	Q.0269	-.0101	-.0024
#2	-.0063	.0072	Q.0134	-.0606	Q.0265	-.0008	-.0024
#3	-.0010	.0078	.0110	.1225	Q.0276	.0081	-.0019
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0862	-.0026
SDev	.0019	.0002
%RSD	2.243	6.967
#1	Q.0851	-.0024
#2	Q.0885	-.0028
#3	Q.0852	-.0025
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

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Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/12/95 18:33:05
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	1.881	2.012	1.900	1.026	.9633	1.928
SDev	.0013	.015	.019	.023	.013	.0098	.023
%RSD	1477.	.8071	.9492	1.215	1.276	1.013	1.217
#1	.0015	1.863	1.999	1.876	1.012	.9535	1.913
#2	-.0003	1.886	2.003	1.903	1.028	.9635	1.916
#3	-.0010	1.892	2.034	1.922	1.038	.9730	1.955

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.899	.9696	.0012	1.037	.5174	2.073	.0002
SDev	.011	.0041	.0108	.007	.0006	.029	.0007
%RSD	.5970	.4198	907.2	.6589	.1201	1.412	405.1
#1	1.889	.9651	.0125	1.032	.5181	2.040	.0008
#2	1.895	.9728	.0001	1.034	.5171	2.083	.0003
#3	1.911	.9710	-.0090	1.045	.5169	2.096	-.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	2.017	5.205	.0010	1.954	2.122	1.004
SDev	.0002	.018	.200	.0017	.028	.021	.008
%RSD	77.13	.9100	3.843	172.2	1.430	.9781	.8319
#1	.0005	1.998	5.380	.0029	1.922	2.105	.9948
#2	.0002	2.019	5.249	-.0004	1.975	2.116	1.005
#3	.0001	2.035	4.987	.0005	1.966	2.145	1.011

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.006	8.714	.0026	2.095	4.744	2.066	-.0038
SDev	.014	.106	.0079	.017	.059	.008	.0150
%RSD	.7095	1.215	310.1	.8289	1.248	.3796	391.0
#1	1.992	8.594	.0112	2.079	4.677	2.063	.0125
#2	2.005	8.796	.0008	2.093	4.766	2.060	-.0070
#3	2.020	8.752	-.0044	2.113	4.789	2.075	-.0170

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0087	1.959	4.936	-.0140	2.141	-.0215
SDev	.0077	.0123	.036	.046	.0443	.026	.0053
%RSD	1975.	141.0	1.857	.9235	315.4	1.212	24.71
#1	.0078	-.0025	1.922	4.885	.0366	2.115	-.0174
#2	-.0015	-.0008	1.962	4.951	-.0332	2.143	-.0196
#3	-.0075	-.0229	1.994	4.972	-.0455	2.166	-.0275

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.0007	1.928	.0254	.9684	-.0029	-.0000
SDev	.0072	.0003	.010	.0876	.0083	.0061	.0001

%RSD	142.8	40.06	.5135	344.2	.8581	213.2	548.3
#1	.0132	.0010	1.919	.1074	.9598	-.0098	.0000
#2	.0002	.0006	1.927	.0358	.9689	.0013	.0001
#3	.0016	.0005	1.938	-.0669	.9764	-.0001	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.035	-.0012
SDev	.009	.0006
%RSD	.9001	49.13
#1	1.028	-.0006
#2	1.032	-.0013
#3	1.046	-.0017

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/12/95 18:36:05
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	-.0002	.0028	-.0038	.0000	.0001	-.0022
SDev	.0002	.0035	.0043	.0010	.0001	.0000	.0095
%RSD	25.59	1603.	153.5	26.54	169.1	2.276	431.5
#1	-.0010	.0038	.0037	-.0033	.0001	.0001	.0014
#2	-.0010	-.0027	-.0019	-.0031	.0000	.0001	.0050
#3	-.0006	-.0018	.0065	-.0049	.0000	.0001	-.0130

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0049	.0003	-.0034	.0002	-.0018	.0004	.0001
SDev	.0006	.0014	.0016	.0006	.0017	.0009	.0003
%RSD	11.40	507.9	46.64	251.5	90.54	204.8	227.0
#1	-.0055	-.0012	-.0021	.0005	-.0020	.0002	-.0001
#2	-.0043	.0017	-.0052	-.0004	-.0034	.0014	.0004
#3	-.0050	.0004	-.0029	.0006	-.0001	-.0003	.0000

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0008	-.0764	-.0002	.0005	-.0018	.0003
SDev	.0002	.0001	.0526	.0010	.0010	.0023	.0001
%RSD	138.2	17.84	68.89	522.0	228.4	129.2	52.09
#1	-.0002	-.0009	-.1364	-.0009	.0014	-.0036	.0001
#2	.0001	-.0006	-.0382	.0010	-.0007	-.0025	.0004
#3	-.0003	-.0009	-.0546	-.0006	.0007	.0008	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	-.1720	-.0042	-.0015	-.0030	-.0005	-.0179
SDev	.0015	.0025	.0027	.0027	.0036	.0035	.0035
%RSD	68.63	1.460	64.51	178.4	121.6	721.6	19.31
#1	.0005	-.1734	-.0071	-.0038	.0010	.0005	-.0216
#2	.0033	-.1691	-.0019	-.0022	-.0037	.0025	-.0175
#3	.0028	-.1735	-.0034	.0015	-.0062	-.0044	-.0147

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	-.0077	-.0050	-.0207	-.0079	.0007	-.0089
SDev	.0011	.0029	.0100	.0014	.0260	.0001	.0044
%RSD	39.42	37.76	200.0	6.827	328.6	9.965	49.25
#1	-.0040	-.0106	-.0049	-.0222	-.0377	.0006	-.0116
#2	-.0022	-.0077	.0049	-.0194	.0099	.0007	-.0039
#3	-.0021	-.0048	-.0151	-.0206	.0041	.0006	-.0114

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0001	-.0081	-.0592	-.0003	-.0030	-.0002
SDev	.0041	.0002	.0065	.0174	.0001	.0078	.0002

%RSD	114.7	220.2	80.08	29.37	17.27	263.4	98.80
#1	-.0010	.0001	-.0150	-.0793	-.0004	-.0102	-.0004
#2	.0070	-.0001	-.0020	-.0500	-.0003	-.0040	-.0001
#3	.0046	.0003	-.0075	-.0484	-.0003	.0053	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0010	-.0014
SDev	.0006	.0002
%RSD	58.18	17.03
#1	-.0003	-.0013
#2	-.0014	-.0013
#3	-.0012	-.0017

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%RSD	3.131	11.89	52.87	.9162	14.02	18.06	11.60
#1	.0868	.0066	.0213	6.595	.0053	.0145	.0043
#2	.0920	.0068	.0195	6.483	.0054	.0209	.0047
#3	.0912	.0054	.0061	6.577	.0041	.0179	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0345	.8404
SDev	.0001	.0080
%RSD	.2543	.9468
#1	.0346	.8314
#2	.0344	.8435
#3	.0344	.8464

Analysis Report Tue 09-12-95 06:04:03 PM page 1

Method: ICP1 Sample Name: 95-007948-N1 @2 Operator: DRS
Run Time: 09/12/95 18:02:44
Comment: QTR SEG 4D @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0076	4.496	.0634	.2188	.0631	.0005	.5919
SDev	.0011	.056	.0053	.0049	.0006	.0000	.0009
%RSD	14.17	1.251	8.309	2.254	.9981	2.610	.1602
#1	.0079	4.481	.0585	.2138	.0627	.0005	.5919
#2	.0084	4.448	.0689	.2190	.0627	.0005	.5909
#3	.0063	4.558	.0627	.2237	.0638	.0005	.5928

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.306	.0069	.0600	.0202	.0601	.0575	.0060
SDev	.053	.0013	.0109	.0005	.0024	.0006	.0014
%RSD	.8401	18.43	18.17	2.421	4.018	.9905	23.02
#1	6.287	.0082	.0674	.0199	.0604	.0571	.0065
#2	6.265	.0066	.0651	.0207	.0576	.0573	.0071
#3	6.366	.0058	.0475	.0199	.0624	.0582	.0045

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	23.11	2.630	.0357	.0173	.7562	.2743
SDev	.0001	.23	.205	.0012	.0011	.0018	.0018
%RSD	2.670	.9858	7.799	3.371	6.316	.2381	.6474
#1	.0048	23.03	2.646	.0350	.0165	.7578	.2738
#2	.0047	22.94	2.826	.0370	.0185	.7543	.2729
#3	.0046	23.37	2.417	.0350	.0168	.7567	.2763

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0154	4041.	.1095	3.968	.7910	1.572	-.0275
SDev	.0003	43.	.0069	.045	.0256	.006	.0208
%RSD	2.304	1.074	6.297	1.130	3.231	.3529	75.85
#1	.0151	4038.	.1121	3.988	.7931	1.568	-.0281
#2	.0158	3999.	.1148	3.917	.7644	1.570	-.0063
#3	.0153	4086.	.1017	4.000	.8154	1.579	-.0480

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0555	.0310	.0789	.9824	-.0165	.8079	.0630
SDev	.0078	.0024	.0158	.0050	.0192	.0100	.0054
%RSD	13.99	7.772	20.08	.5079	116.2	1.243	8.544
#1	.0572	.0290	.0843	.9775	-.0064	.8041	.0645
#2	.0623	.0337	.0913	.9821	-.0044	.8004	.0675
#3	.0471	.0303	.0611	.9875	-.0386	.8193	.0570

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4141	.0223	.0435	27.89	.0114	.0407	.0137
SDev	.0038	.0004	.0047	.18	.0014	.0047	.0006

%RSD	.9276	1.678	10.77	.6493	11.80	11.54	4.636
#1	.4150	.0227	.0442	27.82	.0124	.0397	.0140
#2	.4100	.0223	.0477	27.76	.0119	.0366	.0141
#3	.4175	.0219	.0385	28.10	.0099	.0458	.0129

Elem	Zn	Zr
Units	ppm	ppm
Avge	.1667	3.441
SDev	.0015	.044
%RSD	.8809	1.274
#1	.1682	3.420
#2	.1653	3.412
#3	.1667	3.492

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Method: ICP1 Sample Name: SRM-2709-N @10X DIL Operator: DRS
Run Time: 09/12/95 18:08:32
Comment: SOIL STD @10X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	10.53	.0495	.0362	.1388	.0011	.0288
SDev	.0009	.04	.0051	.0024	.0007	.0000	.0064
%RSD	41.57	.3779	10.24	6.520	.5297	.5956	22.27
#1	.0016	10.57	.0551	.0380	.1395	.0011	.0218
#2	.0017	10.54	.0453	.0335	.1388	.0011	.0301
#3	.0032	10.49	.0479	.0371	.1380	.0011	.0345

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.228	.0032	-.0228	.0116	.0369	.0139	.0101
SDev	.007	.0018	.0092	.0012	.0007	.0008	.0009
%RSD	.2215	57.52	40.36	10.00	1.920	5.993	8.861
#1	3.236	.0024	-.0311	.0105	.0377	.0133	.0099
#2	3.224	.0019	-.0245	.0116	.0364	.0136	.0093
#3	3.224	.0053	-.0129	.0128	.0366	.0149	.0110

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	5.352	4.158	.0182	.0158	2.425	.0839
SDev	.0002	.019	.157	.0012	.0005	.017	.0008
%RSD	7.122	.3514	3.783	6.599	3.278	.6868	.9550
#1	.0032	5.371	3.989	.0170	.0163	2.443	.0848
#2	.0033	5.352	4.185	.0182	.0153	2.421	.0836
#3	.0036	5.333	4.300	.0194	.0156	2.410	.0832

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0095	1111.	.0597	.0861	.1437	.2768	.1200
SDev	.0001	6.	.0052	.0030	.0155	.0007	.0156
%RSD	.9357	.5791	8.717	3.525	10.81	.2473	12.97
#1	.0094	1117.	.0538	.0826	.1486	.2760	.1031
#2	.0095	1111.	.0620	.0878	.1263	.2771	.1231
#3	.0096	1104.	.0634	.0878	.1563	.2773	.1338

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0669	.0292	.0545	43.13	.1486	.0434	.0370
SDev	.0059	.0119	.0059	.17	.0086	.0001	.0022
%RSD	8.768	40.85	10.89	.3940	5.824	.2789	5.846
#1	.0618	.0301	.0605	43.31	.1402	.0435	.0374
#2	.0655	.0168	.0486	43.11	.1481	.0434	.0390
#3	.0733	.0406	.0544	42.97	.1575	.0433	.0347

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0463	.4978	.0512	.6999	.0234	.0318	.0062
SDev	.0052	.0025	.0048	.0477	.0005	.0111	.0004

%RSD	11.24	.4937	9.296	6.810	2.219	34.99	7.321
#1	.0523	.5006	.0458	.6471	.0228	.0190	.0058
#2	.0440	.4970	.0548	.7130	.0234	.0375	.0061
#3	.0427	.4959	.0530	.7397	.0239	.0389	.0067

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0199	5.470
SDev	.0003	.023
%RSD	1.237	.4281
#1	.0198	5.490
#2	.0197	5.475
#3	.0201	5.444

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Method: ICP1 Sample Name: SRM-2709-N @2 Operator: DRS
Run Time: 09/12/95 18:12:26
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0168	50.30	.1433	.1672	.6347	.0046	.0719
SDev	.0018	.78	.0081	.0025	.0098	.0000	.0037
%RSD	10.59	1.549	5.641	1.503	1.549	.4049	5.087
#1	-.0152	49.72	.1519	.1648	.6271	.0046	.0702
#2	-.0187	51.19	.1359	.1698	.6458	.0046	.0695
#3	-.0165	50.00	.1420	.1670	.6313	.0046	.0761

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.22	.0069	-.3170	.0259	.1595	.0478	.0174
SDev	.14	.0008	.0142	.0012	.0007	.0008	.0012
%RSD	.9118	11.30	4.491	4.783	.4407	1.634	6.934
#1	15.12	.0074	-.3083	.0253	.1603	.0477	.0179
#2	15.37	.0072	-.3334	.0250	.1589	.0471	.0161
#3	15.16	.0060	-.3091	.0273	.1593	.0487	.0184

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0077	24.52	13.99	.0378	.0441	10.96	.3863
SDev	.0004	.28	.09	.0023	.0017	.11	.0044
%RSD	5.081	1.123	.6191	6.051	3.848	.9776	1.152
#1	.0080	24.31	14.06	.0397	.0453	10.88	.3828
#2	.0072	24.83	13.89	.0353	.0422	11.08	.3913
#3	.0078	24.41	14.02	.0385	.0449	10.91	.3848

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0241	4174.	.0978	.3668	.5249	1.098	.0761
SDev	.0018	77.	.0078	.0039	.0199	.002	.0255
%RSD	7.253	1.850	7.987	1.053	3.801	.1541	33.56
#1	.0254	4110.	.1024	.3702	.5454	1.096	.0915
#2	.0221	4260.	.0888	.3676	.5236	1.098	.0466
#3	.0248	4152.	.1023	.3626	.5056	1.099	.0901

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0683	.1020	.1212	207.1	.0547	.1968	.0675
SDev	.0109	.0100	.0109	2.5	.0231	.0031	.0060
%RSD	15.97	9.782	8.977	1.203	42.10	1.562	8.835
#1	.0758	.0958	.1275	205.3	.0743	.1946	.0736
#2	.0558	.0967	.1087	210.0	.0293	.2003	.0618
#3	.0735	.1135	.1275	206.1	.0607	.1955	.0670

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1935	2.294	.2099	.3316	.0851	.0659	.0177
SDev	.0004	.030	.0019	.1317	.0003	.0115	.0004

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%RSD	.2268	1.324	.9128	39.72	.3131	17.45	2.129
#1	.1940	2.273	.2092	.4324	.0848	.0791	.0179
#2	.1934	2.329	.2121	.1826	.0854	.0580	.0173
#3	.1932	2.280	.2085	.3798	.0852	.0605	.0179

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0953	25.60
SDev	.0009	.36
%RSD	.9671	1.421
#1	.0955	25.34
#2	.0943	26.01
#3	.0961	25.44

Analysis Report QC Standard Tue 09-12-95 06:18:20 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/12/95 18:17:01
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4751	23.91	2.523	1.915	.5116	.0920	23.96
SDev	.0015	.02	.009	.003	.0014	.0004	.05
%RSD	.3231	.1044	.3386	.1344	.2718	.4135	.2183
#1	.4758	23.93	2.533	1.916	.5132	.0925	24.00
#2	.4761	23.88	2.518	1.917	.5107	.0919	23.97
#3	.4733	23.92	2.519	1.912	.5110	.0917	23.90
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.95	.4708	-.0429	1.008	1.006	1.004	-.0012
SDev	.06	.0017	.0094	.003	.002	.004	.0005
%RSD	.2544	.3525	22.00	.2735	.2285	.3514	37.77
#1	24.01	.4698	-.0483	1.011	1.004	1.008	-.0016
#2	23.95	.4727	-.0483	1.008	1.009	1.001	-.0013
#3	23.89	.4699	-.0320	1.005	1.006	1.003	-.0007
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	20.09	24.85	.0040	1.861	26.15	.4947
SDev	.0002	.06	.63	.0011	.018	.04	.0014
%RSD	11.71	.3218	2.554	28.24	.9507	.1705	.2827
#1	.0013	20.16	24.40	.0028	1.848	26.20	.4962
#2	.0016	20.07	24.58	.0040	1.854	26.13	.4945
#3	.0016	20.03	25.58	.0051	1.881	26.13	.4934
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.016	26.19	.0019	1.037	.0458	2.534	-.0450
SDev	.006	.36	.0021	.002	.0161	.004	.0010
%RSD	.5699	1.372	113.2	.2064	35.12	.1654	2.229
#1	1.012	25.93	-.0002	1.040	.0561	2.537	-.0456
#2	1.023	26.04	.0041	1.036	.0539	2.537	-.0456
#3	1.014	26.60	.0018	1.036	.0272	2.530	-.0439
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0117	2.486	2.420	18.17	-.2425	.5344	-.0116
SDev	.0035	.019	.013	.04	.0132	.0014	.0022
%RSD	30.03	.7468	.5546	.2219	5.465	.2589	18.96
#1	-.0155	2.473	2.436	18.22	-.2573	.5360	-.0140
#2	-.0085	2.507	2.413	18.15	-.2318	.5337	-.0113
#3	-.0112	2.478	2.411	18.14	-.2384	.5336	-.0096
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0404	.9933	2.416	-.0325	.9805	.0241	-.0003
SDev	.0031	.0030	.009	.0519	.0029	.0038	.0005
%RSD	7.597	.3059	.3716	159.7	.2902	15.72	163.0
#1	.0395	.9967	2.416	-.0899	.9836	.0237	.0002
#2	.0438	.9919	2.424	.0112	.9800	.0281	-.0004
#3	.0378	.9911	2.406	-.0189	.9780	.0206	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9952	2.031
SDev	.0029	.009
%RSD	.2967	.4232
#1	.9920	2.040
#2	.9978	2.028
#3	.9957	2.023
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

WHC-SD-WM-DP-145, REV. 1

Analysis Report Tue 09-12-95 06:22:08 PM page 1

Method: ICP1 Sample Name: SST-ICS-1 ~~95-9111101~~ 950908 I101 Operator: DRS
Run Time: 09/12/95 18:20:49
Comment: SOIL STD @2X DIL SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0050	89.95	.1776	-.0003	.0010	.0007	.0596
SDev	.0016	1.01	.0030	.0021	.0003	.0001	.0050
%RSD	32.73	1.120	1.696	630.4	31.50	8.677	8.444
#1	-.0038	89.65	.1797	.0021	.0010	.0007	.0601
#2	-.0044	89.12	.1742	-.0016	.0013	.0008	.0644
#3	-.0069	91.07	.1789	-.0015	.0007	.0007	.0544

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0481	.0099	-.1214	.0111	.0417	-.0105	.0025
SDev	.0019	.0009	.0117	.0010	.0009	.0019	.0015
%RSD	3.949	8.798	9.631	9.024	2.202	18.09	60.83
#1	.0492	.0098	-.1170	.0115	.0418	-.0095	.0027
#2	.0492	.0108	-.1125	.0118	.0407	-.0092	.0040
#3	.0459	.0090	-.1346	.0099	.0425	-.0126	.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	18.27	.7693	.0120	.0129	.3162	.0021
SDev	.0005	.13	.1840	.0022	.0009	.0077	.0004
%RSD	22.98	.7203	23.91	18.23	6.954	2.444	17.37
#1	.0022	18.21	.8130	.0113	.0135	.3248	.0019
#2	.0025	18.17	.9276	.0145	.0132	.3097	.0025
#3	.0016	18.42	.5675	.0102	.0118	.3141	.0019

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0157	3700.	.0152	47.56	.1086	.2409	-.3014
SDev	.0006	38.	.0084	.26	.0153	.0093	.0229
%RSD	4.161	1.025	55.52	.5381	14.08	3.867	7.596
#1	.0164	3693.	.0140	47.43	.0957	.2411	-.3000
#2	.0152	3666.	.0242	47.39	.1045	.2501	-.2792
#3	.0154	3741.	.0074	47.85	.1255	.2315	-.3249

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0188	.0340	.0627	.0130	-.0929	.0008	.0273
SDev	.0091	.0080	.0125	.0052	.0363	.0001	.0123
%RSD	48.32	23.62	19.98	40.40	39.10	12.30	45.02
#1	.0211	.0378	.0679	.0122	-.0974	.0009	.0282
#2	.0266	.0394	.0717	.0185	-.0546	.0009	.0392
#3	.0088	.0247	.0484	.0081	-.1268	.0007	.0146

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6821	.0040	.2147	45.95	.0063	.0619	.0057
SDev	.0065	.0008	.0016	.45	.0013	.0083	.0007

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%RSD	.9560	19.74	.7257	.9752	21.05	13.41	11.99
#1	.6863	.0045	.2132	45.76	.0065	.0537	.0057
#2	.6854	.0046	.2163	45.63	.0075	.0616	.0064
#3	.6746	.0031	.2147	46.47	.0049	.0703	.0050

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0323	9.522
SDev	.0014	.081
%RSD	4.389	.8549
#1	-.0307	9.501
#2	-.0328	9.454
#3	-.0334	9.612

Analysis Report QC Standard Tue 09-12-95 06:26:42 PM page 1

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/12/95 18:25:22
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.1825	-.0002	-.0041	.0005	.0003	-.0065
SDev	.0013	.0090	.0075	.0011	.0002	.0001	.0062
%RSD	90.44	4.942	4323.	27.48	35.96	18.91	95.54
#1	.0001	-.1920	-.0088	-.0045	.0004	.0002	-.0137
#2	.0014	-.1816	.0034	-.0028	.0005	.0003	-.0022
#3	.0027	-.1740	.0049	-.0049	.0007	.0003	-.0037
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	.0009	2.003	.0038	.0012	-.0067	2.014
SDev	.0015	.0008	.004	.0009	.0006	.0020	.018
%RSD	13.47	91.93	.2204	22.39	48.40	29.02	.8876
#1	.0101	.0000	2.007	.0030	.0007	-.0090	2.031
#2	.0108	.0010	2.003	.0038	.0018	-.0057	2.016
#3	.0130	.0016	1.998	.0047	.0011	-.0056	1.995
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.995	.0059	.2728	1.991	.0019	.0916	.0007
SDev	.017	.0008	.2051	.011	.0016	.0043	.0002
%RSD	.8303	13.95	75.18	.5673	83.82	4.657	26.54
#1	2.010	.0056	.0600	2.002	.0007	.0870	.0005
#2	1.996	.0053	.2892	1.991	.0013	.0925	.0008
#3	1.977	.0069	.4692	1.979	.0037	.0954	.0008
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0420	2.001	.0064	.0018	.0563	Q2.261
SDev	.0010	.0318	.011	.0004	.0024	.0115	.016
%RSD	134.8	75.87	.5437	5.691	135.8	20.42	.7044
#1	-.0000	.0214	2.012	.0061	-.0006	.0443	Q2.254
#2	.0004	.0259	1.998	.0068	.0017	.0572	Q2.279
#3	.0019	.0786	1.991	.0062	.0042	.0673	Q2.250
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

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Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.048	.0003	.0155	.0393	Q1.753	.0007	1.800
SDev	.001	.0060	.0013	.0049	.040	.0001	.008
%RSD	.0679	2311.	8.164	12.37	2.257	17.66	.4518
#1	2.049	-.0043	.0162	.0379	Q1.712	.0006	1.807
#2	2.048	.0070	.0162	.0352	Q1.756	.0007	1.802
#3	2.047	-.0019	.0140	.0447	Q1.791	.0008	Q1.792
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.032	.0010	-.0053	Q8.692	-.0011	Q.5127	.9710
SDev	.030	.0007	.0004	.068	.0012	.0072	.0070
%RSD	.6017	67.13	7.470	.7861	103.6	1.398	.7194
#1	5.066	.0002	-.0058	Q8.720	-.0023	Q.5205	.9771
#2	5.023	.0013	-.0051	Q8.743	-.0011	Q.5064	.9727
#3	5.008	.0014	-.0051	Q8.615	.0000	Q.5112	.9634
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0011	-.0079
SDev	.0004	.0012
%RSD	33.19	15.19
#1	.0015	-.0090
#2	.0010	-.0066
#3	.0008	-.0081
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Tue 09-12-95 06:30:43 PM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/12/95 18:29:24
Comment: SLUDGE (Na2O2 FUSION) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0014	Q.0963	Q.0879	Q.1081	.0510	.0221	.0045
SDev	.0008	.0003	.0038	.0025	.0004	.0001	.0115
%RSD	56.36	.2656	4.301	2.277	.6988	.3377	256.9
#1	Q-.0021	Q.0960	Q.0867	Q.1106	.0512	.0222	-.0088
#2	Q-.0015	Q.0964	Q.0922	Q.1081	.0512	.0222	.0119
#3	Q-.0006	Q.0965	Q.0849	Q.1057	.0506	.0220	.0103
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q35.00	Q.0100	-.0180	.0227	Q.0197	Q.0192	-.0023
SDev	.07	.0002	.0072	.0009	.0017	.0007	.0009
%RSD	.2052	2.276	40.19	3.777	8.577	3.852	39.24
#1	Q35.09	Q.0099	-.0232	.0228	Q.0212	.0196	-.0029
#2	Q34.97	Q.0098	-.0211	Q.0219	Q.0179	Q.0183	-.0028
#3	Q34.96	Q.0102	-.0097	.0236	Q.0201	.0196	-.0013
Errors	QC Fail	QC Fail	NOCHECK	QC Pass	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	Q.1196	Q1.888	.0042	Q.0111	Q10.09	.0349
SDev	.0003	.0006	.115	.0016	.0005	.06	.0002
%RSD	60.51	.5282	6.090	39.04	4.560	.6188	.6443
#1	.0003	Q.1193	Q1.779	.0026	Q.0116	Q10.14	.0346
#2	.0003	Q.1204	Q1.877	.0041	Q.0110	Q10.11	.0351
#3	.0007	Q.1193	Q2.008	.0059	Q.0106	Q10.02	.0350
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1052	Q12.77	-.0042	.0570	.0201	Q.0275	-.0492
SDev	.0006	.26	.0042	.0007	.0102	.0048	.0112
%RSD	.6033	2.009	98.48	1.303	50.47	17.48	22.84
#1	.1048	Q12.92	-.0077	.0575	.0144	Q.0298	-.0532
#2	.1048	Q12.92	-.0055	.0561	.0142	Q.0220	-.0578
#3	.1059	12.47	.0004	.0574	.0319	Q.0307	-.0365
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

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KOH AND Na_2O_2 FUSION SPIKE RERUNS

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DATE TO QC: 09/20/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - KOH & Na2O2 Spike Re-runs

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07941-N1 95-07941-H1T

PNL ACL Quality Representative

9/22/95
Date

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- KOH/Ni Fusions

Core '99
Post Spike Reruns (Special)

File: m091995b
Analyzed: 09/19/95

			Seg 1	Seg 1		Blank	Blank Spk	
		Sam Log#:	95-07941-	95-07941-		95-07941-	95-07941-	
		Split#:	H1T-Smp	H1T-Smp-PS		HCB-Smp	HCB-Smp-PS	
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	4975.1	4975.1		4975.1	4975.1	
		Run Time:	13:46	13:50		13:39	13:43	
Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery	Sample ug/g	Net PSpk ug/mL	Post Spk Recovery
0.015	0.50	Ag	ND	(0.62)	123.0%	ND	(0.60)	120.3%
0.060	75.00	Al	144,823	68.17	90.9%	(1,119)	69.05	92.1%
0.080	2.50	As	ND	(2.83)	113.2%	ND	(2.69)	107.7%
0.020	2.00	B	(442)	1.87	93.7%	(405)	1.84	92.0%
0.010	0.50	Ba	ND	(0.50)	99.7%	ND	(0.47)	94.3%
0.005	0.10	Be	ND	(0.09)	92.1%	ND	(0.09)	89.3%
0.100	25.00	Bi	ND	24.11	96.4%	ND	23.23	92.9%
0.050	50.00	Ca	(749)	48.43	96.9%	(363)	46.80	93.6%
0.015	1.75	Cd	ND	1.74	99.5%	ND	1.73	98.7%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	(68)	1.00	100.1%	(55)	0.98	98.4%
0.020	8.50	Cr	(139)	8.37	98.4%	ND	8.18	96.3%
0.010	1.00	Cu	ND	0.98	97.9%	ND	0.92	92.3%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,606	19.61	98.1%	(674)	19.13	95.7%
2.000	125.00	K	n/a	n/a	n/a	n/a	n/a	n/a
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.87	93.3%	ND	1.82	91.1%
0.100	25.00	Mg	(571)	26.81	107.3%	ND	26.53	106.1%
0.005	1.00	Mn	329	0.98	98.1%	(204)	0.96	95.6%
0.030	1.00	Mo	ND	(1.01)	101.1%	ND	(1.01)	101.1%
0.080	106.85	Na	107,789	94.87	88.8%	4,976	95.32	89.2%
0.050		Nd	ND	ND		ND	(0.27)	
0.030	26.00	Ni	n/a	n/a	n/a	n/a	n/a	n/a
0.100		P	24,798	(0.29)		ND	ND	
0.060	27.50	Pb	(448)	28.33	103.0%	(346)	27.68	100.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	(259)	2.66	106.4%	ND	2.73	109.4%
0.100	2.50	Se	ND	(2.58)	103.1%	ND	(2.57)	102.7%
0.500	70.00	Si	(7,343)	66.81	95.4%	ND	67.10	95.9%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(31)	0.48	95.3%	ND	0.47	94.2%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	390	0.96	95.6%	(246)	0.94	93.7%
0.500	2.50	Tl	ND	(2.93)	117.0%	ND	(2.61)	104.3%
2.000	100.00	U	ND	(91.13)	91.1%	ND	(88.99)	89.0%
0.010	1.00	V	(69)	0.95	95.2%	ND	0.96	96.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	(109)	1.00	100.2%	ND	1.03	103.2%
0.010	4.50	Zr	(185)	4.31	95.8%	(150)	4.18	92.8%

Note: 1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Analyzed Date: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D262a

File: m091995b
Reported: 09/20/95
Data Page 1 of 2

Sample Log#		95-07941-H1T-Smp	95-07941-H1T-Smp-PS	95-07941-HCB-Smp	95-07941-HCB-Smp-PS
Prep Type		Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1005	0.1005	0.1005	0.1005
Makeup Vol-mL		100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Vol-mL					
Prep Factor		995.02	995.02	995.02	995.02
Spike ID		>>>> 1:1	950830H901 & MVCA	950728I901	<<<<
Spike PreDil'n			1.0		1.0
ICP Dilution		5.00	5.00	5.00	5.00
Dil Fctr		4975.1	4975.1	4975.1	4975.1
Run Time		13:46	13:50	13:39	13:43
ug/g	Ag	41.4	612.0	42.4	598.5
	Al	144822.8	212654.3	1119.4	69826.0
	As	178.2	2814.8	184.5	2679.7
	B	442.1	2306.1	405.0	2236.8
	Ba	28.6	496.0	13.9	468.9
	Be	1.0	91.7	0.6	88.9
	Bi	414.6	23986.7	163.7	23114.9
	Ca	748.7	48933.3	362.9	46928.1
	Cd	25.0	1732.9	21.7	1719.5
	Ce	206.2	242.8	210.0	283.4
	Co	67.8	1063.4	54.9	1034.3
	Cr	138.6	8464.8	47.0	8143.0
	Cu	15.9	973.8	-24.5	918.5
	Dy	35.3	28.5	28.7	27.3
	Eu	8.9	13.2	8.5	15.2
	Fe	1606.2	21123.0	673.7	19713.3
	K	10924029.8	10790500.6	10881220.1	10754794.1
	La	62.3	107.4	62.7	115.3
	Li	120.6	1857.6	131.8	1813.7
	Mg	571.0	27250.5	254.5	26397.5
	Mn	328.8	1304.8	203.5	1154.8
	Mo	28.0	1005.8	37.6	1006.1
	Na	107789.2	202191.7	4975.7	99821.4
	Nd	194.3	246.9	181.6	265.3
	Ni	105603.8	129058.3	23908.0	48862.8
	P	24797.7	24510.6	225.4	423.7
	Pb	448.2	28640.3	346.4	27892.0
	Pd	690.6	575.2	615.0	657.4
	Rh	336.6	453.4	350.3	484.6
	Sb	259.4	2905.5	190.6	2720.3
	Se	74.1	2565.0	195.3	2554.8
	Si	7343.3	73823.5	2106.2	66764.9
	Sn	1515.8	2910.0	1287.4	2901.6
	Sr	30.8	505.2	7.9	468.6
	Te	209.3	302.5	232.7	300.2
	Th	59.3	1623.3	61.7	1562.0
	Ti	390.2	1341.3	245.8	1178.6
	Tl	447.4	2911.3	154.9	2594.5
	U	2909.7	90678.9	2392.0	88550.5
	V	69.4	1016.9	27.1	956.0
	W	150.5	206.7	135.7	148.5
	Y	10.0	20.0	9.2	22.2
	Zn	108.7	1105.5	48.8	1027.2
ug/g	Zr	184.8	4475.6	149.5	4304.0

Template: TC-NA202

ICP RAW DATA -- IEC Corrected

File: m091995b
Reported: 09/20/95

Raw Data
Data Page 2 of 2

Analyzed: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS

Reviewer: 9/20/95

Sample ID:		95-07941-H1T-Smp	95-07941-H1T-Smp-PS	95-07941-HCB-Smp	95-07941-HCB-Smp-PS
Split ID:					
Run Time:		13:46	13:50	13:39	13:43
(ug/mL)	Ag	0.0083	0.1230	0.0085	0.1203
	Al	29.1094	42.7435	0.2250	14.0350
	As	0.0358	0.5658	0.0371	0.5386
	B	0.0889	0.4635	0.0814	0.4496
	Ba	0.0058	0.0997	0.0028	0.0942
	Be	0.0002	0.0184	0.0001	0.0179
	Bi	0.0833	4.8213	0.0329	4.6461
	Ca	0.1505	9.8356	0.0730	9.4325
	Cd	0.0050	0.3483	0.0044	0.3456
	Ce	0.0415	0.0488	0.0422	0.0570
	Co	0.0136	0.2137	0.0110	0.2079
	Cr	0.0279	1.7014	0.0095	1.6367
	Cu	0.0032	0.1957	-0.0049	0.1846
	Dy	0.0071	0.0057	0.0058	0.0055
	Eu	0.0018	0.0027	0.0017	0.0031
	Fe	0.3229	4.2457	0.1354	3.9624
	K	2195.7300	2168.8906	2187.1252	2161.7136
	La	0.0125	0.0216	0.0126	0.0232
	Li	0.0243	0.3734	0.0265	0.3645
	Mg	0.1148	5.4774	0.0512	5.3059
	Mn	0.0661	0.2623	0.0409	0.2321
	Mo	0.0056	0.2022	0.0076	0.2022
	Na	21.6656	40.6405	1.0001	20.0641
	Nd	0.0391	0.0496	0.0365	0.0533
	Ni	21.2264	25.9407	4.8055	9.8214
	P	4.9843	4.9266	0.0453	0.0852
	Pb	0.0901	5.7567	0.0696	5.6063
	Pd	0.1388	0.1156	0.1236	0.1321
	Rh	0.0677	0.0911	0.0704	0.0974
	Sb	0.0521	0.5840	0.0383	0.5468
	Se	0.0149	0.5156	0.0393	0.5135
	Si	1.4760	14.8385	0.4233	13.4197
	Sn	0.3047	0.5849	0.2588	0.5832
	Sr	0.0062	0.1015	0.0016	0.0942
	Te	0.0421	0.0608	0.0468	0.0604
	Th	0.0119	0.3263	0.0124	0.3140
	Ti	0.0784	0.2696	0.0494	0.2369
	Tl	0.0899	0.5852	0.0311	0.5215
	U	0.5848	18.2265	0.4808	17.7987
	V	0.0139	0.2044	0.0054	0.1921
	W	0.0303	0.0416	0.0273	0.0298
	Y	0.0020	0.0040	0.0018	0.0045
	Zn	0.0219	0.2222	0.0098	0.2065
(ug/mL)	Zr	0.0372	0.8996	0.0301	0.8651

Project: TWRS
Procedure: PNL-ALO-211

ICP ANALYSIS REPORT -- Na2O2/Zr Fusions

File: m091995a
Analyzed: 09/19/95

Core 99
Post Spike Reruns (Special)

Est. IDL ug/mL	Post Spk Conc ug/mL	Analyte	Seg 1 Sample ug/g	Seg 1 Net PSpk ug/mL	Post Spk Recovery	Blank Sample ug/g	Blank Net PSpk ug/mL	Blank Post Spk Recovery
		Sam Log#:	95-07941-N1-Smp	95-07941-N1-Smp-PS		95-07941-N3-Blk	95-07941-N3-Blk-PS	
		Split#:						
		ICP Dil:	5.00	5.00		5.00	5.00	
		Dil Fctr:	3779.3	3779.3		3779.3	3779.3	
		Run Time:	14:16	14:20		14:08	14:12	
0.015	0.50	Ag	ND	(0.61)	121.1%	(64)	(0.58)	115.5%
0.060	75.00	Al	122,327	64.48	86.0%	(321)	71.44	95.3%
0.080	2.50	As	ND	(2.80)	111.8%	ND	(2.81)	112.3%
0.020	2.00	B	836	1.85	92.4%	(516)	1.90	95.1%
0.010	0.50	Ba	ND	(0.48)	96.6%	ND	(0.48)	96.4%
0.005	0.10	Be	ND	(0.09)	90.2%	ND	(0.09)	90.3%
0.100	25.00	Bi	ND	23.74	95.0%	ND	24.30	97.2%
0.050	50.00	Ca	4,222	47.04	94.1%	7,612	43.51	87.0%
0.015	1.75	Cd	ND	1.72	98.0%	ND	1.78	101.5%
0.100		Ce	ND	ND		ND	ND	
0.010	1.00	Co	ND	1.03	102.9%	ND	1.05	105.0%
0.020	8.50	Cr	(150)	8.19	96.3%	ND	8.39	98.6%
0.010	1.00	Cu	(130)	0.96	95.6%	(60)	0.98	97.9%
0.050		Dy	ND	ND		ND	ND	
0.100		Eu	ND	ND		ND	ND	
0.020	20.00	Fe	1,209	19.18	95.9%	(262)	19.53	97.7%
2.000	125.00	K	ND	122.60	98.1%	ND	125.64	100.5%
0.050		La	ND	ND		ND	ND	
0.030	2.00	Li	ND	1.79	89.3%	ND	1.77	88.7%
0.100	25.00	Mg	ND	26.85	107.4%	ND	27.31	109.2%
0.005	1.00	Mn	(30)	0.96	96.2%	ND	0.99	99.2%
0.030	1.00	Mo	ND	(1.00)	100.1%	ND	(1.01)	101.0%
0.080	106.85	Na	n/a	n/a	n/a	n/a	n/a	n/a
0.050		Nd	ND	(0.30)		(208)	(0.07)	
0.030	26.00	Ni	(575)	25.60	98.5%	(410)	25.97	99.9%
0.100		P	4,074	0.11		ND	ND	
0.060	27.50	Pb	(273)	28.01	101.8%	ND	28.78	104.7%
0.300		Pd	ND	ND		ND	ND	
0.300		Rh	ND	ND		ND	ND	
0.050	2.50	Sb	ND	2.79	111.6%	ND	2.78	111.4%
0.100	2.50	Se	ND	(2.50)	99.9%	ND	(2.62)	105.0%
0.500	70.00	Si	(3,046)	66.27	94.7%	ND	68.12	97.3%
1.000		Sn	ND	ND		ND	ND	
0.005	0.50	Sr	(69)	0.46	92.7%	(54)	0.47	93.5%
0.500		Te	ND	ND		ND	ND	
0.800		Th	ND	ND		ND	ND	
0.005	1.00	Ti	(53)	0.94	94.3%	ND	0.98	98.2%
0.500	2.50	Tl	ND	(2.88)	115.3%	ND	(2.64)	105.6%
2.000	100.00	U	ND	(88.92)	88.9%	ND	(87.75)	87.8%
0.010	1.00	V	(66)	0.94	93.5%	ND	0.98	98.1%
0.500		W	ND	ND		ND	ND	
0.010		Y	ND	ND		ND	ND	
0.020	1.00	Zn	ND	1.10	110.0%	(89)	0.97	97.1%
0.010	4.50	Zr	n/a	n/a	n/a	n/a	n/a	n/a

Note:
1) Method Detecion Limit (MDL) = 10x IDL; "( )" results <MDL but =>IDL.
2) Above 5 times MDL, results reportable to 2 1/2 significant digits.
3) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
4) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
5) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
6) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).

7) Data, including calibration/QC, archived File ICP-325-405-1/95D262a

Analyzed Date: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
ICP Data Name: 95D262a

File: m091995a
Reported: 09/20/95

Sample Log#		95-07941-N1-Smp	95-07941-N1-Smp-PS	95-07941-N3-Blk	95-07941-N3-Blk-PS
Prep Type		Fusion	Fusion	Fusion	Fusion
Sample Wt-g		0.1323	0.1323	0.1323	0.1323
Makeup Vol-mL		100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Vol-mL					
Prep Factor		755.86	755.86	755.86	755.86
Spike ID		>>>> 1:1	950830H901 & MVCA 950728I901		<<<<
Spike PreDil'n			1.0		1.0
ICP Dilution		5.00	5.00	5.00	5.00
Dil Fctr		3779.3	3779.3	3779.3	3779.3
Run Time		14:16	14:20	14:08	14:12
ug/g	Ag	30.4	457.8	64.0	500.5
	Al	122326.9	171067.7	320.8	54318.8
	As	80.7	2113.1	70.4	2122.8
	B	836.4	2233.1	515.8	1953.7
	Ba	18.6	365.0	13.6	364.4
	Be	0.6	68.2	0.3	68.3
	Bi	105.0	17943.4	135.2	18370.6
	Ca	4222.3	39780.7	7612.4	40503.3
	Cd	5.6	1296.6	1.4	1342.3
	Ce	189.3	247.2	-353.3	-251.9
	Co	32.2	778.2	30.7	793.5
	Cr	149.7	6337.7	41.7	6337.9
	Cu	130.1	852.8	59.6	799.6
	Dy	23.8	24.0	36.4	33.4
	Eu	8.1	12.6	13.1	17.2
	Fe	1209.5	15708.5	261.8	15024.8
	K	5693.1	92669.9	6587.3	94965.1
	La	53.2	93.3	62.5	95.6
	Li	68.2	1350.5	36.4	1341.5
	Mg	308.0	20292.6	269.6	20643.1
	Mn	29.7	757.0	10.7	750.1
	Mo	19.4	756.4	27.4	763.5
	Na	8258355.6	8020094.3	8048331.9	8002944.4
	Nd	165.6	227.6	207.6	258.7
	Ni	575.4	19923.4	410.0	20036.4
	P	4073.7	4157.5	88.3	212.6
	Pb	273.4	21444.0	217.7	21757.2
	Pd	552.3	509.2	668.7	583.4
	Rh	224.4	336.1	257.7	361.1
	Sb	150.6	2108.7	144.8	2104.6
	Se	33.4	1888.2	131.6	1983.6
	Si	3046.2	53134.2	408.5	51491.5
	Sn	806.8	2040.3	1178.2	2292.3
	Sr	68.7	418.9	54.2	407.4
	Te	103.5	154.3	189.6	205.5
	Th	34.6	1185.6	93.5	1269.8
	Ti	53.3	766.2	18.2	742.4
	Tl	302.2	2179.3	125.4	1995.7
	U	2209.1	67209.1	828.2	66326.9
	V	65.9	772.6	24.9	741.3
	W	58.3	91.5	67.6	128.9
	Y	7.7	17.4	13.0	21.1
	Zn	60.8	831.7	89.3	823.1
ug/g	Zr	331.9	3550.8	37926.0	40696.5

Template: TC-NA202 ICP RAW DATA -- IEC Corrected File: m091995a
Reported: 09/20/95

Raw Data
Data Page 2 of 2

Analyzed: 09/19/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D SANDERS Reviewer: MW Thu 9/21/95

Sample ID:		95-07941-N1-Smp	95-07941-N1-Smp-PS	95-07941-N3-Blk	95-07941-N3-Blk-PS
Split ID:					
Run Time:		14:16	14:20	14:08	14:12
(ug/mL)	Ag	0.0081	0.1211	0.0169	0.1324
	Al	32.3677	45.2645	0.0849	14.3727
	As	0.0214	0.5591	0.0186	0.5617
	B	0.2213	0.5909	0.1365	0.5169
	Ba	0.0049	0.0966	0.0036	0.0964
	Be	0.0002	0.0181	0.0001	0.0181
	Bi	0.0278	4.7478	0.0358	4.8609
	Ca	1.1172	10.5260	2.0142	10.7172
	Cd	0.0015	0.3431	0.0004	0.3552
	Ce	0.0501	0.0654	-0.0935	-0.0667
	Co	0.0085	0.2059	0.0081	0.2100
	Cr	0.0396	1.6769	0.0110	1.6770
	Cu	0.0344	0.2256	0.0158	0.2116
	Dy	0.0063	0.0064	0.0096	0.0088
	Eu	0.0021	0.0033	0.0035	0.0046
	Fe	0.3200	4.1565	0.0693	3.9756
	K	1.5064	24.5205	1.7430	25.1278
	La	0.0141	0.0247	0.0165	0.0253
	Li	0.0180	0.3573	0.0096	0.3550
	Mg	0.0815	5.3694	0.0713	5.4622
	Mn	0.0079	0.2003	0.0028	0.1985
	Mo	0.0051	0.2001	0.0072	0.2020
	Na	2185.1609	2122.1169	2129.5886	2117.5791
	Nd	0.0438	0.0602	0.0549	0.0685
	Ni	0.1523	5.2717	0.1085	5.3016
	P	1.0779	1.1001	0.0234	0.0563
	Pb	0.0723	5.6741	0.0576	5.7570
	Pd	0.1462	0.1347	0.1769	0.1544
	Rh	0.0594	0.0889	0.0682	0.0956
	Sb	0.0399	0.5579	0.0383	0.5569
	Se	0.0088	0.4996	0.0348	0.5249
	Si	0.8060	14.0593	0.1081	13.6247
	Sn	0.2135	0.5399	0.3118	0.6066
	Sr	0.0182	0.1108	0.0143	0.1078
	Te	0.0274	0.0408	0.0502	0.0544
	Th	0.0092	0.3137	0.0247	0.3360
	Ti	0.0141	0.2027	0.0048	0.1965
	Tl	0.0800	0.5766	0.0332	0.5281
	U	0.5845	17.7835	0.2192	17.5501
	V	0.0174	0.2044	0.0066	0.1961
	W	0.0154	0.0242	0.0179	0.0341
	Y	0.0020	0.0046	0.0034	0.0056
	Zn	0.0161	0.2201	0.0236	0.2178
(ug/mL)	Zr	0.0878	0.9395	10.0352	10.7683

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								MCVA 950728I901	A 950728	A 950728	A 950728
								95D262A	95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95	9/19/95
Statistical Summary for 'MCVA 950728I901'								13:23	13:54	13:57	14:24
(MCVA)								CONC	CONC	CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	361	406	451	498
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag	0.500	4	0.475	0.005	1	-0.025	-4.9	0.471	0.472	0.478	0.482
Al	25.000	4	24.858	0.328	1	-0.142	-0.6	24.767	24.540	24.810	25.317
As	2.500	4	2.536	0.034	1	0.036	1.4	2.520	2.507	2.533	2.585
B	2.000	4	1.976	0.028	1	-0.024	-1.2	1.971	1.944	1.975	2.013
Ba	0.500	4	0.517	0.008	2	0.017	3.4	0.519	0.508	0.514	0.526
Be	0.100	4	0.091	0.001	1	-0.009	-8.6	0.092	0.090	0.091	0.092
Bi	25.000	4	23.943	0.282	1	-1.057	-4.2	23.829	23.671	23.940	24.332
Ca	25.000	4	24.678	0.205	1	-0.322	-1.3	24.552	24.477	24.752	24.932
Cd	0.500	4	0.490	0.003	1	-0.010	-1.9	0.486	0.490	0.492	0.493
Ce		4	-0.037	0.012	-33			-0.051	-0.022	-0.032	-0.041
Co	1.000	4	1.020	0.009	1	0.020	2.0	1.015	1.011	1.023	1.032
Cr	1.000	4	1.020	0.010	1	0.020	2.0	1.022	1.007	1.022	1.031
Cu	1.000	4	1.000	0.013	1	0.000	0.0	1.003	0.985	0.997	1.016
Dy		4	0.000	0.002	-568			-0.002	0.001	0.001	-0.001
Eu		4	0.002	0.000	26			0.001	0.002	0.002	0.002
Fe	20.000	4	20.309	0.202	1	0.309	1.5	20.304	20.075	20.291	20.568
K	25.000	4	26.863	0.334	1	1.863	7.5	26.405	27.123	26.823	27.099
La		4	0.008	0.003	32			0.005	0.010	0.010	0.007
Li	2.000	4	2.085	0.043	2	0.085	4.3	2.085	2.053	2.057	2.146
Mg	25.000	4	26.250	0.254	1	1.250	5.0	26.133	26.004	26.268	26.594
Mn	0.500	4	0.506	0.005	1	0.006	1.2	0.506	0.500	0.505	0.512
Mo	1.000	4	1.035	0.010	1	0.035	3.5	1.035	1.022	1.035	1.047
Na	25.000	4	26.667	0.605	2	1.667	6.7	26.445	26.329	26.323	27.571
Nd		4	0.008	0.011	139			-0.003	0.017	0.017	0.000
Ni	1.000	4	1.045	0.010	1	0.045	4.5	1.036	1.037	1.051	1.056
P		4	0.030	0.021	70			0.000	0.036	0.049	0.034
Pb	2.500	4	2.556	0.023	1	0.056	2.2	2.523	2.555	2.571	2.574
Pd		4	-0.011	0.035	-312			-0.048	0.024	0.012	-0.032
Rh		4	-0.001	0.016	-1468			-0.017	0.013	0.013	-0.013
Sb	2.500	4	2.549	0.031	1	0.049	2.0	2.533	2.515	2.564	2.585
Se	2.500	4	2.403	0.026	1	-0.097	-3.9	2.394	2.371	2.415	2.431
Si	20.000	4	18.162	0.202	1	-1.838	-9.2	18.089	17.965	18.153	18.442
Sn		4	0.204	0.046	23			0.152	0.241	0.244	0.178
Sr	0.500	4	0.523	0.008	1	0.023	4.6	0.525	0.514	0.520	0.533
Te		4	0.002	0.010	420			-0.002	0.010	0.011	-0.009
Th		4	0.041	0.003	9			0.043	0.038	0.044	0.038
Ti	1.000	4	1.010	0.012	1	0.010	1.0	1.010	0.996	1.007	1.026
Tl		4	2.439	0.029	1			2.419	2.412	2.449	2.476
U		4	-0.028	0.161	-569			-0.197	0.119	0.099	-0.134
V	1.000	4	0.984	0.010	1	-0.016	-1.6	0.983	0.973	0.983	0.997
W		4	0.024	0.004	18			0.021	0.022	0.030	0.022
Y		4	0.000	0.001	-298			-0.001	0.000	0.000	-0.001
Zn	1.000	4	0.998	0.013	1	-0.002	-0.2	0.987	0.990	0.999	1.015
Zr	2.000	4	2.066	0.023	1	0.066	3.3	2.069	2.038	2.061	2.094
TIME		4	#######	0.000	0			10000.000	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								MCVB 950911H901	B 950911	B 950911H901
								95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95
Statistical Summary for 'MCVB 950911H901'								13:27	14:01	14:28
(MCVB)								CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	541	586	631
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		3	0.020	0.003	14			0.017	0.022	0.021
Al		3	0.056	0.023	40			0.030	0.067	0.071
As		3	0.059	0.014	24			0.044	0.073	0.059
B		3	0.004	0.001	13			0.004	0.005	0.004
Ba		3	0.001	0.000	85			0.000	0.001	0.001
Be		3	0.000	0.000	180			0.000	0.000	0.000
Bi		3	0.016	0.004	25			0.012	0.019	0.017
Ca		3	0.010	0.005	46			0.005	0.013	0.012
Cd		3	0.001	0.001	128			0.000	0.001	0.001
Ce	2.000	3	2.055	0.016	1	0.055	2.7	2.038	2.071	2.056
Co		3	0.005	0.002	37			0.003	0.006	0.006
Cr		3	0.002	0.001	30			0.002	0.001	0.002
Cu		3	-0.001	0.001	-129			-0.003	0.000	-0.001
Dy	2.000	3	2.035	0.010	1	0.035	1.8	2.044	2.039	2.024
Eu	2.000	3	2.021	0.010	0	0.021	1.0	2.026	2.027	2.009
Fe		3	0.007	0.002	32			0.005	0.009	0.007
K		3	0.405	0.304	75			0.055	0.607	0.552
La	2.000	3	2.024	0.008	0	0.024	1.2	2.019	2.034	2.019
Li		3	0.003	0.002	56			0.001	0.003	0.004
Mg		3	0.180	0.017	9			0.161	0.192	0.187
Mn		3	0.001	0.000	16			0.001	0.001	0.001
Mo		3	0.002	0.002	74			0.000	0.003	0.003
Na		3	0.077	0.041	53			0.032	0.086	0.113
Nd	2.000	3	2.028	0.011	1	0.028	1.4	2.020	2.040	2.023
Ni		3	0.006	0.002	25			0.005	0.006	0.008
P		3	-0.006	0.017	-299			-0.024	0.006	0.002
Pb		3	0.075	0.009	12			0.065	0.083	0.077
Pd	2.000	3	3.135	0.036	1	1.135	56.8	3.094	3.155	3.158
Rh	2.000	3	2.105	0.030	1	0.105	5.3	2.073	2.132	2.111
Sb		3	0.024	0.004	17			0.019	0.025	0.027
Se		3	0.011	0.009	82			0.001	0.014	0.018
Si		3	0.138	0.010	8			0.147	0.141	0.126
Sn	2.000	3	2.298	0.105	5	0.298	14.9	2.181	2.383	2.331
Sr		3	0.001	0.000	23			0.001	0.001	0.001
Te	2.000	3	1.854	0.022	1	-0.146	-7.3	1.836	1.879	1.848
Th	5.000	3	5.230	0.036	1	0.230	4.6	5.211	5.272	5.207
Ti		3	0.002	0.001	36			0.001	0.003	0.002
Tl		3	0.021	0.003	13			0.018	0.022	0.023
U	10.000	3	8.506	0.089	1	-1.494	-14.9	8.463	8.609	8.446
V		3	0.000	0.001	-380			-0.002	0.001	0.000
W	2.000	3	0.524	0.009	2	-1.476	-73.8	0.514	0.532	0.525
Y	1.000	3	1.003	0.007	1	0.003	0.3	1.005	1.009	0.996
Zn		3	0.002	0.000	24			0.002	0.002	0.001
Zr		3	0.010	0.003	27			0.013	0.009	0.008
TIME		3	########	0.000	0			10000.000	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10
								95D262A	95D262A	95D262A	95D262A
								9/19/95	9/19/95	9/19/95	9/19/95
Statistical Summary for 'STD1-Blank 108444'								11:16	13:16	13:35	14:39
(STD1-Blank)								CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	946	991	1036	1081
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		4	0.000	0.001	-486			0.002	-0.001	-0.001	-0.001
Al		4	0.001	0.006	903			0.007	-0.006	0.003	-0.002
As		4	-0.001	0.011	-875			0.016	-0.005	-0.007	-0.009
B		4	0.004	0.004	103			0.009	0.005	0.001	0.001
Ba		4	0.000	0.000	-265			0.000	0.000	0.000	0.000
Be		4	0.000	0.000	177			0.000	0.000	0.000	0.000
Bi		4	-0.006	0.006	-101			0.001	-0.013	-0.004	-0.006
Ca		4	0.004	0.002	55			0.003	0.002	0.004	0.007
Cd		4	0.000	0.001	1335			0.002	-0.001	-0.001	0.000
Ce		4	-0.003	0.010	-386			0.008	-0.016	0.001	-0.003
Co		4	0.001	0.001	77			0.002	0.001	0.001	0.001
Cr		4	0.000	0.001	-207			0.001	-0.001	0.000	-0.001
Cu		4	0.002	0.001	35			0.004	0.002	0.002	0.002
Dy		4	0.000	0.001	1407			0.001	-0.001	0.000	0.000
Eu		4	0.000	0.000	185			0.001	0.000	0.000	0.000
Fe		4	0.000	0.001	-205			0.000	-0.001	0.000	0.000
K		4	-0.115	0.315	-273			0.264	-0.292	0.008	-0.442
La		4	0.000	0.001	372			0.002	-0.001	0.000	0.000
Li		4	0.000	0.001	432			0.002	-0.001	-0.001	0.001
Mg		4	0.007	0.005	67			0.012	0.002	0.011	0.005
Mn		4	0.000	0.000	-559			-0.001	0.000	0.000	0.000
Mo		4	0.001	0.001	63			0.001	0.001	0.001	0.002
Na		4	0.051	0.101	198			0.023	-0.014	-0.005	0.202
Nd		4	0.000	0.008	5857			0.010	-0.008	0.000	-0.002
Ni		4	0.002	0.002	83			0.005	0.000	0.003	0.003
P		4	-0.001	0.020	-1837			0.007	-0.020	0.024	-0.015
Pb		4	-0.002	0.011	-568			0.014	-0.011	-0.003	-0.008
Pd		4	0.022	0.018	80			0.048	0.010	0.017	0.013
Rh		4	-0.001	0.008	-1343			0.011	-0.006	-0.001	-0.007
Sb		4	0.003	0.006	202			-0.004	-0.001	0.009	0.007
Se		4	-0.001	0.007	-1074			0.004	-0.001	0.004	-0.010
Si		4	0.086	0.096	112			0.216	0.100	0.032	-0.002
Sn		4	0.016	0.038	246			0.053	-0.003	0.042	-0.029
Sr		4	0.000	0.000	13			0.000	0.000	0.000	0.000
Te		4	0.004	0.008	212			0.013	-0.001	0.007	-0.005
Th		4	0.002	0.002	120			0.003	0.001	0.003	-0.001
Ti		4	0.000	0.000	2012			0.001	0.000	0.000	0.000
Tl		4	0.007	0.002	23			0.010	0.006	0.006	0.007
U		4	-0.027	0.089	-336			0.094	-0.096	-0.011	-0.093
V		4	0.000	0.001	-193			0.001	-0.001	0.000	-0.001
W		4	0.003	0.005	161			0.007	-0.001	-0.001	0.006
Y		4	0.000	0.000	-142			0.000	0.000	-0.001	0.000
Zn		4	0.000	0.001	-230			-0.001	-0.001	0.000	0.000
Zr		4	-0.001	0.001	-105			0.000	-0.001	0.000	-0.001
TIME		4	########	0.000	0			10000.000	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								SST-ICS-1 950908I10	S-1 950908I101		
								95D262A	95D262A		
								9/19/95	9/19/95		
Statistical Summary for 'SST-ICS-1 950908I101'								14:04	14:35		
(Interference Check Std for Na fusion)								CONC	CONC		
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	766	811		
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)		
Ag		2	0.063	0.000	1			0.063	0.063		
Al	100	2	93.834	0.967	1	-6.166	-6.2	93.150	94.518		
As		2	0.092	0.010	10			0.099	0.086		
B		2	0.012	0.002	14			0.011	0.013		
Ba		2	0.001	0.000	24			0.002	0.001		
Be		2	0.000	0.000	31			0.000	0.000		
Bi		2	0.126	0.003	2			0.124	0.128		
Ca		2	0.042	0.001	3			0.043	0.041		
Cd		2	0.014	0.002	14			0.015	0.013		
Ce		2	-0.041	0.009	-21			-0.034	-0.047		
Co		2	0.011	0.000	4			0.011	0.011		
Cr		2	0.028	0.000	2			0.028	0.028		
Cu		2	0.016	0.002	14			0.018	0.015		
Dy		2	0.007	0.001	8			0.007	0.007		
Eu		2	0.004	0.001	13			0.005	0.004		
Fe	20	2	18.367	0.143	1	-1.633	-8.2	18.265	18.468		
K		2	1.345	0.061	5			1.388	1.301		
La		2	0.027	0.000	0			0.027	0.027		
Li		2	0.016	0.001	4			0.017	0.016		
Mg		2	0.623	0.002	0			0.621	0.624		
Mn		2	0.004	0.000	5			0.004	0.004		
Mo		2	0.005	0.001	11			0.005	0.005		
Na	5000	2	3825.721	41.948	1	-1174.3	-23.5	3796.059	3855.382		
Nd		2	0.052	0.004	7			0.054	0.049		
Ni	50	2	48.562	0.461	1	-1.438	-2.9	48.236	48.888		
P		2	0.013	0.005	43			0.017	0.009		
Pb		2	0.275	0.012	4			0.284	0.266		
Pd		2	0.082	0.019	24			0.096	0.069		
Rh		2	0.129	0.006	4			0.133	0.125		
Sb		2	0.088	0.003	3			0.090	0.086		
Se		2	0.033	0.005	16			0.030	0.037		
Si		2	0.247	0.012	5			0.256	0.239		
Sn		2	1.032	0.035	3			1.057	1.006		
Sr		2	0.001	0.000	8			0.001	0.001		
Te		2	0.060	0.011	17			0.068	0.053		
Th		2	0.776	0.006	1			0.772	0.780		
Ti		2	0.007	0.000	4			0.007	0.007		
Tl		2	0.226	0.004	2			0.223	0.228		
U	50	2	41.471	0.343	1	-8.529	-17.1	41.228	41.714		
V		2	0.013	0.001	5			0.013	0.012		
W		2	0.056	0.000	0			0.056	0.056		
Y		2	0.008	0.000	2			0.008	0.007		
Zn		2	0.011	0.000	1			0.011	0.011		
Zr	10	2	9.268	0.077	1	-0.732	-7.3	9.214	9.323		
TIME		2	########	0.000	0			10000.000	########		

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								SST-ICS-2 950908I10	S-2 950908I102		
								95D262A	95D262A		
								9/19/95	9/19/95		
Statistical Summary for 'SST-ICS-2 950908I102'								13:31	14:31		
(Interference Check Std for KOH fusion)								CONC	CONC		
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	856	901		
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)		
Ag		2	0.068	0.001	1			0.069	0.068		
Al	100	2	96.699	2.076	2	-3.301	-3.3	95.231	98.167		
As		2	0.097	0.010	11			0.090	0.104		
B		2	0.014	0.001	5			0.014	0.013		
Ba		2	0.002	0.000	1			0.002	0.002		
Be		2	0.000	0.000	9			0.000	0.000		
Bi		2	0.135	0.004	3			0.138	0.132		
Ca		2	0.051	0.001	2			0.050	0.051		
Cd		2	0.015	0.000	2			0.015	0.015		
Ce		2	-0.043	0.005	-11			-0.040	-0.047		
Co		2	0.013	0.001	4			0.013	0.014		
Cr		2	0.030	0.002	8			0.029	0.032		
Cu		2	-0.025	0.003	-10			-0.023	-0.027		
Dy		2	0.008	0.000	2			0.008	0.008		
Eu		2	0.005	0.000	2			0.005	0.005		
Fe	20	2	19.295	0.294	2	-0.705	-3.5	19.087	19.502		
K	5000	2	4370.721	75.873	2	######	-12.6	4317.070	4424.372		
La		2	0.027	0.000	1			0.027	0.027		
Li		2	0.011	0.000	2			0.011	0.011		
Mg		2	0.667	0.018	3			0.654	0.680		
Mn		2	0.004	0.000	7			0.004	0.004		
Mo		2	0.007	0.000	2			0.007	0.007		
Na		2	0.402	0.019	5			0.388	0.416		
Nd		2	0.055	0.003	6			0.058	0.053		
Ni	50	2	51.009	0.918	2	1.009	2.0	50.360	51.658		
P		2	0.040	0.005	13			0.044	0.036		
Pb		2	0.316	0.000	0			0.316	0.316		
Pd		2	0.094	0.021	22			0.109	0.080		
Rh		2	0.140	0.001	0			0.140	0.141		
Sb		2	0.106	0.003	3			0.104	0.108		
Se		2	0.045	0.012	27			0.053	0.036		
Si		2	0.323	0.026	8			0.341	0.304		
Sn		2	1.169	0.010	1			1.176	1.162		
Sr		2	0.001	0.000	3			0.001	0.001		
Te		2	0.084	0.003	4			0.086	0.082		
Th		2	0.826	0.021	3			0.812	0.841		
Ti		2	0.008	0.000	4			0.008	0.008		
Tl		2	0.229	0.001	0			0.228	0.230		
U	50	2	43.770	0.750	2	-6.230	-12.5	43.240	44.300		
V		2	0.015	0.000	1			0.015	0.015		
W		2	0.067	0.006	9			0.063	0.071		
Y		2	0.008	0.000	1			0.008	0.008		
Zn		2	0.014	0.002	13			0.013	0.016		
Zr	10	2	9.674	0.154	2	-0.326	-3.3	9.565	9.783		
TIME		2	########	0.000	0			10000.000	########		

WHC-SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	N	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Profile 950814I101		Maint	K28798	950262A	ICP1	9/19/95
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓		✓						SPC-STD 950731I101						
	4	✓				✓	✓				STD1-Blank 108444					ICP6	
	5	✓				✓					" 2 950830I10 2						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓				✓	✓				STD1-Blank 108444		Silvers BY-108	K29966		ICP1	
	15	✓				✓					" 2 950830I10 2						
	16	✓				✓					" 3 3						
	17	✓				✓					" 4 4						
	18	✓				✓					" 5 5						
	19	✓				✓					" 6 6						
	20	✓				✓					" 7 7						
	21	✓				✓					" 8 8						
	22	✓				✓					" 9 9						
	23	✓					✓				" 1-Blank 108444						
	24	✓							✓	PASS	MCVA 960728I901						
	25	✓							✓	PASS ⊗	MCVB 950911H901						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\QPRO\PROGRAMS\RUNLOG.TJ2 (04-02-93)

⊗ Pd, Sn, W, U - N/A for QC. on MCVB. DKS 9/19/95

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓						✓			SST-ICS-2 950908I102		Silvers	K28966	950262A	ICP1	9/19/95 DP
	2						✓				STD1-Blank 108444						
	3									95-007941-HCB	1st Sample KOH/Ni Prep Blank	5X					
	4									95-007941-HCB-PS	2nd " " " " Post Spike	5X					
	5									95-007941-HIT	3rd Sample Sample	5X					
	6									95-007941-HIT	4th Sample " Post Spike	5X					
	7								✓	Fail-Si Low	MCVA 950728I901						
	8								✓	PASS	" "						
	9								✓	PASS (X)	MCVB 950911H901						
	10										SST-ICS-1 950905I101						
	11									95-007941-N3	5th Sample Na2O2/Zr Prep Blank	5X					
	12									95-007941-N3-PS	6th " " " " " Post Spike	5X					
	13									95-007941-N1	7th " Sample	5X					
	14									95-007941-N1	8th " " Post Spike	5X					
	15								✓	PASS	MCVA 950728I901						
	16								✓	PASS (X)	MCVB 950911H901						
	17							✓			SST-ICS-2 950908I102						
	18							✓			SST-ICS-1 950908I101						
	19						✓				STD1-Blank 108444						
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x).
file: C:\OPRO\PROGRAMS\RUNLOG.TJ2 (04-02-93)

3-839

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95D262A ICP-325-VOS-1 9/14/95 AKL

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D262A	ICP1	09/19/95	10:23	DRS	S	INT
2	SPC-BLK 108444	95D262A	ICP1	09/19/95	10:23	DRS	S	CONC
3	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:26	DRS	S	INT
4	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:27	DRS	S	INT
5	SPC-STD 950831I101	95D262A	ICP1	09/19/95	10:27	DRS	S	CONC
6	STD1-Blank	95D262A	ICP0	09/19/95	10:38		X	IR
7	STD2	95D262A	ICP0	09/19/95	10:40		X	IR
8	STD3	95D262A	ICP0	09/19/95	10:44		X	IR
9	STD4	95D262A	ICP0	09/19/95	10:49		X	IR
10	STD5	95D262A	ICP0	09/19/95	10:53		X	IR
11	STD6	95D262A	ICP0	09/19/95	10:57		X	IR
12	STD7	95D262A	ICP0	09/19/95	11:01		X	IR
13	STD8	95D262A	ICP0	09/19/95	11:04		X	IR
14	STD9	95D262A	ICP0	09/19/95	11:09		X	IR
15	STD1-Blank 108444	95D262A	ICP0	09/19/95	11:18	DRS	S	CONC
16	STD1-Blank	95D262A	ICP1	09/19/95	12:40		X	IR
17	STD2	95D262A	ICP1	09/19/95	12:42		X	IR
18	STD3	95D262A	ICP1	09/19/95	12:45		X	IR
19	STD4	95D262A	ICP1	09/19/95	12:49		X	IR
20	STD5	95D262A	ICP1	09/19/95	12:52		X	IR
21	STD6	95D262A	ICP1	09/19/95	12:56		X	IR
22	STD7	95D262A	ICP1	09/19/95	12:59		X	IR
23	STD8	95D262A	ICP1	09/19/95	13:03		X	IR
24	STD9	95D262A	ICP1	09/19/95	13:06		X	IR
25	STD1-Blank 108444	95D262A	ICP1	09/19/95	13:16	DRS	S	CONC
26	MCVA 950728I901	95D262A	ICP1	09/19/95	13:23	DRS	Q	CONC
27	MCVB 950911H901	95D262A	ICP1	09/19/95	13:27	DRS	Q	CONC
28	SST-ICS-2 950908I102	95D262A	ICP1	09/19/95	13:31	DRS	S	CONC
29	STD1-Blank 108444	95D262A	ICP1	09/19/95	13:35	DRS	S	CONC
30	FIRST SAMP PREP BLK	95D262A	ICP1	09/19/95	13:39	DRS	S	CONC
31	2ND SAMPLE PREP BLK	95D262A	ICP1	09/19/95	13:43	DRS	S	CONC
32	3RD SAMP SAMPLE @5	95D262A	ICP1	09/19/95	13:46	DRS	S	CONC
33	4TH SAMP PS @5	95D262A	ICP1	09/19/95	13:50	DRS	S	CONC
34	MCVA 950728I901	95D262A	ICP1	09/19/95	13:54	DRS	Q	CONC
35	MCVA 950728I901	95D262A	ICP1	09/19/95	13:57	DRS	Q	CONC
36	MCVB 950911H901	95D262A	ICP1	09/19/95	14:01	DRS	Q	CONC
37	SST-ICS-1 950908I101	95D262A	ICP1	09/19/95	14:04	DRS	S	CONC
38	5TH SAMP PREP BLK @5	95D262A	ICP1	09/19/95	14:08	DRS	S	CONC
39	6TH SAMP BLK-PS @5	95D262A	ICP1	09/19/95	14:12	DRS	S	CONC
40	7TH SAMP SAMPLE @5	95D262A	ICP1	09/19/95	14:16	DRS	S	CONC
41	8TH SAMPLE PS @5	95D262A	ICP1	09/19/95	14:20	DRS	S	CONC
42	MCVA 950728I901	95D262A	ICP1	09/19/95	14:24	DRS	Q	CONC
43	MCVB 950911H901	95D262A	ICP1	09/19/95	14:28	DRS	Q	CONC
44	SST-ICS-2 950908I102	95D262A	ICP1	09/19/95	14:31	DRS	S	CONC
45	SST-ICS-1 950908I101	95D262A	ICP1	09/19/95	14:35	DRS	S	CONC
46	STD1-Blank 108444	95D262A	ICP1	09/19/95	14:39	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	8387.67	2588	2225.33	1381	382.333	192.333
2	SPC-BLK 108444	.0504	.2195	.2023	.0337	.0098	.0006
3	SPC-STD 950831I101	8377.33	2582.33	2208.67	1362	383	192.333
4	SPC-STD 950831I101	8506.67	2625	2270.33	1413.67	386.667	193.333
5	SPC-STD 950831I101	.0543	.2201	.2196	.0371	.0104	.0006
6	STD1-Blank	.84566	.26129	.22263	.13693	.03863	.01936
7	STD2					7.57656	
8	STD3		57.9372		45.3185		
9	STD4						
10	STD5			22.871			
11	STD6						
12	STD7						2.07753
13	STD8	22.8974					
14	STD9						
15	STD1-Blank 108444	.0016	.0072	.0157	.0091	.0004	.0000
16	STD1-Blank	.84906	.2632	.22786	.1409	.03903	.0195
17	STD2					7.59933	
18	STD3		59.4483		46.3166		
19	STD4						
20	STD5			23.7895			
21	STD6						
22	STD7						2.1741
23	STD8	24.3225					
24	STD9						
25	STD1-Blank 108444	-.0012	-.0064	-.0054	.0050	-.0003	.0000
26	MCVA 950728I901	.4707	24.77	2.520	1.971	.5191	.0918
27	MCVB 950911H901	.0168	.0300	.0441	.0045	.0000	-.0000
28	SST-ICS-2 950908I102	.0688	95.23	.0897	.0142	.0024	.0002
29	STD1-Blank 108444	-.0007	.0035	-.0067	.0007	-.0001	-.0000
30	FIRST SAMP PREP BLK	.0085	.2250	.0371	.0814	.0028	.0001
31	2ND SAMPLE PREP BLK	.1203	14.04	.5386	.4496	.0943	.0179
32	3RD SAMP SAMPLE @5	.0083	29.11	.0358	.0889	.0058	.0002
33	4TH SAMP PS @5	.1230	42.74	.5658	.4635	.0997	.0184
34	MCVA 950728I901	.4716	24.54	2.507	1.944	.5081	.0901
35	MCVA 950728I901	.4780	24.81	2.533	1.975	.5139	.0911
36	MCVB 950911H901	.0220	.0666	.0726	.0050	.0009	.0000
37	SST-ICS-1 950908I101	.0630	93.15	.0990	.0106	.0017	.0001
38	5TH SAMP PREP BLK @5	.0169	.0849	.0186	.1365	.0036	.0001
39	6TH SAMP BLK-PS @5	.1324	14.37	.5617	.5169	.0964	.0181
40	7TH SAMP SAMPLE @5	.0081	32.37	.0214	.2213	.0049	.0002
41	8TH SAMPLE PS @5	.1211	45.26	.5591	.5909	.0966	.0181
42	MCVA 950728I901	.4817	25.32	2.585	2.013	.5265	.0924
43	MCVB 950911H901	.0213	.0710	.0592	.0038	.0008	.0001
44	SST-ICS-2 950908I102	.0678	98.17	.1044	.0132	.0024	.0001
45	SST-ICS-1 950908I101	.0625	94.52	.0855	.0131	.0012	.0001
46	STD1-Blank 108444	-.0008	-.0017	-.0089	.0008	-.0004	.0000

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1866	1709	579	7927.67	1877.67	600.333
2	SPC-BLK 108444	.1742	.1379	.0128	.3274	.0538	.0219
3	SPC-STD 950831I101	1851.33	1710	583.333	7935	1868	613
4	SPC-STD 950831I101	2089.33	1566.67	576.667	7995.33	1894.67	626
5	SPC-STD 950831I101	.1791	.0885	.0124	.3414	.0558	.0263
6	STD1-Blank	.18823	.17229	.0584	.79949	.18873	.06133
7	STD2					16.9242	11.8826
8	STD3		76.8899	7.44959			
9	STD4						
10	STD5				22.9633		
11	STD6						
12	STD7						
13	STD8	19.0948					
14	STD9						
15	STD1-Blank 108444	.0009	.0027	.0019	.0080	.0024	.0005
16	STD1-Blank	.1911	.16743	.05913	.80313	.19086	.06303
17	STD2					17.1959	12.021
18	STD3		79.0414	7.66246			
19	STD4						
20	STD5				23.5204		
21	STD6						
22	STD7						
23	STD8	20.3474					
24	STD9						
25	STD1-Blank 108444	-.0127	.0020	-.0006	-.0161	.0006	-.0006
26	MCVA 950728I901	23.83	24.55	.4863	-.0507	1.015	1.022
27	MCVB 950911H901	.0115	.0046	-.0001	2.038	.0027	.0015
28	SST-ICS-2 950908I102	.1379	.0498	.0147	-.0397	.0130	.0286
29	STD1-Blank 108444	-.0043	.0039	-.0006	.0007	.0007	-.0001
30	FIRST SAMP PREP BLK	.0329	.0730	.0044	.0422	.0110	.0095
31	2ND SAMPLE PREP BLK	4.646	9.433	.3456	.0570	.2079	1.637
32	3RD SAMP SAMPLE @5	.0833	.1505	.0050	.0415	.0136	.0279
33	4TH SAMP PS @5	4.821	9.836	.3483	.0488	.2137	1.701
34	MCVA 950728I901	23.67	24.48	.4902	-.0224	1.011	1.007
35	MCVA 950728I901	23.94	24.75	.4924	-.0322	1.023	1.022
36	MCVB 950911H901	.0191	.0128	.0005	2.071	.0059	.0014
37	SST-ICS-1 950908I101	.1242	.0428	.0153	-.0344	.0114	.0284
38	5TH SAMP PREP BLK @5	.0358	2.014	.0004	-.0935	.0081	.0110
39	6TH SAMP BLK-PS @5	4.861	10.72	.3552	-.0667	.2100	1.677
40	7TH SAMP SAMPLE @5	.0278	1.117	.0015	.0501	.0085	.0396
41	8TH SAMPLE PS @5	4.748	10.53	.3431	.0654	.2059	1.677
42	MCVA 950728I901	24.33	24.93	.4926	-.0409	1.032	1.031
43	MCVB 950911H901	.0172	.0122	.0012	2.056	.0058	.0024
44	SST-ICS-2 950908I102	.1321	.0514	.0151	-.0465	.0138	.0322
45	SST-ICS-1 950908I101	.1280	.0409	.0126	-.0467	.0108	.0277
46	STD1-Blank 108444	-.0061	.0068	-.0004	-.0030	.0007	-.0013

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	577	2434.67	428	725.667	2614.33	1258.67
2	SPC-BLK 108444	.0423	.0461	.0142	.0398	9.015	.0813
3	SPC-STD 950831I101	574.333	2432.33	427.333	725.333	2612.33	1258.67
4	SPC-STD 950831I101	18492.3	2620.67	431.333	780.667	2635.33	1269.67
5	SPC-STD 950831I101	8.740	.0402	.0147	.0403	9.425	.0848
6	STD1-Blank	.05846	.2452	.04316	.07303	.26326	.1271
7	STD2	3.66143			71.6045		
8	STD3					2.34279	
9	STD4		47.3686	10.7581			5.5269
10	STD5						
11	STD6						
12	STD7						
13	STD8						
14	STD9						
15	STD1-Blank 108444	.0035	.0005	.0006	.0005	.2645	.0022
16	STD1-Blank	.05866	.24636	.04346	.07363	.2626	.12773
17	STD2	3.66649			72.2312		
18	STD3					2.3758	
19	STD4		48.1317	10.9831			5.65993
20	STD5						
21	STD6						
22	STD7						
23	STD8						
24	STD9						
25	STD1-Blank 108444	.0023	-.0007	-.0001	-.0012	-.2918	-.0010
26	MCVA 950728I901	1.003	-.0023	.0012	20.30	26.41	.0051
27	MCVB 950911H901	-.0028	2.044	2.026	.0045	.0552	2.019
28	SST-ICS-2 950908I102	-.0230	.0077	.0047	19.09	4317.	.0271
29	STD1-Blank 108444	.0019	.0001	.0001	-.0003	.0079	.0001
30	FIRST SAMP PREP BLK	-.0049	.0058	.0017	.1354	2187.	.0126
31	2ND SAMPLE PREP BLK	.1846	.0055	.0031	3.962	2162.	.0232
32	3RD SAMP SAMPLE @5	.0032	.0071	.0018	.3229	2196.	.0125
33	4TH SAMP PS @5	.1957	.0057	.0027	4.246	2169.	.0216
34	MCVA 950728I901	.9845	.0012	.0022	20.08	27.12	.0104
35	MCVA 950728I901	.9972	.0012	.0022	20.29	26.82	.0105
36	MCVB 950911H901	.0001	2.039	2.027	.0088	.6073	2.034
37	SST-ICS-1 950908I101	.0179	.0073	.0046	18.27	1.388	.0272
38	5TH SAMP PREP BLK @5	.0158	.0096	.0035	.0693	1.743	.0165
39	6TH SAMP BLK-PS @5	.2116	.0088	.0046	3.976	25.13	.0253
40	7TH SAMP SAMPLE @5	.0344	.0063	.0021	.3200	1.506	.0141
41	8TH SAMPLE PS @5	.2256	.0064	.0033	4.156	24.52	.0247
42	MCVA 950728I901	1.016	-.0014	.0016	20.57	27.10	.0071
43	MCVB 950911H901	-.0007	2.024	2.009	.0071	.5521	2.019
44	SST-ICS-2 950908I102	-.0266	.0076	.0046	19.50	4424.	.0273
45	SST-ICS-1 950908I101	.0148	.0065	.0038	18.47	1.301	.0273
46	STD1-Blank 108444	.0017	.0002	.0000	-.0003	-.4417	.0001

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	507.667	3059.67	252.333	1060.67	537	4650.33
2	SPC-BLK 108444	.0338	.2403	.0067	.0444	.5325	.2890
3	SPC-STD 950831I101	508.667	3060.67	252.667	1062.33	538	4650.67
4	SPC-STD 950831I101	26303.7	3159	65164.3	1099.67	545.667	4679.33
5	SPC-STD 950831I101	10.42	.2474	9.965	.0465	.5719	.2976
6	STD1-Blank	.0513	.30883	.026	.10716	.05449	.46843
7	STD2		38.8219		11.9222	4.82293	
8	STD3	11.9467		6.39236			
9	STD4						15.7539
10	STD5						
11	STD6						
12	STD7						
13	STD8						
14	STD9						
15	STD1-Blank 108444	.0021	.0117	-.0007	.0008	.0227	.0105
16	STD1-Blank	.05156	.31009	.02559	.10876	.05453	.47123
17	STD2		39.3145		12.1008	4.80626	
18	STD3	12.0572		6.54376			
19	STD4						16.0192
20	STD5						
21	STD6						
22	STD7						
23	STD8						
24	STD9						
25	STD1-Blank 108444	-.0008	.0017	.0002	.0006	-.0138	-.0078
26	MCVA 950728I901	2.085	26.13	.5058	1.035	26.44	-.0027
27	MCVB 950911H901	.0010	.1611	.0009	.0003	.0322	2.020
28	SST-ICS-2 950908I102	.0107	.6538	.0044	.0072	.3882	.0578
29	STD1-Blank 108444	-.0007	.0108	.0002	.0009	-.0053	-.0003
30	FIRST SAMP PREP BLK	.0265	.0512	.0409	.0076	1.000	.0365
31	2ND SAMPLE PREP BLK	.3646	5.306	.2321	.2022	20.06	.0533
32	3RD SAMP SAMPLE @5	.0243	.1148	.0661	.0056	21.67	.0391
33	4TH SAMP PS @5	.3734	5.477	.2623	.2022	40.64	.0496
34	MCVA 950728I901	2.053	26.00	.5002	1.022	26.33	.0170
35	MCVA 950728I901	2.057	26.27	.5054	1.035	26.32	.0168
36	MCVB 950911H901	.0034	.1923	.0012	.0031	.0861	2.040
37	SST-ICS-1 950908I101	.0167	.6212	.0041	.0054	3796.	.0544
38	5TH SAMP PREP BLK @5	.0096	.0713	.0028	.0072	2130.	.0549
39	6TH SAMP BLK-PS @5	.3550	5.462	.1985	.2020	2118.	.0685
40	7TH SAMP SAMPLE @5	.0180	.0815	.0079	.0051	2185.	.0438
41	8TH SAMPLE PS @5	.3573	5.369	.2003	.2002	2122.	.0602
42	MCVA 950728I901	2.146	26.59	.5119	1.047	Q27.57	-.0004
43	MCVB 950911H901	.0039	.1869	.0013	.0033	.1129	2.023
44	SST-ICS-2 950908I102	.0110	.6798	.0040	.0070	.4157	.0529
45	SST-ICS-1 950908I101	.0159	.6242	.0039	.0046	3855.	.0493
46	STD1-Blank 108444	.0007	.0046	-.0000	.0021	.2018	-.0019

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	606.333	1686.67	17574	19434.7	19358.7	3442.33
2	SPC-BLK 108444	.0463	.2960	.3871	.8362	.4157	.2386
3	SPC-STD 950831I101	605	1708	17593.7	19406	19299.7	3472
4	SPC-STD 950831I101	617	1821.33	114863	19626	19467.3	3553
5	SPC-STD 950831I101	.0500	.2963	9.290	.8767	.4263	.2714
6	STD1-Blank	.06043	.17023	1.77719	1.95743	1.94863	.35053
7	STD2	5.66839		48.4081			
8	STD3		12.4302				
9	STD4						
10	STD5						27.0093
11	STD6						
12	STD7						
13	STD8						
14	STD9				18.7164	42.8699	
15	STD1-Blank 108444	.0045	.0065	.0138	.0481	.0113	-.0035
16	STD1-Blank	.06156	.17386	1.79659	1.97083	1.96023	.35293
17	STD2	5.76329		49.2685			
18	STD3		12.7695				
19	STD4						
20	STD5						28.1074
21	STD6						
22	STD7						
23	STD8						
24	STD9				19.2646	44.2751	
25	STD1-Blank 108444	-.0004	-.0201	-.0107	.0101	-.0062	-.0008
26	MCVA 950728I901	1.036	.0002	2.523	-.0483	-.0173	2.533
27	MCVB 950911H901	.0048	-.0244	.0650	Q3.094	2.073	.0191
28	SST-ICS-2 950908I102	50.36	.0435	.3163	.1089	.1401	.1040
29	STD1-Blank 108444	.0029	.0238	-.0027	.0169	-.0005	.0090
30	FIRST SAMP PREP BLK	4.806	.0453	.0696	.1236	.0704	.0383
31	2ND SAMPLE PREP BLK	9.821	.0852	5.606	.1321	.0974	.5468
32	3RD SAMP SAMPLE @5	21.23	4.984	.0901	.1388	.0677	.0521
33	4TH SAMP PS @5	25.94	4.927	5.757	.1156	.0911	.5840
34	MCVA 950728I901	1.037	.0360	2.555	.0243	.0127	2.515
35	MCVA 950728I901	1.051	.0492	2.571	.0117	.0130	2.564
36	MCVB 950911H901	.0062	.0062	.0830	Q3.155	2.132	.0249
37	SST-ICS-1 950908I101	48.24	.0167	.2837	.0962	.1326	.0900
38	5TH SAMP PREP BLK @5	.1085	.0234	.0576	.1769	.0682	.0383
39	6TH SAMP BLK-PS @5	5.302	.0563	5.757	.1544	.0956	.5569
40	7TH SAMP SAMPLE @5	.1523	1.078	.0723	.1462	.0594	.0398
41	8TH SAMPLE PS @5	5.272	1.100	5.674	.1347	.0889	.5579
42	MCVA 950728I901	1.056	.0338	2.574	-.0318	-.0129	2.585
43	MCVB 950911H901	.0079	.0016	.0771	Q3.158	2.111	.0270
44	SST-ICS-2 950908I102	51.66	.0360	.3161	.0798	.1408	.1079
45	SST-ICS-1 950908I101	48.89	.0089	.2664	.0687	.1247	.0863
46	STD1-Blank 108444	.0030	-.0146	-.0083	.0131	-.0071	.0073

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	2060.67	4829	8917.33	175.333	13056.7	3000
2	SPC-BLK 108444	.2924	.2298	1.514	.0033	.3104	.0709
3	SPC-STD 950831I101	2047.33	4815.67	8688	175.333	13045.7	2997.33
4	SPC-STD 950831I101	2072	4906	9000.33	176	13686.7	3034.33
5	SPC-STD 950831I101	.2986	.2472	1.528	.0033	.3178	.0774
6	STD1-Blank	.20559	.4896	.89563	.01769	1.31066	.30226
7	STD2				8.25773		
8	STD3						
9	STD4						11.7473
10	STD5						
11	STD6						
12	STD7		61.2638			43.114	
13	STD8	3.56299					
14	STD9			6.76606			
15	STD1-Blank 108444	.0044	.2158	.0525	.0003	.0126	.0031
16	STD1-Blank	.21113	.4851	.9024	.01793	1.32896	.30376
17	STD2				8.37546		
18	STD3						
19	STD4						12.0716
20	STD5						
21	STD6						
22	STD7		64.4211			45.4993	
23	STD8	3.7906					
24	STD9			6.96386			
25	STD1-Blank 108444	-.0015	.0997	-.0034	.0002	-.0006	.0007
26	MCVA 950728I901	2.394	18.09	.1517	.5246	-.0024	.0434
27	MCVB 950911H901	.0010	.1466	2.181	.0006	1.836	5.211
28	SST-ICS-2 950908I102	.0530	.3409	1.176	.0011	.0862	.8118
29	STD1-Blank 108444	.0044	.0318	.0416	.0003	.0069	.0033
30	FIRST SAMP PREP BLK	.0393	.4233	.2588	.0016	.0468	.0124
31	2ND SAMPLE PREP BLK	.5135	13.42	.5832	.0942	.0604	.3140
32	3RD SAMP SAMPLE @5	.0149	1.476	.3047	.0062	.0421	.0119
33	4TH SAMP PS @5	.5156	14.84	.5849	.1015	.0608	.3263
34	MCVA 950728I901	2.371	Q17.96	.2407	.5142	.0098	.0375
35	MCVA 950728I901	2.415	18.15	.2445	.5204	.0110	.0439
36	MCVB 950911H901	.0135	.1409	Q2.383	.0009	1.879	5.272
37	SST-ICS-1 950908I101	.0296	.2557	1.057	.0012	.0678	.7719
38	5TH SAMP PREP BLK @5	.0348	.1081	.3118	.0143	.0502	.0247
39	6TH SAMP BLK-PS @5	.5249	13.62	.6066	.1078	.0544	.3360
40	7TH SAMP SAMPLE @5	.0088	.8060	.2135	.0182	.0274	.0092
41	8TH SAMPLE PS @5	.4996	14.06	.5399	.1108	.0408	.3137
42	MCVA 950728I901	2.431	18.44	.1779	.5327	-.0091	.0377
43	MCVB 950911H901	.0185	.1264	Q2.331	.0008	1.848	5.207
44	SST-ICS-2 950908I102	.0362	.3042	1.162	.0011	.0818	.8410
45	SST-ICS-1 950908I101	.0370	.2386	1.006	.0011	.0529	.7799
46	STD1-Blank 108444	-.0098	-.0024	-.0286	.0003	-.0045	-.0007

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#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	808.667	461	21897.3	1257.33	394.667	321
2	SPC-BLK 108444	.0185	.1927	4.802	.0422	.1377	.0195
3	SPC-STD 950831I101	807.667	456	21883.7	1254.67	390.333	321
4	SPC-STD 950831I101	817.333	477	22090.7	1271	398	323
5	SPC-STD 950831I101	.0196	.2227	4.996	.0444	.1316	.0201
6	STD1-Blank	.0815	.04606	2.21143	.12673	.03936	.03233
7	STD2	14.4399					
8	STD3						
9	STD4						
10	STD5				12.0567		3.02286
11	STD6			50.7353			
12	STD7						
13	STD8		1.12826				
14	STD9					3.24366	
15	STD1-Blank 108444	.0006	.0099	.0938	.0006	.0073	.0003
16	STD1-Blank	.08186	.04589	2.22296	.12736	.03959	.03253
17	STD2	14.5518					
18	STD3						
19	STD4						
20	STD5				12.3867		3.08186
21	STD6			53.0859			
22	STD7						
23	STD8		1.18133				
24	STD9					3.32019	
25	STD1-Blank 108444	-.0003	.0061	-.0958	-.0008	-.0013	-.0005
26	MCVA 950728I901	1.010	2.419	-.1971	.9835	.0210	-.0007
27	MCVB 950911H901	.0013	.0176	08.463	-.0020	0.5138	1.005
28	SST-ICS-2 950908I102	.0080	.2284	43.24	.0152	.0627	.0083
29	STD1-Blank 108444	-.0001	.0065	-.0113	-.0003	-.0010	-.0005
30	FIRST SAMP PREP BLK	.0494	.0311	.4808	.0054	.0273	.0018
31	2ND SAMPLE PREP BLK	.2369	.5215	17.80	.1921	.0298	.0045
32	3RD SAMP SAMPLE @5	.0784	.0899	.5848	.0139	.0303	.0020
33	4TH SAMP PS @5	.2696	.5852	18.23	.2044	.0415	.0040
34	MCVA 950728I901	.9957	2.412	.1191	.9726	.0223	.0003
35	MCVA 950728I901	1.007	2.449	.0989	.9833	.0301	.0004
36	MCVB 950911H901	.0027	.0220	08.609	.0007	0.5316	1.009
37	SST-ICS-1 950908I101	.0074	.2233	41.23	.0135	.0564	.0077
38	5TH SAMP PREP BLK @5	.0048	.0332	.2192	.0066	.0179	.0034
39	6TH SAMP BLK-PS @5	.1965	.5281	17.55	.1961	.0341	.0056
40	7TH SAMP SAMPLE @5	.0141	.0800	.5845	.0174	.0154	.0020
41	8TH SAMPLE PS @5	.2027	.5766	17.78	.2044	.0242	.0046
42	MCVA 950728I901	1.026	2.476	-.1341	.9966	.0217	-.0007
43	MCVB 950911H901	.0024	.0227	08.446	.0002	0.5255	.9955
44	SST-ICS-2 950908I102	.0075	.2299	44.30	.0150	.0712	.0082
45	SST-ICS-1 950908I101	.0070	.2284	41.71	.0125	.0565	.0074
46	STD1-Blank 108444	-.0001	.0069	-.0928	-.0007	.0064	-.0005

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	436	1030
2	SPC-BLK 108444	.0070	.0367
3	SPC-STD 950831I101	445.333	1029
4	SPC-STD 950831I101	116652	1037.67
5	SPC-STD 950831I101	8.316	.0377
6	STD1-Blank	.04459	.10383
7	STD2	23.2699	25.7728
8	STD3		
9	STD4		
10	STD5		
11	STD6		
12	STD7		
13	STD8		
14	STD9		
15	STD1-Blank 108444	-.0006	.0000
16	STD1-Blank	.04443	.10426
17	STD2	23.7471	25.9347
18	STD3		
19	STD4		
20	STD5		
21	STD6		
22	STD7		
23	STD8		
24	STD9		
25	STD1-Blank 108444	-.0005	-.0009
26	MCVA 950728I901	.9869	2.069
27	MCVB 950911H901	.0022	.0129
28	SST-ICS-2 950908I102	.0131	9.565
29	STD1-Blank 108444	-.0002	-.0002
30	FIRST SAMP PREP BLK	.0098	.0301
31	2ND SAMPLE PREP BLK	.2065	.8651
32	3RD SAMP SAMPLE @5	.0219	.0372
33	4TH SAMP PS @5	.2222	.8996
34	MCVA 950728I901	.9895	2.038
35	MCVA 950728I901	.9986	2.061
36	MCVB 950911H901	.0018	.0093
37	SST-ICS-1 950908I101	.0105	9.214
38	5TH SAMP PREP BLK @5	.0236	10.04
39	6TH SAMP BLK-PS @5	.2178	10.77
40	7TH SAMP SAMPLE @5	.0161	.0878
41	8TH SAMPLE PS @5	.2201	.9395
42	MCVA 950728I901	1.015	2.094
43	MCVB 950911H901	.0013	.0077
44	SST-ICS-2 950908I102	.0157	9.783
45	SST-ICS-1 950908I101	.0107	9.323
46	STD1-Blank 108444	.0005	-.0014

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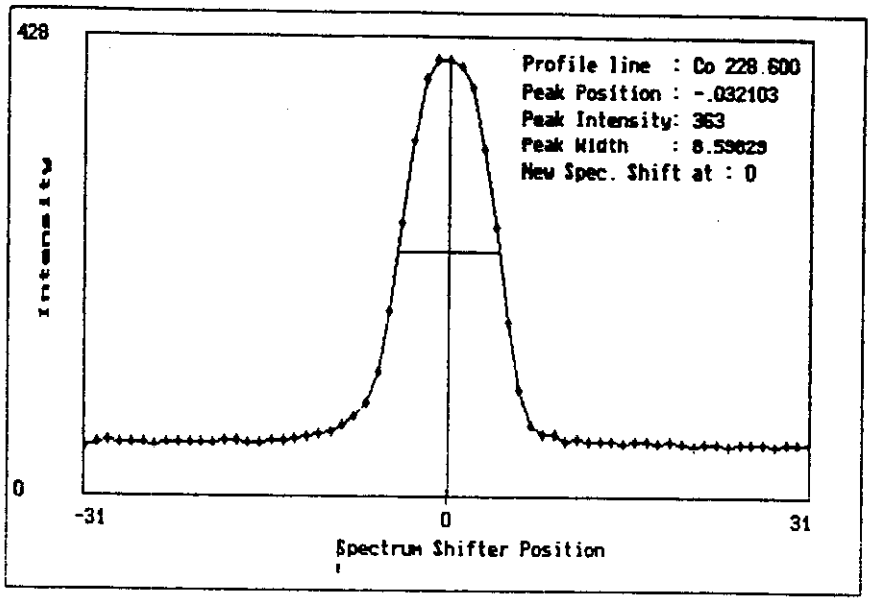

Analysis Report Tue 09-19-95 10:25:11 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/19/95 10:23:52
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8388	2588	2225	1381	382	192	1866
SDev	16	5	17	6	1	1	10
%RSD	.1927	.1771	.7443	.4522	.3020	.3002	.5112
#1	8385	2584	2208	1379	381	192	1872
#2	8373	2587	2227	1376	383	192	1871
#3	8405	2593	2241	1388	383	193	1855

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1709	579	7928	1878	600	577	2435
SDev	1	17	31	9	14	0	6
%RSD	.0585	2.951	.3911	.4530	2.249	.0000	.2641
#1	1709	561	7927	1881	587	577	2432
#2	1708	595	7897	1868	614	577	2430
#3	1710	581	7959	1884	600	577	2442

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	428	726	2614	1259	508	3060	252
SDev	1	3	5	2	2	13	1
%RSD	.2336	.3468	.1808	.1214	.3009	.4138	.4576
#1	428	723	2616	1260	509	3074	253
#2	427	726	2609	1257	506	3055	251
#3	429	728	2618	1259	508	3050	253

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1061	537	4650	606	1687	17570	19430
SDev	7	2	22	5	15	41	59
%RSD	.6820	.3724	.4624	.8136	.8639	.2310	.3049
#1	1057	539	4645	603	1685	17540	19420
#2	1056	535	4632	612	1673	17620	19390
#3	1069	537	4674	604	1702	17570	19500

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19360	3442	2061	4829	8917	175	13060
SDev	64	6	25	16	19	1	41
%RSD	.3291	.1868	1.218	.3235	.2084	.3293	.3160
#1	19330	3435	2037	4837	8912	175	13060
#2	19320	3447	2087	4811	8938	175	13010
#3	19430	3445	2058	4839	8902	176	13090

Elem	Th	Ti	Tl	U	V	W	Y
Avge	3000	809	461	21900	1257	395	321
SDev	10	3	5	51	1	4	1
%RSD	.3283	.3975	1.148	.2322	.0459	.8898	.3115
#1	3008	811	465	21920	1257	391	322
#2	2989	805	455	21840	1257	398	320
#3	3003	810	463	21940	1258	395	321

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Elem	Zn	Zr
Avge	436	1030
SDev	7	3
%RSD	1.606	.3363
#1	429	1032
#2	436	1026
#3	443	1032

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/19/95 10:23:52
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0504	.2195	.2023	.0337	.0098	.0006	.1742
SDev	.0004	.0034	.0065	.0006	.0002	.0000	.0040
%RSD	.8670	1.527	3.221	1.881	1.583	5.196	2.310
#1	.0503	.2157	.1954	.0335	.0097	.0006	.1767
#2	.0501	.2208	.2032	.0332	.0099	.0006	.1764
#3	.0509	.2221	.2084	.0344	.0099	.0006	.1696

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1379	.0128	.3274	.0538	.0219	.0423	.0461
SDev	.0002	.0018	.0066	.0010	.0023	.0002	.0006
%RSD	.1432	14.14	2.016	1.903	10.56	.3715	1.388
#1	.1378	.0109	.3272	.0542	.0196	.0423	.0458
#2	.1377	.0145	.3209	.0526	.0243	.0425	.0457
#3	.1381	.0130	.3341	.0546	.0219	.0422	.0468

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0142	.0398	9.015	.0813	.0338	.2403	.0067
SDev	.0002	.0007	.092	.0004	.0006	.0075	.0002
%RSD	1.104	1.809	1.023	.5469	1.813	3.114	2.399
#1	.0142	.0390	9.048	.0817	.0344	.2481	.0068
#2	.0140	.0400	8.911	.0808	.0332	.2395	.0066
#3	.0143	.0404	9.087	.0813	.0340	.2332	.0068

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0444	.5325	.2890	.0463	.2960	.3871	.8362
SDev	.0013	.0091	.0070	.0018	.0114	.0037	.0143
%RSD	2.867	1.704	2.409	3.841	3.862	.9662	1.712
#1	.0438	.5417	.2871	.0451	.2949	.3839	.8280
#2	.0436	.5235	.2831	.0484	.2852	.3912	.8278
#3	.0459	.5325	.2967	.0455	.3080	.3863	.8527

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4157	.2386	.2924	.2298	1.514	.0033	.3104
SDev	.0069	.0019	.0149	.0038	.016	.0001	.0041
%RSD	1.667	.7811	5.096	1.671	1.086	2.121	1.324
#1	.4118	.2364	.2785	.2321	1.510	.0032	.3111
#2	.4115	.2399	.3081	.2254	1.532	.0032	.3061
#3	.4237	.2393	.2907	.2320	1.500	.0034	.3142

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0709	.0185	.1927	4.802	.0422	.1377	.0195
SDev	.0027	.0004	.0101	.052	.0001	.0062	.0003

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%RSD	3.756	2.293	5.253	1.082	.1855	4.490	1.680
#1	.0738	.0188	.2005	4.821	.0421	.1313	.0198
#2	.0686	.0180	.1813	4.743	.0423	.1436	.0192
#3	.0704	.0186	.1963	4.842	.0423	.1381	.0195

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0070	.0367
SDev	.0005	.0005
%RSD	7.124	1.485
#1	.0065	.0369
#2	.0070	.0361
#3	.0075	.0371

Analysis Report Disregard, uptake in 2%HNO3 OK 9/19/95 Tue 09-19-95 10:27:38 AM page 1

Method: ICP1 Sample Name: ~~SPC-STD 9508511~~101 Operator: DRS
Run Time: 09/19/95 10:26:21 2%HNO3
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8377	2582	2209	1362	383	192	1851
SDev	24	6	18	16	2	1	14
%RSD	.2886	.2366	.8254	1.154	.5222	.3002	.7683
#1	8355	2577	2189	1369	381	192	1858
#2	8374	2581	2212	1344	383	192	1861
#3	8403	2589	2225	1373	385	193	1835

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1710	583	7935	1868	613	574	2432
SDev	4	12	51	17	3	3	6
%RSD	.2549	2.060	.6440	.9148	.4316	.4382	.2374
#1	1707	584	7905	1852	610	572	2429
#2	1708	595	7906	1866	615	574	2429
#3	1715	571	7994	1886	614	577	2439

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	427	725	2612	1259	509	3061	253
SDev	2	5	8	3	3	9	2
%RSD	.3575	.6801	.2873	.1999	.6320	.2779	.6046
#1	426	722	2605	1256	510	3051	251
#2	427	723	2612	1259	505	3067	254
#3	429	731	2620	1261	511	3064	253

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1062	538	4651	605	1708	17590	19410
SDev	7	4	21	2	15	63	56
%RSD	.6407	.6702	.4563	.2863	.8625	.3585	.2868
#1	1057	534	4636	607	1724	17660	19370
#2	1060	539	4641	604	1695	17530	19380
#3	1070	541	4675	604	1705	17600	19470

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19300	3472	2047	4816	8888	175	13050
SDev	43	16	15	6	72	1	38
%RSD	.2203	.4490	.7250	.1319	.8122	.3293	.2919
#1	19270	3463	2031	4812	8813	175	13000
#2	19280	3490	2051	4812	8894	175	13060
#3	19350	3463	2060	4823	8957	176	13070

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2997	808	456	21880	1255	390	321
SDev	16	5	1	55	5	5	0
%RSD	.5279	.5851	.2193	.2510	.3681	1.289	.0000
#1	2980	806	456	21840	1252	385	321
#2	3001	804	457	21870	1252	391	321
#3	3011	813	455	21950	1260	395	321

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Elem	Zn	Zr
Avge	445	1029
SDev	16	4
%RSD	3.706	.4236
#1	450	1026
#2	427	1027
#3	459	1034

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Method: ICP1 Sample Name: SPC-STD 9508311101 Operator: DRS
Run Time: 09/19/95 10:27:58
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	8507	2625	2270	1414	387	193	2089
SDev	18	8	18	36	1	1	6
%RSD	.2175	.2975	.7883	2.582	.1493	.2986	.2722
#1	8488	2621	2255	1414	387	193	2091
#2	8507	2620	2266	1377	386	193	2083
#3	8525	2634	2290	1450	387	194	2094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1567	577	7995	1895	626	18490	2621
SDev	7	5	29	3	3	85	6
%RSD	.4153	.7820	.3595	.1612	.4226	.4573	.2102
#1	1560	572	7969	1892	625	18570	2617
#2	1567	581	7991	1894	629	18510	2618
#3	1573	577	8026	1898	624	18400	2627

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	431	781	2635	1270	26300	3159	65160
SDev	1	1	9	3	477	13	211
%RSD	.1339	.0740	.3422	.1982	1.814	.4140	.3234
#1	431	781	2626	1270	26820	3144	65320
#2	431	780	2636	1267	25880	3168	65250
#3	432	781	2644	1272	26220	3165	64930

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	1100	546	4679	617	1821	114900	19630
SDev	8	4	14	9	43	79	69
%RSD	.6886	.6938	.2948	1.413	2.387	.0691	.3497
#1	1091	543	4674	621	1772	114900	19580
#2	1103	550	4669	607	1838	114900	19590
#3	1105	544	4695	623	1854	114800	19710

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	19470	3553	2072	4906	9000	176	13690
SDev	68	23	10	12	41	1	72
%RSD	.3475	.6362	.4604	.2351	.4563	.5682	.5226
#1	19420	3542	2071	4893	8958	175	13610
#2	19440	3538	2063	4910	9003	176	13760
#3	19540	3579	2082	4915	9040	177	13690

Elem	Th	Ti	Tl	U	V	W	Y
Avge	3034	817	477	22090	1271	398	323
SDev	4	3	3	94	4	1	0
%RSD	.1248	.3079	.6289	.4249	.3147	.2513	.0000
#1	3030	815	474	22000	1267	399	323
#2	3036	817	477	22080	1271	398	323
#3	3037	820	480	22190	1275	397	323

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Elem	Zn	Zr
Avge	116700	1038
SDev	485	4
%RSD	.4157	.3649
#1	117000	1035
#2	116900	1036
#3	116100	1042

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/19/95 10:27:58
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0543	.2201	.2196	.0371	.0104	.0006	.1791
SDev	.0004	.0040	.0068	.0039	.0001	.0000	.0025
%RSD	.6921	1.824	3.104	10.56	.7418	3.871	1.380
#1	.0539	.2194	.2138	.0372	.0105	.0006	.1797
#2	.0543	.2165	.2180	.0331	.0103	.0006	.1764
#3	.0546	.2244	.2271	.0409	.0105	.0006	.1813

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0885	.0124	.3414	.0558	.0263	8.740	.0402
SDev	.0019	.0005	.0058	.0003	.0005	.041	.0006
%RSD	2.190	3.751	1.689	.5775	1.747	.4728	1.431
#1	.0865	.0119	.3361	.0555	.0261	8.776	.0399
#2	.0886	.0129	.3405	.0557	.0268	8.749	.0399
#3	.0903	.0123	.3476	.0561	.0259	8.694	.0409

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0147	.0403	9.425	.0848	10.42	.2474	9.965
SDev	.0001	.0002	.176	.0008	.19	.0056	.032
%RSD	.4549	.5039	1.867	.9670	1.844	2.280	.3247
#1	.0147	.0405	9.243	.0852	10.63	.2417	9.989
#2	.0147	.0401	9.438	.0839	10.25	.2529	9.977
#3	.0148	.0403	9.594	.0855	10.38	.2475	9.928

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0465	.5719	.2976	.0500	.2963	9.290	.8767
SDev	.0013	.0173	.0042	.0031	.0345	.007	.0175
%RSD	2.889	3.021	1.408	6.175	11.66	.0789	2.000
#1	.0449	.5599	.2964	.0515	.2572	9.294	.8663
#2	.0471	.5917	.2942	.0465	.3094	9.295	.8669
#3	.0474	.5641	.3023	.0521	.3225	9.282	.8970

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4263	.2714	.2986	.2472	1.528	.0033	.3178
SDev	.0070	.0066	.0054	.0020	.030	.0001	.0072
%RSD	1.633	2.433	1.821	.7945	1.978	3.519	2.257
#1	.4212	.2683	.2983	.2449	1.497	.0032	.3105
#2	.4235	.2669	.2934	.2484	1.531	.0033	.3248
#3	.4343	.2790	.3042	.2481	1.557	.0035	.3180

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0774	.0196	.2227	4.996	.0444	.1316	.0201
SDev	.0036	.0003	.0055	.104	.0006	.0019	.0001

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%RSD	4.615	1.450	2.478	2.076	1.290	1.472	.3080
#1	.0802	.0193	.2171	4.898	.0438	.1336	.0201
#2	.0786	.0195	.2227	4.987	.0444	.1317	.0201
#3	.0734	.0199	.2282	5.105	.0449	.1297	.0200

Elem	Zn	Zr
Units	ppm	ppm
Avge	8.316	.0377
SDev	.035	.0010
%RSD	.4170	2.569
#1	8.338	.0370
#2	8.335	.0373
#3	8.276	.0388

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Method: ICP0 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.8457	.2613	.2226	.1369	.0386	.0194	.1882
SDev	.0022	.0010	.0004	.0006	.0001	.0001	.0007
%RSD	.2581	.3884	.1815	.4695	.1494	.2981	.3731
#1	.8476	.2624	.2227	.1372	.0387	.0194	.1889
#2	.8461	.2604	.2222	.1374	.0386	.0193	.1875
#3	.8433	.2611	.2230	.1362	.0386	.0194	.1883

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1723	.0584	.7995	.1887	.0613	.0585	.2452
SDev	.0006	.0003	.0014	.0003	.0008	.0002	.0006
%RSD	.3231	.4530	.1764	.1619	1.245	.3560	.2547
#1	.1729	.0587	.8010	.1888	.0605	.0583	.2459
#2	.1722	.0582	.7982	.1890	.0615	.0587	.2450
#3	.1718	.0583	.7993	.1884	.0620	.0584	.2447

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0432	.0730	.2633	.1271	.0513	.3088	.0260
SDev	.0001	.0005	.0009	.0006	.0003	.0022	.0001
%RSD	.2675	.7026	.3447	.4786	.5157	.7141	.3846
#1	.0433	.0736	.2643	.1278	.0515	.3107	.0261
#2	.0431	.0729	.2626	.1268	.0514	.3094	.0259
#3	.0431	.0726	.2629	.1267	.0510	.3064	.0260

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.1072	.0545	.4684	.0604	.1702	1.777	1.957
SDev	.0007	.0007	.0022	.0009	.0015	.007	.009
%RSD	.6878	1.284	.4737	1.483	.8560	.4154	.4648
#1	.1080	.0550	.4708	.0610	.1714	1.781	1.967
#2	.1066	.0537	.4681	.0594	.1707	1.782	1.955
#3	.1069	.0548	.4664	.0609	.1686	1.769	1.950

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.949	.3505	.2056	.4896	.8956	.0177	1.311
SDev	.008	.0017	.0017	.0024	.0039	.0000	.005
%RSD	.4047	.4878	.8182	.4906	.4378	.0000	.3438
#1	1.957	.3497	.2050	.4923	.8993	.0177	1.315
#2	1.946	.3525	.2043	.4888	.8915	.0177	1.310
#3	1.942	.3494	.2075	.4877	.8961	.0177	1.306

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.3023	.0815	.0461	2.211	.1267	.0394	.0323
SDev	.0011	.0003	.0002	.008	.0003	.0007	.0001
%RSD	.3806	.4250	.4519	.3408	.2537	1.784	.3571
#1	.3034	.0819	.0463	2.218	.1271	.0401	.0324
#2	.3011	.0813	.0460	2.212	.1266	.0387	.0324
#3	.3023	.0813	.0459	2.204	.1265	.0393	.0322

Elem	Zn	Zr
Avge	.0446	.1038
SDev	.0019	.0004

%RSD	4.260	.4010
#1	.0465	.1043
#2	.0446	.1035
#3	.0427	.1037

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	7.577	16.92	11.88	3.661	71.60	38.82	11.92
SDev	.094	.14	.10	.045	.62	.32	.11
%RSD	1.246	.8205	.8373	1.225	.8629	.8229	.9486
#1	7.627	16.99	11.94	3.685	71.93	38.98	11.97
#2	7.468	16.76	11.77	3.610	70.89	38.45	11.79
#3	7.635	17.02	11.94	3.690	71.99	39.03	12.00

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	4.823	5.668	48.41	8.258	14.44	23.27	25.77
SDev	.101	.041	.33	.101	.15	.22	.27
%RSD	2.099	.7219	.6865	1.220	1.013	.9331	1.030
#1	4.907	5.688	48.54	8.294	14.51	23.41	25.92
#2	4.710	5.621	48.03	8.144	14.27	23.02	25.47
#3	4.852	5.696	48.66	8.335	14.54	23.38	25.93

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 10:45:45 AM page 1

Method: ICPO Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	57.94	45.32	76.89	7.450	2.343	11.95	6.392
SDev	.17	.14	.23	.019	.008	.08	.018
%RSD	.2930	.3145	.3040	.2592	.3506	.6380	.2748
#1	57.88	45.28	77.04	7.449	2.333	11.86	6.396
#2	58.13	45.48	77.01	7.469	2.349	11.99	6.408
#3	57.81	45.20	76.62	7.431	2.346	11.99	6.373

Elem	P
Avge	12.43
SDev	.03
%RSD	.2156
#1	12.45
#2	12.44
#3	12.40

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	47.37	10.76	5.527	15.75	11.75
SDev	.23	.04	.015	.07	.02
%RSD	.4826	.3607	.2693	.4153	.1771
#1	47.41	10.76	5.529	15.75	11.75
#2	47.57	10.80	5.541	15.82	11.77
#3	47.12	10.72	5.511	15.69	11.73

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 10:54:56 AM page

Method: ICP0 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	22.87	22.96	27.01	12.06	3.023
SDev	.13	.14	.13	.07	.016
%RSD	.5645	.6108	.4762	.5643	.5441
#1	22.85	22.97	27.03	12.06	3.025
#2	22.75	22.82	26.87	11.99	3.005
#3	23.01	23.10	27.13	12.12	3.038

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Standard: STD6

Elem	U
Avge	50.74
SDev	.19
%RSD	.3648
#1	50.74
#2	50.55
#3	50.92

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 11:02:36 AM page

Method: ICP0 Standard: STD7

Elem	Be	Si	Te
Avge	2.078	61.26	43.11
SDev	.005	.13	.13
%RSD	.2571	.2087	.2982
#1	2.083	61.40	43.26
#2	2.073	61.15	43.01
#3	2.076	61.24	43.08

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 11:06:13 AM page 1

Method: ICP0 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	22.90	19.09	3.563	1.128
SDev	.06	.06	.018	.007
%RSD	.2636	.2973	.5170	.6089
#1	22.84	19.05	3.546	1.121
#2	22.90	19.08	3.560	1.129
#3	22.96	19.16	3.583	1.135

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 11:10:32 AM page

Method: ICP0 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	18.72	42.87	6.766	3.244
SDev	.10	.26	.030	.019
%RSD	.5172	.6032	.4443	.5792
#1	18.75	42.95	6.791	3.252
#2	18.79	43.08	6.775	3.257
#3	18.61	42.58	6.733	3.222

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

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Method: ICP0 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.453479	-.383492	09/19/95 11:09:15
Al	308.215	STD3	STD1-Blank	8.66914	-2.26525	09/19/95 11:09:15
As	193.600	STD5	STD1-Blank	4.41532	-.982998	09/19/95 11:09:15
B	249.600	STD3	STD1-Blank	1.10665	-.151537	09/19/95 11:09:15
Ba	493.400	STD2	STD1-Blank	1.32662	-.051252	09/19/95 11:09:15
Be	313.042	STD7	STD1-Blank	.485869	-.009410	09/19/95 11:09:15
Bi	223.061	STD8	STD1-Blank	5.28918	-.995599	09/19/95 11:09:15
Ca	317.900	STD3	STD1-Blank	3.25870	-.561475	09/19/95 11:09:15
Cd	228.800	STD3	STD1-Blank	1.35296	-.079013	09/19/95 11:09:15
Ce	418.659	STD5	STD1-Blank	2.25593	-1.80361	09/19/95 11:09:15
Co	228.600	STD2	STD1-Blank	1.19506	-.225549	09/19/95 11:09:15
Cr	205.500	STD2	STD1-Blank	1.69187	-.103768	09/19/95 11:09:15
Cu	324.700	STD2	STD1-Blank	5.55098	-.324547	09/19/95 11:09:15
Dy	353.170	STD4	STD1-Blank	1.06104	-.260168	09/19/95 11:09:15
Eu	381.900	STD4	STD1-Blank	1.86656	-.080573	09/19/95 11:09:15
Fe	259.900	STD2	STD1-Blank	2.79597	-.204199	09/19/95 11:09:15
K	766.500	STD3	STD1-Blank	240.439	-63.2995	09/19/95 11:09:15
La	398.852	STD4	STD1-Blank	3.70384	-.470758	09/19/95 11:09:15
Li	670.700	STD3	STD1-Blank	4.20329	-.215629	09/19/95 11:09:15
Mg	279.078	STD2	STD1-Blank	6.49131	-2.00473	09/19/95 11:09:15
Mn	257.600	STD3	STD1-Blank	1.57075	-.040840	09/19/95 11:09:15
Mo	202.000	STD2	STD1-Blank	1.69276	-.181408	09/19/95 11:09:15
Na	588.900	STD2	STD1-Blank	52.4281	-2.85733	09/19/95 11:09:15
Nd	406.106	STD4	STD1-Blank	3.27108	-1.53228	09/19/95 11:09:15
Ni	231.600	STD2	STD1-Blank	3.56636	-.215527	09/19/95 11:09:15
P	214.900	STD3	STD1-Blank	8.15665	-1.38853	09/19/95 11:09:15
Pb	220.300	STD2	STD1-Blank	1.07225	-1.90560	09/19/95 11:09:15
Pd	360.959	STD9	STD1-Blank	2.98348	-5.83996	09/19/95 11:09:15
Rh	343.489	STD9	STD1-Blank	1.22186	-2.38095	09/19/95 11:09:15
Sb	206.838	STD5	STD1-Blank	3.75111	-1.31489	09/19/95 11:09:15
Se	196.026	STD8	STD1-Blank	5.95699	-1.22476	09/19/95 11:09:15
Si	288.100	STD7	STD1-Blank	3.29087	-1.61121	09/19/95 11:09:15
Sn	242.950	STD9	STD1-Blank	8.51726	-7.62634	09/19/95 11:09:15
Sr	421.500	STD2	STD1-Blank	1.21359	-.021480	09/19/95 11:09:15
Te	214.275	STD7	STD1-Blank	1.19608	-1.56766	09/19/95 11:09:15
Th	283.730	STD4	STD1-Blank	4.36872	-1.32052	09/19/95 11:09:15
Ti	334.900	STD2	STD1-Blank	1.39291	-.113522	09/19/95 11:09:15
Tl	190.864	STD8	STD1-Blank	18.4809	-.851352	09/19/95 11:09:15
U	378.280	STD6	STD1-Blank	10.3042	-22.7871	09/19/95 11:09:15
V	292.402	STD5	STD1-Blank	1.67646	-.212463	09/19/95 11:09:15
W	224.875	STD9	STD1-Blank	15.6040	-.614279	09/19/95 11:09:15
Y	371.030	STD5	STD1-Blank	3.34389	-.108119	09/19/95 11:09:15
Zn	213.800	STD2	STD1-Blank	.861131	-.038406	09/19/95 11:09:15
Zr	339.100	STD2	STD1-Blank	1.94788	-.202255	09/19/95 11:09:15

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Method: ICP0 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.20517	.383492	09/19/95 11:09:15
Al	308.215	STD3	STD1-Blank	.115352	2.26525	09/19/95 11:09:15
As	193.600	STD5	STD1-Blank	.226484	.982998	09/19/95 11:09:15
B	249.600	STD3	STD1-Blank	.903631	.151537	09/19/95 11:09:15
Ba	493.400	STD2	STD1-Blank	.753793	.051252	09/19/95 11:09:15
Be	313.042	STD7	STD1-Blank	2.05817	.009410	09/19/95 11:09:15
Bi	223.061	STD8	STD1-Blank	.189065	.995599	09/19/95 11:09:15
Ca	317.900	STD3	STD1-Blank	.306871	.561475	09/19/95 11:09:15
Cd	228.800	STD3	STD1-Blank	.739120	.079013	09/19/95 11:09:15
Ce	418.659	STD5	STD1-Blank	.443277	1.80361	09/19/95 11:09:15
Co	228.600	STD2	STD1-Blank	.836775	.225549	09/19/95 11:09:15
Cr	205.500	STD2	STD1-Blank	.591063	.103768	09/19/95 11:09:15
Cu	324.700	STD2	STD1-Blank	.180148	.324547	09/19/95 11:09:15
Dy	353.170	STD4	STD1-Blank	.942468	.260168	09/19/95 11:09:15
Eu	381.900	STD4	STD1-Blank	.535745	.080573	09/19/95 11:09:15
Fe	259.900	STD2	STD1-Blank	.357657	.204199	09/19/95 11:09:15
K	766.500	STD3	STD1-Blank	.004159	63.2995	09/19/95 11:09:15
La	398.852	STD4	STD1-Blank	.269990	.470758	09/19/95 11:09:15
Li	670.700	STD3	STD1-Blank	.237909	.215629	09/19/95 11:09:15
Mg	279.078	STD2	STD1-Blank	.154052	2.00473	09/19/95 11:09:15
Mn	257.600	STD3	STD1-Blank	.636637	.040840	09/19/95 11:09:15
Mo	202.000	STD2	STD1-Blank	.590750	.181408	09/19/95 11:09:15
Na	588.900	STD2	STD1-Blank	.019074	2.85733	09/19/95 11:09:15
Nd	406.106	STD4	STD1-Blank	.305709	1.53228	09/19/95 11:09:15
Ni	231.600	STD2	STD1-Blank	.280398	.215527	09/19/95 11:09:15
P	214.900	STD3	STD1-Blank	.122599	1.38853	09/19/95 11:09:
Pb	220.300	STD2	STD1-Blank	.932617	1.90560	09/19/95 11:09:
Pd	360.959	STD9	STD1-Blank	.335179	5.83996	09/19/95 11:09:15
Rh	343.489	STD9	STD1-Blank	.818425	2.38095	09/19/95 11:09:15
Sb	206.838	STD5	STD1-Blank	.266588	1.31469	09/19/95 11:09:15
Se	196.026	STD8	STD1-Blank	.167870	1.22476	09/19/95 11:09:15
Si	288.100	STD7	STD1-Blank	.303871	1.61121	09/19/95 11:09:15
Sn	242.950	STD9	STD1-Blank	.117409	7.62834	09/19/95 11:09:15
Sr	421.500	STD2	STD1-Blank	.824003	.021480	09/19/95 11:09:15
Te	214.275	STD7	STD1-Blank	.836066	1.56766	09/19/95 11:09:15
Th	283.730	STD4	STD1-Blank	.228900	1.32052	09/19/95 11:09:15
Ti	334.900	STD2	STD1-Blank	.717922	.113522	09/19/95 11:09:15
Tl	190.864	STD8	STD1-Blank	.054110	.851352	09/19/95 11:09:15
U	378.280	STD6	STD1-Blank	.097048	22.7871	09/19/95 11:09:15
V	292.402	STD5	STD1-Blank	.596497	.212463	09/19/95 11:09:15
W	224.875	STD9	STD1-Blank	.064086	.614279	09/19/95 11:09:15
Y	371.030	STD5	STD1-Blank	.299053	.108119	09/19/95 11:09:15
Zn	213.800	STD2	STD1-Blank	1.16126	.038406	09/19/95 11:09:15
Zr	339.100	STD2	STD1-Blank	.513379	.202255	09/19/95 11:09:15

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Method: ICP0

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	-.000000	.000000
		STD8	10.0000	10.0000	.000000
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000000
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	-.000008
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000004
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Be	313.042	STD1-Blank	.000000	.000000	-.000000
		STD7	1.00000	1.00000	.000000
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Ca	317.900	STD1-Blank	.000000	-.000000	.000000
		STD3	250.000	250.000	.000015
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Ce	418.659	STD1-Blank	.000000	.000000	-.000000
		STD5	50.0000	50.0000	-.000004
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	-.000000	.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	-.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	-.000000	.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	-.000000	.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	-.000000	.000000
		STD6	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

Analysis Report Tue 09-19-95 11:19:45 AM page 1

Method: ICP0 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 11:18:27
Comment: IEC CHECK RUN AFTER TORCH REPLACEMENT
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0072	.0157	.0091	.0004	.0000	.0009
SDev	.0006	.0022	.0042	.0033	.0001	.0000	.0040
%RSD	33.37	30.20	26.75	36.46	37.50	57.73	453.0
#1	.0016	.0069	.0113	.0124	.0002	.0001	.0004
#2	.0022	.0052	.0197	.0057	.0005	.0001	.0051
#3	.0011	.0095	.0162	.0093	.0004	.0000	-.0028

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0019	.0080	.0024	.0005	.0035	.0005
SDev	.0005	.0015	.0025	.0005	.0007	.0015	.0004
%RSD	18.33	81.13	31.56	22.16	134.7	41.78	80.00
#1	.0026	.0030	.0061	.0029	.0013	.0024	.0010
#2	.0023	.0026	.0108	.0021	.0001	.0052	.0001
#3	.0033	.0001	.0070	.0020	.0001	.0030	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0005	.2645	.0022	.0021	.0117	-.0007
SDev	.0001	.0005	.1772	.0000	.0004	.0117	.0002
%RSD	19.24	103.9	67.01	.0000	20.00	100.2	24.74
#1	.0006	.0007	.4648	.0022	.0025	.0238	-.0009
#2	.0006	.0007	.1282	.0022	.0021	.0108	-.0006
#3	.0004	-.0001	.2004	.0022	.0017	.0004	-.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0227	.0105	.0045	.0065	.0138	.0481
SDev	.0007	.0132	.0032	.0007	.0082	.0080	.0189
%RSD	89.22	58.08	30.35	15.79	125.2	57.94	39.18
#1	.0002	.0210	.0140	.0038	-.0027	.0072	.0572
#2	.0016	.0105	.0097	.0045	.0095	.0116	.0265
#3	.0006	.0367	.0077	.0052	.0128	.0227	.0608

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0113	-.0035	.0044	.2158	.0525	.0003	.0126
SDev	.0033	.0040	.0168	.0116	.0162	.0001	.0043
%RSD	28.99	112.9	383.4	5.363	30.81	21.65	34.22
#1	.0122	-.0073	-.0149	.2248	.0704	.0004	.0128
#2	.0077	.0006	.0125	.2198	.0483	.0002	.0168
#3	.0140	-.0039	.0155	.2027	.0389	.0004	.0082

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0006	.0099	.0938	.0006	.0073	.0003
SDev	.0015	.0002	.0112	.0420	.0002	.0086	.0002

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%RSD	50.17	35.25	114.1	44.80	34.64	118.0	57.73
#1	.0032	.0008	-.0031	.1058	.0004	-.0026	.0002
#2	.0045	.0006	.0154	.0471	.0004	.0130	.0002
#3	.0015	.0004	.0172	.1285	.0008	.0114	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0006	-.0000
SDev	.0015	.0002
%RSD	234.7	4104000.
#1	-.0023	-.0003
#2	.0000	.0001
#3	.0004	.0001

IntStd	1	2	3	4	5	6	7
Mode	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	--	--	--	--	--	--	--
Wavlen	--	--	--	--	--	--	--
Avge	10000	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	10000	--	--	--	--	--	--
#2	10000	--	--	--	--	--	--
#3	10000	--	--	--	--	--	--

Standardization Rpt. Tue 09-19-95 12:41:54 PM page 1

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.8491	.2632	.2279	.1409	.0390	.0195	.1911
SDev	.0008	.0002	.0013	.0021	.0001	.0000	.0006
%RSD	.0952	.0658	.5844	1.482	.1479	.0000	.2914
#1	.8498	.2630	.2294	.1385	.0390	.0195	.1905
#2	.8492	.2633	.2270	.1423	.0391	.0195	.1912
#3	.8482	.2633	.2272	.1419	.0390	.0195	.1916

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1674	.0591	.8031	.1909	.0630	.0587	.2464
SDev	.0003	.0006	.0023	.0002	.0005	.0001	.0003
%RSD	.1920	.9909	.2875	.1210	.7985	.2604	.1240
#1	.1672	.0589	.8018	.1906	.0625	.0585	.2461
#2	.1673	.0587	.8018	.1910	.0631	.0588	.2463
#3	.1678	.0598	.8058	.1910	.0635	.0587	.2467

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0435	.0736	.2626	.1277	.0516	.3101	.0256
SDev	.0001	.0001	.0006	.0001	.0001	.0008	.0003
%RSD	.1328	.0784	.2316	.0452	.1120	.2580	1.033
#1	.0434	.0736	.2619	.1277	.0516	.3101	.0254
#2	.0435	.0737	.2630	.1277	.0516	.3109	.0255
#3	.0435	.0736	.2629	.1278	.0515	.3093	.0259

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.1088	.0545	.4712	.0616	.1739	1.797	1.971
SDev	.0006	.0007	.0010	.0006	.0018	.009	.003
%RSD	.5982	1.221	.2147	.8946	1.031	.4822	.1711
#1	.1081	.0553	.4706	.0616	.1750	1.787	1.969
#2	.1088	.0542	.4707	.0610	.1748	1.798	1.969
#3	.1094	.0541	.4724	.0621	.1718	1.805	1.975

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.960	.3529	.2111	.4851	.9024	.0179	1.329
SDev	.005	.0014	.0010	.0010	.0029	.0001	.003
%RSD	.2749	.4010	.4768	.2172	.3167	.3219	.2349
#1	1.958	.3538	.2122	.4841	.9007	.0179	1.325
#2	1.956	.3537	.2102	.4850	.9008	.0179	1.331
#3	1.966	.3513	.2110	.4862	.9057	.0180	1.330

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.3038	.0819	.0459	2.223	.1274	.0396	.0325
SDev	.0009	.0002	.0001	.004	.0001	.0006	.0001
%RSD	.2838	.2543	.2179	.1904	.0453	1.406	.1775
#1	.3036	.0818	.0460	2.226	.1273	.0395	.0326
#2	.3030	.0817	.0459	2.218	.1274	.0391	.0325
#3	.3047	.0821	.0458	2.225	.1274	.0402	.0325

Elem	Zn	Zr
Avge	.0444	.1043
SDev	.0006	.0003

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%RSD	1.319	.2414
#1	.0442	.1040
#2	.0451	.1043
#3	.0440	.1045

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	7.599	17.20	12.02	3.666	72.23	39.31	12.10
SDev	.044	.06	.05	.020	.27	.11	.05
%RSD	.5829	.3529	.4555	.5365	.3697	.2699	.4288
#1	7.555	17.13	11.96	3.646	71.95	39.20	12.04
#2	7.644	17.24	12.06	3.685	72.48	39.40	12.14
#3	7.599	17.22	12.05	3.669	72.26	39.35	12.12

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	4.806	5.763	49.27	8.375	14.55	23.75	25.93
SDev	.007	.022	.18	.051	.07	.09	.10
%RSD	.1418	.3904	.3606	.6125	.4867	.3955	.3910
#1	4.810	5.740	49.07	8.318	14.48	23.65	25.83
#2	4.798	5.785	49.41	8.416	14.62	23.83	26.03
#3	4.810	5.765	49.33	8.393	14.56	23.76	25.94

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Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	59.45	46.32	79.04	7.662	2.376	12.06	6.544
SDev	.44	.31	.32	.033	.020	.13	.037
%RSD	.7461	.6622	.4048	.4298	.8566	1.043	.5595
#1	59.91	46.64	79.36	7.680	2.396	12.18	6.581
#2	59.02	46.03	78.72	7.624	2.355	11.93	6.508
#3	59.42	46.28	79.05	7.683	2.376	12.06	6.543

Elem	P
Avge	12.77
SDev	.09
%RSD	.6703
#1	12.85
#2	12.68
#3	12.78

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Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	48.13	10.98	5.660	16.02	12.07
SDev	.47	.10	.047	.14	.09
%RSD	.9726	.8662	.8240	.8925	.7184
#1	48.33	11.02	5.675	16.07	12.10
#2	48.47	11.06	5.697	16.13	12.14
#3	47.60	10.88	5.608	15.86	11.98

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	23.79	23.52	28.11	12.39	3.082
SDev	.09	.10	.11	.05	.015
%RSD	.3594	.4117	.3964	.4295	.4836
#1	23.69	23.41	27.98	12.33	3.065
#2	23.84	23.58	28.18	12.42	3.089
#3	23.84	23.58	28.17	12.42	3.092

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Method: ICP1 Standard: STD6

Elem	U
Avge	53.09
SDev	.38
%RSD	.7100
#1	52.65
#2	53.31
#3	53.30

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	2.174	64.42	45.50
SDev	.015	.48	.35
%RSD	.7115	.7412	.7636
#1	2.162	64.06	45.23
#2	2.191	64.96	45.89
#3	2.169	64.24	45.38

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	24.32	20.35	3.791	1.181
SDev	.05	.04	.004	.002
%RSD	.2119	.2197	.1038	.1655
#1	24.34	20.34	3.795	1.181
#2	24.27	20.30	3.790	1.180
#3	24.36	20.39	3.787	1.184

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	19.26	44.28	6.964	3.320
SDev	.06	.10	.019	.011
%RSD	.3102	.2211	.2752	.3187
#1	19.20	44.16	6.942	3.313
#2	19.31	44.32	6.971	3.332
#3	19.28	44.34	6.979	3.315

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.426014	-.361714	09/19/95 01:06:36
Al	308.215	STD3	STD1-Blank	8.44808	-2.22353	09/19/95 01:06:36
As	193.600	STD5	STD1-Blank	4.24418	-.967108	09/19/95 01:06:36
B	249.600	STD3	STD1-Blank	1.08282	-.152569	09/19/95 01:06:36
Ba	493.400	STD2	STD1-Blank	1.32270	-.051629	09/19/95 01:06:36
Be	313.042	STD7	STD1-Blank	.464123	-.009050	09/19/95 01:06:36
Bi	223.061	STD8	STD1-Blank	4.96122	-.948089	09/19/95 01:06:36
Ca	317.900	STD3	STD1-Blank	3.16961	-.530699	09/19/95 01:06:36
Cd	228.800	STD3	STD1-Blank	1.31521	-.077773	09/19/95 01:06:36
Ce	418.659	STD5	STD1-Blank	2.20097	-1.76767	09/19/95 01:06:36
Co	228.600	STD2	STD1-Blank	1.17612	-.224482	09/19/95 01:06:36
Cr	205.500	STD2	STD1-Blank	1.67252	-.105425	09/19/95 01:06:36
Cu	324.700	STD2	STD1-Blank	5.54349	-.325218	09/19/95 01:06:36
Dy	353.170	STD4	STD1-Blank	1.04416	-.257246	09/19/95 01:06:36
Eu	381.900	STD4	STD1-Blank	1.82821	-.079466	09/19/95 01:06:36
Fe	259.900	STD2	STD1-Blank	2.77171	-.204090	09/19/95 01:06:36
K	766.500	STD3	STD1-Blank	236.608	-62.1333	09/19/95 01:06:36
La	398.852	STD4	STD1-Blank	3.61520	-.461781	09/19/95 01:06:36
Li	670.700	STD3	STD1-Blank	4.16470	-.214760	09/19/95 01:06:36
Mg	279.078	STD2	STD1-Blank	6.40953	-1.98759	09/19/95 01:06:36
Mn	257.600	STD3	STD1-Blank	1.53417	-.039275	09/19/95 01:06:36
Mo	202.000	STD2	STD1-Blank	1.66778	-.181399	09/19/95 01:06:36
Na	588.900	STD2	STD1-Blank	52.6124	-2.86913	09/19/95 01:06:36
Nd	406.106	STD4	STD1-Blank	3.21585	-1.51541	09/19/95 01:06:36
Ni	231.600	STD2	STD1-Blank	3.50771	-.215958	09/19/95 01:06:36
P	214.900	STD3	STD1-Blank	7.93926	-1.38037	09/19/95 01:06:36
Pb	220.300	STD2	STD1-Blank	1.05325	-1.89228	09/19/95 01:06:36
Pd	360.959	STD9	STD1-Blank	2.89122	-5.69810	09/19/95 01:06:36
Rh	343.489	STD9	STD1-Blank	1.18162	-2.31625	09/19/95 01:06:36
Sb	206.838	STD5	STD1-Blank	3.60303	-1.27163	09/19/95 01:06:36
Se	196.026	STD8	STD1-Blank	5.58742	-1.17969	09/19/95 01:06:36
Si	288.100	STD7	STD1-Blank	3.12813	-1.51745	09/19/95 01:06:36
Sn	242.950	STD9	STD1-Blank	9.48235	-8.55687	09/19/95 01:06:36
Sr	421.500	STD2	STD1-Blank	1.19653	-.021458	09/19/95 01:06:36
Te	214.275	STD7	STD1-Blank	1.13198	-1.50437	09/19/95 01:06:36
Th	283.730	STD4	STD1-Blank	4.24886	-1.29066	09/19/95 01:06:36
Ti	334.900	STD2	STD1-Blank	1.38218	-.113154	09/19/95 01:06:36
Tl	190.864	STD8	STD1-Blank	17.6144	-.808502	09/19/95 01:06:36
U	378.280	STD6	STD1-Blank	9.83035	-21.8525	09/19/95 01:06:36
V	292.402	STD5	STD1-Blank	1.63141	-.207787	09/19/95 01:06:36
W	224.875	STD9	STD1-Blank	15.4444	-.611598	09/19/95 01:06:36
Y	371.030	STD5	STD1-Blank	3.27941	-.106690	09/19/95 01:06:36
Zn	213.800	STD2	STD1-Blank	.843788	-.037492	09/19/95 01:06:36
Zr	339.100	STD2	STD1-Blank	1.93570	-.201829	09/19/95 01:06:36

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.34734	.361714	09/19/95 01:06:36
Al	308.215	STD3	STD1-Blank	.118370	2.22353	09/19/95 01:06:36
As	193.600	STD5	STD1-Blank	.235617	.967108	09/19/95 01:06:36
B	249.600	STD3	STD1-Blank	.923514	.152569	09/19/95 01:06:36
Ba	493.400	STD2	STD1-Blank	.756030	.051629	09/19/95 01:06:36
Be	313.042	STD7	STD1-Blank	2.15460	.009050	09/19/95 01:06:36
Bi	223.061	STD8	STD1-Blank	.201563	.948089	09/19/95 01:06:36
Ca	317.900	STD3	STD1-Blank	.315496	.530699	09/19/95 01:06:36
Cd	228.800	STD3	STD1-Blank	.760333	.077773	09/19/95 01:06:36
Ce	418.659	STD5	STD1-Blank	.454345	1.76767	09/19/95 01:06:36
Co	228.600	STD2	STD1-Blank	.850253	.224482	09/19/95 01:06:36
Cr	205.500	STD2	STD1-Blank	.597900	.105425	09/19/95 01:06:36
Cu	324.700	STD2	STD1-Blank	.180392	.325218	09/19/95 01:06:36
Dy	353.170	STD4	STD1-Blank	.957707	.257246	09/19/95 01:06:36
Eu	381.900	STD4	STD1-Blank	.546982	.079466	09/19/95 01:06:36
Fe	259.900	STD2	STD1-Blank	.360788	.204090	09/19/95 01:06:36
K	766.500	STD3	STD1-Blank	.004226	62.1333	09/19/95 01:06:36
La	398.852	STD4	STD1-Blank	.276610	.461781	09/19/95 01:06:36
Li	670.700	STD3	STD1-Blank	.240113	.214760	09/19/95 01:06:36
Mg	279.078	STD2	STD1-Blank	.156018	1.98759	09/19/95 01:06:36
Mn	257.600	STD3	STD1-Blank	.651817	.039275	09/19/95 01:06:36
Mo	202.000	STD2	STD1-Blank	.599600	.181399	09/19/95 01:06:36
Na	588.900	STD2	STD1-Blank	.019007	2.86913	09/19/95 01:06:36
Nd	406.106	STD4	STD1-Blank	.310960	1.51541	09/19/95 01:06:36
Ni	231.600	STD2	STD1-Blank	.285087	.215958	09/19/95 01:06:36
P	214.900	STD3	STD1-Blank	.125956	1.38037	09/19/95 01:06:
Pb	220.300	STD2	STD1-Blank	.949438	1.89228	09/19/95 01:06:
Pd	360.959	STD9	STD1-Blank	.345875	5.69810	09/19/95 01:06:36
Rh	343.489	STD9	STD1-Blank	.846297	2.31625	09/19/95 01:06:36
Sb	206.838	STD5	STD1-Blank	.277544	1.27163	09/19/95 01:06:36
Se	196.026	STD8	STD1-Blank	.178973	1.17969	09/19/95 01:06:36
Si	288.100	STD7	STD1-Blank	.319680	1.51745	09/19/95 01:06:36
Sn	242.950	STD9	STD1-Blank	.105459	8.55687	09/19/95 01:06:36
Sr	421.500	STD2	STD1-Blank	.835753	.021458	09/19/95 01:06:36
Te	214.275	STD7	STD1-Blank	.883407	1.50437	09/19/95 01:06:36
Th	283.730	STD4	STD1-Blank	.235357	1.29066	09/19/95 01:06:36
Ti	334.900	STD2	STD1-Blank	.723497	.113154	09/19/95 01:06:36
Tl	190.864	STD8	STD1-Blank	.056772	.808502	09/19/95 01:06:36
U	378.280	STD6	STD1-Blank	.101726	21.8525	09/19/95 01:06:36
V	292.402	STD5	STD1-Blank	.612967	.207787	09/19/95 01:06:36
W	224.875	STD9	STD1-Blank	.064748	.611598	09/19/95 01:06:36
Y	371.030	STD5	STD1-Blank	.304933	.106690	09/19/95 01:06:36
Zn	213.800	STD2	STD1-Blank	1.18513	.037492	09/19/95 01:06:36
Zr	339.100	STD2	STD1-Blank	.516609	.201829	09/19/95 01:06:36

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000000
As	193.600	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	-.000008
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	-.000004
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Bi	223.061	STD1-Blank	.000000	-.000000	.000000
		STD6	100.000	100.000	.000000
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000000
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	-.000004
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	.000000	-.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Rh	343.489	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000004
Sb	206.838	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47694

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			Known Concentration	Measured Concentration	Residual Concentration
Element Sr	Wavelength 421.500	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element Te	Wavelength 214.275	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	-.000004
Element Th	Wavelength 283.730	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element Ti	Wavelength 334.900	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element Tl	Wavelength 190.864	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element U	Wavelength 378.280	Standard			
		STD1-Blank	.000000	.000001	-.000001
		STD6	500.000	500.000	.000000
Element V	Wavelength 292.402	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD5	20.0000	20.0000	.000000
Element W	Wavelength 224.875	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.6669	-.666901
Element Y	Wavelength 371.030	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD5	10.0000	10.0000	.000000
Element Zn	Wavelength 213.800	Standard			
		STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element Zr	Wavelength 339.100	Standard			
		STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 13:16:14 95 02228 SCH-325-405-1
Comment: BY-108 POST SPIKE CHECK RUN 9/19/95 AB
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	-.0064	-.0054	.0050	-.0003	-.0000	-.0127
SDev	.0002	.0045	.0095	.0003	.0001	.0000	.0086
%RSD	17.57	71.33	177.5	6.700	21.41	4541.	67.77
#1	-.0013	-.0092	.0014	.0046	-.0003	.0000	-.0038
#2	-.0014	-.0011	-.0163	.0051	-.0004	-.0000	-.0210
#3	-.0010	-.0087	-.0012	.0053	-.0003	.0000	-.0133

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0006	-.0161	.0006	-.0006	.0023	-.0007
SDev	.0012	.0008	.0022	.0010	.0007	.0016	.0003
%RSD	57.87	144.6	13.66	159.9	107.7	68.68	41.18
#1	.0027	-.0002	-.0186	-.0005	.0001	.0037	-.0005
#2	.0007	-.0000	-.0149	.0013	-.0009	.0006	-.0011
#3	.0027	-.0015	-.0147	.0010	-.0012	.0026	-.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0012	-.2918	-.0010	-.0008	.0017	.0002
SDev	.0002	.0008	.1118	.0015	.0005	.0037	.0002
%RSD	268.5	64.36	38.32	156.0	57.91	218.6	92.71
#1	.0001	-.0005	-.1656	.0008	-.0011	.0052	.0002
#2	-.0002	-.0021	-.3786	-.0020	-.0011	.0020	.0001
#3	-.0001	-.0011	-.3313	-.0018	-.0003	-.0022	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0138	-.0078	-.0004	-.0201	-.0107	.0101
SDev	.0006	.0185	.0024	.0016	.0154	.0034	.0087
%RSD	98.27	133.4	31.29	371.9	76.43	31.54	85.52
#1	.0004	-.0332	-.0061	-.0020	-.0075	-.0072	.0145
#2	.0001	-.0120	-.0106	-.0005	-.0372	-.0140	.0002
#3	.0013	.0036	-.0068	.0012	-.0156	-.0108	.0158

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	-.0008	-.0015	.0997	-.0034	.0002	-.0006
SDev	.0041	.0103	.0083	.0035	.0389	.0001	.0074
%RSD	66.51	1340.	561.8	3.513	1133.	27.08	1254.
#1	-.0104	-.0080	.0022	.1022	.0415	.0002	.0071
#2	-.0059	.0110	-.0110	.1013	-.0249	.0002	-.0077
#3	-.0022	-.0053	.0044	.0957	-.0268	.0003	-.0012

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0003	.0061	-.0958	-.0008	-.0013	-.0005
SDev	.0065	.0003	.0083	.0348	.0005	.0055	.0002

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%RSD	889.0	78.52	134.9	36.38	70.33	430.2	41.45
#1	.0040	-.0004	.0054	-.0797	-.0002	.0003	-.0007
#2	-.0068	-.0005	.0148	-.1357	-.0012	-.0074	-.0003
#3	.0050	-.0000	-.0018	-.0719	-.0010	.0033	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0005	-.0009
SDev	.0007	.0002
%RSD	143.7	20.06
#1	-.0004	-.0009
#2	-.0013	-.0007
#3	.0001	-.0010

Analysis Report QC Standard Tue 09-19-95 01:24:49 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:23:30
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

PASS DLG 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4707	24.77	2.520	1.971	.5191	.0918	23.83
SDev	.0015	.14	.007	.015	.0031	.0003	.10
%RSD	.3256	.5731	.2872	.7730	.5893	.3786	.4191
#1	.4724	24.83	2.526	1.972	.5210	.0921	23.82
#2	.4700	24.87	2.522	1.985	.5208	.0919	23.93
#3	.4696	24.61	2.512	1.955	.5156	.0914	23.73
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.55	.4863	-.0507	1.015	1.022	1.003	-.0023
SDev	.04	.0035	.0065	.001	.003	.005	.0005
%RSD	.1457	.7237	12.85	.1297	.2682	.5122	22.35
#1	24.58	.4904	-.0543	1.017	1.024	1.006	-.0023
#2	24.56	.4844	-.0546	1.015	1.019	1.006	-.0028
#3	24.51	.4842	-.0431	1.014	1.023	.9969	-.0018
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	20.30	26.41	.0051	2.085	26.13	.5058
SDev	.0003	.06	.23	.0012	.025	.10	.0009
%RSD	22.09	.2891	.8548	22.61	1.197	.3725	.1707
#1	.0011	20.34	26.26	.0047	2.091	26.20	.5065
#2	.0011	20.33	26.67	.0042	2.106	26.17	.5059
#3	.0016	20.24	26.29	.0064	2.057	26.02	.5048
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	26.44	-.0027	1.036	.0002	2.523	-.0483
SDev	.005	.30	.0078	.009	.0103	.002	.0149
%RSD	.4776	1.124	290.0	.9174	5069.	.0899	30.74
#1	1.041	26.44	-.0116	1.030	.0120	2.522	-.0454
#2	1.032	26.74	.0007	1.030	-.0061	2.521	-.0644
#3	1.032	26.15	.0029	1.047	-.0053	2.526	-.0352
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0173	2.533	2.394	18.09	.1517	.5246	-.0024
SDev	.0025	.005	.005	.05	.0324	.0029	.0048
%RSD	14.31	.1923	.2154	.2694	21.38	.5490	196.6
#1	-.0191	2.528	2.393	18.12	.1763	.5261	-.0071
#2	-.0182	2.533	2.389	18.12	.1150	.5264	-.0027
#3	-.0145	2.538	2.399	18.03	.1639	.5213	.0025
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0434	1.010	2.419	-.1971	.9835	.0210	-.0007
SDev	.0097	.004	.005	.0978	.0031	.0098	.0001
%RSD	22.33	.3823	.2100	49.62	.3186	46.82	19.60
#1	.0346	1.013	2.416	-.1778	.9867	.0168	-.0006
#2	.0538	1.012	2.425	-.3031	.9834	.0140	-.0009
#3	.0417	1.006	2.417	-.1104	.9804	.0323	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9869	2.069
SDev	.0047	.009
%RSD	.4717	.4142
#1	.9841	2.073
#2	.9923	2.074
#3	.9844	2.059
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 13:27:10
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Pd,U-Fail
Hi Fe recv. OK
DRS
9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168	.0300	.0441	.0045	.0000	-.0000	.0115
SDev	.0001	.0010	.0050	.0031	.0001	.0000	.0134
%RSD	.7432	3.331	11.39	68.21	1275.	15.06	116.6
#1	.0169	.0303	.0460	.0031	-.0001	-.0000	.0261
#2	.0166	.0289	.0480	.0080	.0000	-.0000	.0088
#3	.0168	.0308	.0385	.0024	.0001	-.0000	-.0003
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	-.0002	2.038	.0027	.0015	-.0028	2.044
SDev	.0008	.0019	.005	.0005	.0022	.0010	.004
%RSD	17.53	1209.	.2319	18.16	144.8	36.17	.1939
#1	.0045	.0001	2.033	.0028	.0011	-.0019	2.043
#2	.0054	.0016	2.039	.0032	-.0004	-.0025	2.040
#3	.0038	-.0022	2.042	.0022	.0039	-.0039	2.048
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.026	.0045	.0552	2.019	.0010	.1612	.0009
SDev	.004	.0003	.0595	.003	.0015	.0047	.0001
%RSD	.2046	7.772	107.9	.1254	146.3	2.936	7.619
#1	2.024	.0046	-.0000	2.018	-.0006	.1602	.0009
#2	2.023	.0049	.1183	2.017	.0014	.1663	.0009
#3	2.031	.0042	.0473	2.022	.0023	.1570	.0010
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0322	2.020	.0048	-.0244	.0650	Q3.094
SDev	.0011	.0212	.010	.0007	.0016	.0035	.021
%RSD	345.2	65.85	.4800	14.33	6.440	5.335	.6905
#1	-.0006	.0445	2.014	.0041	-.0231	.0655	Q3.090
#2	.0016	.0077	2.016	.0048	-.0262	.0613	Q3.074
#3	.0000	.0444	2.032	.0054	-.0240	.0682	Q3.117
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

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Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.073	.0191	.0010	.1466	2.181	.0006	1.836
SDev	.008	.0045	.0075	.0060	.008	.0000	.004
%RSD	.3952	23.71	727.1	4.084	.3723	.9592	.2232
#1	2.065	.0153	-.0034	.1402	2.174	.0006	1.832
#2	2.081	.0179	.0096	.1521	2.190	.0006	1.840
#3	2.072	.0241	-.0031	.1475	2.180	.0005	1.837
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.211	.0013	.0176	08.463	-.0020	0.5138	1.005
SDev	.010	.0001	.0149	.050	.0009	.0042	.001
%RSD	.1942	8.968	84.69	.5966	45.21	.8155	.1113
#1	5.203	.0012	.0168	08.445	-.0024	0.5186	1.003
#2	5.222	.0014	.0031	08.424	-.0010	0.5107	1.005
#3	5.207	.0012	.0328	08.520	-.0027	0.5122	1.006
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0022	.0129
SDev	.0012	.0011
%RSD	53.18	8.668
#1	.0029	.0130
#2	.0029	.0118
#3	.0009	.0140
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SST-ICS-2 9509081102 Operator: DRS
Run Time: 09/19/95 13:31:43
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0688	95.23	.0897	.0142	.0024	.0002	.1379
SDev	.0006	.67	.0121	.0007	.0001	.0000	.0188
%RSD	.8248	.7085	13.45	5.055	6.232	24.76	13.64
#1	.0682	96.01	.0763	.0149	.0025	.0001	.1411
#2	.0693	94.90	.0929	.0134	.0022	.0002	.1177
#3	.0691	94.79	.0998	.0142	.0025	.0002	.1549

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0498	.0147	-.0397	.0130	.0286	-.0230	.0077
SDev	.0020	.0014	.0076	.0005	.0036	.0018	.0009
%RSD	3.937	9.694	19.05	3.826	12.44	7.790	12.05
#1	.0477	.0149	-.0476	.0128	.0253	-.0245	.0069
#2	.0502	.0132	-.0390	.0126	.0282	-.0233	.0075
#3	.0516	.0160	-.0325	.0136	.0324	-.0210	.0088

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	19.09	4317.	.0271	.0108	.6538	.0044
SDev	.0003	.10	34.	.0011	.0005	.0054	.0002
%RSD	5.387	.5263	.7801	4.038	4.490	.8336	4.677
#1	.0044	19.20	4356.	.0258	.0113	.6486	.0042
#2	.0048	19.02	4302.	.0279	.0105	.6595	.0045
#3	.0049	19.04	4293.	.0275	.0105	.6532	.0045

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	.3882	.0578	50.36	.0435	.3163	.1089
SDev	.0015	.0246	.0066	.24	.0214	.0059	.0165
%RSD	20.42	6.329	11.51	.4756	49.11	1.879	15.15
#1	.0060	.3736	.0503	50.61	.0203	.3109	.0899
#2	.0088	.3745	.0601	50.14	.0480	.3154	.1189
#3	.0067	.4166	.0630	50.33	.0623	.3226	.1179

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1401	.1040	.0530	.3409	1.176	.0011	.0862
SDev	.0107	.0072	.0115	.0063	.031	.0001	.0037
%RSD	7.637	6.910	21.76	1.848	2.630	8.175	4.350
#1	.1288	.0963	.0411	.3469	1.150	.0010	.0889
#2	.1413	.1052	.0641	.3413	1.167	.0012	.0820
#3	.1501	.1105	.0540	.3343	1.210	.0012	.0879

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8118	.0080	.2284	43.24	.0152	.0627	.0083
SDev	.0057	.0006	.0067	.27	.0009	.0111	.0005

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%RSD	.6997	8.181	2.918	.6285	6.048	17.74	6.260
#1	.8171	.0072	.2209	43.55	.0141	.0527	.0077
#2	.8058	.0084	.2310	43.09	.0158	.0747	.0086
#3	.8125	.0083	.2334	43.08	.0156	.0607	.0086

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0131	9.565
SDev	.0032	.058
%RSD	24.20	.6029
#1	.0166	9.631
#2	.0104	9.530
#3	.0123	9.533

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 13:35:53
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0035	-.0067	.0007	-.0001	-.0000	-.0043
SDev	.0003	.0048	.0028	.0007	.0001	.0000	.0049
%RSD	45.91	137.5	41.28	100.9	56.37	175.7	114.2
#1	-.0011	.0013	-.0090	.0013	-.0002	-.0000	-.0078
#2	-.0007	.0002	-.0074	.0000	-.0002	.0000	-.0064
#3	-.0004	.0089	-.0036	.0006	-.0000	-.0000	.0013

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0039	-.0006	.0007	.0007	-.0001	.0019	.0001
SDev	.0005	.0032	.0035	.0006	.0014	.0004	.0011
%RSD	12.63	586.1	526.7	77.58	2404.	19.87	772.1
#1	.0033	-.0028	.0003	.0001	.0011	.0015	-.0011
#2	.0042	-.0019	-.0026	.0011	.0003	.0019	.0006
#3	.0041	.0031	.0044	.0009	-.0016	.0022	.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0003	.0079	.0001	-.0007	.0108	.0002
SDev	.0002	.0005	.0985	.0017	.0007	.0046	.0003
%RSD	249.1	205.4	1249.	1330.	103.6	42.17	148.1
#1	.0001	-.0008	-.0710	-.0018	-.0011	.0071	-.0001
#2	-.0001	.0002	-.0237	.0006	-.0011	.0159	.0005
#3	.0002	-.0002	.1183	.0015	.0001	.0094	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0053	-.0003	.0029	.0238	-.0027	.0169
SDev	.0005	.0248	.0049	.0003	.0246	.0054	.0064
%RSD	53.21	470.7	1847.	10.95	103.6	204.0	38.01
#1	.0004	-.0332	-.0059	.0026	.0118	-.0033	.0222
#2	.0009	.0035	.0020	.0029	.0074	.0031	.0098
#3	.0014	.0139	.0031	.0032	.0521	-.0077	.0186

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0090	.0044	.0318	.0416	.0003	.0069
SDev	.0070	.0095	.0153	.0037	.0280	.0000	.0093
%RSD	1356.	105.6	347.2	11.53	67.22	1.876	134.2
#1	-.0083	.0043	.0195	.0282	.0158	.0003	-.0030
#2	.0053	.0200	.0049	.0317	.0377	.0003	.0154
#3	.0014	.0028	-.0111	.0355	.0714	.0003	.0084

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	-.0001	.0065	-.0113	-.0003	-.0010	-.0005
SDev	.0087	.0003	.0053	.0653	.0001	.0093	.0003

Analysis Report

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page

%RSD	260.4	382.2	82.34	577.9	17.84	952.7	62.55
#1	-.0044	-.0005	.0023	-.0556	-.0003	-.0090	-.0007
#2	.0127	.0001	.0125	-.0420	-.0003	-.0031	-.0007
#3	.0017	.0001	.0046	.0637	-.0004	.0092	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0002	-.0002
SDev	.0009	.0006
%RSD	377.3	372.9
#1	-.0009	.0004
#2	-.0006	-.0008
#3	.0008	-.0001

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Method: ICP1 Sample Name: FIRST SAMP PREP BLK @5 Operator: DRS
Run Time: 09/19/95 13:39:40
Comment: KOH/Ni PREP BLANK 9507941-HCB @5% oil
Mode: CONC Corr. Factor: 1 DS 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	.2250	.0371	.0814	.0028	.0001	.0329
SDev	.0015	.0058	.0071	.0026	.0001	.0001	.0006
%RSD	18.05	2.592	19.21	3.230	5.366	37.53	1.900
#1	.0072	.2314	.0447	.0839	.0027	.0001	.0327
#2	.0102	.2237	.0306	.0787	.0030	.0001	.0324
#3	.0082	.2199	.0360	.0817	.0027	.0002	.0336

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0730	.0044	.0422	.0110	.0093	-.0049	.0058
SDev	.0022	.0014	.0075	.0018	.0009	.0015	.0014
%RSD	3.012	32.14	17.84	15.95	9.641	29.40	24.46
#1	.0704	.0050	.0349	.0094	.0086	-.0051	.0047
#2	.0741	.0028	.0499	.0129	.0094	-.0034	.0074
#3	.0744	.0054	.0419	.0108	.0104	-.0063	.0052

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.1354	2187.	.0126	.0265	.0512	.0409
SDev	.0004	.0021	25.	.0022	.0010	.0017	.0003
%RSD	22.44	1.557	1.149	17.28	3.951	3.308	.7855
#1	.0013	.1372	2206.	.0118	.0255	.0510	.0409
#2	.0019	.1331	2159.	.0151	.0276	.0496	.0406
#3	.0020	.1360	2196.	.0109	.0264	.0529	.0412

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0076	1.000	.0365	4.806	.0453	.0696	.1236
SDev	.0003	.015	.0067	.042	.0138	.0100	.0218
%RSD	4.212	1.506	18.44	.8826	30.56	14.34	17.61
#1	.0076	.9915	.0294	4.835	.0293	.0652	.1073
#2	.0079	1.018	.0428	4.757	.0533	.0811	.1483
#3	.0072	.9913	.0373	4.824	.0533	.0626	.1152

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0704	.0383	.0393	.4233	.2588	.0016	.0468
SDev	.0113	.0009	.0018	.0066	.0536	.0001	.0066
%RSD	16.08	2.457	4.621	1.547	20.72	7.114	14.00
#1	.0647	.0383	.0394	.4244	.2177	.0015	.0450
#2	.0835	.0393	.0410	.4163	.3194	.0017	.0540
#3	.0631	.0374	.0374	.4293	.2392	.0016	.0413

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	.0494	.0311	.4808	.0054	.0273	.0018
SDev	.0038	.0001	.0058	.0702	.0006	.0092	.0003

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%RSD	30.65	.2208	18.75	14.60	11.97	33.85	15.07
#1	.0090	.0495	.0259	.4238	.0050	.0182	.0016
#2	.0117	.0495	.0374	.5592	.0062	.0269	.0021
#3	.0165	.0493	.0301	.4594	.0052	.0367	.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0098	.0301
SDev	.0009	.0006
%RSD	9.350	2.084
#1	.0109	.0299
#2	.0094	.0307
#3	.0091	.0295

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Method: ICP1 Sample Name: 2ND SAMPLE PREP BLK Operator: DRS
Run Time: 09/19/95 13:43:24
Comment: KOH/Ni PREP BLANK 9507941-HCB POST SPIKE @ 5x DIL
Mode: CONC Corr. Factor: 1 DH 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1203	14.04	.5386	.4496	.0943	.0179	4.646
SDev	.0015	.11	.0057	.0094	.0008	.0001	.039
%RSD	1.257	.8105	1.050	2.081	.7956	.5780	.8499
#1	.1193	13.92	.5381	.4418	.0936	.0178	4.615
#2	.1195	14.15	.5445	.4600	.0951	.0180	4.691
#3	.1220	14.04	.5332	.4471	.0940	.0178	4.633

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.433	.3456	.0570	.2079	1.637	.1846	.0055
SDev	.059	.0011	.0022	.0003	.023	.0013	.0005
%RSD	.6222	.3294	3.800	.1205	1.404	.7002	9.719
#1	9.373	.3458	.0561	.2080	1.615	.1853	.0058
#2	9.490	.3467	.0554	.2081	1.660	.1855	.0049
#3	9.434	.3444	.0594	.2076	1.635	.1831	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	3.962	2162.	.0232	.3646	5.306	.2321
SDev	.0002	.028	19.	.0008	.0054	.043	.0018
%RSD	7.548	.7092	.8561	3.233	1.482	.8161	.7757
#1	.0032	3.935	2142.	.0236	.3592	5.260	.2304
#2	.0028	3.991	2179.	.0223	.3700	5.346	.2340
#3	.0032	3.962	2164.	.0237	.3646	5.312	.2320

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2022	20.06	.0533	9.821	.0852	5.606	.1321
SDev	.0016	.20	.0056	.055	.0267	.026	.0202
%RSD	.7914	.9874	10.42	.5635	31.41	.4657	15.32
#1	.2006	19.84	.0558	9.769	.1122	5.583	.1398
#2	.2022	20.23	.0470	9.879	.0846	5.635	.1092
#3	.2038	20.12	.0572	9.817	.0587	5.601	.1474

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0974	.5468	.5135	13.42	.5832	.0942	.0604
SDev	.0076	.0009	.0058	.12	.0204	.0009	.0043
%RSD	7.825	.1744	1.126	.8781	3.500	.9501	7.042
#1	.1025	.5474	.5070	13.30	.5849	.0934	.0650
#2	.0886	.5457	.5156	13.53	.5620	.0951	.0594
#3	.1010	.5473	.5180	13.43	.6028	.0941	.0566

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3140	.2369	.5215	17.80	.1922	.0298	.0045
SDev	.0054	.0023	.0097	.11	.0008	.0085	.0002

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%RSD	1.734	.9858	1.868	.6156	.4427	28.52	5.355
#1	.3197	.2346	.5288	17.69	.1914	.0284	.0046
#2	.3089	.2393	.5253	17.91	.1931	.0221	.0042
#3	.3133	.2368	.5104	17.79	.1919	.0390	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2065	.8651
SDev	.0035	.0084
%RSD	1.698	.9756
#1	.2025	.8565
#2	.2090	.8733
#3	.2079	.8655

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Method: ICP1 Sample Name: 3RD SAMP SAMPLE @5 Operator: DRS
Run Time: 09/19/95 13:46:56
Comment: KOH/Ni 95-007941-H1T @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0083	29.11	.0358	.0889	.0058	.0002	.0833
SDev	.0002	.06	.0036	.0040	.0001	.0000	.0156
%RSD	2.279	.2040	9.948	4.452	2.295	20.85	18.72
#1	.0081	29.12	.0362	.0934	.0058	.0002	.0864
#2	.0085	29.16	.0392	.0873	.0056	.0002	.0664
#3	.0083	29.05	.0321	.0860	.0059	.0002	.0972

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1505	.0050	.0415	.0136	.0279	.0032	.0071
SDev	.0014	.0018	.0036	.0014	.0018	.0006	.0006
%RSD	.9366	36.40	8.603	10.49	6.561	19.55	8.916
#1	.1489	.0047	.0379	.0123	.0261	.0038	.0065
#2	.1510	.0070	.0415	.0135	.0297	.0031	.0070
#3	.1516	.0034	.0450	.0151	.0278	.0026	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.3229	2196.	.0125	.0243	.1148	.0661
SDev	.0003	.0012	4.	.0005	.0008	.0013	.0003
%RSD	14.76	.3613	.1735	4.088	3.431	1.116	.4514
#1	.0016	.3215	2194.	.0121	.0234	.1149	.0658
#2	.0017	.3237	2200.	.0131	.0243	.1160	.0664
#3	.0021	.3234	2193.	.0124	.0251	.1134	.0661

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	21.67	.0391	21.23	4.984	.0901	.1388
SDev	.0009	.10	.0037	.06	.042	.0005	.0097
%RSD	15.58	.4485	9.417	.2858	.8475	.5104	6.969
#1	.0046	21.61	.0348	21.25	4.954	.0905	.1354
#2	.0059	21.78	.0410	21.27	4.966	.0903	.1313
#3	.0063	21.61	.0414	21.16	5.033	.0896	.1497

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0677	.0521	.0149	1.476	.3047	.0062	.0421
SDev	.0057	.0132	.0074	.003	.0178	.0001	.0049
%RSD	8.470	25.39	49.90	.2323	5.855	1.131	11.69
#1	.0611	.0369	.0109	1.472	.2895	.0063	.0398
#2	.0700	.0606	.0235	1.477	.3243	.0062	.0387
#3	.0719	.0589	.0103	1.479	.3002	.0061	.0477

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0119	.0784	.0899	.5848	.0139	.0303	.0020
SDev	.0049	.0003	.0061	.0237	.0004	.0030	.0002

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%RSD	41.44	.4211	6.822	4.048	2.746	9.852	8.510
#1	.0108	.0786	.0831	.5577	.0135	.0273	.0018
#2	.0077	.0780	.0917	.6011	.0141	.0302	.0021
#3	.0173	.0786	.0950	.5957	.0142	.0333	.0021

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0219	.0372
SDev	.0004	.0005
%RSD	2.065	1.312
#1	.0221	.0366
#2	.0221	.0376
#3	.0213	.0373

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Method: ICP1 Sample Name: 4TH SAMP PS @5 Operator: DRS
Run Time: 09/19/95 13:50:38
Comment: KOH/Ni 95-007941-H1T-PS @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1230	42.74	.5658	.4635	.0997	.0184	4.821
SDev	.0015	.41	.0066	.0066	.0010	.0002	.053
%RSD	1.230	.9690	1.170	1.414	1.034	.9460	1.104
#1	.1219	42.27	.5592	.4560	.0985	.0182	4.772
#2	.1247	42.95	.5725	.4682	.1002	.0185	4.815
#3	.1224	43.01	.5657	.4664	.1004	.0185	4.878

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.836	.3483	.0488	.2137	1.701	.1957	.0057
SDev	.081	.0064	.0040	.0011	.016	.0011	.0002
%RSD	.8229	1.834	8.216	.5198	.9456	.5583	4.173
#1	9.742	.3424	.0470	.2125	1.686	.1950	.0060
#2	9.883	.3474	.0534	.2145	1.718	.1970	.0055
#3	9.882	.3551	.0460	.2143	1.700	.1952	.0058

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	4.246	2169.	.0216	.3734	5.477	.2623
SDev	.0002	.033	22.	.0008	.0027	.056	.0017
%RSD	6.799	.7887	1.035	3.725	.7130	1.018	.6627
#1	.0025	4.207	2143.	.0219	.3703	5.413	.2606
#2	.0029	4.265	2183.	.0222	.3753	5.505	.2641
#3	.0026	4.265	2181.	.0207	.3745	5.514	.2621

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2022	40.64	.0496	25.94	4.927	5.757	.1156
SDev	.0024	.50	.0044	.20	.070	.048	.0153
%RSD	1.166	1.230	8.815	.7891	1.420	.8268	13.22
#1	.1994	40.07	.0545	25.71	4.850	5.705	.1325
#2	.2034	40.98	.0459	26.08	4.944	5.799	.1027
#3	.2037	40.88	.0485	26.03	4.986	5.766	.1118

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0911	.5840	.5156	14.84	.5849	.1015	.0608
SDev	.0075	.0083	.0134	.18	.0180	.0009	.0015
%RSD	8.174	1.421	2.593	1.213	3.076	.8792	2.410
#1	.0944	.5754	.5009	14.63	.5812	.1005	.0608
#2	.0964	.5920	.5188	14.92	.6045	.1021	.0623
#3	.0826	.5846	.5270	14.97	.5691	.1021	.0594

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3263	.2696	.5852	18.23	.2044	.0416	.0040
SDev	.0150	.0022	.0083	.08	.0017	.0120	.0003

%RSD	4.600	.8005	1.427	.4442	.8170	28.97	7.485
#1	.3160	.2672	.5850	18.14	.2028	.0494	.0037
#2	.3435	.2705	.5936	18.23	.2061	.0476	.0043
#3	.3194	.2712	.5769	18.30	.2043	.0277	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2222	.8996
SDev	.0022	.0071
%RSD	.9727	.7860
#1	.2217	.8915
#2	.2204	.9029
#3	.2246	.9044

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:54:31
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Fail-Si low DB 9/19/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4716	24.54	2.507	1.944	.5081	.0901	23.67
SDev	.0009	.07	.027	.014	.0021	.0003	.04
%RSD	.1896	.2731	1.078	.7274	.4192	.2817	.1676
#1	.4719	24.59	2.530	1.958	.5098	.0904	23.70
#2	.4706	24.56	2.514	1.944	.5087	.0901	23.69
#3	.4723	24.46	2.477	1.930	.5057	Q.0899	23.63
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.48	.4902	-.0224	1.011	1.007	.9845	.0012
SDev	.03	.0024	.0014	.002	.004	.0042	.0005
%RSD	.1344	.4894	6.279	.1854	.4054	.4292	41.56
#1	24.52	.4900	-.0237	1.011	1.005	.9893	.0010
#2	24.46	.4927	-.0227	1.009	1.011	.9830	.0008
#3	24.46	.4879	-.0209	1.012	1.003	.9812	.0017
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.08	27.12	.0104	2.053	26.00	.5002
SDev	.0002	.05	.05	.0011	.013	.05	.0008
%RSD	8.516	.2244	.2015	10.96	.6527	.1838	.1620
#1	.0022	20.12	27.09	.0115	2.052	26.05	.5011
#2	.0020	20.07	27.19	.0092	2.068	26.01	.4997
#3	.0023	20.03	27.09	.0106	2.041	25.95	.4997
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.022	26.33	.0170	1.037	.0360	2.555	.0243
SDev	.001	.16	.0026	.006	.0103	.022	.0110
%RSD	.0893	.6023	15.59	.5586	28.56	.8619	45.20
#1	1.023	26.31	.0187	1.037	.0242	2.544	.0168
#2	1.023	26.50	.0183	1.031	.0426	2.541	.0191
#3	1.021	26.18	.0139	1.042	.0413	2.581	.0368
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	2.515	2.371	Q17.96	.2407	.5142	.0098
SDev	.0045	.014	.007	.04	.0218	.0018	.0024
%RSD	35.37	.5398	.2994	.2068	9.067	.3531	24.28
#1	.0153	2.524	2.363	18.00	.2333	.5155	.0106
#2	.0075	2.500	2.375	Q17.97	.2236	.5150	.0116
#3	.0154	2.522	2.375	Q17.93	.2653	.5121	.0071
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0375	.9957	2.412	.1191	.9726	.0223	.0003
SDev	.0021	.0029	.027	.0576	.0018	.0040	.0004
%RSD	5.566	.2908	1.102	48.35	.1850	17.78	143.5
#1	.0353	.9984	2.382	.0560	.9738	.0208	.0005
#2	.0380	.9961	2.433	.1325	.9735	.0193	-.0002
#3	.0394	.9926	2.420	.1688	.9706	.0268	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9895	2.038
SDev	.0011	.006
%RSD	.1094	.3188
#1	.9896	2.045
#2	.9906	2.038
#3	.9883	2.032
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 13:57:32
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4780	24.81	2.533	1.975	.5139	.0911	23.94
SDev	.0005	.09	.014	.011	.0024	.0004	.09
%RSD	.1063	.3493	.5711	.5362	.4617	.4368	.3558
#1	.4783	24.91	2.524	1.987	.5167	.0916	24.01
#2	.4783	24.75	2.525	1.969	.5124	.0908	23.84
#3	.4774	24.78	2.549	1.968	.5127	.0910	23.97
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.75	.4924	-.0322	1.023	1.022	.9972	.0012
SDev	.06	.0052	.0061	.002	.010	.0035	.0007
%RSD	.2479	1.052	18.88	.2427	1.006	.3527	57.10
#1	24.82	.4917	-.0392	1.026	1.033	1.001	.0004
#2	24.70	.4876	-.0285	1.022	1.017	.9967	.0016
#3	24.73	.4979	-.0289	1.022	1.014	.9940	.0017
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.29	26.82	.0105	2.057	26.27	.5054
SDev	.0000	.06	.17	.0008	.009	.07	.0005
%RSD	1.638	.3003	.6258	7.826	.4479	.2828	.0955
#1	.0022	20.36	26.64	.0098	2.050	26.35	.5060
#2	.0021	20.25	26.86	.0103	2.054	26.20	.5050
#3	.0021	20.26	26.97	.0114	2.068	26.26	.5053
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	26.32	.0168	1.051	.0492	2.571	.0117
SDev	.004	.12	.0021	.009	.0114	.006	.0067
%RSD	.4005	.4471	12.80	.8924	23.21	.2288	57.12
#1	1.039	26.27	.0151	1.055	.0469	2.577	.0059
#2	1.031	26.24	.0160	1.040	.0392	2.565	.0102
#3	1.036	26.46	.0192	1.057	.0617	2.569	.0190
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0130	2.564	2.415	18.15	.2445	.5204	.0110
SDev	.0035	.014	.018	.04	.0457	.0020	.0100
%RSD	27.08	.5576	.7502	.1960	18.68	.3891	90.81
#1	.0095	2.547	2.435	18.19	.2026	.5227	.0007
#2	.0165	2.572	2.399	18.12	.2376	.5190	.0207
#3	.0129	2.572	2.411	18.15	.2932	.5194	.0117
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0439	1.007	2.449	.0989	.9833	.0301	.0004
SDev	.0023	.004	.023	.0828	.0037	.0024	.0001
%RSD	5.207	.3505	.9370	83.72	.3811	7.920	38.76
#1	.0465	1.011	2.473	.0033	.9874	.0297	.0002
#2	.0431	1.005	2.427	.1472	.9801	.0279	.0005
#3	.0421	1.005	2.448	.1463	.9824	.0327	.0005
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9986	2.061
SDev	.0050	.009
%RSD	.4997	.4332
#1	.9950	2.071
#2	1.004	2.055
#3	.9965	2.057
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 14:01:12
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0220	.0666	.0726	.0050	.0008	.0000	.0191
SDev	.0010	.0103	.0109	.0006	.0001	.0000	.0056
%RSD	4.580	15.40	14.99	12.19	17.03	2.618	29.04
#1	.0220	.0681	.0820	.0056	.0008	.0000	.0166
#2	.0210	.0556	.0607	.0044	.0007	.0000	.0255
#3	.0230	.0760	.0752	.0050	.0009	.0000	.0153
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	.0005	2.071	.0059	.0015	.0001	2.039
SDev	.0007	.0011	.010	.0013	.0020	.0026	.022
%RSD	5.357	217.6	.4925	21.37	138.5	3141.	1.079
#1	.0129	-.0004	2.071	.0073	-.0006	.0017	2.030
#2	.0121	.0018	2.081	.0049	.0016	-.0029	2.064
#3	.0134	.0001	2.060	.0055	.0034	.0014	2.022
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.027	.0088	.6073	2.034	.0034	.1923	.0012
SDev	.020	.0004	.2274	.018	.0013	.0117	.0001
%RSD	1.005	4.625	37.44	.8692	37.66	6.062	6.518
#1	2.021	.0093	.5679	2.030	.0048	.2046	.0011
#2	2.049	.0085	.4022	2.053	.0023	.1814	.0013
#3	2.010	.0087	.8518	2.018	.0031	.1909	.0011
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0861	2.040	.0062	.0062	.0830	Q3.155
SDev	.0014	.0321	.015	.0017	.0177	.0163	.018
%RSD	43.82	37.29	.7272	28.02	284.1	19.60	.5826
#1	.0045	.0703	2.037	.0054	.0256	.0947	Q3.139
#2	.0017	.0649	2.056	.0082	.0023	.0644	Q3.175
#3	.0031	.1230	2.027	.0050	-.0092	.0900	Q3.150
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.132	.0249	.0135	.1409	Q2.383	.0009	1.879
SDev	.010	.0152	.0120	.0012	.027	.0001	.015
%RSD	.4557	60.90	88.63	.8702	1.135	8.084	.7869
#1	2.129	.0422	.0187	.1405	Q2.375	.0009	1.863
#2	2.143	.0138	-.0002	.1399	Q2.414	.0008	1.893
#3	2.124	.0187	.0220	.1423	Q2.362	.0009	1.880
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.272	.0027	.0220	Q8.609	.0007	Q.5316	1.009
SDev	.029	.0003	.0056	.020	.0011	.0124	.008
%RSD	.5579	11.39	25.40	.2327	166.3	2.336	.7950
#1	5.275	.0027	.0161	Q8.627	.0008	Q.5203	1.006
#2	5.300	.0024	.0271	Q8.588	-.0005	Q.5449	1.019
#3	5.241	.0030	.0228	Q8.612	.0017	Q.5296	1.004
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0018	.0093
SDev	.0005	.0015
%RSD	29.52	15.67
#1	.0019	.0077
#2	.0022	.0103
#3	.0012	.0100
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SST-ICS-1 9509081101 Operator: DRS
Run Time: 09/19/95 14:04:52
Comment: KOH/Ni 95-007941-H1T-FS @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0630	93.15	.0990	.0106	.0017	.0001	.1242
SDev	.0020	1.49	.0145	.0014	.0005	.0001	.0046
%RSD	3.143	1.598	14.66	13.14	30.14	30.91	3.693
#1	.0618	93.92	.1116	.0094	.0013	.0001	.1206
#2	.0620	94.10	.0831	.0122	.0015	.0001	.1293
#3	.0653	91.44	.1023	.0103	.0023	.0002	.1226

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0428	.0153	-.0344	.0114	.0284	.0179	.0073
SDev	.0017	.0011	.0191	.0017	.0020	.0024	.0016
%RSD	3.906	7.351	55.54	15.27	7.153	13.38	22.07
#1	.0409	.0165	-.0525	.0103	.0268	.0164	.0058
#2	.0432	.0142	-.0364	.0105	.0277	.0167	.0071
#3	.0442	.0152	-.0144	.0134	.0306	.0207	.0090

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	18.27	1.388	.0272	.0167	.6212	.0041
SDev	.0006	.21	.399	.0026	.0021	.0078	.0003
%RSD	12.85	1.153	28.74	9.674	12.43	1.259	7.735
#1	.0041	18.37	1.112	.0245	.0146	.6141	.0040
#2	.0045	18.40	1.207	.0273	.0167	.6296	.0039
#3	.0053	18.02	1.846	.0298	.0188	.6200	.0045

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	3796.	.0544	48.24	.0167	.2837	.0962
SDev	.0014	58.	.0100	.47	.0271	.0222	.0369
%RSD	26.87	1.529	18.44	.9811	162.6	7.821	38.38
#1	.0039	3826.	.0466	48.44	.0465	.2658	.0671
#2	.0055	3833.	.0510	48.57	.0103	.2768	.0839
#3	.0068	3729.	.0657	47.69	-.0067	.3085	.1378

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1326	.0900	.0296	.2557	1.057	.0012	.0678
SDev	.0187	.0053	.0199	.0069	.062	.0001	.0185
%RSD	14.08	5.939	67.02	2.702	5.822	12.83	27.35
#1	.1156	.0840	.0145	.2527	1.038	.0011	.0667
#2	.1296	.0916	.0521	.2508	1.006	.0012	.0498
#3	.1526	.0943	.0223	.2636	1.125	.0014	.0869

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7719	.0074	.2233	41.23	.0135	.0564	.0077
SDev	.0048	.0007	.0097	.49	.0016	.0058	.0004

%RSD	.6170	9.162	4.350	1.184	11.73	10.32	5.128
#1	.7758	.0067	.2192	41.47	.0123	.0497	.0073
#2	.7733	.0076	.2343	41.54	.0128	.0602	.0079
#3	.7666	.0080	.2162	40.67	.0153	.0593	.0080

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0105	9.214
SDev	.0025	.137
%RSD	24.20	1.485
#1	.0135	9.285
#2	.0090	9.301
#3	.0091	9.056

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Method: ICP1 Sample Name: 5TH SAMP PREP BLK @5 Operator: DRS
Run Time: 09/19/95 14:08:35
Comment: Na2O2/Zr PREP BLANK 95-007941-N3 @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0169	.0849	.0186	.1365	.0036	.0001	.0358
SDev	.0019	.0070	.0052	.0016	.0001	.0000	.0155
%RSD	11.04	8.224	27.69	1.189	2.096	24.57	43.41
#1	.0164	.0778	.0132	.1375	.0035	.0001	.0337
#2	.0154	.0851	.0191	.1374	.0036	.0001	.0214
#3	.0190	.0918	.0235	.1346	.0036	.0001	.0522

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.014	.0004	-.0935	.0081	.0110	.0158	.0096
SDev	.008	.0020	.0109	.0003	.0010	.0011	.0009
%RSD	.4104	548.3	11.64	3.699	9.302	7.055	9.208
#1	2.015	.0027	-.1028	.0081	.0121	.0160	.0090
#2	2.022	-.0010	-.0960	.0079	.0111	.0167	.0092
#3	2.006	-.0006	-.0815	.0084	.0100	.0145	.0107

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	.0693	1.743	.0165	.0096	.0713	.0028
SDev	.0003	.0003	.083	.0011	.0023	.0014	.0002
%RSD	9.346	.3579	4.767	6.421	23.77	2.016	7.340
#1	.0031	.0694	1.656	.0159	.0070	.0729	.0028
#2	.0035	.0694	1.751	.0160	.0108	.0711	.0027
#3	.0038	.0690	1.822	.0178	.0112	.0700	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	2130.	.0549	.1085	.0234	.0576	.1769
SDev	.0004	16.	.0081	.0014	.0251	.0037	.0049
%RSD	6.242	.7741	14.75	1.336	107.5	6.474	2.740
#1	.0077	2142.	.0526	.1077	-.0053	.0550	.1714
#2	.0072	2136.	.0483	.1102	.0341	.0619	.1800
#3	.0068	2111.	.0640	.1076	.0414	.0560	.1795

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0682	.0383	.0348	.1081	.3118	.0143	.0502
SDev	.0105	.0089	.0023	.0065	.0152	.0001	.0059
%RSD	15.46	23.17	6.569	6.044	4.886	.5296	11.72
#1	.0607	.0476	.0322	.1028	.2994	.0143	.0446
#2	.0636	.0299	.0366	.1061	.3288	.0144	.0563
#3	.0802	.0375	.0356	.1154	.3071	.0143	.0497

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0247	.0048	.0332	.2192	.0066	.0179	.0034
SDev	.0040	.0003	.0082	.1014	.0003	.0099	.0001

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%RSD	16.11	6.391	24.73	46.26	4.079	55.12	4.084
#1	.0242	.0045	.0291	.1866	.0063	.0073	.0034
#2	.0290	.0051	.0426	.1381	.0068	.0197	.0034
#3	.0211	.0049	.0278	.3328	.0066	.0267	.0036

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0236	10.04
SDev	.0010	.07
%RSD	4.314	.6849
#1	.0240	10.07
#2	.0244	10.08
#3	.0225	9.956

Analysis Report Tue 09-19-95 02:13:41 PM page 1

Method: ICP1 Sample Name: 6TH SAMP BLK-PS @5 Operator: DRS
Run Time: 09/19/95 14:12:21
Comment: Na2O2/Zr PREP BLANK 95-007941-N3 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1324	14.37	.5617	.5169	.0964	.0181	4.861
SDev	.0010	.16	.0194	.0091	.0010	.0002	.048
%RSD	.7732	1.115	3.458	1.767	1.086	1.085	.9864
#1	.1312	14.56	.5719	.5250	.0976	.0183	4.916
#2	.1330	14.28	.5740	.5070	.0960	.0180	4.833
#3	.1330	14.28	.5393	.5188	.0956	.0180	4.834

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.72	.3552	-.0667	.2100	1.677	.2116	.0088
SDev	.07	.0048	.0140	.0018	.008	.0011	.0012
%RSD	.6471	1.362	20.98	.8460	.4773	.5011	14.06
#1	10.80	.3525	-.0827	.2115	1.684	.2122	.0074
#2	10.67	.3608	-.0569	.2103	1.678	.2104	.0094
#3	10.69	.3523	-.0604	.2080	1.668	.2122	.0097

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	3.976	25.13	.0253	.3550	5.462	.1985
SDev	.0002	.031	.17	.0013	.0024	.042	.0017
%RSD	5.131	.7776	.6790	5.047	.6746	.7683	.8431
#1	.0043	4.011	24.99	.0238	.3577	5.507	.2004
#2	.0047	3.955	25.32	.0258	.3536	5.424	.1976
#3	.0047	3.961	25.08	.0263	.3536	5.455	.1974

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2020	2118.	.0685	5.302	.0563	5.757	.1544
SDev	.0027	27.	.0041	.050	.0170	.026	.0289
%RSD	1.324	1.271	6.039	.9392	30.16	.4507	18.71
#1	.2050	2148.	.0637	5.359	.0419	5.781	.1210
#2	.1998	2107.	.0701	5.271	.0518	5.729	.1703
#3	.2012	2098.	.0715	5.274	.0750	5.761	.1718

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0956	.5569	.5249	13.62	.6066	.1078	.0544
SDev	.0066	.0064	.0015	.14	.0405	.0011	.0092
%RSD	6.862	1.156	.2875	1.018	6.673	.9877	17.00
#1	.0899	.5624	.5236	13.78	.5598	.1090	.0445
#2	.0940	.5498	.5265	13.56	.6289	.1073	.0558
#3	.1028	.5584	.5244	13.53	.6309	.1071	.0628

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3360	.1965	.5281	17.55	.1961	.0341	.0056
SDev	.0094	.0016	.0079	.10	.0010	.0108	.0004

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%RSD	2.804	.8246	1.497	.5880	.5134	31.72	7.988
#1	.3469	.1983	.5191	17.66	.1971	.0218	.0051
#2	.3310	.1956	.5342	17.53	.1951	.0419	.0058
#3	.3302	.1955	.5309	17.46	.1962	.0388	.0059

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2178	10.77
SDev	.0037	.12
%RSD	1.679	1.077
#1	.2217	10.90
#2	.2144	10.70
#3	.2173	10.70

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Method: ICP1 Sample Name: 7TH SAMP SAMPLE @5 Operator: DRS
Run Time: 09/19/95 14:16:16
Comment: Na202/Zr 95-007941-N1 @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0081	32.37	.0214	.2213	.0049	.0002	.0278
SDev	.0004	.12	.0059	.0030	.0001	.0000	.0082
%RSD	5.550	.3709	27.81	1.354	3.101	16.18	29.56
#1	.0085	32.23	.0255	.2180	.0051	.0002	.0370
#2	.0077	32.46	.0241	.2237	.0048	.0002	.0212
#3	.0079	32.41	.0145	.2222	.0048	.0001	.0252

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.117	.0015	.0501	.0085	.0396	.0344	.0063
SDev	.004	.0010	.0030	.0005	.0012	.0009	.0003
%RSD	.3415	65.89	6.041	6.072	3.006	2.694	5.500
#1	1.115	.0004	.0534	.0091	.0398	.0355	.0067
#2	1.116	.0016	.0494	.0080	.0407	.0339	.0060
#3	1.122	.0024	.0475	.0085	.0383	.0339	.0063

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.3200	1.506	.0141	.0180	.0815	.0079
SDev	.0002	.0007	.060	.0007	.0010	.0092	.0002
%RSD	9.900	.2263	3.953	5.154	5.331	11.35	1.991
#1	.0023	.3193	1.443	.0149	.0192	.0769	.0077
#2	.0023	.3201	1.562	.0135	.0175	.0754	.0079
#3	.0019	.3207	1.514	.0138	.0175	.0922	.0080

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0051	2185.	.0438	.1523	1.078	.0723	.1462
SDev	.0006	8.	.0022	.0057	.013	.0025	.0086
%RSD	11.74	.3560	4.938	3.729	1.201	3.507	5.860
#1	.0054	2176.	.0445	.1471	1.071	.0702	.1548
#2	.0056	2190.	.0414	.1513	1.093	.0751	.1376
#3	.0045	2190.	.0456	.1583	1.070	.0717	.1461

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0594	.0399	.0088	.8060	.2135	.0182	.0274
SDev	.0021	.0015	.0045	.0076	.0086	.0001	.0072
%RSD	3.555	3.769	51.27	.9445	4.022	.3905	26.27
#1	.0618	.0390	.0043	.7975	.2193	.0181	.0241
#2	.0581	.0416	.0133	.8122	.2176	.0182	.0224
#3	.0582	.0389	.0089	.8084	.2036	.0182	.0356

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0092	.0141	.0800	.5845	.0174	.0154	.0020
SDev	.0059	.0002	.0025	.0209	.0006	.0062	.0000

%RSD	64.41	1.578	3.085	3.567	3.206	40.00	.6731
#1	.0025	.0139	.0802	.6086	.0177	.0210	.0020
#2	.0136	.0143	.0774	.5734	.0168	.0088	.0020
#3	.0114	.0141	.0823	.5717	.0178	.0165	.0020

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0161	.0878
SDev	.0017	.0049
%RSD	10.37	5.607
#1	.0173	.0875
#2	.0168	.0831
#3	.0142	.0929

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Method: ICP1 Sample Name: 8TH SAMPLE FS @5 Operator: DRS
Run Time: 09/19/95 14:20:05
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1211	45.26	.5591	.5909	.0966	.0181	4.748
SDev	.0013	.60	.0104	.0068	.0014	.0002	.046
%RSD	1.043	1.321	1.859	1.144	1.505	.8961	.9779
#1	.1198	45.95	.5665	.5976	.0983	.0182	4.801
#2	.1223	44.85	.5472	.5841	.0956	.0179	4.725
#3	.1213	44.99	.5636	.5909	.0959	.0180	4.717

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.53	.3431	.0654	.2059	1.677	.2256	.0064
SDev	.07	.0095	.0107	.0009	.017	.0022	.0016
%RSD	.7087	2.784	16.40	.4211	.9993	.9650	25.92
#1	10.61	.3541	.0533	.2064	1.696	.2282	.0046
#2	10.47	.3369	.0693	.2049	1.665	.2244	.0067
#3	10.49	.3382	.0737	.2064	1.670	.2244	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	4.156	24.52	.0247	.3573	5.369	.2003
SDev	.0005	.042	.05	.0037	.0043	.034	.0018
%RSD	15.31	1.009	.2009	14.97	1.214	.6363	.9119
#1	.0028	4.205	24.54	.0206	.3623	5.409	.2023
#2	.0035	4.131	24.47	.0277	.3553	5.353	.1998
#3	.0037	4.134	24.56	.0259	.3544	5.346	.1987

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2002	2122.	.0602	5.272	1.100	5.674	.1347
SDev	.0022	29.	.0090	.056	.018	.019	.0336
%RSD	1.093	1.366	14.90	1.065	1.619	.3377	24.95
#1	.2025	2155.	.0499	5.337	1.114	5.696	.0965
#2	.1981	2103.	.0663	5.240	1.107	5.660	.1594
#3	.1999	2108.	.0644	5.239	1.080	5.667	.1484

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0889	.5580	.4996	14.06	.5399	.1108	.0408
SDev	.0134	.0100	.0057	.15	.0284	.0015	.0077
%RSD	15.10	1.784	1.139	1.088	5.268	1.316	18.95
#1	.0737	.5592	.5040	14.23	.5073	.1125	.0346
#2	.0989	.5474	.5017	13.95	.5595	.1098	.0384
#3	.0942	.5672	.4932	13.99	.5528	.1102	.0495

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3137	.2027	.5766	17.78	.2044	.0242	.0046
SDev	.0052	.0018	.0035	.15	.0004	.0149	.0004

%RSD	1.659	.8908	.6124	.8587	.2047	61.54	9.660
#1	.3113	.2048	.5727	17.96	.2049	.0268	.0041
#2	.3197	.2015	.5776	17.70	.2041	.0082	.0049
#3	.3101	.2018	.5796	17.69	.2043	.0376	.0049

Elem	Zn	Zr
Units	ppm	ppm
Avge	.2201	.9395
SDev	.0017	.0104
%RSD	.7777	1.106
#1	.2184	.9515
#2	.2218	.9329
#3	.2200	.9342

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Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/19/95 14:24:00
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4817	25.32	2.585	2.013	.5265	.0924	24.33
SDev	.0023	.14	.030	.008	.0027	.0007	.15
%RSD	.4837	.5349	1.149	.4012	.5080	.7118	.6327
#1	.4838	25.42	2.597	2.019	.5284	.0930	24.43
#2	.4822	25.36	2.606	2.016	.5275	.0926	24.41
#3	.4792	25.16	2.551	2.004	.5234	.0917	24.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.93	.4926	-.0409	1.032	1.031	1.016	-.0014
SDev	.20	.0026	.0054	.008	.006	.006	.0001
%RSD	.8099	.5170	13.24	.7853	.6053	.6051	10.56
#1	25.11	.4931	-.0362	1.038	1.037	1.016	-.0013
#2	24.97	.4949	-.0468	1.035	1.031	1.022	-.0013
#3	24.71	.4899	-.0398	1.023	1.024	1.010	-.0015
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	20.57	27.10	.0071	2.146	26.59	.5119
SDev	.0000	.15	.16	.0006	.021	.21	.0042
%RSD	.5996	.7156	.5813	8.376	.9881	.7950	.8127
#1	.0016	20.69	26.93	.0065	2.122	26.78	.5152
#2	.0016	20.61	27.14	.0071	2.162	26.64	.5134
#3	.0016	20.40	27.23	.0077	2.154	26.36	.5072
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	Q27.57	-.0004	1.056	.0338	2.574	-.0318
SDev	.008	.11	.0025	.011	.0151	.013	.0056
%RSD	.7812	.3957	670.1	1.062	44.76	.4989	17.53
#1	1.054	27.45	-.0006	1.061	.0504	2.583	-.0276
#2	1.050	Q27.65	.0022	1.064	.0301	2.580	-.0382
#3	1.038	Q27.62	-.0028	1.043	.0208	2.560	-.0298
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Na with Na-Interference PASS DRS 9/19

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0129	2.585	2.431	18.44	.1779	.5327	-.0091
SDev	.0038	.034	.026	.12	.0035	.0030	.0075
%RSD	29.25	1.317	1.084	.6470	1.968	.5571	82.76
#1	-.0118	2.616	2.462	18.53	.1811	.5348	-.0011
#2	-.0097	2.590	2.416	18.49	.1742	.5340	-.0102
#3	-.0170	2.549	2.416	18.31	.1785	.5293	-.0160
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0377	1.026	2.476	-.1341	.9966	.0217	-.0007
SDev	.0156	.007	.023	.0468	.0067	.0077	.0000
%RSD	41.34	.6381	.9246	34.92	.6729	35.61	3.144
#1	.0524	1.031	2.474	-.1341	1.002	.0128	-.0007
#2	.0394	1.028	2.499	-.1809	.9984	.0269	-.0007
#3	.0213	1.018	2.454	-.0872	.9891	.0255	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.015	2.094
SDev	.009	.013
%RSD	.8807	.6366
#1	1.025	2.105
#2	1.012	2.098
#3	1.008	2.080
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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File : ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/19/95 14:28:03
Comment: BY-108 POST SPIKE CHECK RUN
Type: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0213	.0710	.0592	.0038	.0008	.0001	.0172
SDev	.0012	.0106	.0005	.0004	.0001	.0000	.0153
%RSD	5.845	14.90	.8560	10.01	18.22	13.86	89.01
#1	.0199	.0603	.0586	.0042	.0007	.0001	-.0002
#2	.0223	.0815	.0596	.0034	.0009	.0001	.0233
#3	.0216	.0714	.0593	.0039	.0009	.0000	.0284
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	.0012	2.056	.0058	.0024	-.0007	2.024
SDev	.0004	.0031	.003	.0010	.0032	.0008	.014
%RSD	3.165	264.8	.1685	16.45	132.0	113.9	.6899
#1	.0119	.0000	2.060	.0047	.0006	-.0014	2.037
#2	.0126	-.0012	2.057	.0063	.0006	.0002	2.009
#3	.0120	.0046	2.053	.0065	.0061	-.0010	2.025
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.009	.0071	.5521	2.019	.0039	.1869	.0013
SDev	.013	.0006	.1662	.010	.0019	.0152	.0001
%RSD	.6639	8.291	30.10	.5030	48.50	8.124	7.439
#1	2.022	.0068	.3786	2.030	.0035	.2041	.0012
#2	1.996	.0077	.7098	2.010	.0060	.1811	.0014
#3	2.011	.0067	.5679	2.018	.0023	.1754	.0013
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	.1129	2.023	.0079	.0016	.0771	Q3.158
SDev	.0011	.0316	.012	.0003	.0117	.0022	.018
%RSD	33.19	27.96	.5810	4.329	712.3	2.864	.5611
#1	.0022	.0812	2.036	.0083	-.0111	.0795	Q3.173
#2	.0032	.1130	2.013	.0076	.0118	.0751	Q3.139
#3	.0043	.1443	2.019	.0079	.0043	.0768	Q3.161
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value			2.000				2.000

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Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.111	.0270	.0185	.1264	Q2.331	.0008	1.848
SDev	.012	.0212	.0018	.0032	.033	.0001	.010
%RSD	.5690	78.38	9.854	2.559	1.427	8.995	.5567
#1	2.123	.0220	.0172	.1227	Q2.369	.0008	1.851
#2	2.099	.0503	.0176	.1282	Q2.310	.0009	1.837
#3	2.112	.0089	.0205	.1283	Q2.313	.0008	1.857
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.207	.0024	.0227	Q8.446	.0002	Q.5255	.9955
SDev	.021	.0005	.0088	.082	.0008	.0042	.0062
%RSD	.4082	19.40	38.67	.9677	314.0	.8073	.6212
#1	5.230	.0019	.0126	Q8.426	-.0006	Q.5270	1.001
#2	5.187	.0029	.0268	Q8.377	.0008	Q.5288	.9891
#3	5.204	.0026	.0287	Q8.536	.0005	Q.5207	.9959
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0013	.0077
SDev	.0005	.0008
%RSD	38.99	10.19
#1	.0009	.0076
#2	.0012	.0069
#3	.0019	.0085
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SST-ICS-2 950908I102 Operator: DRS
Run Time: 09/19/95 14:31:41
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0678	98.17	.1044	.0132	.0024	.0002	.1321
SDev	.0006	.68	.0176	.0008	.0001	.0000	.0201
%RSD	.8821	.6958	16.90	5.983	3.452	20.17	15.23
#1	.0678	97.45	.1234	.0141	.0025	.0002	.1177
#2	.0672	98.81	.0884	.0125	.0023	.0001	.1551
#3	.0684	98.24	.1014	.0130	.0023	.0002	.1236

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0514	.0151	-.0465	.0138	.0322	-.0266	.0076
SDev	.0004	.0006	.0063	.0006	.0022	.0012	.0006
%RSD	.7878	3.850	13.57	4.642	6.866	4.628	8.588
#1	.0511	.0157	-.0416	.0132	.0347	-.0280	.0080
#2	.0519	.0145	-.0537	.0138	.0306	-.0258	.0068
#3	.0512	.0151	-.0444	.0145	.0313	-.0259	.0079

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	19.50	4424.	.0273	.0110	.6799	.0040
SDev	.0002	.12	33.	.0005	.0012	.0082	.0002
%RSD	5.207	.6046	.7542	1.931	10.90	1.210	6.018
#1	.0048	19.39	4387.	.0279	.0096	.6731	.0038
#2	.0047	19.62	4452.	.0271	.0117	.6890	.0040
#3	.0043	19.49	4433.	.0270	.0117	.6774	.0043

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	.4157	.0529	51.66	.0360	.3161	.0798
SDev	.0011	.0385	.0023	.34	.0253	.0116	.0105
%RSD	15.67	9.259	4.297	.6596	70.19	3.663	13.18
#1	.0063	.4408	.0549	51.31	.0587	.3230	.0918
#2	.0082	.3714	.0504	52.00	.0088	.3225	.0722
#3	.0063	.4349	.0532	51.66	.0406	.3027	.0754

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1408	.1079	.0362	.3042	1.162	.0011	.0818
SDev	.0060	.0151	.0047	.0025	.020	.0000	.0061
%RSD	4.239	14.00	13.06	.8267	1.736	1.511	7.477
#1	.1469	.1072	.0319	.3015	1.185	.0011	.0882
#2	.1406	.0931	.0354	.3065	1.152	.0010	.0760
#3	.1350	.1233	.0412	.3046	1.149	.0011	.0812

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8410	.0075	.2299	44.30	.0150	.0712	.0082
SDev	.0110	.0001	.0054	.20	.0004	.0025	.0001

%RSD	1.313	1.166	2.358	.4443	2.540	3.570	1.078
#1	.8304	.0076	.2313	44.08	.0151	.0735	.0081
#2	.8524	.0075	.2344	44.46	.0154	.0685	.0082
#3	.8403	.0075	.2239	44.36	.0146	.0717	.0082

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0157	9.783
SDev	.0021	.065
%RSD	13.48	.6599
#1	.0168	9.719
#2	.0133	9.848
#3	.0170	9.780

Analysis Report Tue 09-19-95 02:36:57 PM page 1

Method: ICP1 Sample Name: SST-ICS-1 950908I101 Operator: DRS
Run Time: 09/19/95 14:35:38
Comment: Na202/Zr 95-007941-N1 POST SPIKE @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0625	94.52	.0855	.0131	.0012	.0001	.1280
SDev	.0004	.58	.0075	.0017	.0001	.0000	.0096
%RSD	.6424	.6105	8.715	13.10	11.43	28.45	7.463
#1	.0622	93.88	.0925	.0133	.0013	.0001	.1369
#2	.0624	94.67	.0864	.0146	.0012	.0001	.1179
#3	.0630	95.00	.0777	.0112	.0011	.0001	.1293

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0409	.0126	-.0467	.0108	.0277	.0148	.0065
SDev	.0005	.0009	.0043	.0009	.0009	.0007	.0006
%RSD	1.195	7.410	9.224	8.400	3.227	4.741	8.439
#1	.0405	.0134	-.0447	.0101	.0287	.0141	.0069
#2	.0415	.0115	-.0438	.0118	.0277	.0155	.0068
#3	.0408	.0128	-.0517	.0104	.0269	.0147	.0059

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	18.47	1.301	.0273	.0159	.6242	.0039
SDev	.0002	.09	.103	.0001	.0011	.0033	.0001
%RSD	5.354	.5135	7.925	.5515	6.933	.5215	1.989
#1	.0039	18.36	1.420	.0274	.0146	.6237	.0038
#2	.0040	18.49	1.254	.0271	.0167	.6276	.0038
#3	.0036	18.55	1.230	.0273	.0163	.6212	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	3855.	.0493	48.89	.0089	.2664	.0687
SDev	.0007	22.	.0008	.24	.0128	.0047	.0076
%RSD	15.55	.5773	1.586	.4982	143.1	1.762	11.12
#1	.0051	3831.	.0484	48.61	.0208	.2699	.0743
#2	.0038	3860.	.0497	49.02	-.0046	.2610	.0718
#3	.0049	3875.	.0498	49.03	.0105	.2682	.0600

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1247	.0863	.0370	.2386	1.006	.0011	.0529
SDev	.0015	.0131	.0106	.0035	.015	.0001	.0064
%RSD	1.213	15.18	28.51	1.482	1.536	5.989	12.08
#1	.1252	.0999	.0401	.2365	1.024	.0011	.0506
#2	.1259	.0853	.0252	.2366	.9972	.0012	.0480
#3	.1230	.0737	.0456	.2427	.9979	.0010	.0601

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7799	.0070	.2284	41.71	.0125	.0565	.0074
SDev	.0113	.0002	.0046	.19	.0003	.0132	.0005

%RSD	1.445	3.205	2.017	.4635	2.530	23.46	7.180
#1	.7720	.0068	.2308	41.49	.0128	.0619	.0072
#2	.7749	.0072	.2231	41.80	.0121	.0661	.0081
#3	.7928	.0070	.2313	41.85	.0125	.0414	.0070

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0107	9.323
SDev	.0020	.047
%RSD	18.97	.5084
#1	.0110	9.270
#2	.0085	9.335
#3	.0125	9.362

Analysis Report Tue 09-19-95 02:40:45 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/19/95 14:39:26
Comment: BY-108 POST SPIKE CHECK RUN
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0017	-.0089	.0008	-.0004	.0000	-.0061
SDev	.0001	.0038	.0108	.0004	.0002	.0000	.0109
%RSD	16.93	223.1	121.0	48.70	51.11	95.18	177.8
#1	-.0008	.0007	-.0182	.0009	-.0006	.0000	-.0186
#2	-.0007	.0003	-.0115	.0012	-.0004	.0000	.0011
#3	-.0009	-.0061	.0029	.0004	-.0002	.0001	-.0009

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0068	-.0004	-.0030	.0007	-.0013	.0017	.0002
SDev	.0005	.0009	.0027	.0007	.0023	.0003	.0005
%RSD	7.310	209.9	89.88	92.93	173.3	16.24	262.2
#1	.0063	-.0014	.0001	-.0000	.0013	.0016	-.0002
#2	.0071	.0003	-.0042	.0009	-.0022	.0015	.0001
#3	.0071	-.0002	-.0048	.0012	-.0031	.0020	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0003	-.4417	.0001	.0007	.0046	-.0000
SDev	.0001	.0001	.1575	.0007	.0009	.0033	.0002
%RSD	246.2	37.85	35.67	1022.	125.0	71.50	751.8
#1	-.0001	-.0005	-.6152	.0001	.0010	.0060	-.0001
#2	.0001	-.0002	-.4022	-.0007	-.0003	.0008	-.0001
#3	.0001	-.0003	-.3076	.0008	.0014	.0069	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.2018	-.0019	.0030	-.0146	-.0083	.0131
SDev	.0009	.0152	.0012	.0033	.0074	.0021	.0013
%RSD	42.97	7.537	65.79	112.7	50.66	25.76	10.02
#1	.0031	.2193	-.0008	.0026	-.0061	-.0100	.0120
#2	.0012	.1930	-.0032	-.0002	-.0196	-.0059	.0128
#3	.0021	.1930	-.0017	.0065	-.0180	-.0090	.0145

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0071	.0073	-.0098	-.0024	-.0286	.0003	-.0045
SDev	.0036	.0122	.0062	.0030	.0283	.0000	.0046
%RSD	50.18	168.5	62.83	123.4	98.75	.6406	102.1
#1	-.0093	.0079	-.0029	-.0057	.0017	.0003	-.0025
#2	-.0030	.0192	-.0147	-.0018	-.0334	.0003	-.0098
#3	-.0092	-.0053	-.0119	.0002	-.0542	.0003	-.0013

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0001	.0069	-.0928	-.0007	.0064	-.0005
SDev	.0025	.0001	.0036	.0266	.0002	.0016	.0004

%RSD	355.8	67.84	52.19	28.69	28.67	24.54	78.67
#1	-.0008	-.0001	.0033	-.1226	-.0006	.0080	-.0000
#2	.0018	-.0000	.0069	-.0847	-.0006	.0064	-.0007
#3	-.0031	-.0002	.0105	-.0712	-.0010	.0049	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0005	-.0014
SDev	.0013	.0005
%RSD	256.7	36.54
#1	-.0010	-.0011
#2	.0013	-.0019
#3	.0011	-.0010

DON'T SAY IT -- *Write It!*

Date: September 21, 1995

To: file: ICP-325-405-1

From: JJ Wagner

Subject: Post-Digestion Spike composition used on re-run 9-19-95

(file: 092195.DSI)

A post-digestion spike was prepared from two reagent solutions. Aliquots from each reagent was added to an aliquot of BY108 Core 99 fusion prepared sample and analyzed by ICPAES on 09-20-95 (95D262A). The post-digestion spike and sample aliquot mixture resulted in an equivalent sample dilution of 5 fold.

The post-digestion spike was prepared by thoroughly mixing 2 mL of 2% acid diluent (HNO_3), 1 mL of a quality control working standard "MCVA", 1 mL of "Dilute SST Spike" reagent[1], and 1 mL of sample (sample prepared by either KOH/Ni fusion or Na_2O_2/Zr fusion procedure).

Note[1]: "Dilute SST Spike" (barcode: 950907H901) was prepared from a 20 fold dilution of "SST Spike (8/95) Reagent" (barcode: 950830H901) on 09-07-95.

Following, on the next page, is a list of analytes and concentrations contained in each of the reagents used to prepare the Post-Digestion Spike.

Analyte	"Dilute SST Spike" Barcode: 950907H901	"MCVA" QC reagent Barcode: 9507281901	Combined Total
	µg/mL	µg/mL	µg/mL
Ag	0	0.5	0.5
Al	50	25	75
As	0	2.5	2.5
B	0	2.0	2.0
Ba	0	0.5	0.5
Be	0	0.1	0.1
Bi	0	25	25
Ca	25	25	50
Cd	1.25	0.5	1.75
Co	0	1	1
Cr	7.5	1	8.5
Cu	0	1	1
Fe	0	20	20
K	100	25	125
Li	0	2	2
Mg	0	25	25
Mn	0.5	0.5	1
Mo	0	1	1
Na	81.85	25	106.85
Ni	25	1	26
Pb	25	2.5	27.5
Sb	0	2.5	2.5
Se	0	2.5	2.5
Si	50	20	70
Sr	0	0.5	0.5
Ti	0	1	1
Tl	0	2.5	2.5
U	100	0	100
V	0	1	1
Zn	0	1	1
Zr	2.5	2	4.5

*** RMIS View/Print Document Cover Sheet ***

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Accession #: D196021995

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [WATER LEACH ICP ANALYSIS] (SEC 8 OF 12)

Pages: 275

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 8 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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WATER LEACH DRAINABLE LIQUID, SEGMENT & QUARTER SEGMENT ICP ANALYSIS

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DATE TO QC: 09/15/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ICP - Water Leach

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07932-C1	95-07932-C2	95-07932-C3
95-07935-C1	95-07935-C2	
95-07941-C1	95-07941-C2	95-07941-C3
95-07942-C1	95-07942-C2	
95-07943-C1	95-07943-C2	
95-07944-C1	95-07944-C2	
95-07945-C1	95-07945-C2	
95-07946-C1	95-07946-C2	
95-07947-C1	95-07947-C2	
95-07948-C1	95-07948-C2	

Issues that need to be addressed in narrative if data is used - see highlighted issues on the audit of data quality - ICP.

PNL ACL Quality Representative

9-18-95
Date

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Dilutions **
Core 99 Drainable Liquids

Analyze Date: 09/11/95
File: m091195a

Samp Log#:	Seg 2 95-07932-C1-Sam	95-07932-C1-Sam@5x		Seg 2 95-07932-C2-Sam	95-07932-C2-Sam@5x					95-07932-C3 Batch Blk	**Estimated**	
Run Time:	10:36	10:24		10:44	10:40					10:21		
Dil Fctr:	95.42	477.12		101.48	507.38					98.45		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
	<--------Sample-------->			<--------Duplicate-------->						<-Blank->		
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	Average ug/mL	RPD	20% Flg	ug/mL	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	37,357.9	37,602.4	1%	37,836.4	38,116.7	1%	37,597.1	1%		ND	0.060	0.6000
As	(31.8)	ND		(35.4)	ND		---			ND	0.080	0.8000
B	74.4	(76.8)		56.0	(57.4)		65.2	28%	*	45.8	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	ND	ND		ND	ND		---			ND	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(9.2)	(9.2)		(9.5)	(9.1)		---			ND	0.010	0.1000
Cr	298.1	305.4	2%	304.2	308.4	1%	301.1	2%		ND	0.020	0.2000
Cu	(4.1)	ND		(4.4)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	124.9	129.5	4%	127.5	131.2	3%	126.2	2%		ND	0.020	0.2000
K	2,805.4	(2,945.1)		2,853.2	(2,983.3)		2,829.3	2%		ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			ND	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(15.4)	(14.8)		(15.6)	ND		---			ND	0.030	0.3000
Na	OvrRng	194,172.6		OvrRng	197,638.8		195,905.7	2%		(73.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			ND	0.050	0.5000
Ni	327.3	335.1	2%	334.7	343.3	3%	331.0	2%		ND	0.030	0.3000
P	520.0	503.8	3%	533.0	513.3	4%	526.5	2%		ND	0.100	1.0000
Pb	(45.9)	(72.6)		(52.7)	(78.6)		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(90.6)	ND		(78.4)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	(79.0)	ND		(81.5)	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	(70.6)	ND		(72.7)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	(4.8)	ND		(4.9)	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/950254a

Analyze Date: 09/11/95 | Analyst: D SANDERS | File: m091195a
Project: TWRS | Reviewer: [signature] 9/19/95 | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP File: 95D254a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# / ID	95-07932-C1-Sam	95-07932-C1-Sam05x	95-07932-C2-Sam	95-07932-C2-Sam05x	95-07932-C3 Batch Blk			Post Spk
Sample Vol-mL	0.20	0.20	0.20	0.20	0.20			
Final Vol-mL	19.08	19.08	20.30	20.30	19.69			
Prep Factor	95.42	95.42	101.48	101.48	98.45			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	95.42	477.12	101.48	507.38	98.45			
ICP Run Time	10:36	10:24	10:44	10:40	10:21			
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.513	0.033	0.729	0.086	0.540			
Al	37357.919	37602.389	37836.376	38116.704	2.818			
As	31.772	32.310	35.442	34.238	0.803			
B	74.402	76.787	56.041	57.415	45.829			
Ba	0.075	0.000	0.121	0.041	0.125			
Be	0.317	0.296	0.328	0.315	0.010			
Bi	4.629	4.933	5.158	7.712	1.457			
Ca	-2.047	-16.308	-1.813	-16.074	-3.095			
Cd	0.305	0.568	0.268	0.238	0.231			
Ce	2.396	-0.429	3.842	-3.415	4.282			
Co	9.223	9.156	9.542	9.062	0.364			
Cr	298.080	305.365	304.158	308.359	0.201			
Cu	4.091	2.992	4.393	3.196	0.366			
Dy	0.396	0.105	0.536	-0.086	0.576			
Eu	0.141	0.000	0.200	-0.025	0.149			
Fe	124.857	129.494	127.491	131.228	0.846			
K	2805.395	2945.137	2853.220	2983.319	137.645			
La	0.902	0.644	1.229	0.416	1.174			
Li	1.230	1.412	1.356	0.959	0.488			
Mg	1.174	3.450	2.465	-0.771	2.248			
Mn	0.304	0.210	0.356	0.203	0.028			
Mo	15.441	14.824	15.620	14.404	0.121			
Na	175022.086	194172.552	177604.174	197638.834	73.574			
Nd	2.392	1.594	3.410	0.502	3.847			
Ni	327.263	335.127	334.735	343.292	0.543			
P	520.013	503.774	533.031	513.258	0.689			
Pb	45.862	72.570	52.660	78.572	2.880			
Pd	7.625	-0.344	11.005	-2.121	10.320			
Rh	4.907	1.975	6.410	2.197	4.773			
Sb	-6.369	-5.053	-4.588	-7.570	1.142			
Se	-0.103	-1.918	1.132	-0.873	0.792			
Si	90.579	83.138	78.406	51.159	5.665			
Sn	25.718	17.782	29.330	9.280	13.885			
Sr	0.106	0.167	0.127	0.178	0.057			
Te	-4.091	-6.785	-3.943	-8.762	1.963			
Th	0.302	1.951	-0.050	1.055	0.071			
Ti	0.155	0.091	0.213	-0.005	0.261			
Tl	78.956	80.032	81.477	80.414	0.270			
U	32.653	-7.400	53.061	-8.316	60.089			
V	0.302	0.081	0.406	-0.005	0.433			
W	70.614	68.037	72.690	63.651	0.969			
Y	0.143	0.000	0.192	-0.091	0.241			
Zn	4.760	5.649	4.882	5.865	-0.083			
Zr	0.329	-0.210	0.480	-0.076	0.420			

|<----------Adjusted for process dilution factor----------> | <ICP Dil> < Only >

ICP RAW DATA --- IEC Corrected

File: m091195a
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	95-07932-C1-Sam	95-07932-C1-Sam@5x	95-07932-C2-Sam	95-07932-C2-Sam@5x	95-07932-C3 Batch Blk			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	10:36	10:24	10:44	10:40	10:21			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0054	0.0001	0.0072	0.0002	0.0055			
Al	391.4960	78.8116	372.8622	75.1249	0.0286			
As	0.3330	0.0677	0.3493	0.0675	0.0082			
B	0.7797	0.1609	0.5523	0.1132	0.4655			
Ba	0.0008	0.0000	0.0012	0.0001	0.0013			
Be	0.0033	0.0006	0.0032	0.0006	0.0001			
Bi	0.0485	0.0103	0.0508	0.0152	0.0148			
Ca	-0.0215	-0.0342	-0.0179	-0.0317	-0.0314			
Cd	0.0032	0.0012	0.0026	0.0005	0.0024			
Ce	0.0251	-0.0009	0.0379	-0.0067	0.0435			
Co	0.0966	0.0192	0.0940	0.0179	0.0037			
Cr	3.1238	0.6400	2.9973	0.6078	0.0020			
Cu	0.0429	0.0063	0.0433	0.0063	0.0037			
Dy	0.0041	0.0002	0.0053	-0.0002	0.0059			
Eu	0.0015	0.0000	0.0020	-0.0001	0.0015			
Fe	1.3084	0.2714	1.2564	0.2586	0.0086			
K	29.3994	6.1728	28.1173	5.8799	1.3981			
La	0.0095	0.0014	0.0121	0.0008	0.0119			
Li	0.0129	0.0030	0.0134	0.0019	0.0050			
Mg	0.0123	0.0072	0.0243	-0.0015	0.0228			
Mn	0.0032	0.0004	0.0035	0.0004	0.0003			
Mo	0.1618	0.0311	0.1539	0.0284	0.0012			
Na	1834.1613	406.9701	1750.2173	389.5301	0.7473			
Nd	0.0251	0.0033	0.0336	0.0010	0.0391			
Ni	3.4296	0.7024	3.2987	0.6766	0.0055			
P	5.4495	1.0559	5.2528	1.0116	0.0070			
Pb	0.4806	0.1521	0.5189	0.1549	0.0293			
Pd	0.0799	-0.0007	0.1085	-0.0042	0.1048			
Rh	0.0514	0.0041	0.0632	0.0043	0.0485			
Sb	-0.0667	-0.0106	-0.0452	-0.0149	0.0116			
Se	-0.0011	-0.0040	0.0112	-0.0017	0.0080			
Si	0.9492	0.1742	0.7727	0.1008	0.0575			
Sn	0.2695	0.0373	0.2890	0.0183	0.1410			
Sr	0.0011	0.0004	0.0013	0.0004	0.0006			
Te	-0.0429	-0.0142	-0.0389	-0.0173	0.0199			
Th	0.0032	0.0041	-0.0005	0.0021	0.0007			
Ti	0.0016	0.0002	0.0021	-0.0000	0.0027			
Tl	0.8274	0.1677	0.8029	0.1585	0.0027			
U	0.3422	-0.0155	0.5229	-0.0164	0.6103			
V	0.0032	0.0002	0.0040	-0.0000	0.0044			
W	0.7400	0.1426	0.7163	0.1255	0.0098			
Y	0.0015	0.0000	0.0019	-0.0002	0.0025			
Zn	0.0499	0.0118	0.0481	0.0116	-0.0008			
Zr	0.0035	-0.0004	0.0047	-0.0002	0.0043			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Dilutions **
Core 99 Drainable Liquids

Analyze Date: 09/11/95
File: m091195b

Samp Log#:	Seg 3 95-07935-C1-Sam	95-07935-C1-Sam@5x	Seg 3 95-07935-C2-Sam	95-07935-C2-Sam@5x					95-07932-C3 Batch Blk	**Estimated**	
Run Time:	10:58	10:55	11:07	11:03					10:21		
Dil Fctr:	100.10	500.50	102.20	511.02					101.15		
ICP Dil:	1.00	5.00	1.00	5.00					1.00		
	|<--------Sample-------->|		|<--------Duplicate-------->|			Average		20%	|<-Blank->|	IDL	MDL
Analyte	ug/mL	ug/mL	%D	ug/mL	ug/mL	%D	ug/mL	RPD	Flg	ug/mL	ug/mL	ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	40,270.4	41,663.1	3%	39,166.6	39,258.6	0%	39,718.5	3%		ND	0.060	0.6000
As	(37.9)	ND		(33.7)	ND		---			ND	0.080	0.8000
B	51.7	(53.5)		44.2	(43.9)		47.9	16%	*	47.1	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	ND	ND		ND	ND		---			ND	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(9.3)	(8.7)		(9.0)	(8.8)		---			ND	0.010	0.1000
Cr	318.2	333.2	5%	307.0	313.7	2%	312.6	4%		ND	0.020	0.2000
Cu	10.7	(10.6)		10.5	(10.3)		10.6	2%		ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	101.6	110.6	9%	100.7	105.4		101.2	1%		ND	0.020	0.2000
K	2,961.7	(2,984.4)		2,888.4	(3,030.1)		2,925.0	3%		ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			ND	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(16.1)	(16.2)		(15.4)	ND		---			ND	0.030	0.3000
Na	OvrRng	198,042.5		OvrRng	186,914.0		192,478.2	6%		(75.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			ND	0.050	0.5000
Ni	255.9	269.3	5%	249.5	258.8	4%	252.7	3%		ND	0.030	0.3000
P	533.6	522.5	2%	512.7	517.7	1%	523.1	4%		ND	0.100	1.0000
Pb	(54.6)	(77.3)		(57.7)	(89.5)		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(105.5)	ND		(91.7)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(0.7)	ND		(1.2)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	(81.6)	ND		(79.5)	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	840.9	(834.8)		814.5	(789.4)		827.7	3%		ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	(9.7)	(12.4)		(9.1)	(10.7)		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported adjusted for the an "average sample volume".
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/mL) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195b
Reported: 09/15/95

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	95-07935-C1-Sam	95-07935-C1-Sam@5x	95-07935-C2-Sam	95-07935-C2-Sam@5x	95-07932-C3 Batch Blk			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	10:58	10:55	11:07	11:03	10:21			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0070	-0.0036	-0.0067	-0.0014	0.0055			
Al	402.3017	83.2429	383.2198	76.8240	0.0286			
As	0.3790	0.0787	0.3296	0.0665	0.0082			
B	0.5162	0.1070	0.4323	0.0859	0.4655			
Ba	0.0014	-0.0000	0.0014	0.0005	0.0013			
Be	0.0032	0.0006	0.0031	0.0006	0.0001			
Bi	0.0497	0.0036	0.0502	0.0133	0.0148			
Ca	-0.0144	-0.0274	-0.0114	-0.0309	-0.0314			
Cd	0.0009	0.0006	0.0016	0.0019	0.0024			
Ce	0.0362	-0.0101	0.0314	0.0010	0.0435			
Co	0.0932	0.0173	0.0880	0.0173	0.0037			
Cr	3.1784	0.6657	3.0036	0.6138	0.0020			
Cu	0.1074	0.0212	0.1030	0.0202	0.0037			
Dy	0.0048	-0.0015	0.0044	0.0004	0.0059			
Eu	0.0018	-0.0006	0.0017	0.0002	0.0015			
Fe	1.0150	0.2209	0.9854	0.2063	0.0086			
K	29.5873	5.9628	28.2610	5.9296	1.3981			
La	0.0112	-0.0022	0.0109	0.0026	0.0119			
Li	0.0112	0.0000	0.0102	0.0024	0.0050			
Mg	0.0197	0.0038	0.0200	0.0030	0.0228			
Mn	0.0033	0.0005	0.0034	0.0006	0.0003			
Mo	0.1606	0.0323	0.1509	0.0279	0.0012			
Na	1743.9331	395.6892	1669.8220	365.7664	0.7473			
Nd	0.0328	-0.0096	0.0319	0.0067	0.0391			
Ni	2.5566	0.5381	2.4416	0.5064	0.0055			
P	5.3302	1.0439	5.0163	1.0130	0.0070			
Pb	0.5450	0.1544	0.5647	0.1751	0.0293			
Pd	0.1019	-0.0212	0.0864	0.0194	0.1048			
Rh	0.0623	-0.0063	0.0562	0.0108	0.0485			
Sb	-0.0626	-0.0190	-0.0759	-0.0152	0.0116			
Se	-0.0088	-0.0036	-0.0185	-0.0058	0.0080			
Si	1.0544	0.1679	0.8972	0.1102	0.0575			
Sn	0.2417	-0.0005	0.2207	0.0370	0.1410			
Sr	0.0069	0.0042	0.0118	0.0036	0.0006			
Te	-0.0422	-0.0241	-0.0481	-0.0127	0.0199			
Th	0.0046	-0.0016	0.0052	0.0002	0.0007			
Ti	0.0022	-0.0005	0.0027	0.0003	0.0027			
Tl	0.8150	0.1592	0.7780	0.1525	0.0027			
U	0.5572	-0.1431	0.5633	0.0730	0.6103			
V	0.0040	-0.0010	0.0038	0.0009	0.0044			
W	8.4008	1.6679	7.9691	1.5447	0.0098			
Y	0.0021	-0.0004	0.0017	0.0005	0.0025			
Zn	0.0970	0.0247	0.0886	0.0209	-0.0008			
Zr	0.0037	-0.0012	0.0032	0.0005	0.0043			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: TMW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195b
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# / ID	95-07935-C1-Sam	95-07935-C1-Sam@5x	95-07935-C2-Sam	95-07935-C2-Sam@5x	95-07932-C3 Batch Blk			Post Spk
Sample Vol-mL	0.20	0.20	0.20	0.20	0.20			
Final Vol-mL	20.02	20.02	20.44	20.44	20.23			
Prep Factor	100.10	100.10	102.20	102.20	101.15			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	100.10	500.50	102.20	511.02	101.15			
ICP Run Time	10:58	10:55	11:07	11:03	10:21			
Analyte ↓↓	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.701	-1.807	-0.685	-0.710	0.554			
Al	40270.402	41663.096	39166.594	39258.626	2.895			
As	37.939	39.389	33.692	33.988	0.825			
B	51.674	53.538	44.185	43.876	47.087			
Ba	0.139	-0.015	0.146	0.245	0.128			
Be	0.323	0.290	0.319	0.291	0.010			
Bi	4.973	1.812	5.130	6.781	1.497			
Ca	-1.442	-13.704	-1.163	-15.791	-3.180			
Cd	0.092	0.305	0.160	0.956	0.238			
Ce	3.625	-5.055	3.213	0.501	4.399			
Co	9.328	8.659	8.995	8.815	0.374			
Cr	318.153	333.203	306.975	313.664	0.206			
Cu	10.749	10.621	10.524	10.307	0.376			
Dy	0.483	-0.731	0.451	0.225	0.592			
Eu	0.184	-0.275	0.171	0.123	0.153			
Fe	101.605	110.565	100.712	105.444	0.869			
K	2961.689	2984.366	2888.388	3030.149	141.424			
La	1.116	-1.121	1.116	1.318	1.206			
Li	1.124	0.000	1.039	1.206	0.502			
Mg	1.971	1.907	2.047	1.518	2.309			
Mn	0.325	0.255	0.351	0.286	0.028			
Mo	16.081	16.181	15.425	14.252	0.124			
Na	174567.703	198042.460	170662.490	186913.966	75.594			
Nd	3.285	-4.820	3.260	3.439	3.953			
Ni	255.911	269.294	249.541	258.806	0.558			
P	533.551	522.457	512.690	517.679	0.708			
Pb	54.559	77.272	57.712	89.500	2.959			
Pd	10.204	-10.606	8.830	9.919	10.604			
Rh	6.237	-3.143	5.739	5.539	4.904			
Sb	-6.270	-9.515	-7.760	-7.742	1.173			
Se	-0.878	-1.817	-1.886	-2.979	0.813			
Si	105.548	84.059	91.698	56.335	5.820			
Sn	24.190	-0.255	22.556	18.923	14.266			
Sr	0.694	2.082	1.210	1.855	0.059			
Te	-4.222	-12.082	-4.917	-6.495	2.017			
Th	0.455	-0.806	0.529	0.123	0.073			
Ti	0.224	-0.245	0.271	0.138	0.268			
Tl	81.579	79.655	79.516	77.941	0.277			
U	55.771	-71.647	57.574	37.299	61.738			
V	0.396	-0.485	0.386	0.445	0.445			
W	840.915	834.769	814.471	789.393	0.995			
Y	0.208	-0.205	0.172	0.235	0.248			
Zn	9.712	12.372	9.058	10.691	-0.085			
Zr	0.368	-0.601	0.330	0.261	0.432			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

ICP RAW DATA --- IEC Corrected

File: m091195c
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7941-	95-7941-	95-7941-	95-7941-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	13:57	13:53	14:06	14:02	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0021	0.0002	0.0029	-0.0011	0.0069			
Al	29.0411	5.6365	28.0440	5.5583	0.0324			
As	0.1301	0.0202	0.1205	0.0180	0.0120			
B	0.0901	0.0156	0.0633	0.0091	0.0089			
Ba	0.0014	0.0003	0.0014	-0.0001	0.0024			
Be	0.0004	0.0000	0.0003	0.0000	0.0002			
Bi	0.0129	-0.0072	0.0080	0.0005	0.0191			
Ca	0.2146	0.0537	0.2469	0.0477	0.7969			
Cd	0.0012	0.0015	0.0011	0.0001	0.0023			
Ce	0.0120	0.0032	0.0193	-0.0020	0.0611			
Co	0.0158	0.0023	0.0162	0.0014	0.0048			
Cr	0.4862	0.0944	0.4757	0.0900	0.0012			
Cu	0.0342	0.0042	0.0471	0.0068	0.0057			
Dy	0.0012	-0.0002	0.0025	-0.0013	0.0074			
Eu	0.0006	-0.0001	0.0009	-0.0001	0.0024			
Fe	0.3076	0.0742	0.2883	0.0648	0.0102			
K	4.7823	0.8830	4.5629	0.6910	1.7989			
La	0.0030	0.0007	0.0047	-0.0013	0.0134			
Li	0.2839	0.0557	0.2924	0.0597	0.0067			
Mg	0.0902	0.0307	0.0967	0.0198	0.2515			
Mn	0.0040	0.0012	0.0039	0.0008	0.0008			
Mo	0.0239	0.0031	0.0227	0.0024	0.0014			
Na	933.2988	186.2239	809.9840	170.6440	0.3893			
Nd	0.0122	0.0045	0.0220	-0.0039	0.0515			
Ni	0.5294	0.1029	0.4833	0.0965	0.0027			
P	227.2165	42.8084	172.1404	32.8478	0.2544			
Pb	0.0282	0.0001	0.0355	-0.0061	0.0296			
Pd	0.0303	0.0049	0.0461	-0.0139	0.1404			
Rh	0.0172	-0.0002	0.0205	-0.0092	0.0610			
Sb	0.0083	-0.0018	-0.0010	-0.0097	0.0134			
Se	0.0221	0.0051	0.0225	-0.0022	0.0232			
Si	1.8094	0.5340	1.5108	0.5030	0.1000			
Sn	0.0660	-0.0048	0.0695	-0.0344	0.1361			
Sr	0.0044	0.0013	0.0046	0.0011	0.0040			
Te	0.0500	0.0036	0.0438	-0.0039	0.0207			
Th	0.0019	-0.0029	-0.0019	0.0001	-0.0054			
Ti	0.0045	0.0011	0.0047	0.0006	0.0034			
Tl	0.0856	0.0131	0.0776	0.0111	0.0126			
U	0.2242	0.0136	0.2980	-0.0703	0.7738			
V	0.3670	0.0705	0.2912	0.0556	0.0055			
W	0.1557	0.0202	0.1489	0.0190	0.0089			
Y	0.0004	-0.0002	0.0008	-0.0005	0.0027			
Zn	0.0044	0.0016	0.0047	0.0009	0.0023			
Zr	0.0009	0.0007	0.0019	-0.0013	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195c

Samp Log#:	Seg 1 95-7941-C1-Sam	95-7941-C1-Sam@5x		Seg 1 95-7941-C2-Sam	95-7941-C2-Sam@5x				95-7941-C3 Batch Blk	**Estimated**	
Run Time:	13:57	13:53		14:06	14:02				13:49		
Dil Fctr:	97.65	488.26		100.53	502.63				99.07		
ICP Dil:	1.00	5.00		1.00	5.00				1.00		
Analyte	Sample ug/g	Sample ug/g	%D	Duplicate ug/g	Duplicate ug/g	%D	Average ug/mL	RPD	20% Flg	Blank ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	2,835.9	2,752.1	3%	2,819.2	2,793.8	1%	2,827.5	1%		ND	0.060	0.6000
As	(12.7)	ND		(12.1)	ND		---			ND	0.080	0.8000
B	(8.8)	ND		(6.4)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(21.0)	(26.2)		(24.8)	ND		---			78.9	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(1.5)	ND		(1.6)	ND		---			ND	0.010	0.1000
Cr	47.5	(46.1)		47.8	(45.3)		47.6	1%		ND	0.020	0.2000
Cu	(3.3)	ND		(4.7)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	30.0	(36.2)		29.0	(32.6)		29.5	4%		ND	0.020	0.2000
K	(467.0)	ND		(458.7)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(27.7)	(27.2)		(29.4)	(30.0)		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(24.9)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	ND	ND		ND	ND		---			ND	0.030	0.3000
Na	91,139.3	90,926.5	0%	81,424.4	85,770.8	5%	86,281.8	11%	*	(38.6)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.1)	0.050	0.5000
Ni	51.7	(50.2)		48.6	(48.5)		50.1	6%		ND	0.030	0.3000
P	22,188.3	20,901.8	6%	17,304.6	16,510.3	5%	19,746.5	25%	*	(25.2)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(176.7)	(260.7)		(151.9)	(252.8)		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	35.8	(34.4)		29.3	(28.0)		32.6	20%	*	ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: TMW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195c
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# ID	95-7941-C1-Sam	95-7941-C1-Sam@5x	95-7941-C2-Sam	95-7941-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.5139	0.5139	0.4972	0.4972	0.5055			
Final Vol-mL	50.2	50.2	50.0	50.0	50.1			
Prep Factor	97.65	97.65	100.53	100.53	99.07			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.65	488.26	100.53	502.63	99.07			
ICP Run #	13:57	13:53	14:06	14:02	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.204	0.103	0.289	-0.543	0.680			
Al	2835.948	2752.106	2819.151	2793.767	3.211			
As	12.704	9.882	12.114	9.062	1.193			
B	8.798	7.622	6.361	4.569	0.879			
Ba	0.135	0.132	0.143	-0.055	0.242			
Be	0.035	0.020	0.029	0.000	0.017			
Bi	1.264	-3.501	0.803	0.261	1.895			
Ca	20.956	26.234	24.821	23.950	78.941			
Cd	0.112	0.713	0.111	0.065	0.225			
Ce	1.172	1.572	1.942	-1.020	6.054			
Co	1.545	1.143	1.624	0.709	0.477			
Cr	47.481	46.073	47.817	45.257	0.122			
Cu	3.335	2.051	4.739	3.403	0.569			
Dy	0.117	-0.088	0.249	-0.638	0.737			
Eu	0.062	-0.034	0.092	-0.065	0.238			
Fe	30.038	36.244	28.986	32.575	1.007			
K	467.007	431.123	458.695	347.327	178.204			
La	0.296	0.322	0.467	-0.653	1.330			
Li	27.721	27.187	29.398	30.022	0.664			
Mg	8.807	14.970	9.721	9.962	24.916			
Mn	0.391	0.581	0.389	0.387	0.083			
Mo	2.338	1.504	2.279	1.211	0.139			
Na	91139.290	90926.474	81424.407	85770.752	38.568			
Nd	1.195	2.178	2.214	-1.950	5.099			
Ni	51.698	50.223	48.587	48.499	0.265			
P	22188.339	20901.816	17304.577	16510.281	25.198			
Pb	2.757	0.049	3.570	-3.061	2.933			
Pd	2.954	2.368	4.630	-6.961	13.914			
Rh	1.677	-0.103	2.057	-4.619	6.038			
Sb	0.806	-0.874	-0.097	-4.891	1.329			
Se	2.158	2.490	2.263	-1.096	2.296			
Si	176.691	260.723	151.874	252.848	9.908			
Sn	6.448	-2.349	6.984	-17.290	13.484			
Sr	0.429	0.635	0.464	0.563	0.400			
Te	4.883	1.763	4.399	-1.955	2.053			
Th	0.189	-1.396	-0.187	0.045	-0.530			
Ti	0.438	0.557	0.471	0.307	0.332			
Tl	8.358	6.372	7.803	5.594	1.251			
U	21.890	6.640	29.957	-35.350	76.657			
V	35.843	34.423	29.274	27.951	0.548			
W	15.201	9.863	14.966	9.540	0.883			
Y	0.035	-0.107	0.083	-0.236	0.264			
Zn	0.425	0.776	0.469	0.437	0.227			
Zr	0.089	0.356	0.188	-0.638	0.542			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Core 99

Analyze Date: 09/11/95
File: m091195d

Samp Log#:	Seg 2A 95-7942-C1-Sam	95-7942-C1-Sam@5x	Seg 2A 95-7942-C2-Sam	95-7942-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	14:14	14:09	14:21	14:17					13:49	
Dil Fctr:	97.71	488.55	101.33	506.67					99.50	
ICP Dil:	1.00	5.00	1.00	5.00					1.00	**Estimated**
	<--------Sample------->		<--------Duplicate------->			Average		20%	<-Blank->	IDL
Analyte	ug/g	ug/g	%D	ug/g	ug/g	%D	ug/mL	RPD	Flg	ug/g	ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015
Al	6,781.0	6,916.1	2%	6,847.9	6,846.8	0%	6,814.4	1%		ND	0.060
As	(12.7)	ND		(12.8)	ND		---			ND	0.080
B	(6.1)	ND		(9.4)	ND		---			ND	0.020
Ba	ND	ND		ND	ND		---			ND	0.010
Be	ND	ND		ND	ND		---			ND	0.005
Bi	ND	ND		ND	ND		---			ND	0.100
Ca	146.4	549.6		142.4	688.6		144.4	3%		79.3	0.050
Cd	ND	ND		ND	ND		---			ND	0.015
Ce	ND	ND		ND	ND		---			ND	0.100
Co	(2.4)	ND		(2.5)	ND		---			ND	0.010
Cr	64.0	(65.5)		64.6	(65.5)		64.3	1%		ND	0.020
Cu	(1.0)	ND		(1.1)	ND		---			ND	0.010
Dy	ND	ND		ND	ND		---			ND	0.050
Eu	ND	ND		ND	ND		---			ND	0.100
Fe	26.4	(29.2)		26.6	(31.9)		26.5	1%		ND	0.020
K	(722.4)	ND		(734.1)	ND		---			ND	2.000
La	ND	ND		ND	ND		---			ND	0.050
Li	ND	ND		ND	ND		---			ND	0.030
Mg	ND	ND		ND	ND		---			(25.0)	0.100
Mn	ND	ND		ND	ND		---			ND	0.005
Mo	(3.5)	ND		(3.4)	ND		---			ND	0.030
Na	OvrRng	225,347.3		OvrRng	227,957.8		201,191.5	3%		(38.7)	0.080
Nd	ND	ND		ND	ND		---			(5.1)	0.050
Ni	67.6	(69.1)		68.6	(67.6)		68.1	1%		ND	0.030
P	687.8	692.3	1%	744.8	743.7	0%	716.3	8%		(25.3)	0.100
Pb	(8.6)	ND		(8.6)	ND		---			ND	0.060
Pd	ND	ND		ND	ND		---			ND	0.300
Rh	ND	ND		ND	ND		---			ND	0.300
Sb	ND	ND		ND	ND		---			ND	0.050
Se	ND	ND		ND	ND		---			ND	0.100
Si	(105.4)	ND		(108.7)	ND		---			ND	0.500
Sn	ND	ND		ND	ND		---			ND	1.000
Sr	(0.8)	ND		(0.8)	ND		---			ND	0.005
Te	ND	ND		ND	ND		---			ND	0.500
Th	ND	ND		ND	ND		---			ND	0.800
Ti	ND	ND		ND	ND		---			ND	0.005
Tl	ND	ND		ND	ND		---			ND	0.500
U	ND	ND		ND	ND		---			ND	2.000
V	ND	ND		ND	ND		---			ND	0.010
W	ND	ND		ND	ND		---			ND	0.500
Y	ND	ND		ND	ND		---			ND	0.010
Zn	ND	ND		ND	ND		---			ND	0.020
Zr	ND	ND		ND	ND		---			ND	0.010

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195d
Reported: 09/11/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7942-	C1-Sam@5x 95-7942-	C2-Sam 95-7942-	C2-Sam@5x 95-7942-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	14:14	14:09	14:21	14:17	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0062	-0.0011	0.0056	-0.0008	0.0069			
Al	69.3981	14.1563	67.5773	13.5135	0.0324			
As	0.1298	0.0242	0.1266	0.0170	0.0120			
B	0.0621	0.0077	0.0931	0.0136	0.0089			
Ba	0.0023	0.0003	0.0022	0.0004	0.0024			
Be	0.0005	0.0001	0.0005	0.0000	0.0002			
Bi	0.0243	-0.0011	0.0144	-0.0002	0.0191			
Ca	1.4986	1.1250	1.4057	1.3591	0.7969			
Cd	0.0009	-0.0002	0.0003	-0.0011	0.0023			
Ce	0.0438	-0.0041	0.0429	-0.0017	0.0611			
Co	0.0246	0.0030	0.0242	0.0027	0.0048			
Cr	0.6551	0.1341	0.6377	0.1293	0.0012			
Cu	0.0105	-0.0017	0.0108	-0.0012	0.0057			
Dy	0.0062	-0.0007	0.0053	-0.0004	0.0074			
Eu	0.0021	-0.0002	0.0020	-0.0001	0.0024			
Fe	0.2698	0.0598	0.2628	0.0630	0.0102			
K	7.3929	1.1682	7.2448	1.2120	1.7989			
La	0.0113	-0.0016	0.0105	-0.0002	0.0134			
Li	0.0137	0.0009	0.0137	0.0010	0.0067			
Mg	0.0459	0.0108	0.0714	0.0112	0.2515			
Mn	0.0013	0.0000	0.0012	0.0001	0.0008			
Mo	0.0363	0.0050	0.0337	0.0043	0.0014			
Na	2024.0674	461.2527	2019.1659	449.9156	0.3893			
Nd	0.0443	0.0001	0.0415	0.0018	0.0515			
Ni	0.6922	0.1414	0.6768	0.1333	0.0027			
P	7.0396	1.4171	7.3502	1.4677	0.2544			
Pb	0.0883	0.0033	0.0852	0.0088	0.0296			
Pd	0.1101	-0.0113	0.1007	-0.0123	0.1404			
Rh	0.0486	-0.0052	0.0495	-0.0043	0.0610			
Sb	0.0178	-0.0018	0.0141	-0.0089	0.0134			
Se	0.0229	-0.0054	0.0221	-0.0046	0.0232			
Si	1.0783	0.3138	1.0724	0.2555	0.1000			
Sn	0.1882	-0.0206	0.1522	-0.0129	0.1361			
Sr	0.0083	0.0019	0.0078	0.0020	0.0040			
Te	0.0121	-0.0084	0.0187	-0.0102	0.0207			
Th	-0.0060	-0.0046	-0.0019	-0.0034	-0.0054			
Ti	0.0027	-0.0002	0.0025	0.0000	0.0034			
Tl	0.1727	0.0316	0.1649	0.0279	0.0126			
U	0.6735	-0.0726	0.5620	-0.0290	0.7738			
V	0.0070	0.0002	0.0072	0.0005	0.0055			
W	0.1681	0.0220	0.1647	0.0199	0.0089			
Y	0.0020	-0.0006	0.0020	-0.0004	0.0027			
Zn	0.0017	0.0167	0.0023	0.0200	0.0023			
Zr	0.0048	-0.0011	0.0038	-0.0006	0.0055			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195d
Reported: 09/11/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7942-	95-7942-	95-7942-	95-7942-	95-7941-C3			
ID	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample Wt-g	0.5152	0.5152	0.5051	0.5051	0.5102			
Final Vol-mL	50.3	50.3	51.2	51.2	50.8			
Prep Factor	97.71	97.71	101.33	101.33	99.50			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.71	488.55	101.33	506.67	99.50			
ICP Run #	14:14	14:09	14:21	14:17	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.603	-0.513	0.569	-0.421	0.683			
Al	6780.955	6916.125	6847.851	6846.843	3.225			
As	12.688	11.799	12.833	8.623	1.198			
B	6.066	3.777	9.436	6.911	0.883			
Ba	0.227	0.156	0.223	0.177	0.243			
Be	0.046	0.024	0.047	0.005	0.017			
Bi	2.376	-0.513	1.455	-0.096	1.904			
Ca	146.427	549.624	142.444	688.612	79.291			
Cd	0.085	-0.073	0.030	-0.573	0.226			
Ce	4.276	-1.988	4.344	-0.871	6.081			
Co	2.401	1.451	2.453	1.388	0.479			
Cr	64.008	65.491	64.615	65.512	0.122			
Cu	1.025	-0.831	1.092	-0.628	0.571			
Dy	0.602	-0.357	0.536	-0.218	0.740			
Eu	0.200	-0.098	0.202	-0.025	0.239			
Fe	26.359	29.196	26.630	31.910	1.011			
K	722.364	570.710	734.140	614.097	178.993			
La	1.100	-0.801	1.065	-0.081	1.336			
Li	1.340	0.445	1.390	0.512	0.667			
Mg	4.485	5.281	7.234	5.649	25.026			
Mn	0.130	0.010	0.121	0.030	0.084			
Mo	3.549	2.443	3.416	2.179	0.139			
Na	197773.619	225347.256	204609.343	227957.821	38.739			
Nd	4.331	0.039	4.208	0.927	5.121			
Ni	67.636	69.062	68.579	67.554	0.267			
P	687.844	692.321	744.822	743.652	25.310			
Pb	8.623	1.627	8.629	4.438	2.946			
Pd	10.755	-5.496	10.207	-6.232	13.975			
Rh	4.752	-2.521	5.020	-2.179	6.065			
Sb	1.740	-0.855	1.428	-4.484	1.335			
Se	2.236	-2.614	2.241	-2.321	2.307			
Si	105.361	153.323	108.666	129.449	9.951			
Sn	18.393	-10.084	15.428	-6.541	13.544			
Sr	0.808	0.938	0.792	1.013	0.402			
Te	1.186	-4.084	1.891	-5.183	2.062			
Th	-0.582	-2.257	-0.194	-1.713	-0.532			
Ti	0.260	-0.078	0.248	0.005	0.333			
Tl	16.872	15.458	16.710	14.116	1.257			
U	65.811	-35.479	56.953	-14.678	76.996			
V	0.681	0.088	0.733	0.243	0.550			
W	16.424	10.734	16.691	10.067	0.887			
Y	0.192	-0.313	0.207	-0.187	0.265			
Zn	0.168	8.144	0.231	10.128	0.228			
Zr	0.472	-0.552	0.381	-0.319	0.544			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> |< Only >|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Core 99

Analyze Date: 09/11/95
File: m091195e

Samp Log#:	Seg 2D 95-7943-C1-Sam	95-7943-C1-Sam@5x		Seg 2D 95-7943-C2-Sam	95-7943-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	14:45	14:41		14:53	14:50					13:49	
Dil Fctr:	92.83	464.14		82.51	412.53					87.48	
ICP Dil:	1.00	5.00		1.00	5.00					1.00	**Estimated**
Analyte	<--Sample--> ug/g	ug/g	%D	<--Duplicate--> ug/g	ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	9,171.6	9,165.6	0%	8,772.3	8,599.1	2%	8,972.0	4%		ND	0.060	0.6000
As	(17.1)	ND		(16.1)	ND		---			ND	0.080	0.8000
B	(11.7)	ND		(5.9)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(5.2)	694.8		(4.3)	640.5		---			69.7	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(3.7)	ND		(3.6)	ND		---			ND	0.010	0.1000
Cr	107.8	109.3	1%	104.7	105.6	1%	106.2	3%		ND	0.020	0.2000
Cu	(2.9)	ND		(3.9)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	47.9	(51.3)		46.0	(48.1)		46.9	4%		ND	0.020	0.2000
K	(1,021.2)	(967.3)		(971.0)	(1,013.6)		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(19.1)	(19.7)		(5.3)	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(22.0)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.6)	ND		(5.4)	ND		---			ND	0.030	0.3000
Na	OvrRng	146,848.1		OvrRng	145,525.2		146,186.6	1%		(34.1)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.5)	0.050	0.5000
Ni	112.2	(111.9)		110.7	(109.0)		111.4	1%		ND	0.030	0.3000
P	4,535.2	4,411.8	3%	4,424.6	4,276.1	3%	4,479.9	2%		(22.3)	0.100	1.0000
Pb	(5.6)	ND		(5.8)	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(103.1)	ND		(80.0)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	ND	ND		ND	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(4.4)	ND		(4.0)	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	(11.2)		ND	(10.1)		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.

8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195e
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7943-	95-7943-	95-7943-	95-7943-	95-7941-C3			
ID	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample Wt-g	0.5738	0.5738	0.6160	0.6160	0.5949			
Final Vol-mL	53.3	53.3	50.8	50.8	52.0			
Prep Factor	92.83	92.83	82.51	82.51	87.48			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	92.83	464.14	82.51	412.53	87.48			
ICP Run #	14:45	14:41	14:53	14:50	13:49			
	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Analyte ↓↓								
Ag	0.889	0.515	0.793	1.056	0.600			
Al	9171.635	9165.603	8772.311	8599.116	2.835			
As	17.097	14.625	16.081	13.717	1.053			
B	11.745	9.023	5.893	3.144	0.776			
Ba	0.090	0.070	0.097	0.161	0.213			
Be	0.026	0.000	0.036	0.041	0.015			
Bi	2.314	2.678	2.067	1.374	1.674			
Ca	5.175	694.763	4.263	640.540	69.713			
Cd	0.051	-0.246	0.000	0.037	0.199			
Ce	4.194	2.516	3.626	4.591	5.346			
Co	3.709	3.189	3.573	3.436	0.421			
Cr	107.768	109.267	104.695	105.609	0.108			
Cu	2.915	1.573	3.892	4.055	0.502			
Dy	0.521	0.060	0.454	0.532	0.651			
Eu	0.184	0.065	0.165	0.252	0.210			
Fe	47.879	51.310	45.977	48.064	0.889			
K	1021.245	967.281	971.050	1013.582	157.371			
La	0.938	0.580	0.921	1.283	1.175			
Li	19.130	19.698	5.252	5.610	0.586			
Mg	2.388	12.949	2.728	15.565	22.003			
Mn	0.152	0.204	0.127	0.231	0.073			
Mo	5.588	4.089	5.381	4.765	0.122			
Na	135809.472	146848.104	135675.417	145525.165	34.059			
Nd	3.486	1.634	3.129	4.674	4.503			
Ni	112.203	111.941	110.677	108.950	0.234			
P	4535.223	4411.760	4424.597	4276.064	22.252			
Pb	5.597	6.331	5.780	12.005	2.590			
Pd	9.290	2.274	8.322	10.111	12.287			
Rh	4.821	2.084	4.210	4.860	5.332			
Sb	1.165	-1.128	1.365	2.021	1.174			
Se	3.727	-1.132	1.804	5.297	2.028			
Si	103.057	141.395	80.015	124.519	8.749			
Sn	17.011	5.115	15.837	10.903	11.907			
Sr	0.111	0.835	0.093	0.784	0.353			
Te	2.011	-1.467	1.808	0.425	1.813			
Th	0.140	-2.687	-0.237	1.134	-0.468			
Ti	0.213	0.060	0.195	0.297	0.293			
Tl	21.524	19.675	20.199	21.163	1.105			
U	56.453	18.821	47.294	54.949	67.695			
V	4.441	4.298	3.967	4.006	0.484			
W	30.617	29.036	29.178	26.720	0.779			
Y	0.185	-0.102	0.166	0.008	0.233			
Zn	0.316	11.246	0.295	10.111	0.200			
Zr	0.335	0.617	0.334	0.149	0.479			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

ICP RAW DATA --- IEC Corrected

File: m091195e
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7943-	C1-Sam@5x 95-7943-	C2-Sam 95-7943-	C2-Sam@5x 95-7943-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	14:45	14:41	14:53	14:50	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0096	0.0011	0.0096	0.0026	0.0069			
Al	98.8030	19.7476	106.3225	20.8447	0.0324			
As	0.1842	0.0315	0.1949	0.0333	0.0120			
B	0.1265	0.0194	0.0714	0.0076	0.0089			
Ba	0.0010	0.0002	0.0012	0.0004	0.0024			
Be	0.0003	0.0000	0.0004	0.0001	0.0002			
Bi	0.0249	0.0058	0.0251	0.0033	0.0191			
Ca	0.0558	1.4969	0.0517	1.5527	0.7969			
Cd	0.0006	-0.0005	0.0000	0.0001	0.0023			
Ce	0.0452	0.0054	0.0440	0.0111	0.0611			
Co	0.0400	0.0069	0.0433	0.0083	0.0048			
Cr	1.1609	0.2354	1.2689	0.2560	0.0012			
Cu	0.0314	0.0034	0.0472	0.0098	0.0057			
Dy	0.0056	0.0001	0.0055	0.0013	0.0074			
Eu	0.0020	0.0001	0.0020	0.0006	0.0024			
Fe	0.5158	0.1105	0.5573	0.1165	0.0102			
K	11.0015	2.0840	11.7693	2.4570	1.7989			
La	0.0101	0.0013	0.0112	0.0031	0.0134			
Li	0.2061	0.0424	0.0637	0.0136	0.0067			
Mg	0.0257	0.0279	0.0331	0.0377	0.2515			
Mn	0.0016	0.0004	0.0015	0.0006	0.0008			
Mo	0.0602	0.0088	0.0652	0.0116	0.0014			
Na	1463.0311	316.3893	1644.4178	352.7598	0.3893			
Nd	0.0376	0.0035	0.0379	0.0113	0.0515			
Ni	1.2087	0.2412	1.3414	0.2641	0.0027			
P	48.8565	9.5053	53.6272	10.3654	0.2544			
Pb	0.0603	0.0136	0.0701	0.0291	0.0296			
Pd	0.1001	0.0049	0.1009	0.0245	0.1404			
Rh	0.0519	0.0045	0.0510	0.0118	0.0610			
Sb	0.0126	-0.0024	0.0165	0.0049	0.0134			
Se	0.0402	-0.0024	0.0219	0.0128	0.0232			
Si	1.1102	0.3046	0.9698	0.3018	0.1000			
Sn	0.1832	0.0110	0.1920	0.0264	0.1361			
Sr	0.0012	0.0018	0.0011	0.0019	0.0040			
Te	0.0217	-0.0032	0.0219	0.0010	0.0207			
Th	0.0015	-0.0058	-0.0029	0.0028	-0.0054			
Ti	0.0023	0.0001	0.0024	0.0007	0.0034			
Tl	0.2319	0.0424	0.2448	0.0513	0.0126			
U	0.6081	0.0405	0.5732	0.1332	0.7738			
V	0.0478	0.0093	0.0481	0.0097	0.0055			
W	0.3298	0.0626	0.3536	0.0648	0.0089			
Y	0.0020	-0.0002	0.0020	0.0000	0.0027			
Zn	0.0034	0.0242	0.0036	0.0245	0.0023			
Zr	0.0036	0.0013	0.0041	0.0004	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195f

Analyte	Seg 3A 95-7944-C1-Sam ug/g	95-7944-C1-Sam@5x ug/g	%D	Seg 3A 95-7944-C2-Sam ug/g	95-7944-C2-Sam@5x ug/g	%D	Average ug/mL	RPD	20% Flg	95-7941-C3 Batch Blk ug/g	**Estimated** IDL ug/mL	MDL ug/mL
Samp Log#:	95-7944-C1-Sam	95-7944-C1-Sam@5x		95-7944-C2-Sam	95-7944-C2-Sam@5x							
Run Time:	15:01	14:57		15:09	15:05					13:49		
Dil Fctr:	97.83	489.14		106.43	532.16					101.95		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	10,292.0	10,595.4	3%	9,054.9	9,042.8	0%	9,673.4	13%	*	ND	0.060	0.6000
As	(34.3)	ND		(28.8)	ND		---			ND	0.080	0.8000
B	(8.7)	ND		(14.4)	(11.6)		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	105.4	249.9		65.6	(233.6)		85.5	47%	*	81.2	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(3.1)	ND		(3.0)	ND		---			ND	0.010	0.1000
Cr	104.6	108.8	4%	91.6	(93.4)		98.1	13%	*	ND	0.020	0.2000
Cu	(2.7)	ND		(3.1)	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	43.2	(46.9)		36.5	(41.3)		39.9	17%	*	ND	0.020	0.2000
K	(868.6)	ND		(854.0)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	(5.6)	ND		(5.2)	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(25.6)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.5)	ND		(5.1)	ND		---			ND	0.030	0.3000
Na	OvrRng	194,164.7		OvrRng	194,214.8		194,189.7	0%		(39.7)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.2)	0.050	0.5000
Ni	78.3	(79.7)		69.5	(69.6)		73.9	12%	*	ND	0.030	0.3000
P	2,547.2	2,483.6	2%	3,154.1	3,036.8	4%	2,850.7	21%	*	(25.9)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	(67.5)	ND		(69.4)	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.5)	ND		(0.9)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(2.8)	ND		(3.7)	ND		---			ND	0.010	0.1000
W	(263.8)	(256.4)		(231.0)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/950254a

ICP RAW DATA --- IEC Corrected

File: m091195f
Reported: 09/15/09
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7944-	C1-Sam@5x 95-7944-	C2-Sam 95-7944-	C2-Sam@5x 95-7944-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:01	14:57	15:09	15:05	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0026	-0.0008	0.0010	0.0012	0.0069			
Al	105.2056	21.6614	85.0769	16.9926	0.0324			
As	0.3508	0.0682	0.2702	0.0538	0.0120			
B	0.0889	0.0122	0.1350	0.0217	0.0089			
Ba	0.0006	0.0002	0.0011	0.0005	0.0024			
Be	0.0001	-0.0001	0.0001	-0.0000	0.0002			
Bi	0.0180	0.0043	0.0173	0.0076	0.0191			
Ca	1.0779	0.5110	0.6168	0.4390	0.7969			
Cd	-0.0009	0.0004	-0.0011	-0.0001	0.0023			
Ce	0.0087	0.0037	0.0263	0.0108	0.0611			
Co	0.0318	0.0066	0.0280	0.0063	0.0048			
Cr	1.0694	0.2224	0.8603	0.1754	0.0012			
Cu	0.0278	0.0035	0.0295	0.0031	0.0057			
Dy	0.0011	0.0003	0.0037	0.0017	0.0074			
Eu	0.0007	0.0002	0.0015	0.0007	0.0024			
Fe	0.4411	0.0959	0.3434	0.0776	0.0102			
K	8.8791	1.9140	8.0236	1.8701	1.7989			
La	0.0032	0.0011	0.0074	0.0033	0.0134			
Li	0.0571	0.0120	0.0489	0.0109	0.0067			
Mg	0.0936	0.0308	0.0446	0.0360	0.2515			
Mn	0.0011	0.0003	0.0009	0.0004	0.0008			
Mo	0.0564	0.0108	0.0479	0.0098	0.0014			
Na	1777.1881	396.9537	1685.9541	364.9560	0.3893			
Nd	0.0070	0.0051	0.0257	0.0124	0.0515			
Ni	0.8000	0.1629	0.6529	0.1308	0.0027			
P	26.0378	5.0776	29.6348	5.7066	0.2544			
Pb	0.0247	-0.0003	0.0492	0.0142	0.0296			
Pd	0.0134	0.0081	0.0629	0.0331	0.1404			
Rh	0.0073	0.0020	0.0301	0.0149	0.0610			
Sb	0.0024	-0.0028	0.0074	-0.0000	0.0134			
Se	0.0558	0.0131	0.0428	0.0125	0.0232			
Si	0.6896	0.2294	0.6523	0.2137	0.1000			
Sn	0.0469	0.0176	0.1091	0.0317	0.1361			
Sr	0.0152	0.0042	0.0086	0.0042	0.0040			
Te	0.0007	-0.0019	0.0152	0.0084	0.0207			
Th	-0.0037	-0.0022	-0.0051	0.0015	-0.0054			
Ti	0.0002	-0.0000	0.0016	0.0009	0.0034			
Tl	0.2954	0.0572	0.2344	0.0575	0.0126			
U	0.3767	0.1116	0.5651	0.2421	0.7738			
V	0.0282	0.0057	0.0346	0.0079	0.0055			
W	2.6970	0.5243	2.1703	0.4160	0.0089			
Y	0.0000	-0.0003	0.0011	0.0003	0.0027			
Zn	0.0058	0.0095	0.0023	0.0061	0.0023			
Zr	0.0002	0.0003	0.0024	0.0010	0.0055			

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thm 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195f
Reported: 09/15/09
ICP File: 950254a
Data Page 2 of 2

Sample Log# / ID	95-7944-C1-Sam	95-7944-C1-Sam@5x	95-7944-C2-Sam	95-7944-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.5242	0.5242	0.4823	0.4823	0.5033			
Final Vol-mL	51.3	51.3	51.3	51.3	51.3			
Prep Factor	97.83	97.83	106.43	106.43	101.95			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	97.83	489.14	106.43	532.16	101.95			
ICP Run #	15:01	14:57	15:09	15:05	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.254	-0.367	0.107	0.612	0.699			
Al	10291.989	10595.392	9054.897	9042.789	3.304			
As	34.316	33.374	28.756	28.614	1.227			
B	8.695	5.967	14.373	11.559	0.904			
Ba	0.061	0.113	0.116	0.287	0.249			
Be	0.005	-0.024	0.010	-0.011	0.017			
Bi	1.763	2.089	1.837	4.066	1.950			
Ca	105.446	249.924	65.649	233.597	81.240			
Cd	-0.084	0.186	-0.120	-0.032	0.231			
Ce	0.847	1.820	2.801	5.721	6.230			
Co	3.112	3.228	2.980	3.326	0.490			
Cr	104.620	108.784	91.561	93.362	0.125			
Cu	2.721	1.697	3.140	1.644	0.585			
Dy	0.108	0.147	0.395	0.889	0.759			
Eu	0.064	0.083	0.154	0.394	0.245			
Fe	43.157	46.923	36.546	41.290	1.036			
K	868.620	936.218	853.962	995.218	183.394			
La	0.311	0.553	0.783	1.745	1.369			
Li	5.583	5.860	5.205	5.822	0.683			
Mg	9.160	15.041	4.750	19.158	25.642			
Mn	0.108	0.142	0.100	0.218	0.086			
Mo	5.519	5.288	5.093	5.194	0.143			
Na	173857.614	194164.655	179439.279	194214.793	39.691			
Nd	0.684	2.509	2.730	6.572	5.247			
Ni	78.261	79.671	69.486	69.596	0.273			
P	2547.208	2483.641	3154.092	3036.848	25.932			
Pb	2.417	-0.161	5.232	7.535	3.019			
Pd	1.310	3.938	6.696	17.636	14.319			
Rh	0.711	0.954	3.200	7.903	6.214			
Sb	0.231	-1.350	0.784	-0.005	1.368			
Se	5.461	6.388	4.554	6.647	2.363			
Si	67.464	112.228	69.426	113.712	10.196			
Sn	4.587	8.628	11.610	16.853	13.876			
Sr	1.484	2.040	0.910	2.214	0.412			
Te	0.064	-0.929	1.615	4.465	2.112			
Th	-0.364	-1.061	-0.545	0.814	-0.545			
Ti	0.019	-0.020	0.167	0.500	0.342			
Tl	28.897	27.954	24.950	30.573	1.288			
U	36.856	54.578	60.145	128.841	78.889			
V	2.760	2.764	3.683	4.215	0.564			
W	263.837	256.435	230.987	221.378	0.908			
Y	0.003	-0.147	0.114	0.181	0.271			
Zn	0.570	4.637	0.243	3.251	0.233			
Zr	0.023	0.152	0.253	0.527	0.558			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Analyze Date: 09/11/95
File: m091195g

Core 99

Samp Log#:	Seg 4A 95-7945-C1-Sam	95-7945-C1-Sam@5x		Seg 4A 95-7945-C2-Sam	95-7945-C2-Sam@5x					95-7941-C3 Batch Blk	**Estimated**	
Run Time:	15:28	15:25		15:36	15:32					13:49		
Dil Fctr:	105.43	527.16		73.18	365.90					86.63		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Analyte	<--Sample--> ug/g	ug/g	%D	<--Duplicate--> ug/g	ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	8,008.7	8,012.1	0%	5,946.4	6,199.2	4%	6,977.5	30%	*	ND	0.060	0.6000
As	(21.4)	ND		(22.1)	ND		---			ND	0.080	0.8000
B	(9.5)	ND		(11.4)	(9.0)		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(43.5)	(80.1)		(27.4)	(67.0)		---			69.0	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	(8.1)	(6.6)		(6.1)	(5.2)		---			ND	0.010	0.1000
Cr	69.4	(67.7)		51.4	(52.6)		60.4	30%	*	ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	407.3	412.2	1%	284.3	297.9	5%	345.8	36%	*	ND	0.020	0.2000
K	(1,052.4)	ND		(782.6)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(21.8)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(5.0)	ND		(3.8)	ND		---			ND	0.030	0.3000
Na	OvrRng	152,083.3		OvrRng	150,451.7		151,267.5	1%		(33.7)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.5)	0.050	0.5000
Ni	581.9	586.4	1%	355.4	369.3	4%	468.6	48%	*	ND	0.030	0.3000
P	6,956.6	6,664.3	4%	4,065.3	3,999.2	2%	5,510.9	52%	*	(22.0)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(2.9)	(3.5)		(0.7)	ND		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	(1.3)	ND		(0.8)	ND		---			ND	0.010	0.1000
W	(62.1)	ND		(46.7)	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195g
Reported: 09/11/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7945-	95-7945-	95-7945-	95-7945-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:28	15:25	15:36	15:32	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0000	-0.0030	-0.0007	-0.0037	0.0069			
Al	75.9615	15.1987	81.2569	16.9422	0.0324			
As	0.2026	0.0288	0.3015	0.0536	0.0120			
B	0.0903	0.0096	0.1555	0.0245	0.0089			
Ba	0.0004	-0.0006	0.0003	-0.0006	0.0024			
Be	0.0000	-0.0001	0.0000	-0.0001	0.0002			
Bi	0.0099	-0.0049	0.0209	-0.0085	0.0191			
Ca	0.4126	0.1519	0.3748	0.1832	0.7969			
Cd	-0.0003	-0.0010	-0.0014	-0.0006	0.0023			
Ce	0.0034	-0.0035	0.0065	-0.0193	0.0611			
Co	0.0771	0.0126	0.0838	0.0142	0.0048			
Cr	0.6583	0.1284	0.7028	0.1438	0.0012			
Cu	-0.0010	-0.0057	-0.0027	-0.0072	0.0057			
Dy	0.0007	-0.0027	0.0000	-0.0030	0.0074			
Eu	0.0005	-0.0008	0.0005	-0.0009	0.0024			
Fe	3.8636	0.7820	3.8845	0.8141	0.0102			
K	9.9815	1.5082	10.6944	1.5959	1.7989			
La	0.0017	-0.0041	0.0011	-0.0053	0.0134			
Li	0.0018	-0.0014	0.0033	-0.0022	0.0067			
Mg	0.0680	-0.0027	0.0569	-0.0074	0.2515			
Mn	0.0010	-0.0001	0.0008	-0.0002	0.0008			
Mo	0.0471	0.0061	0.0520	0.0069	0.0014			
Na	1332.0570	288.4978	1815.8955	411.1821	0.3893			
Nd	0.0057	-0.0161	0.0024	-0.0178	0.0515			
Ni	5.5194	1.1124	4.8562	1.0092	0.0027			
P	65.9819	12.6421	55.5526	10.9297	0.2544			
Pb	0.0012	-0.0176	0.0110	-0.0230	0.0296			
Pd	0.0066	-0.0533	-0.0069	-0.0622	0.1404			
Rh	0.0186	-0.0210	0.0157	-0.0245	0.0610			
Sb	0.0003	-0.0222	0.0074	-0.0071	0.0134			
Se	0.0425	-0.0050	0.0538	0.0087	0.0232			
Si	0.3546	0.1266	0.3779	0.1375	0.1000			
Sn	0.0127	-0.1006	0.0195	-0.1176	0.1361			
Sr	0.0271	0.0067	0.0094	0.0022	0.0040			
Te	0.0109	-0.0137	0.0084	-0.0169	0.0207			
Th	0.0026	-0.0033	0.0052	-0.0042	-0.0054			
Ti	0.0003	-0.0011	0.0002	-0.0012	0.0034			
Tl	0.1995	0.0383	0.2455	0.0425	0.0126			
U	0.2979	-0.2280	0.5859	-0.1433	0.7738			
V	0.0124	0.0004	0.0106	-0.0002	0.0055			
W	0.5893	0.1004	0.6381	0.1130	0.0089			
Y	-0.0001	-0.0014	-0.0003	-0.0019	0.0027			
Zn	-0.0011	0.0007	0.0006	0.0019	0.0023			
Zr	-0.0002	-0.0013	-0.0010	-0.0024	0.0055			

LAD 12-19-95

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MW Thu 9/9/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195g
Reported: 09/11/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log#	95-7945-C1-Sam	95-7945-C1-Sam@5x	95-7945-C2-Sam	95-7945-C2-Sam@5x	95-7941-C3 Batch Blk			
ID								Post Spk
Sample Wt-g	0.4889	0.4889	0.6835	0.6835	0.5862			
Final Vol-mL	51.5	51.5	50.0	50.0	50.8			
Prep Factor	105.43	105.43	73.18	73.18	86.63			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	105.43	527.16	73.18	365.90	86.63			
ICP Run #	15:28	15:25	15:36	15:32	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.004	-1.560	-0.050	-1.347	0.594			
Al	8008.710	8012.078	5946.385	6199.163	2.808			
As	21.359	15.177	22.064	19.623	1.043			
B	9.523	5.082	11.377	8.961	0.768			
Ba	0.044	-0.332	0.019	-0.216	0.211			
Be	0.002	-0.053	0.000	-0.044	0.015			
Bi	1.048	-2.583	1.531	-3.121	1.657			
Ca	43.500	80.080	27.425	67.033	69.031			
Cd	-0.035	-0.527	-0.102	-0.205	0.197			
Ce	0.355	-1.845	0.475	-7.066	5.294			
Co	8.125	6.642	6.132	5.188	0.417			
Cr	69.404	67.708	51.433	52.613	0.107			
Cu	-0.100	-2.984	-0.201	-2.631	0.497			
Dy	0.074	-1.439	0.002	-1.090	0.645			
Eu	0.047	-0.416	0.039	-0.344	0.208			
Fe	407.341	412.231	284.267	297.865	0.880			
K	1052.357	795.046	782.619	583.952	155.833			
La	0.180	-2.146	0.078	-1.954	1.163			
Li	0.189	-0.738	0.241	-0.809	0.580			
Mg	7.174	-1.408	4.161	-2.704	21.788			
Mn	0.104	-0.042	0.061	-0.059	0.073			
Mo	4.963	3.210	3.805	2.517	0.121			
Na	140440.331	152083.322	132887.419	150451.726	33.726			
Nd	0.601	-8.498	0.173	-6.509	4.459			
Ni	581.915	586.429	355.379	369.267	0.232			
P	6956.554	6664.347	4065.345	3999.183	22.035			
Pb	0.121	-9.273	0.804	-8.405	2.565			
Pd	0.694	-28.113	-0.501	-22.759	12.167			
Rh	1.959	-11.060	1.146	-8.965	5.280			
Sb	0.031	-11.687	0.544	-2.580	1.163			
Se	4.484	-2.631	3.934	3.165	2.008			
Si	37.383	66.727	27.651	50.300	8.664			
Sn	1.334	-53.042	1.425	-43.045	11.791			
Sr	2.860	3.532	0.687	0.805	0.350			
Te	1.146	-7.217	0.612	-6.198	1.795			
Th	0.276	-1.719	0.377	-1.529	-0.463			
Ti	0.030	-0.559	0.012	-0.428	0.290			
Tl	21.030	20.206	17.965	15.551	1.094			
U	31.405	-120.170	42.876	-52.423	67.034			
V	1.302	0.200	0.774	-0.077	0.479			
W	62.131	52.932	46.695	41.361	0.772			
Y	-0.008	-0.749	-0.024	-0.684	0.230			
Zn	-0.113	0.343	0.041	0.695	0.198			
Zr	-0.017	-0.685	-0.075	-0.878	0.474			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> Only|

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195h

Samp Log#:	Seg 4B 95-7946-C1-Sam	95-7946-C1-Sam@5x		Seg 4B 95-7946-C2-Sam	95-7946-C2-Sam@5x					95-7941-C3 Batch Blk		
Run Time:	15:44	15:40		15:51	15:47					13:49		
Dil Fctr:	125.46	627.31		90.95	454.76					105.28		
ICP Dil:	1.00	5.00		1.00	5.00					1.00	**Estimated**	
Analyte	Sample ug/g	Sample ug/g	%D	Duplicate ug/g	Duplicate ug/g	%D	Average ug/mL	RPD	20% Flg	<-Blank-> ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	6,580.1	6,599.5	0%	5,897.6	5,860.7	1%	6,238.9	11%	*	ND	0.060	0.6000
As	(16.2)	ND		(14.5)	ND		---			ND	0.080	0.8000
B	(12.3)	ND		(11.2)	ND		---			ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(21.5)	343.1		(14.2)	335.2		---			83.9	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	13.8	(13.8)		12.5	(12.9)		13.1	10%		ND	0.010	0.1000
Cr	73.9	(73.3)		68.2	(68.9)		71.1	8%		ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	486.4	497.7	2%	434.0	445.5	3%	460.2	11%	*	ND	0.020	0.2000
K	(1,355.5)	ND		(1,251.0)	(1,331.8)		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(26.5)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(4.4)	ND		(4.2)	ND		---			ND	0.030	0.3000
Na	103,587.5	110,110.0	6%	OvrRng	107,796.7		108,953.4	2%		(41.0)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.4)	0.050	0.5000
Ni	921.1	936.7	2%	740.4	748.6	1%	830.7	22%	*	ND	0.030	0.3000
P	10,239.4	9,957.4	3%	14,479.4	13,966.0	4%	12,359.4	34%	*	(26.8)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(3.3)	(5.9)		(2.1)	(9.5)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

Analyze Date: 09/11/95 Analyst: D SANDERS
Project: TWRS Reviewer: MD Thru 9/19/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m091195h
Reported: 09/15/95
ICP File: 95D254a
Data Page 2 of 2

Sample Log# / ID	95-7946-C1-Sam	95-7946-C1-Sam@5x	95-7946-C2-Sam	95-7946-C2-Sam@5x	95-7941-C3 Batch Blk		Post Spk	
Sample Wt-g	0.3985	0.3985	0.5613	0.5613	0.4799			
Final Vol-mL	50.0	50.0	51.1	51.1	50.5			
Prep Factor	125.46	125.46	90.95	90.95	105.28			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	125.46	627.31	90.95	454.76	105.28			
ICP Run #	15:44	15:40	15:51	15:47	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	0.227	-1.060	0.360	0.359	0.722			
Al	6580.114	6599.453	5897.590	5860.668	3.412			
As	16.234	19.999	14.491	15.862	1.268			
B	12.264	7.716	11.178	7.649	0.934			
Ba	0.147	-0.019	0.160	0.464	0.257			
Be	0.009	-0.044	0.013	0.000	0.018			
Bi	2.817	-0.878	2.508	5.507	2.014			
Ca	21.531	343.147	14.163	335.203	83.894			
Cd	0.089	-0.263	0.208	0.027	0.239			
Ce	1.792	-6.612	2.599	2.815	6.434			
Co	13.810	13.820	12.479	12.938	0.506			
Cr	73.930	73.295	68.217	68.865	0.129			
Cu	-0.245	-3.312	0.113	-1.237	0.604			
Dy	0.294	-0.828	0.418	0.682	0.783			
Eu	0.099	-0.226	0.147	0.173	0.253			
Fe	486.391	497.742	433.963	445.460	1.070			
K	1355.513	1173.171	1251.028	1331.833	189.385			
La	0.380	-1.656	0.717	0.759	1.414			
Li	0.257	-0.251	0.418	0.223	0.705			
Mg	5.297	7.070	5.066	18.977	26.479			
Mn	0.130	0.144	0.127	0.327	0.088			
Mo	4.385	3.005	4.248	3.115	0.147			
Na	103587.521	110109.992	101545.700	107796.714	40.988			
Nd	1.721	-4.617	2.311	4.861	5.419			
Ni	921.083	936.717	740.381	748.611	0.282			
P	10239.434	9957.400	14479.387	13966.005	26.779			
Pb	1.646	-10.181	2.301	-0.659	3.117			
Pd	3.977	-15.482	6.490	6.617	14.787			
Rh	4.963	-4.604	5.598	6.148	6.417			
Sb	0.104	-3.613	0.998	-3.233	1.413			
Se	2.502	-1.857	3.575	5.343	2.440			
Si	18.609	20.080	15.846	10.155	10.529			
Sn	4.863	-23.399	10.675	0.755	14.330			
Sr	3.316	5.859	2.074	9.477	0.425			
Te	2.090	-6.769	4.335	0.523	2.181			
Th	0.824	-1.449	0.871	0.491	-0.563			
Ti	0.120	-0.270	0.168	0.182	0.353			
Tl	17.745	22.263	16.546	18.668	1.330			
U	69.981	-28.863	68.796	131.786	81.467			
V	0.391	-0.458	0.527	0.696	0.582			
W	11.083	5.821	10.496	6.817	0.938			
Y	0.050	-0.640	0.128	0.045	0.280			
Zn	-0.458	5.370	-0.163	5.303	0.241			
Zr	0.077	-0.878	0.216	0.177	0.576			

|<----------Adjusted for process dilution factor----------> |<ICP Dil> < Only >|

ICP RAW DATA --- IEC Corrected

File: m091195h
Reported: 09/15/95

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

Sample ID:	C1-Sam 95-7946-	C1-Sam@5x 95-7946-	C2-Sam 95-7946-	C2-Sam@5x 95-7946-	Batch Blk 95-7941-C3			Post Spk
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	15:44	15:40	15:51	15:47	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0018	-0.0017	0.0040	0.0008	0.0069			
Al	52.4468	10.5202	64.8422	12.8872	0.0324			
As	0.1294	0.0319	0.1593	0.0349	0.0120			
B	0.0978	0.0123	0.1229	0.0168	0.0089			
Ba	0.0012	-0.0000	0.0018	0.0010	0.0024			
Be	0.0001	-0.0001	0.0001	0.0000	0.0002			
Bi	0.0225	-0.0014	0.0276	0.0121	0.0191			
Ca	0.1716	0.5470	0.1557	0.7371	0.7969			
Cd	0.0007	-0.0004	0.0023	0.0001	0.0023			
Ce	0.0143	-0.0105	0.0286	0.0062	0.0611			
Co	0.1101	0.0220	0.1372	0.0285	0.0048			
Cr	0.5893	0.1168	0.7500	0.1514	0.0012			
Cu	-0.0020	-0.0053	0.0012	-0.0027	0.0057			
Dy	0.0023	-0.0013	0.0046	0.0015	0.0074			
Eu	0.0008	-0.0004	0.0016	0.0004	0.0024			
Fe	3.8768	0.7934	4.7713	0.9795	0.0102			
K	10.8041	1.8701	13.7547	2.9286	1.7989			
La	0.0030	-0.0026	0.0079	0.0017	0.0134			
Li	0.0021	-0.0004	0.0046	0.0005	0.0067			
Mg	0.0422	0.0113	0.0557	0.0417	0.2515			
Mn	0.0010	0.0002	0.0014	0.0007	0.0008			
Mo	0.0350	0.0048	0.0467	0.0069	0.0014			
Na	825.6437	175.5262	1116.4639	237.0384	0.3893			
Nd	0.0137	-0.0074	0.0254	0.0107	0.0515			
Ni	7.3415	1.4932	8.1403	1.6462	0.0027			
P	81.6133	15.8731	159.1964	30.7104	0.2544			
Pb	0.0131	-0.0162	0.0253	-0.0015	0.0296			
Pd	0.0317	-0.0247	0.0714	0.0146	0.1404			
Rh	0.0396	-0.0073	0.0616	0.0135	0.0610			
Sb	0.0008	-0.0058	0.0110	-0.0071	0.0134			
Se	0.0199	-0.0030	0.0393	0.0118	0.0232			
Si	0.1483	0.0320	0.1742	0.0223	0.1000			
Sn	0.0388	-0.0373	0.1174	0.0017	0.1361			
Sr	0.0264	0.0093	0.0228	0.0208	0.0040			
Te	0.0167	-0.0108	0.0477	0.0012	0.0207			
Th	0.0066	-0.0023	0.0096	0.0011	-0.0054			
Ti	0.0010	-0.0004	0.0019	0.0004	0.0034			
Tl	0.1414	0.0355	0.1819	0.0411	0.0126			
U	0.5578	-0.0460	0.7564	0.2898	0.7738			
V	0.0031	-0.0007	0.0058	0.0015	0.0055			
W	0.0883	0.0093	0.1154	0.0150	0.0089			
Y	0.0004	-0.0010	0.0014	0.0001	0.0027			
Zn	-0.0037	0.0086	-0.0018	0.0117	0.0023			
Zr	0.0006	-0.0014	0.0024	0.0004	0.0055			

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**
Core 99

Analyze Date: 09/11/95
File: m091195i

Samp Log#:	Seg 4C 95-7947-C1-Sam	95-7947-C1-Sam@5x		Seg 4C 95-7947-C2-Sam	95-7947-C2-Sam@5x					95-7941-C3 Batch Blk	
Run Time:	16:08	16:04		16:16	16:11					13:49	
Dil Fctr:	109.48	547.40		96.62	483.10					102.67	
ICP Dil:	1.00	5.00		1.00	5.00					1.00	
	<---------Sample------->			<---------Duplicate------->			Average		20%	<-Blank->	**Estimated**
Analyte	ug/g	ug/g	%D	ug/g	ug/g	%D	ug/mL	RPD	Flg	ug/g	IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	5,041.3	5,121.2	2%	5,053.4	5,163.0	2%	5,047.4	0%		ND	0.060	0.6000
As	(21.2)	ND		(17.8)	ND		---			ND	0.080	0.8000
B	22.5	(17.9)		21.2	(18.2)		21.8	6%		ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(45.5)	(112.1)		101.1	(146.2)		---			81.8	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	12.6	(12.3)		12.2	(12.0)		12.4	4%		ND	0.010	0.1000
Cr	27.8	(27.3)		26.7	(27.4)		27.3	4%		ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	418.8	450.8	8%	455.8	491.3	8%	437.3	8%		ND	0.020	0.2000
K	(1,056.7)	ND		(1,108.0)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		(9.9)	ND		---			(25.8)	0.100	1.0000
Mn	ND	ND		(0.9)	ND		---			ND	0.005	0.0500
Mo	(3.9)	ND		(3.7)	ND		---			ND	0.030	0.3000
Na	OvrRng	145,639.7		OvrRng	147,319.0		146,479.3	1%		(40.0)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(5.3)	0.050	0.5000
Ni	1,032.9	1,049.6	2%	779.2	812.8	4%	906.0	28% *		ND	0.030	0.3000
P	21,705.1	21,017.8	3%	23,912.8	23,448.7	2%	22,808.9	10%		(26.1)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.6)	(2.8)		(4.0)	(5.1)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m0911951
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7947-	95-7947-	95-7947-	95-7947-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	16:08	16:04	16:16	16:11	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0001	-0.0015	-0.0007	-0.0027	0.0069			
Al	46.0478	9.3555	52.3017	10.6872	0.0324			
As	0.1937	0.0270	0.1839	0.0227	0.0120			
B	0.2051	0.0328	0.2197	0.0377	0.0089			
Ba	0.0007	-0.0001	0.0024	0.0001	0.0024			
Be	0.0000	-0.0001	0.0000	-0.0001	0.0002			
Bi	0.0276	0.0045	0.0387	0.0031	0.0191			
Ca	0.4154	0.2047	1.0467	0.3027	0.7969			
Cd	0.0004	-0.0002	-0.0001	0.0007	0.0023			
Ce	0.0070	-0.0053	-0.0019	-0.0155	0.0611			
Co	0.1152	0.0224	0.1259	0.0249	0.0048			
Cr	0.2539	0.0499	0.2765	0.0567	0.0012			
Cu	0.0063	-0.0031	0.0068	-0.0035	0.0057			
Dy	0.0011	-0.0011	-0.0001	-0.0018	0.0074			
Eu	0.0006	-0.0004	0.0003	-0.0005	0.0024			
Fe	3.8250	0.8236	4.7170	1.0170	0.0102			
K	9.6524	1.8318	11.4677	1.8208	1.7989			
La	0.0020	-0.0012	0.0004	-0.0031	0.0134			
Li	0.0031	-0.0003	0.0014	-0.0006	0.0067			
Mg	0.0448	0.0090	0.1030	0.0124	0.2515			
Mn	0.0036	0.0009	0.0095	0.0020	0.0008			
Mo	0.0353	0.0042	0.0379	0.0043	0.0014			
Na	1217.9319	266.0580	1414.9038	304.9434	0.3893			
Nd	0.0065	-0.0055	0.0020	-0.0112	0.0515			
Ni	9.4349	1.9174	8.0642	1.6825	0.0027			
P	198.2567	38.3958	247.4917	48.5378	0.2544			
Pb	0.0115	-0.0114	0.0272	-0.0166	0.0296			
Pd	0.0021	-0.0227	-0.0179	-0.0423	0.1404			
Rh	0.0312	-0.0054	0.0245	-0.0123	0.0610			
Sb	0.0133	-0.0102	0.0094	-0.0092	0.0134			
Se	0.0458	0.0046	0.0359	0.0071	0.0232			
Si	0.3257	0.0714	0.3540	0.0443	0.1000			
Sn	0.0009	-0.0598	0.0050	-0.0661	0.1361			
Sr	0.0146	0.0052	0.0409	0.0105	0.0040			
Te	0.0568	-0.0056	0.0543	-0.0038	0.0207			
Th	0.0089	-0.0042	0.0144	0.0032	-0.0054			
Ti	0.0007	-0.0003	0.0006	-0.0008	0.0034			
Tl	0.1676	0.0218	0.1570	0.0308	0.0126			
U	0.4790	-0.0309	0.7448	-0.0805	0.7738			
V	0.0052	0.0001	0.0053	-0.0007	0.0055			
W	0.0907	0.0107	0.0879	0.0069	0.0089			
Y	0.0001	-0.0007	-0.0000	-0.0010	0.0027			
Zn	0.0001	0.0032	0.0056	0.0025	0.0023			
Zr	0.0004	0.0008	0.0001	-0.0022	0.0055			

Analyze Date: 09/11/95 | Analyst: D SANDERS
Project: TWRS | Reviewer: MD Thom 9/14/95
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m0911951
Reported: 09/15/95
ICP File: 950254a
Data Page 2 of 2

Sample Log# / ID	95-7947-C1-Sam	95-7947-C1-Sam@5x	95-7947-C2-Sam	95-7947-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.4616	0.4616	0.5202	0.5202	0.4909			
Final Vol-mL	50.5	50.5	50.3	50.3	50.4			
Prep Factor	109.48	109.48	96.62	96.62	102.67			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	109.48	547.40	96.62	483.10	102.67			
ICP Run #	16:08	16:04	16:16	16:11	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.010	-0.794	-0.070	-1.309	0.704			
Al	5041.294	5121.195	5053.421	5163.024	3.327			
As	21.211	14.752	17.766	10.966	1.236			
B	22.459	17.944	21.226	18.208	0.911			
Ba	0.077	-0.038	0.228	0.058	0.251			
Be	0.002	-0.055	0.003	-0.034	0.017			
Bi	3.017	2.474	3.736	1.488	1.964			
Ca	45.477	112.074	101.129	146.216	81.811			
Cd	0.048	-0.082	-0.007	0.357	0.233			
Ce	0.771	-2.890	-0.181	-7.488	6.274			
Co	12.608	12.262	12.164	12.010	0.494			
Cr	27.801	27.315	26.718	27.411	0.126			
Cu	0.693	-1.708	0.654	-1.667	0.589			
Dy	0.116	-0.597	-0.007	-0.889	0.764			
Eu	0.061	-0.203	0.029	-0.246	0.246			
Fe	418.764	450.815	455.755	491.330	1.043			
K	1056.741	1002.702	1108.016	879.628	184.681			
La	0.215	-0.662	0.038	-1.473	1.379			
Li	0.336	-0.137	0.133	-0.295	0.688			
Mg	4.906	4.943	9.949	6.000	25.822			
Mn	0.399	0.515	0.915	0.986	0.086			
Mo	3.862	2.305	3.665	2.077	0.144			
Na	133338.739	145639.654	136708.756	147318.990	39.970			
Nd	0.707	-2.994	0.192	-5.420	5.284			
Ni	1032.926	1049.559	779.170	812.796	0.275			
P	21705.072	21017.807	23912.777	23448.730	26.114			
Pb	1.254	-6.262	2.628	-8.000	3.040			
Pd	0.234	-12.410	-1.728	-20.421	14.419			
Rh	3.418	-2.934	2.370	-5.947	6.258			
Sb	1.455	-5.556	0.907	-4.445	1.378			
Se	5.020	2.496	3.471	3.416	2.380			
Si	35.663	39.090	34.200	21.382	10.268			
Sn	0.096	-32.751	0.486	-31.948	13.974			
Sr	1.603	2.819	3.953	5.073	0.415			
Te	6.223	-3.087	5.246	-1.836	2.127			
Th	0.969	-2.288	1.395	1.527	-0.549			
Ti	0.074	-0.181	0.058	-0.367	0.344			
Tl	18.351	11.922	15.166	14.880	1.297			
U	52.442	-16.887	71.962	-38.885	79.443			
V	0.570	0.060	0.511	-0.338	0.568			
W	9.925	5.879	8.490	3.338	0.915			
Y	0.014	-0.389	-0.003	-0.473	0.273			
Zn	0.013	1.757	0.539	1.188	0.235			
Zr	0.048	0.454	0.012	-1.044	0.562			

|<----------Adjusted for process dilution factor----------> | <ICP Dil Only>

Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

ICP ANALYSIS REPORT
** Sample Results -- Water Leach**

Analyze Date: 09/11/95
File: m091195j

Core 99

Analyte	Seg 4D 95-7948-C1-Sam ug/g	95-7948-C1-Sam@5x ug/g	%D	Seg 4D 95-7948-C2-Sam ug/g	95-7948-C2-Sam@5x ug/g	%D	Average ug/mL	RPD	20% Flg	95-7941-C3 Batch Blk ug/g	**Estimated** IDL ug/mL	MDL ug/mL
Run Time:	16:24	16:20		16:31	16:27					13:49		
Dil Fctr:	104.60	523.01		78.36	391.79					89.59		
ICP Dil:	1.00	5.00		1.00	5.00					1.00		
Ag	ND	ND		ND	ND		---			ND	0.015	0.1500
Al	4,624.9	4,557.5	1%	3,772.7	4,013.7	6%	4,198.8	20%	*	ND	0.060	0.6000
As	(15.6)	ND		(22.6)	ND		---			ND	0.080	0.8000
B	21.8	(17.3)		19.5	(17.8)		20.7	11%	*	ND	0.020	0.2000
Ba	ND	ND		ND	ND		---			ND	0.010	0.1000
Be	ND	ND		ND	ND		---			ND	0.005	0.0500
Bi	ND	ND		ND	ND		---			ND	0.100	1.0000
Ca	(20.6)	(37.8)		(19.1)	(78.3)		---			71.4	0.050	0.5000
Cd	ND	ND		ND	ND		---			ND	0.015	0.1500
Ce	ND	ND		ND	ND		---			ND	0.100	1.0000
Co	11.9	(11.8)		9.4	(9.5)		10.7	23%	*	ND	0.010	0.1000
Cr	39.7	(39.9)		31.9	(33.7)		35.8	22%	*	ND	0.020	0.2000
Cu	ND	ND		ND	ND		---			ND	0.010	0.1000
Dy	ND	ND		ND	ND		---			ND	0.050	0.5000
Eu	ND	ND		ND	ND		---			ND	0.100	1.0000
Fe	337.6	368.6	9%	284.4	372.6	31%	311.0	17%	*	ND	0.020	0.2000
K	(1,021.7)	ND		(770.1)	ND		---			ND	2.000	20.0000
La	ND	ND		ND	ND		---			ND	0.050	0.5000
Li	ND	ND		ND	ND		---			ND	0.030	0.3000
Mg	ND	ND		ND	ND		---			(22.5)	0.100	1.0000
Mn	ND	ND		ND	ND		---			ND	0.005	0.0500
Mo	(3.2)	ND		(2.6)	ND		---			ND	0.030	0.3000
Na	OvrRng	146,846.4		OvrRng	174,822.3		160,834.3	18%	*	(34.9)	0.080	0.8000
Nd	ND	ND		ND	ND		---			(4.6)	0.050	0.5000
Ni	682.3	689.0	1%	532.9	576.4	8%	607.6	25%	*	ND	0.030	0.3000
P	27,364.1	26,081.0	5%	26,194.4	26,236.5	0%	26,779.3	4%		(22.8)	0.100	1.0000
Pb	ND	ND		ND	ND		---			ND	0.060	0.6000
Pd	ND	ND		ND	ND		---			ND	0.300	3.0000
Rh	ND	ND		ND	ND		---			ND	0.300	3.0000
Sb	ND	ND		ND	ND		---			ND	0.050	0.5000
Se	ND	ND		ND	ND		---			ND	0.100	1.0000
Si	ND	ND		ND	ND		---			ND	0.500	5.0000
Sn	ND	ND		ND	ND		---			ND	1.000	10.0000
Sr	(1.7)	(3.4)		(0.9)	(3.6)		---			ND	0.005	0.0500
Te	ND	ND		ND	ND		---			ND	0.500	5.0000
Th	ND	ND		ND	ND		---			ND	0.800	8.0000
Ti	ND	ND		ND	ND		---			ND	0.005	0.0500
Tl	ND	ND		ND	ND		---			ND	0.500	5.0000
U	ND	ND		ND	ND		---			ND	2.000	20.0000
V	ND	ND		ND	ND		---			ND	0.010	0.1000
W	ND	ND		ND	ND		---			ND	0.500	5.0000
Y	ND	ND		ND	ND		---			ND	0.010	0.1000
Zn	ND	ND		ND	ND		---			ND	0.020	0.2000
Zr	ND	ND		ND	ND		---			ND	0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If Percent Difference (%D) >10% and sample results >5X MDL, chemical/physical interferences may exist.
7) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D254a

ICP RAW DATA --- IEC Corrected

File: m091195j
Reported: 09/15/95
Data Page 1 of 2

Analyzed: 09/11/95
Project: TWRS
Procedure: PNL-ALO-211

	C1-Sam	C1-Sam@5x	C2-Sam	C2-Sam@5x	Batch Blk			Post Spk
Sample ID:	95-7948-	95-7948-	95-7948-	95-7948-	95-7941-C3			
ICP Dil:	1.00	5.00	1.00	5.00	1.00			
Run Time:	16:24	16:20	16:31	16:27	13:49			
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	-0.0011	-0.0019	-0.0042	-0.0036	0.0069			
Al	44.2142	8.7140	48.1476	10.2445	0.0324			
As	0.1496	0.0156	0.2878	0.0384	0.0120			
B	0.2089	0.0331	0.2489	0.0454	0.0089			
Ba	0.0009	0.0000	-0.0001	0.0003	0.0024			
Be	0.0000	-0.0000	-0.0001	-0.0000	0.0002			
Bi	0.0179	-0.0014	0.0083	0.0042	0.0191			
Ca	0.1966	0.0724	0.2434	0.2000	0.7969			
Cd	0.0006	-0.0003	-0.0015	0.0000	0.0023			
Ce	-0.0030	-0.0102	-0.0255	-0.0186	0.0611			
Co	0.1138	0.0226	0.1205	0.0244	0.0048			
Cr	0.3799	0.0762	0.4075	0.0861	0.0012			
Cu	0.0001	-0.0042	-0.0016	-0.0052	0.0057			
Dy	0.0001	-0.0011	-0.0036	-0.0026	0.0074			
Eu	0.0002	-0.0003	-0.0007	-0.0007	0.0024			
Fe	3.2274	0.7048	3.6299	0.9510	0.0102			
K	9.7676	1.6782	9.8279	1.8537	1.7989			
La	0.0000	-0.0030	-0.0058	-0.0048	0.0134			
Li	0.0016	-0.0004	-0.0007	-0.0016	0.0067			
Mg	0.0363	0.0102	0.0442	0.0372	0.2515			
Mn	0.0038	0.0013	0.0037	0.0028	0.0008			
Mo	0.0301	0.0041	0.0327	0.0033	0.0014			
Na	1320.0715	280.7725	1883.8762	446.2170	0.3893			
Nd	0.0025	-0.0081	-0.0218	-0.0156	0.0515			
Ni	6.5224	1.3175	6.8007	1.4712	0.0027			
P	261.6031	49.8673	334.2935	66.9662	0.2544			
Pb	0.0062	-0.0083	-0.0025	-0.0156	0.0296			
Pd	-0.0126	-0.0271	-0.0836	-0.0500	0.1404			
Rh	0.0199	-0.0095	-0.0076	-0.0191	0.0610			
Sb	0.0019	-0.0069	0.0058	-0.0089	0.0134			
Se	0.0273	-0.0088	0.0604	0.0015	0.0232			
Si	0.3483	0.0380	0.3603	0.0444	0.1000			
Sn	-0.0052	-0.0610	-0.0882	-0.0915	0.1361			
Sr	0.0162	0.0065	0.0110	0.0093	0.0040			
Te	0.0505	0.0036	0.0658	0.0022	0.0207			
Th	0.0096	-0.0024	0.0115	-0.0004	-0.0054			
Ti	-0.0000	-0.0003	-0.0013	-0.0009	0.0034			
Tl	0.1421	0.0242	0.1923	0.0310	0.0126			
U	0.4966	-0.0211	0.7818	-0.0147	0.7738			
V	0.0049	0.0001	0.0025	-0.0010	0.0055			
W	0.1121	0.0179	0.1356	0.0136	0.0089			
Y	-0.0004	-0.0008	-0.0021	-0.0014	0.0027			
Zn	0.0006	0.0009	0.0023	0.0020	0.0023			
Zr	-0.0010	-0.0013	-0.0044	-0.0025	0.0055			

Analyze Date: 09/11/95 | Analyst: D SANDERS | File: m091195j
Project: TWRS | Reviewer: MLO Thur 9/19/95 | Reported: 09/15/95
Procedure: PNL-ALO-211 | ICP File: 95D254a
M&TE: JA ICP WB73520 | Data Page 2 of 2

Sample Log# ID	95-7948-C1-Sam	95-7948-C1-Sam@5x	95-7948-C2-Sam	95-7948-C2-Sam@5x	95-7941-C3 Batch Blk			Post Spk
Sample Wt-g	0.4951	0.4951	0.6615	0.6615	0.5783			
Final Vol-mL	51.8	51.8	51.8	51.8	51.8			
Prep Factor	104.60	104.60	78.36	78.36	89.59			
Add'n Prep Dil	1.00	1.00	1.00	1.00	1.00			
Spike Vol-mL								
Spike Dilution								
Spike ID Date								
PSpk Dilution								
ICP Dilution	1.00	5.00	1.00	5.00	1.00			
Dil Factor	104.60	523.01	78.36	391.79	89.59			
ICP Run #	16:24	16:20	16:31	16:27	13:49			
Analyte ↓↓	ug/g	ug/g	ug/g	ug/g	ug/g	ug/mL	ug/mL	ug/mL
Ag	-0.116	-0.988	-0.327	-1.391	0.615			
Al	4624.880	4557.470	3772.728	4013.672	2.904			
As	15.647	8.169	22.552	15.049	1.079			
B	21.849	17.312	19.506	17.791	0.795			
Ba	0.097	0.021	-0.011	0.106	0.219			
Be	0.003	-0.021	-0.004	-0.016	0.015			
Bi	1.868	-0.711	0.653	1.634	1.714			
Ca	20.561	37.845	19.073	78.350	71.392			
Cd	0.065	-0.178	-0.120	0.000	0.203			
Ce	-0.318	-5.314	-1.998	-7.295	5.475			
Co	11.899	11.815	9.440	9.544	0.431			
Cr	39.740	39.864	31.931	33.725	0.110			
Cu	0.015	-2.186	-0.123	-2.041	0.514			
Dy	0.007	-0.565	-0.281	-1.026	0.667			
Eu	0.022	-0.162	-0.058	-0.274	0.215			
Fe	337.596	368.622	284.432	372.582	0.910			
K	1021.704	877.713	770.090	726.257	161.162			
La	0.003	-1.579	-0.454	-1.869	1.203			
Li	0.166	-0.183	-0.056	-0.643	0.600			
Mg	3.801	5.309	3.466	14.571	22.533			
Mn	0.401	0.664	0.286	1.077	0.075			
Mo	3.152	2.123	2.561	1.305	0.125			
Na	138081.722	146846.410	147615.870	174822.278	34.880			
Nd	0.266	-4.221	-1.706	-6.112	4.611			
Ni	682.255	689.048	532.884	576.398	0.240			
P	27364.132	26081.005	26194.413	26236.523	22.789			
Pb	0.650	-4.357	-0.197	-6.120	2.653			
Pd	-1.318	-14.168	-6.553	-19.585	12.583			
Rh	2.082	-4.974	-0.596	-7.495	5.461			
Sb	0.200	-3.598	0.451	-3.471	1.202			
Se	2.855	-4.597	4.735	0.592	2.077			
Si	36.436	19.895	28.232	17.407	8.960			
Sn	-0.541	-31.904	-6.908	-35.860	12.194			
Sr	1.691	3.373	0.862	3.628	0.362			
Te	5.279	1.862	5.154	0.870	1.856			
Th	1.000	-1.266	0.903	-0.153	-0.479			
Ti	-0.001	-0.178	-0.098	-0.353	0.300			
Tl	14.865	12.631	15.071	12.126	1.132			
U	51.948	-11.056	61.261	-5.771	69.326			
V	0.515	0.026	0.197	-0.388	0.495			
W	11.728	9.357	10.621	5.309	0.798			
Y	-0.039	-0.418	-0.167	-0.556	0.238			
Zn	0.062	0.476	0.178	0.787	0.205			
Zr	-0.105	-0.659	-0.342	-0.995	0.490			

|<----------Adjusted for process dilution factor----------> |<ICP Dil Only>|

								CCV1 950713H901	1 950713H901
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for "CCV1 950713H901"								10:07	17:07
(HPS:CCV-1)								CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	1891	1936
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag		2	0.002	0.002	67			0.001	0.003
Al	2.000	2	1.886	0.009	0	-0.114	-5.7	1.893	1.880
As	2.000	2	2.016	0.007	0	0.016	0.8	2.011	2.021
B	2.000	2	1.913	0.018	1	-0.087	-4.4	1.925	1.900
Ba	1.000	2	0.989	0.011	1	-0.011	-1.1	0.997	0.981
Be	1.000	2	0.962	0.005	0	-0.038	-3.8	0.965	0.959
Bi	2.000	2	1.897	0.013	1	-0.103	-5.2	1.906	1.888
Ca	2.000	2	1.922	0.015	1	-0.078	-3.9	1.933	1.911
Cd	1.000	2	0.977	0.015	2	-0.023	-2.3	0.987	0.966
Ce		2	0.020	0.014	67			0.011	0.030
Co	1.000	2	1.038	0.015	1	0.038	3.8	1.048	1.027
Cr	0.500	2	0.517	0.012	2	0.017	3.5	0.526	0.509
Cu	2.000	2	2.008	0.018	1	0.008	0.4	2.021	1.996
Dy		2	0.002	0.002	86			0.001	0.004
Eu		2	0.001	0.001	56			0.001	0.002
Fe	2.000	2	2.004	0.035	2	0.004	0.2	2.029	1.980
K	5.000	2	5.321	0.577	11	0.321	6.4	4.913	5.729
La		2	0.005	0.005	97			0.002	0.008
Li	2.000	2	1.892	0.023	1	-0.108	-5.4	1.876	1.908
Mg	2.000	2	2.089	0.025	1	0.089	4.5	2.107	2.071
Mn	1.000	2	1.010	0.015	1	0.010	1.0	1.021	1.000
Mo	2.000	2	1.994	0.033	2	-0.006	-0.3	2.017	1.971
Na	8.100	2	7.911	0.467	6	-0.189	-2.3	7.581	8.241
Nd		2	0.017	0.013	75			0.008	0.026
Ni	2.000	2	2.102	0.017	1	0.102	5.1	2.114	2.090
P	5.000	2	4.783	0.107	2	-0.217	-4.3	4.859	4.707
Pb	2.000	2	2.074	0.034	2	0.074	3.7	2.098	2.050
Pd		2	0.040	0.032	82			0.017	0.062
Rh		2	0.020	0.017	86			0.008	0.032
Sb		2	-0.002	0.014	-886			-0.011	0.008
Se	2.000	2	1.949	0.012	1	-0.051	-2.5	1.958	1.941
Si	5.000	2	4.731	0.257	5	-0.269	-5.4	4.549	4.913
Sn		2	0.067	0.043	64			0.037	0.096
Sr	2.000	2	2.010	0.017	1	0.010	0.5	2.022	1.998
Te		2	-0.004	0.002	-49			-0.006	-0.003
Th		2	0.010	0.001	10			0.009	0.011
Tl		2	0.001	0.001	92			0.000	0.002
Tl	2.000	2	1.932	0.021	1	-0.068	-3.4	1.917	1.947
U		2	0.254	0.242	95			0.083	0.425
V	1.000	2	0.960	0.004	0	-0.040	-4.0	0.958	0.963
W		2	0.015	0.004	26			0.012	0.017
Y		2	0.001	0.001	89			0.000	0.002
Zn	1.000	2	1.034	0.000	0	0.034	3.4	1.034	1.034
Zr		2	0.001	0.002	247			-0.001	0.002
TIME		2	########	0.000	0			10000.000	########

3-9.2

WHC-SD-WM-DP-145, REV.1

Statistical Summary for 'MCVA 950728I901'

(MCVA)	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)
Ag	0.500	13	0.476	0.014	3	-0.024	-4.8
Al	25.000	13	24.370	0.880	4	-0.630	-2.5
As	2.500	13	2.562	0.074	3	0.062	2.5
B	2.000	13	1.937	0.073	4	-0.063	-3.2
Ba	0.500	13	0.497	0.019	4	-0.003	-0.5
Be	0.100	13	0.093	0.003	3	-0.007	-7.5
Bi	25.000	13	23.987	0.843	4	-1.013	-4.1
Ca	25.000	13	24.457	0.826	3	-0.543	-2.2
Cd	0.500	13	0.488	0.019	4	-0.012	-2.4
Ce		13	-0.018	0.023	-125		
Co	1.000	13	1.010	0.034	3	0.010	1.0
Cr	1.000	13	1.008	0.035	3	0.008	0.8
Cu	1.000	13	0.983	0.033	3	-0.017	-1.7
Dy		13	0.002	0.003	163		
Eu		13	0.002	0.001	33		
Fe	20.000	13	20.011	0.758	4	0.011	0.1
K	25.000	13	26.285	1.501	6	1.285	5.1
La		13	0.007	0.005	65		
Li	2.000	13	1.912	0.090	5	-0.088	-4.4
Mg	25.000	13	26.024	0.895	3	1.024	4.1
Mn	0.500	13	0.501	0.018	4	0.001	0.1
Mo	1.000	13	1.009	0.035	4	0.009	0.9
Na	25.000	13	24.905	0.820	3	-0.095	-0.4
Nd		13	0.020	0.016	81		
Ni	1.000	13	1.041	0.033	3	0.041	4.1
P		13	0.066	0.017	26		
Pb	2.500	13	2.576	0.077	3	0.076	3.1
Pd		13	0.004	0.048	1313		
Rh		13	0.011	0.022	209		
Sb	2.500	13	2.504	0.068	3	0.004	0.2
Se	2.500	13	2.456	0.079	3	-0.044	-1.8
Si	20.000	13	19.782	0.617	3	-1.218	-6.1
Sn		13	-0.053	0.089	-169		
Sr	0.500	13	0.503	0.018	4	0.003	0.6
Te		13	0.003	0.009	251		
Th		13	0.044	0.002	5		
Ti	1.000	13	0.978	0.036	4	-0.022	-2.2
Tl		13	2.465	0.072	3		
U		13	0.218	0.282	129		
V	1.000	13	0.981	0.029	3	-0.019	-1.9
W		13	0.032	0.010	31		
Y		13	0.001	0.001	142		
Zn	1.000	13	1.006	0.027	3	0.006	0.6
Zr	2.000	13	2.006	0.071	4	0.006	0.3
TIME		13	########	0.000	0		

MCVA 950728I901	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728	A 950728
95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
09:47	09:51	10:49	11:12	13:13	13:24	13:36	14:26	15:14	15:54	16:45
CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
1981	2026	2071	2116	2161	2206	2251	2296	2341	2386	2431
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.487	0.487	0.489	0.487	0.481	0.485	0.475	0.482	0.480	0.468	0.445
25.132	25.035	25.111	25.173	25.177	25.095	24.020	24.470	24.306	23.763	22.717
2.566	2.584	2.631	2.620	2.594	2.599	2.549	2.622	2.633	2.542	2.391
1.997	1.969	2.002	2.001	2.000	1.992	1.911	1.959	1.943	1.884	1.795
0.513	0.511	0.517	0.518	0.503	0.509	0.491	0.505	0.499	0.486	0.462
0.094	0.094	0.095	0.095	0.094	0.095	0.092	0.095	0.094	0.092	0.086
24.580	24.611	24.748	24.778	24.361	24.561	23.866	24.385	24.215	23.526	22.223
25.049	25.118	25.223	25.164	24.907	24.794	24.267	24.820	24.635	24.093	22.615
0.503	0.505	0.508	0.506	0.498	0.496	0.484	0.491	0.492	0.481	0.446
-0.029	-0.028	-0.048	-0.055	-0.016	-0.033	-0.005	-0.030	-0.014	-0.017	-0.002
1.036	1.040	1.047	1.045	1.015	1.020	0.996	1.025	1.024	0.996	0.935
1.032	1.039	1.044	1.043	1.015	1.026	0.997	1.029	1.015	0.998	0.931
1.008	1.012	1.016	1.015	1.002	1.005	0.968	0.999	0.980	0.964	0.920
0.000	0.000	-0.001	-0.002	0.001	-0.001	0.003	0.000	0.002	0.003	0.004
0.002	0.002	0.001	0.001	0.003	0.002	0.003	0.002	0.002	0.003	0.003
20.597	20.636	20.804	20.790	20.199	20.323	19.788	20.359	20.275	19.683	18.441
27.560	26.793	25.078	25.476	26.058	26.785	26.702	23.785	24.416	24.762	26.555
0.005	0.005	0.002	0.000	0.006	0.003	0.010	0.005	0.008	0.009	0.011
1.998	1.956	1.916	1.946	2.030	2.079	1.884	1.819	1.816	1.810	1.858
26.715	26.742	26.887	26.879	26.314	26.513	25.813	26.412	26.296	25.627	24.117
0.513	0.514	0.518	0.517	0.511	0.509	0.496	0.509	0.508	0.494	0.462
1.035	1.039	1.047	1.046	1.015	1.021	1.001	1.025	1.019	0.990	0.934
25.316	24.723	24.190	24.487	25.481	26.650	25.248	24.043	24.171	24.113	25.030
0.015	0.010	0.000	-0.003	0.021	0.007	0.034	0.011	0.021	0.025	0.032
1.064	1.071	1.080	1.076	1.044	1.044	1.030	1.052	1.056	1.028	0.970
0.062	0.065	0.059	0.038	0.068	0.041	0.088	0.070	0.083	0.104	0.058
2.644	2.650	2.642	2.640	2.609	2.601	2.565	2.595	2.615	2.536	2.393
-0.012	-0.028	-0.052	-0.065	0.012	-0.032	0.035	-0.022	0.002	0.009	0.042
0.001	-0.002	-0.012	-0.021	0.011	-0.007	0.026	-0.004	0.012	0.013	0.032
2.535	2.512	2.538	2.539	2.552	2.555	2.505	2.562	2.560	2.489	2.345
2.521	2.513	2.542	2.519	2.486	2.489	2.435	2.488	2.497	2.419	2.298
19.529	19.204	19.085	19.102	19.201	19.102	18.657	19.171	18.996	18.497	17.456
-0.066	-0.079	-0.136	-0.135	-0.027	-0.211	-0.119	-0.080	-0.018	-0.023	0.048
0.518	0.517	0.523	0.525	0.507	0.514	0.496	0.510	0.504	0.491	0.468
0.007	-0.002	-0.002	-0.008	0.002	-0.007	0.010	-0.006	0.004	0.004	0.015
0.046	0.049	0.044	0.046	0.042	0.043	0.041	0.043	0.045	0.042	0.043
1.006	1.007	1.016	1.018	0.986	0.993	0.964	0.994	0.987	0.960	0.905
2.524	2.527	2.532	2.530	2.483	2.496	2.442	2.499	2.491	2.433	2.308
0.109	0.023	-0.121	-0.192	0.221	-0.021	0.427	0.095	0.280	0.281	0.467
0.991	0.991	0.999	0.998	0.997	1.004	0.979	1.004	1.000	0.973	0.915
0.043	0.037	0.024	0.024	0.035	0.020	0.036	0.020	0.019	0.026	0.045
0.000	0.000	0.000	-0.001	0.001	0.000	0.002	0.000	0.001	0.001	0.002
1.018	1.025	1.035	1.036	1.008	1.010	0.986	1.020	1.023	1.001	0.945
2.057	2.061	2.084	2.066	2.019	2.037	1.979	2.042	2.029	1.973	1.861
10000.000	########	########	########	########	########	########	########	########	########	########

3-973

WHC-SD-WM-DP-145, REV. 1

								MCVB 950911H901	CVB 950911H901
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for 'MCVB 950911H901'								17:00	09:59
(MCVB)								CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	2566	2701
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag		2	0.002	0.002	81			0.003	0.001
Al		2	-0.160	0.033	-19			-0.156	-0.204
As		2	0.007	0.006	86			0.012	0.003
B		2	0.001	0.002	255			0.002	-0.001
Ba		2	0.000	0.000	98			0.001	0.000
Be		2	0.000	0.000	9			0.000	0.000
Bi		2	-0.004	0.012	-312			0.004	-0.012
Ca		2	0.015	0.007	44			0.020	0.010
Cd		2	0.001	0.001	171			0.000	0.001
Ce	2.000	2	1.979	0.034	2	-0.021	-1.0	2.003	1.955
Co		2	0.003	0.001	21			0.004	0.003
Cr		2	0.002	0.001	43			0.001	0.002
Cu		2	0.000	0.008	-1178			0.004	-0.005
Dy	2.000	2	1.987	0.031	2	-0.013	-0.7	2.009	1.965
Eu	2.000	2	1.974	0.025	1	-0.026	-1.3	1.992	1.956
Fe		2	0.004	0.003	81			0.006	0.002
K		2	0.310	0.181	58			0.438	0.182
La	2.000	2	1.998	0.020	1	-0.002	-0.1	2.012	1.983
Li		2	0.002	0.001	42			0.003	0.001
Mg		2	0.095	0.008	8			0.099	0.091
Mn		2	0.000	0.000	22			0.000	0.000
Mo		2	0.001	0.001	110			0.001	0.000
Na		2	0.015	0.001	5			0.016	0.014
Nd	2.000	2	1.963	0.038	2	-0.037	-1.8	1.991	1.936
Ni		2	0.017	0.011	67			0.025	0.009
P		2	0.008	0.001	23			0.005	0.007
Pb		2	0.056	0.001	2			0.056	0.057
Pd	2.000	2	1.950	0.109	6	-0.050	-2.5	2.027	1.873
Rh	2.000	2	1.967	0.024	1	-0.033	-1.7	1.984	1.950
Sb		2	-0.003	0.008	-289			0.003	-0.009
Se		2	0.012	0.008	65			0.007	0.018
Si		2	-0.072	0.188	-262			0.061	-0.204
Sn	2.000	2	2.039	0.022	1	0.039	2.0	2.054	2.024
Sr		2	0.000	0.000	75			0.000	0.000
Te	2.000	2	1.809	0.010	1	-0.191	-9.5	1.803	1.816
Th	5.000	2	5.048	0.022	0	0.048	1.0	5.033	5.064
Ti		2	0.001	0.000	12			0.001	0.001
Tl		2	0.007	0.014	195			0.017	-0.003
U	10.000	2	8.499	0.058	1	-1.501	-15.0	8.540	8.459
V		2	0.000	0.000	-161			0.000	-0.001
W	2.000	2	0.503	0.018	4	-1.497	-74.9	0.490	0.516
Y	1.000	2	0.969	0.001	0	-0.031	-3.1	0.970	0.968
Zn		2	0.002	0.000	17			0.002	0.002
Zr		2	-0.010	0.003	-32			-0.012	-0.008
TIME		2	########	0.000	0			10000.000	########

3-974

WHC-SD-WM-DP-145, REV. 1

								SRM-1643c 103668	-1643c 103668
								95D254A	95D254A
								9/11/95	9/11/95
Statistical Summary for 'SRM-1643c 103668'								10:03	17:03
(NIST:SRM1643c)								CONC	CONC
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	2681	2926
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)
Ag	0.002	2	0.001	0.001	165	-0.001	-66.4	0.000	0.002
Al	0.115	2	0.101	0.006	6	-0.014	-11.9	0.097	0.105
As	0.082	2	0.080	0.004	4	-0.002	-2.4	0.083	0.078
B	0.119	2	0.110	0.003	2	-0.009	-7.5	0.108	0.112
Ba	0.050	2	0.049	0.000	0	-0.001	-1.3	0.049	0.049
Be	0.023	2	0.022	0.000	0	-0.001	-5.4	0.022	0.022
Bi		2	0.006	0.015	181			-0.002	0.019
Ca	36.800	2	35.250	0.574	2	-1.550	-4.2	35.656	34.844
Cd	0.012	2	0.013	0.000	3	0.001	4.4	0.012	0.013
Ce		2	0.002	0.008	504			-0.004	0.007
Co	0.024	2	0.025	0.002	7	0.001	4.7	0.023	0.026
Cr	0.019	2	0.020	0.000	1	0.001	4.3	0.020	0.020
Cu	0.022	2	0.018	0.003	19	-0.005	-20.5	0.015	0.020
Dy		2	-0.001	0.002	-309			-0.002	0.001
Eu		2	0.001	0.000	47			0.001	0.001
Fe	0.107	2	0.117	0.001	1	0.010	9.4	0.116	0.117
K	2.300	2	2.255	0.351	16	-0.045	-2.0	2.006	2.503
La		2	0.006	0.003	54			0.004	0.008
Li	0.017	2	0.012	0.003	22	-0.005	-29.3	0.010	0.013
Mg	9.450	2	9.890	0.117	1	0.440	4.7	9.973	9.808
Mn	0.035	2	0.035	0.000	1	0.000	-1.0	0.035	0.035
Mo	0.104	2	0.103	0.000	0	-0.001	-0.9	0.103	0.104
Na	12.190	2	11.834	0.914	8	-0.356	-2.9	11.167	12.480
Nd		2	0.009	0.009	96			0.003	0.016
Ni	0.061	2	0.065	0.003	5	0.004	7.0	0.063	0.067
P		2	0.023	0.004	17			0.020	0.025
Pb	0.035	2	0.034	0.003	9	-0.002	-4.8	0.032	0.036
Pd		2	-0.008	0.021	-261			-0.023	0.007
Rh		2	-0.003	0.013	-476			-0.012	0.007
Sb		2	-0.010	0.014	-150			-0.020	0.001
Se	0.013	2	0.008	0.000	3	-0.005	-37.9	0.008	0.008
Si		2	-0.144	0.240	-167			-0.314	0.026
Sn		2	-0.018	0.020	-109			-0.032	-0.004
Sr	0.264	2	0.262	0.001	0	-0.001	-0.6	0.263	0.261
Te		2	0.000	0.001	639			-0.001	0.001
Th		2	0.000	0.005	-1689			0.003	-0.004
Ti		2	0.008	0.000	5			0.007	0.008
Tl	0.008	2	0.015	0.014	94	0.007	88.5	0.005	0.025
U		2	0.193	0.137	71			0.096	0.290
V	0.031	2	0.028	0.001	4	-0.003	-9.9	0.028	0.029
W		2	0.010	0.004	40			0.007	0.012
Y		2	-0.002	0.001	-40			-0.002	-0.001
Zn	0.074	2	0.085	0.001	1	0.011	15.4	0.084	0.086
Zr		2	-0.001	0.002	-243			-0.002	0.000
TIME		2	########	0.000	0			10000.000	########

Statistical Summary for "STD1-Blank 108444"

								STD1-Blank 108444	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10	1-Blank 10
								95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
								9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
								09:44	10:19	10:52	11:20	13:11	13:34	13:44	14:33	15:23	16:02	17:10
(STD1-Blank)								CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	3286	3331	3376	3421	3466	3511	3556	3601	3646	3691	3736
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		11	0.000	0.001	-488			-0.001	0.000	-0.001	-0.001	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Al		11	0.002	0.004	205			0.000	0.001	-0.001	0.001	0.002	0.010	-0.004	0.006	0.000	0.000	0.005
As		11	0.001	0.003	306			0.002	0.005	0.003	0.002	-0.001	-0.008	0.002	0.001	0.001	0.001	0.004
B		11	0.000	0.007	-1973			0.005	0.000	-0.001	-0.001	0.011	0.010	-0.004	-0.005	-0.009	-0.010	0.000
Be		11	0.000	0.000	1825			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Be		11	0.000	0.000	-991			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bi		11	-0.001	0.004	-294			0.001	0.006	0.001	-0.001	-0.005	-0.005	-0.008	0.002	-0.005	0.000	-0.001
Ca		11	0.000	0.003	-1771			-0.003	0.000	0.001	0.000	-0.007	0.005	-0.005	0.003	0.002	0.000	0.002
Cd		11	0.000	0.001	191			0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.000	-0.001
Ce		11	-0.002	0.009	-443			0.001	-0.004	-0.010	-0.010	0.011	-0.005	-0.005	0.007	-0.010	-0.009	0.013
Co		11	0.000	0.001	-527			0.001	-0.001	-0.002	-0.002	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Cr		11	0.000	0.001	292			0.000	0.000	0.002	0.001	-0.001	0.001	0.002	0.002	0.000	-0.001	0.000
Cu		11	0.000	0.003	-856			0.000	-0.001	-0.001	-0.001	0.008	-0.002	-0.002	-0.001	-0.003	-0.004	0.002
Dy		11	0.000	0.001	-891			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.001	-0.001	-0.001	0.002
Eu		11	0.000	0.000	-505			0.000	0.000	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	-0.001	0.001
Fe		11	0.000	0.001	386			-0.001	0.000	0.002	0.002	-0.001	-0.001	-0.001	0.003	0.001	0.002	-0.001
K		11	-0.071	0.217	-305			-0.050	0.044	-0.199	-0.298	0.000	-0.049	-0.005	0.132	-0.351	-0.356	0.351
La		11	0.000	0.002	-45035			0.001	0.001	-0.002	-0.001	0.001	0.000	0.000	0.002	-0.002	-0.002	0.003
Li		11	0.000	0.001	-583			0.000	0.000	0.000	-0.001	-0.001	0.001	-0.001	0.001	-0.001	-0.001	0.001
Mg		11	-0.001	0.005	-450			-0.005	0.003	0.003	0.000	-0.003	-0.004	-0.003	-0.002	-0.008	-0.005	0.010
Mn		11	0.000	0.000	-187			0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000
Mo		11	0.000	0.001	-246			0.001	-0.001	0.000	-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.002
Na		11	0.000	0.010	-3687			-0.001	-0.009	-0.005	-0.012	0.003	-0.011	-0.001	0.019	-0.004	0.004	0.015
Nd		11	0.000	0.007	3809			0.003	-0.001	-0.002	-0.009	0.002	-0.003	0.001	0.010	-0.005	-0.007	0.012
Ni		11	0.003	0.003	105			0.001	0.002	-0.001	0.009	0.000	0.001	0.005	0.005	0.002	0.002	0.007
P		11	0.004	0.007	187			0.008	0.000	-0.003	0.007	0.008	-0.003	0.011	0.003	0.017	-0.006	0.001
Pb		11	-0.001	0.008	-864			0.008	0.005	-0.005	0.002	0.002	-0.004	-0.006	0.002	-0.010	-0.017	0.013
Pd		11	-0.001	0.018	-1265			0.015	0.001	-0.016	-0.019	0.009	-0.005	-0.005	0.018	-0.018	-0.024	0.030
Rh		11	0.000	0.008	-12184			0.003	0.002	-0.004	-0.009	0.005	-0.002	0.001	0.007	-0.009	-0.011	0.017
Sb		11	-0.002	0.005	-304			-0.002	0.002	-0.003	0.002	0.005	-0.013	-0.008	-0.001	0.000	-0.005	0.005
Se		11	0.000	0.005	-4808			0.012	-0.003	0.001	0.000	-0.008	-0.002	0.001	-0.003	0.002	0.002	-0.008
Si		11	0.097	0.288	295			0.751	-0.010	-0.070	-0.100	0.582	-0.024	-0.045	0.016	-0.012	-0.020	-0.001
Sn		11	-0.004	0.026	-692			0.019	-0.018	-0.027	-0.026	0.015	0.012	0.014	0.016	-0.034	-0.053	0.037
Sr		11	0.000	0.000	2081			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Te		11	0.001	0.005	719			0.002	0.005	-0.004	-0.002	-0.001	0.004	0.001	0.006	0.001	-0.009	0.005
Th		11	-0.001	0.003	-222			-0.001	0.001	-0.002	-0.002	0.001	0.001	-0.002	-0.006	-0.003	-0.005	0.004
Ti		11	0.000	0.000	-419			0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Tl		11	0.000	0.005	2288			0.000	0.004	-0.001	-0.003	0.006	-0.008	-0.007	0.001	0.000	0.007	0.003
U		11	-0.017	0.109	-657			0.047	-0.039	-0.101	-0.122	0.008	-0.038	-0.006	0.125	-0.095	-0.183	0.201
V		11	0.000	0.001	-548			0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.001	-0.001	-0.001	0.001
W		11	-0.001	0.006	-1208			0.012	-0.004	-0.002	-0.005	0.001	0.000	0.000	0.003	-0.008	-0.009	0.007
Y		11	0.000	0.000	-443			0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	-0.001	-0.001	0.001
Zn		11	0.000	0.001	-550			0.000	-0.001	0.000	-0.001	-0.001	0.000	0.000	0.001	0.000	0.000	0.000
Zr		11	0.000	0.001	593			-0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.000	0.000	0.001
TIME		11	########	0.000	0			10000.000	########	########	########	########	########	########	########	########	########	########

Statistical Summary for 'SST-ICS-0 950908I100'
(SST Interference Check Standard)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag		7	-0.011	0.001	-13		
Al	100.0	7	97.153	1.146	1	-2.847	-2.8
As		7	0.127	0.021	17		
B		7	-0.007	0.004	-60		
Ba		7	0.000	0.000	-482		
Be		7	0.001	0.000	7		
Bi		7	0.055	0.007	13		
Ca		7	0.068	0.004	6		
Cd		7	0.009	0.001	12		
Ce		7	-0.144	0.011	-7		
Co		7	0.004	0.001	29		
Cr		7	0.037	0.001	3		
Cu		7	-0.010	0.008	-82		
Dy		7	-0.004	0.001	-31		
Eu		7	0.000	0.000	86		
Fe	20.0	7	19.927	0.224	1	-0.073	-0.4
K		7	0.005	0.203	3985		
La		7	0.003	0.002	60		
Li		7	0.003	0.001	33		
Mg		7	0.279	0.011	4		
Mn		7	0.001	0.000	22		
Mo		7	0.007	0.001	18		
Na		7	0.014	0.013	92		
Nd		7	-0.022	0.005	-24		
Ni	50.0	7	51.992	0.497	1	1.992	4.0
P		7	0.029	0.017	59		
Pb		7	0.190	0.010	5		
Pd		7	-0.457	0.031	-7		
Rh		7	-0.043	0.007	-16		
Sb		7	-0.005	0.007	-123		
Se		7	0.023	0.008	34		
Si		7	0.014	0.041	288		
Sn		7	-0.015	0.112	-747		
Sr		7	0.000	0.000	-41		
Te		7	-0.005	0.004	-68		
Th		7	0.723	0.022	3		
Ti		7	0.001	0.000	45		
Tl		7	0.215	0.004	2		
U	50.0	7	50.323	0.578	1	0.323	0.6
V		7	0.002	0.001	49		
W		7	0.047	0.008	18		
Y		7	0.004	0.001	17		
Zn		7	-0.029	0.001	-4		
Zr	10.0	7	10.016	0.099	1	0.016	0.2
TIME		7	########	0.000	0		

	SST-ICS-0 95090811	S-0 9509	S-0 9509	S-0 9509	S-0 9509	S-0 9509	S-0 950908I100
	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A	95D254A
	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95	9/11/95
	11:16	14:29	15:19	15:58	16:57	10:28	13:39
	CONC	CONC	CONC	CONC	CONC	CONC	CONC
	2971	3016	3061	3106	3151	3196	3241
	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag	-0.010	-0.011	-0.012	-0.014	-0.011	-0.010	-0.011
Al	97.816	95.285	96.720	96.247	97.287	98.291	98.427
As	0.108	0.156	0.155	0.123	0.127	0.102	0.119
B	-0.004	-0.009	-0.011	-0.012	-0.002	-0.003	-0.005
Ba	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Be	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Bi	0.047	0.060	0.059	0.055	0.064	0.055	0.043
Ca	0.064	0.069	0.070	0.066	0.075	0.065	0.063
Cd	0.009	0.009	0.009	0.008	0.010	0.011	0.009
Ce	-0.148	-0.139	-0.126	-0.161	-0.143	-0.145	-0.149
Co	0.004	0.004	0.004	0.002	0.005	0.003	0.003
Cr	0.036	0.038	0.038	0.038	0.039	0.036	0.036
Cu	-0.011	-0.010	-0.015	-0.018	0.006	-0.014	-0.005
Dy	-0.005	-0.003	-0.003	-0.004	-0.002	-0.004	-0.004
Eu	0.000	0.001	0.001	0.000	0.001	0.000	0.000
Fe	20.105	19.729	19.981	19.688	19.697	20.254	20.033
K	-0.232	0.082	-0.016	-0.154	0.400	-0.055	0.011
La	0.005	0.004	0.003	0.001	0.005	0.006	0.000
Li	0.002	0.004	0.003	0.003	0.005	0.002	0.002
Mg	0.282	0.285	0.295	0.276	0.284	0.275	0.259
Mn	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Mo	0.007	0.008	0.008	0.006	0.009	0.006	0.006
Na	-0.011	0.028	0.012	0.020	0.023	0.020	0.007
Nd	-0.026	-0.017	-0.021	-0.025	-0.012	-0.023	-0.026
Ni	52.473	51.461	52.240	51.461	51.652	52.703	51.956
P	0.007	0.060	0.034	0.041	0.022	0.018	0.023
Pb	0.189	0.199	0.189	0.171	0.189	0.202	0.189
Pd	-0.433	-0.459	-0.489	-0.502	-0.458	-0.412	-0.448
Rh	-0.044	-0.041	-0.041	-0.052	-0.030	-0.043	-0.046
Sb	-0.009	0.004	0.000	-0.003	-0.003	-0.015	-0.011
Se	0.033	0.021	0.036	0.016	0.016	0.019	0.022
Si	-0.053	0.070	0.040	0.015	0.041	-0.005	-0.009
Sn	0.015	0.050	0.021	-0.019	0.061	0.029	-0.261
Sr	0.000	0.000	0.000	-0.001	0.000	0.000	0.000
Te	-0.005	-0.003	-0.003	-0.011	-0.001	-0.006	-0.010
Th	0.707	0.730	0.753	0.735	0.740	0.702	0.695
Tl	0.001	0.001	0.001	0.000	0.001	0.001	0.000
Tl	0.216	0.215	0.214	0.211	0.215	0.223	0.213
U	49.745	49.787	50.451	50.190	50.742	49.993	51.355
V	0.001	0.003	0.003	0.001	0.004	0.001	0.001
W	0.056	0.047	0.039	0.034	0.053	0.046	0.055
Y	0.003	0.004	0.004	0.003	0.005	0.003	0.004
Zn	-0.027	-0.028	-0.029	-0.030	-0.029	-0.029	-0.031
Zr	10.105	9.904	10.062	9.911	9.931	10.143	10.055
TIME	10000.000	########	########	########	########	########	########

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)

[X]		Mode C	Mode I	Calibration/QC Check P	Calibration/QC Check SP	Calibration/QC Check S	Calibration/QC Check B	Calibration/QC Check V	Calibration/QC Check M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814E101		K. Silvers	K28866	7502S4A	ICP1	9/11/95 RDL
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓		✓						SPC-STD 950831I101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950830I102						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓					✓				" 1-Blank 108444						
	14	✓							✓	Fail-K high	MCVA 950728I901						
	15	✓							✓	PASS	" "						
	16	✓							✓	Te,U,W-Fail Low	Old MCVB 950905H901						
	17	✓							✓	U,W-Fail Low	New " 950907H901						
	18	✓									SRM-1643c 103668						
	19	✓								"	CCV1 950713H901						
	20	✓									STD1-Blank 108444						
	21	✓								95-007932-C3	Method Blank Drainables (Water Leach)						
	22	✓								95-007932-C1	Seq 2 Drainable Liquids "	5X					
	23	✓						✓		~~95-007932-C1~~ 9/11/95	SST-ICS-0 950908I100						
	24	✓								492 ppm	Na @ 500 ppm (950622I1240 10X)						
	25	✓								95-007932-C1	Seq 2 Drainable Liquid (Water Leach)		↓	↓	↓	↓	↓

WHC-SD-WM-DP-[illegible] REV. 1

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode ("or I)" = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE # WD00560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x).

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9978

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007932-C2	Seg 2 Drainable Liquid Dup (Waterleach)	5X	K. Silvers	K28866	950254A	ICP1	9/11/95
	2	✓								95-007932-C2	" " " " Dup "						
	3	✓							✓	PASS	MCVA 950728I901						
	4	✓					✓				STD 1-Blank 108444						
	5	✓								95-007935-C1	Seg 3 Drainable Liquid (Waterleach)	5X					
	6	✓								95-007935-C1	" " " "						
	7	✓								95-007935-C2	" " " Dup "	5X					
	8	✓								95-007935-C2	" " " " "						
	9	✓							✓	PASS	MCVA 950728I901						
	10	✓						✓			SST-ICS-0 950908I100						
	11	✓					✓				STD 1-Blank 108444						
	12	✓				✓	✓				" " "						
	13	✓				✓					" 2 950830I102						
	14	✓				✓					" 3 3						
	15	✓				✓					" 4 4						
	16	✓				✓					" 5 5						
	17	✓				✓					" 6 6						
	18	✓				✓					" 7 7						
	19	✓				✓					" 8 8						
	20	✓				✓					" 9 9						
	21	✓					✓				" 1-Blank 108444						
	22	✓							✓	FAIL-K high	MCVA 950728I901						
	23	✓								Fail-K high	" "						
	24	✓				✓	✓				STD 1-Blank 108444						
	25	✓				✓					STD 3 950830I103						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C or I] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TF#WD00560

Initial or Continuing Calibration [V]erification Standard

ADF = Analytical Dilution Factor (other than 1x)

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WHC-SD-WM-DP-145 REV 1

3979

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓							✓	PASS	MCVA 950728I901		K. Silvers	K29866	95D254A	ICP1	9/11/95 DKS
	1	✓						✓			SST-ICS-0 950908I100						
	1	✓					✓				STD1-Blank 108444						
	1	✓								95-007945-C1	Sludge Sample (Water Leach)	5X					
	1	✓								95-007945-C1	" " "						
	1	✓								95-007945-C2	" " Duplicate "	5X					
	1	✓								95-007945-C2	" " " "						
	1	✓								95-007946-C1	" " "	5X					
	1	✓								95-007946-C1	" " "						
	11	✓								95-007946-C2	" " Duplicate "	5X					
	11	✓								95-007946-C2	" " " "						
	11	✓							✓	PASS	MCVA 950728I901						
	11	✓						✓			SST-ICS-0 950908I100						
	11	✓					✓				STD1-Blank 108444						
	11	✓								95-007947-C1	Sludge Sample (Water Leach)	5X					
	11	✓								95-007947-C1	" " "						
	11	✓								95-007947-C2	" " Duplicate "	5X					
	11	✓								95-007947-C2	" " " "						
	11	✓								95-007948-C1	" " "	5X					
	11	✓								95-007948-C1	" " "						
	11	✓								95-007948-C2	" " Duplicate "	5X					
	11	✓								95-007948-C2	" " " "						
	11	✓							✓	FAIL	MCVA 950728I901						
	11	✓							✓	Fail-Bi, Si	" "						
	11	✓							✓	PASS	" "						

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]refile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE#WD00560

Initial or Continuing Calibration [V]erification Standard

ADF = Analytical Dilution Factor (other than 1x)

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WHC-SD-WM-DP-145, REV. 1

B-980

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)

[X]		Mode		Calibration/QC Check						ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
		C	I	P	SP	S	B	V	M								
	1	✓					✓				STD1-Blank 108444		K. Silvers	K28966	9502541	ECP1	9/11/95 KM
	2	✓							✓	PASS	MCVA 950728I901						
	3	✓						✓			SST-ICS-0 950908I100						
	4	✓					✓				STD1-Blank 108444						
	5	✓								95-007941-C	Method Blank (Waterford)						
	6	✓								95-007941-C1	Sludge Sample "	5X					
	7	✓								95-007941-C1	" " "						
	8	✓								95-007941-C2	" " Duplicate "	5X					
	9	✓								95-007941-C2	" " "						
	10	✓								95-007942-C1	" " "	5X					
	11	✓								95-007942-C1	" " "						
	12	✓								95-007942-C2	" " Duplicate "	5X					
	13	✓								95-007942-C2	" " " "						
	14	✓							✓	PASS	MCVA 950728I901						
	15	✓						✓			SST-ICS-0 950908I10						
	16	✓					✓				STD1-Blank 108444						
	17	✓								974 ppm	Na @ 1000 ppm						
	18	✓								95-007943-C1	Sludge Sample (Waterford)	5X					
	19	✓								95-007943-C1	" " "						
	20	✓								95-007943-C2	" " Duplicate "	6X					
	21	✓								95-007943-C2	" " " "						
	22	✓								95-007944-C1	" " "	5X					
	23	✓								95-007944-C1	" " "						
	24	✓								95-007944-C2	" " Duplicate "	5X					
	25	✓								95-007944-C2			↓	↓	↓	↓	↓

WHC-SD-WM-DP-145 REV. 1

[SP] System Performance [S]tandardization or calibration

[M]id-Range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C] or [I] = ICP Interrogation Mode

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M A T E R W I N G R A

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

Mo: [illegible] AUSTIN ME 013 T.D 164-02-931

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓						✓			SST-ICS-0 950908I101		K. Silvers	K28866	950264A	ICP1	9/11/95 AH
	2	✓							✓	PASS (X)	MCUB ~~PA~~ 950911I901		↓	↓	↓	↓	↓
	3	✓							✓		SRM-1643c 103668		↓	↓	↓	↓	↓
	4	✓						✓			CCV1 950713H901		↓	↓	↓	↓	↓
	5	✓					✓				STD1-Blank 108444		↓	↓	↓	↓	↓
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																
	17																
	18																
	19																
	20																
	21																
	22																
	23																
	24																
	25																

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode [C] = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TF#WD00560

Initial or Continuing Calibration [V]erification Standard

"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OPROUP\PROGRAMS\RUNLOG.TJ2 (04-02-93)

WHC-SD-WM-DP-145 REV. 1

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95D254A
ICP-325-V05-1
9/11/95 DRS

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D254A	ICP1	09/11/95	09:00	DRS	S	INT
2	SPC-BLK 108444	95D254A	ICP1	09/11/95	09:00	DRS	S	CONC
3	SPC-STD 950831I101	95D254A	ICP1	09/11/95	09:03	DRS	S	INT
4	SPC-STD 950831I101	95D254A	ICP1	09/11/95	09:03	DRS	S	CONC
5	STD1-Blank	95D254A	ICP1	09/11/95	09:09		X	IR
6	STD2	95D254A	ICP1	09/11/95	09:10		X	IR
7	STD3	95D254A	ICP1	09/11/95	09:14		X	IR
8	STD4	95D254A	ICP1	09/11/95	09:18		X	IR
9	STD5	95D254A	ICP1	09/11/95	09:22		X	IR
10	STD6	95D254A	ICP1	09/11/95	09:25		X	IR
11	STD7	95D254A	ICP1	09/11/95	09:29		X	IR
12	STD8	95D254A	ICP1	09/11/95	09:33		X	IR
13	STD9	95D254A	ICP1	09/11/95	09:37		X	IR
14	STD1-Blank 108444	95D254A	ICP1	09/11/95	09:44	DRS	S	CONC
15	MCVA 950728I901	95D254A	ICP1	09/11/95	09:47	DRS	Q	CONC
16	MCVA 950728I901	95D254A	ICP1	09/11/95	09:51	DRS	Q	CONC
17	OLD MCVB 950905H901	95D254A	ICP1	09/11/95	09:55	DRS	Q	CONC
18	NEW MCVB 950911H901	95D254A	ICP1	09/11/95	09:59	DRS	Q	CONC
19	SRM-1643c 103668	95D254A	ICP1	09/11/95	10:03	DRS	Q	CONC
20	CCV1 950713H901	95D254A	ICP1	09/11/95	10:07	DRS	S	CONC
21	STD1-Blank 108444	95D254A	ICP1	09/11/95	10:19	DRS	S	CONC
22	95-007932-C3	95D254A	ICP1	09/11/95	10:21	DRS	S	CONC
23	95-007932-C1 @5	95D254A	ICP1	09/11/95	10:24	DRS	S	CONC
24	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	10:28	DRS	S	CONC
25	Na @500 PPM	95D254A	ICP1	09/11/95	10:32	DRS	S	CONC
26	95-007932-C1	95D254A	ICP1	09/11/95	10:36	DRS	S	CONC
27	95-007932-C2 @5	95D254A	ICP1	09/11/95	10:40	DRS	S	CONC
28	95-007932-C2	95D254A	ICP1	09/11/95	10:44	DRS	S	CONC
29	MCVA 950728I901	95D254A	ICP1	09/11/95	10:49	DRS	Q	CONC
30	STD1-Blank 108444	95D254A	ICP1	09/11/95	10:52	DRS	S	CONC
31	95-007935-C1 @5	95D254A	ICP1	09/11/95	10:55	DRS	S	CONC
32	95-007935-C1	95D254A	ICP1	09/11/95	10:58	DRS	S	CONC
33	95-007935-C2 @5	95D254A	ICP1	09/11/95	11:03	DRS	S	CONC
34	95-007935-C2	95D254A	ICP1	09/11/95	11:07	DRS	S	CONC
35	MCVA 950728I901	95D254A	ICP1	09/11/95	11:12	DRS	Q	CONC
36	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	11:16	DRS	S	CONC
37	STD1-Blank 108444	95D254A	ICP1	09/11/95	11:20	DRS	S	CONC
38	STD1-Blank	95D254A	ICP1	09/11/95	12:34		X	IR
39	STD2	95D254A	ICP1	09/11/95	12:36		X	IR
40	STD3	95D254A	ICP1	09/11/95	12:40		X	IR
41	STD3	95D254A	ICP1	09/11/95	12:44		X	IR
42	STD4	95D254A	ICP1	09/11/95	12:48		X	IR
43	STD5	95D254A	ICP1	09/11/95	12:52		X	IR
44	STD6	95D254A	ICP1	09/11/95	12:56		X	IR
45	STD7	95D254A	ICP1	09/11/95	13:00		X	IR
46	STD8	95D254A	ICP1	09/11/95	13:03		X	IR
47	STD9	95D254A	ICP1	09/11/95	13:07		X	IR
48	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:11	DRS	S	CONC
49	MCVA 950728I901	95D254A	ICP1	09/11/95	13:13	DRS	Q	CONC
50	MCVA 950728I901	95D254A	ICP1	09/11/95	13:24	DRS	Q	CONC
51	STD1-Blank	95D254A	ICP1	09/11/95	13:28		X	IR
52	STD3	95D254A	ICP1	09/11/95	13:30		X	IR
53	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:34	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	MCVA 950728I901	95D254A	ICP1	09/11/95	13:36	DRS	Q	CONC
55	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	13:39	DRS	S	CONC
56	STD1-Blank 108444	95D254A	ICP1	09/11/95	13:44	DRS	S	CONC
57	95-007941-C3 @5	95D254A	ICP1	09/11/95	13:49	DRS	S	CONC
58	95-007941-C1 @5	95D254A	ICP1	09/11/95	13:53	DRS	S	CONC
59	95-007941-C1	95D254A	ICP1	09/11/95	13:57	DRS	S	CONC
60	95-007941-C2 @5	95D254A	ICP1	09/11/95	14:02	DRS	S	CONC
61	95-007941-C2	95D254A	ICP1	09/11/95	14:06	DRS	S	CONC
62	95-007942-C1 @5	95D254A	ICP1	09/11/95	14:09	DRS	S	CONC
63	95-007942-C1	95D254A	ICP1	09/11/95	14:14	DRS	S	CONC
64	95-007942-C2 @5	95D254A	ICP1	09/11/95	14:17	DRS	S	CONC
65	95-007942-C2	95D254A	ICP1	09/11/95	14:21	DRS	S	CONC
66	MCVA 950728I901	95D254A	ICP1	09/11/95	14:26	DRS	Q	CONC
67	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	14:29	DRS	S	CONC
68	STD1-Blank 108444	95D254A	ICP1	09/11/95	14:33	DRS	S	CONC
69	Na @1000 PPM	95D254A	ICP1	09/11/95	14:37	DRS	S	CONC
70	95-007943-C1 @5	95D254A	ICP1	09/11/95	14:41	DRS	S	CONC
71	95-007943-C1	95D254A	ICP1	09/11/95	14:45	DRS	S	CONC
72	95-007943-C2 @5	95D254A	ICP1	09/11/95	14:50	DRS	S	CONC
73	95-007943-C2	95D254A	ICP1	09/11/95	14:53	DRS	S	CONC
74	95-007944-C1 @5	95D254A	ICP1	09/11/95	14:57	DRS	S	CONC
75	95-007944-C1	95D254A	ICP1	09/11/95	15:01	DRS	S	CONC
76	95-007944-C2 @5	95D254A	ICP1	09/11/95	15:05	DRS	S	CONC
77	95-007944-C2	95D254A	ICP1	09/11/95	15:09	DRS	S	CONC
78	MCVA 950728I901	95D254A	ICP1	09/11/95	15:14	DRS	Q	CONC
79	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	15:19	DRS	S	CONC
80	STD1-Blank 108444	95D254A	ICP1	09/11/95	15:23	DRS	S	CONC
81	95-007945-C1 @5	95D254A	ICP1	09/11/95	15:25	DRS	S	CONC
82	95-007945-C1	95D254A	ICP1	09/11/95	15:28	DRS	S	CONC
83	95-007945-C2 @5	95D254A	ICP1	09/11/95	15:32	DRS	S	CONC
84	95-007945-C2	95D254A	ICP1	09/11/95	15:36	DRS	S	CONC
85	95-007946-C1 @5	95D254A	ICP1	09/11/95	15:40	DRS	S	CONC
86	95-007946-C1	95D254A	ICP1	09/11/95	15:44	DRS	S	CONC
87	95-007946-C2 @5	95D254A	ICP1	09/11/95	15:47	DRS	S	CONC
88	95-007946-C2	95D254A	ICP1	09/11/95	15:51	DRS	S	CONC
89	MCVA 950728I901	95D254A	ICP1	09/11/95	15:54	DRS	Q	CONC
90	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	15:58	DRS	S	CONC
91	STD1-Blank 108444	95D254A	ICP1	09/11/95	16:02	DRS	S	CONC
92	95-007947-C1 @5	95D254A	ICP1	09/11/95	16:04	DRS	S	CONC
93	95-007947-C1	95D254A	ICP1	09/11/95	16:08	DRS	S	CONC
94	95-007947-C2 @5	95D254A	ICP1	09/11/95	16:11	DRS	S	CONC
95	95-007947-C2	95D254A	ICP1	09/11/95	16:16	DRS	S	CONC
96	95-007948-C1 @5	95D254A	ICP1	09/11/95	16:20	DRS	S	CONC
97	95-007948-C1	95D254A	ICP1	09/11/95	16:24	DRS	S	CONC
98	95-007948-C2 @5	95D254A	ICP1	09/11/95	16:27	DRS	S	CONC
99	95-007948-C2	95D254A	ICP1	09/11/95	16:31	DRS	S	CONC
100	MCVA 950728I901	95D254A	ICP1	09/11/95	16:45	DRS	Q	CONC
101	MCVA 950728I901	95D254A	ICP1	09/11/95	16:51	DRS	Q	CONC
102	MCVA 950728I901	95D254A	ICP1	09/11/95	16:52	DRS	Q	CONC
103	SST-ICS-0 950908I100	95D254A	ICP1	09/11/95	16:57	DRS	S	CONC
104	MCVB 950911H901	95D254A	ICP1	09/11/95	17:00	DRS	Q	CONC
105	SRM-1643c 103668	95D254A	ICP1	09/11/95	17:03	DRS	Q	CONC
106	CCV1 950713H901	95D254A	ICP1	09/11/95	17:07	DRS	S	CONC
107	STD1-Blank 108444	95D254A	ICP1	09/11/95	17:10	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6653.33	2113.33	1670.67	1102.33	308	175
2	SPC-BLK 108444	.0023	.0089	.0033	.0064	-.0003	.0001
3	SPC-STD 950831I101	6794.33	2153.67	1739	1144.33	311.667	176
4	SPC-STD 950831I101	.0067	.0113	.0279	.0105	.0001	.0002
5	STD1-Blank	.66756	.21183	.16813	.10893	.03099	.01743
6	STD2					8.26373	
7	STD3		75.4985		51.7033		
8	STD4						
9	STD5			27.6464			
10	STD6						
11	STD7						1.95313
12	STD8	31.0002					
13	STD9						
14	STD1-Blank 108444	-.0005	-.0005	.0022	.0051	.0002	.0000
15	MCVA 950728I901	.4865	25.13	2.566	1.997	.5134	.0937
16	MCVA 950728I901	.4869	25.03	2.584	1.989	.5112	.0938
17	OLD MCVB 950905H901	-.0030	-.2178	-.0056	.0001	-.0002	.0001
18	NEW MCVB 950911H901	.0008	-.2035	.0027	-.0006	.0001	.0002
19	SRM-1643c 103668	Q-.0001	Q.0968	.0826	Q.1082	.0489	.0220
20	CCV1 950713H901	.0012	1.893	2.011	1.925	.9966	.9653
21	STD1-Blank 108444	.0002	.0015	.0051	-.0004	.0001	-.0000
22	95-007932-C3	.0055	.0286	.0082	.4655	.0013	.0001
23	95-007932-C1 @5	.0001	78.81	.0677	.1609	.0000	.0006
24	SST-ICS-0 950908I100	-.0097	98.29	.1017	-.0033	-.0001	.0006
25	Na @500 PPM	-.0027	.0376	-.0061	.0826	-.0006	-.0001
26	95-007932-C1	.0054	391.5	.3330	.7797	.0008	.0033
27	95-007932-C2 @5	.0002	75.12	.0675	.1132	.0001	.0006
28	95-007931-C2	.0072	372.9	.3493	.5523	.0012	.0032
29	MCVA 950728I901	.4891	25.11	2.631	2.002	.5165	.0946
30	STD1-Blank 108444	-.0012	-.0013	.0032	-.0006	.0000	-.0000
31	95-007935-C1 @5	-.0036	83.24	.0787	.1070	-.0000	.0006
32	95-007935-C1	-.0070	402.3	.3790	.5162	.0014	.0032
33	95-007935-C2 @5	-.0014	76.82	.0665	.0859	.0005	.0006
34	95-007935-C2	-.0067	383.2	.3297	.4323	.0014	.0031
35	MCVA 950728I901	.4874	25.17	2.620	2.001	.5175	.0945
36	SST-ICS-0 950908I100	-.0104	97.82	.1077	-.0043	-.0001	.0006
37	STD1-Blank 108444	-.0013	.0008	.0020	-.0008	-.0002	-.0001
38	STD1-Blank	.65976	.21056	.16903	.10719	.03083	.01736
39	STD2					8.41053	
40	STD3		.41283		.14079		
41	STD3		75.1912		51.5393		
42	STD4						
43	STD5			27.8348			
44	STD6						
45	STD7						1.92556
46	STD8	31.3059					
47	STD9						
48	STD1-Blank 108444	-.0001	.0017	-.0012	.0115	-.0001	.0000
49	MCVA 950728I901	.4812	25.18	2.594	2.000	.5031	.0943
50	MCVA 950728I901	.4853	25.09	2.599	1.992	.5091	.0950
51	STD1-Blank	.65703	.21116	.16956	.12449	.0307	.01736
52	STD3		77.0558		52.781		
53	STD1-Blank 108444	.0000	.0097	-.0080	.0100	.0002	-.0000

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	MCVA 950728I901	.4751	24.02	2.549	1.911	.4914	.0924
55	SST-ICS-0 950908I100	-.0113	98.43	.1187	-.0051	-.0001	.0007
56	STD1-Blank 108444	.0003	-.0037	.0015	-.0043	.0001	-.0000
57	95-007941-C	.0069	.0324	.0120	.0089	.0024	.0002
58	95-007941-C1 @5	.0002	5.637	.0202	.0156	.0003	.0000
59	95-007941-C1	.0021	29.04	.1301	.0901	.0014	.0004
60	95-007941-C2 @5	-.0011	5.558	.0180	.0091	-.0001	.0000
61	95-007941-C2	.0029	28.04	.1205	.0633	.0014	.0003
62	95-007942-C1 @5	-.0011	14.16	.0242	.0077	.0003	.0001
63	95-007942-C1	.0062	69.40	.1299	.0621	.0023	.0005
64	95-007942-C1 @5	-.0008	13.51	.0170	.0136	.0004	.0000
65	95-007942-C2	.0056	67.58	.1266	.0931	.0022	.0005
66	MCVA 950728I901	.4824	24.47	2.622	1.959	.5049	.0949
67	SST-ICS-0 950908I100	-.0106	95.28	.1560	-.0089	.0000	.0007
68	STD1-Blank 108444	.0007	.0063	.0009	-.0054	.0002	-.0000
69	Na @1000 PPM	.0019	.0068	.0089	-.0060	.0003	.0000
70	95-007943-C1 @5	.0011	19.75	.0315	.0194	.0001	.0000
71	95-007943-C1	.0096	98.80	.1842	.1265	.0010	.0003
72	95-007943-C2 @5	.0026	20.84	.0333	.0076	.0004	.0001
73	95-007943-C2	.0096	106.3	.1949	.0714	.0012	.0004
74	95-007944-C1 @5	-.0008	21.66	.0682	.0122	.0002	-.0001
75	95-007944-C1	-.0026	105.2	.3508	.0889	.0006	.0001
76	95-007944-C2 @5	.0012	16.99	.0538	.0217	.0005	-.0000
77	95-007944-C2	.0010	85.08	.2702	.1350	.0011	.0001
78	MCVA 950728I901	.4802	24.31	2.633	1.943	.4993	.0942
79	SST-ICS-0 950908I100	-.0116	96.72	.1548	-.0106	-.0001	.0007
80	STD1-Blank 108444	-.0013	.0005	.0014	-.0093	-.0004	-.0000
81	95-007945-C1 @5	-.0030	15.20	.0298	.0096	-.0006	-.0001
82	95-007945-C1	.0000	75.96	.2026	.0903	.0004	.0000
83	95-007945-C2 @5	-.0037	16.94	.0536	.0245	-.0006	-.0001
84	95-007945-C2	-.0007	81.26	.3015	.1555	.0003	.0000
85	95-007946-C1 @5	-.0017	10.52	.0319	.0123	-.0000	-.0001
86	95-007946-C1	.0018	52.45	.1294	.0978	.0012	.0001
87	95-007946-C2 @5	.0008	12.89	.0349	.0168	.0010	.0000
88	95-007946-C2	.0040	64.84	.1593	.1229	.0018	.0001
89	MCVA 950728I901	.4677	23.76	2.542	1.884	.4865	.0917
90	SST-ICS-0 950908I100	-.0142	96.25	.1229	-.0117	-.0004	.0006
91	STD1-Blank 108444	-.0014	.0004	.0014	-.0097	-.0004	-.0000
92	95-007947-C1 @5	-.0014	9.356	.0270	.0328	-.0001	-.0001
93	95-007947-C1	-.0001	46.05	.1937	.2051	.0007	.0000
94	95-007947-C2 @5	-.0027	10.69	.0227	.0377	.0001	-.0001
95	95-007947-C2	-.0007	52.30	.1839	.2197	.0024	.0000
96	95-007948-C1 @5	-.0019	8.714	.0156	.0331	.0000	-.0000
97	95-007948-C1	-.0011	44.21	.1496	.2089	.0009	.0000
98	95-007948-C2 @5	-.0036	10.24	.0384	.0454	.0003	-.0000
99	95-007948-C2	-.0042	48.15	.2878	.2489	-.0001	-.0001
100	MCVA 950728I901	Q.4448	22.72	2.391	Q1.795	.4621	Q.0859
101	MCVA 950728I901	.4519	22.77	2.434	1.804	.4612	Q.0867
102	MCVA 950728I901	.4720	24.03	2.544	1.902	.4887	.0910
103	SST-ICS-0 950908I100	-.0111	97.29	.1270	-.0017	.0004	.0006
104	MCVB 950911H901	.0030	-.1563	.0117	.0022	.0006	.0003
105	SRM-1643c 103668	Q.0015	Q.1051	Q.0776	Q.1120	.0490	.0219
106	CCV1 950713H901	.0035	1.880	2.021	1.900	.9809	.9586
107	STD1-Blank 108444	.0022	.0050	.0041	.0001	.0005	.0001

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1437	1311	439	6354.33	1440	467.667
2	SPC-BLK 108444	-.0010	.0052	.0001	.0174	.0017	.0008
3	SPC-STD 950831I101	1733	1266.33	460.333	6420	1455.33	492.333
4	SPC-STD 950831I101	.0057	-.0092	.0020	.0299	.0034	.0046
5	STD1-Blank	.1444	.13099	.0441	.63503	.14366	.04766
6	STD2					17.9359	12.9645
7	STD3		81.6629	10.1901			
8	STD4				25.736		
9	STD5						
10	STD6						
11	STD7						
12	STD8	27.7811					
13	STD9						
14	STD1-Blank 108444	.0009	-.0028	.0008	.0008	.0009	-.0003
15	MCVA 950728I901	24.58	25.05	.5034	-.0286	1.036	1.032
16	MCVA 950728I901	24.61	25.12	.5055	-.0283	1.040	1.039
17	OLD MCVB 950905H901	-.0116	.0106	.0004	1.945	.0008	.0011
18	NEW MCVB 950911H901	-.0119	.0103	.0015	1.955	.0028	.0021
19	SRM-1643c 103668	-.0023	35.66	.0125	-.0041	.0234	Q.0197
20	CCV1 950713H901	1.906	1.933	.9873	.0106	1.048	.5259
21	STD1-Blank 108444	.0055	-.0003	.0002	-.0038	-.0013	.0004
22	95-007932-C3	.0148	-.0314	.0024	.0435	.0037	.0020
23	95-007932-C1 @5	.0103	-.0342	.0012	-.0009	.0192	.6400
24	SST-ICS-0 950908I100	.0553	.0649	.0109	-.1449	.0033	.0359
25	Na @500 PPM	-.0106	.2578	-.0003	-.0194	-.0027	.0004
26	95-007932-C1	.0485	-.0215	.0032	.0251	.0967	3.124
27	95-007932-C2 @5	.0152	-.0317	.0005	-.0067	.0179	.6078
28	95-007931-C2	.0508	-.0179	.0026	.0379	.0940	2.997
29	MCVA 950728I901	24.75	25.22	.5079	-.0475	1.047	1.044
30	STD1-Blank 108444	.0012	.0014	.0014	-.0104	-.0016	.0015
31	95-007935-C1 @5	.0036	-.0274	.0006	-.0101	.0173	.6657
32	95-007935-C1	.0497	-.0144	.0009	.0362	.0932	3.178
33	95-007935-C2 @5	.0133	-.0309	.0019	.0010	.0173	.6138
34	95-007935-C2	.0502	-.0114	.0016	.0314	.0880	3.004
35	MCVA 950728I901	24.78	25.16	.5056	-.0550	1.045	1.043
36	SST-ICS-0 950908I100	.0470	.0637	.0086	-.1478	.0036	.0356
37	STD1-Blank 108444	-.0009	.0000	.0006	-.0099	-.0015	.0006
38	STD1-Blank	.14476	.12973	.04493	.62809	.14386	.04773
39	STD2					18.3288	13.1536
40	STD3		.43823	1.13763			
41	STD3		82.0539	10.1453			
42	STD4				25.6155		
43	STD5						
44	STD6						
45	STD7						
46	STD8	27.96					
47	STD9						
48	STD1-Blank 108444	-.0054	-.0069	.0002	.0111	-.0004	-.0013
49	MCVA 950728I901	24.36	24.91	.4980	-.0158	1.015	1.015
50	MCVA 950728I901	24.56	24.79	.4964	-.0326	1.020	1.026
51	STD1-Blank	.14596	.12923	.0438	.62933	.14323	.04639
52	STD3		82.5582	10.2855			
53	STD1-Blank 108444	-.0047	.0046	.0006	-.0051	.0002	.0012

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
54	MCVA 950728I901	23.87	24.27	.4841	-.0050	.9983	.9973
55	SST-ICS-0 950908I100	.0431	.0634	.0088	-.1487	.0027	.0365
56	STD1-Blank 108444	-.0077	-.0052	.0007	-.0046	.0002	.0020
57	95-007941-C	.0191	.7969	.0023	.0611	.0048	.0012
58	95-007941-C1 @5	-.0072	.0537	.0015	.0032	.0023	.0944
59	95-007941-C1	.0129	.2146	.0012	.0120	.0158	.4862
60	95-007941-C2 @5	.0005	.0477	.0001	-.0020	.0014	.0900
61	95-007941-C2	.0080	.2469	.0011	.0193	.0162	.4757
62	95-007942-C1 @5	-.0011	1.125	-.0001	-.0041	.0030	.1341
63	95-007942-C1	.0243	1.499	.0009	.0438	.0246	.6551
64	95-007942-C1 @5	-.0002	1.359	-.0011	-.0017	.0027	.1293
65	95-007942-C2	.0144	1.406	.0003	.0429	.0242	.6377
66	MCVA 950728I901	24.39	24.82	.4913	-.0302	1.025	1.029
67	SST-ICS-0 950908I100	.0601	.0695	.0089	-.1385	.0043	.0384
68	STD1-Blank 108444	.0021	.0032	.0001	.0065	.0011	.0015
69	Na @1000 PPM	.0079	.2904	.0014	.0173	.0027	.0013
70	95-007943-C1 @5	.0058	1.497	-.0005	.0054	.0069	.2354
71	95-007943-C1	.0249	.0558	.0006	.0452	.0400	1.161
72	95-007943-C2 @5	.0033	1.553	.0001	.0111	.0083	.2560
73	95-007943-C2	.0251	.0517	.0000	.0440	.0433	1.269
74	95-007944-C1 @5	.0043	.5110	.0004	.0037	.0066	.2224
75	95-007944-C1	.0180	1.078	-.0009	.0087	.0318	1.069
76	95-007944-C2 @5	.0076	.4390	-.0001	.0107	.0063	.1754
77	95-007944-C2	.0173	.6168	-.0011	.0263	.0280	.8603
78	MCVA 950728I901	24.21	24.84	.4918	-.0143	1.024	1.015
79	SST-ICS-0 950908I100	.0590	.0699	.0085	-.1256	.0041	.0382
80	STD1-Blank 108444	-.0053	.0017	.0006	-.0100	-.0006	.0001
81	95-007945-C1 @5	-.0049	.1519	-.0010	-.0035	.0126	.1284
82	95-007945-C1	.0099	.4126	-.0003	.0034	.0771	.6583
83	95-007945-C2 @5	-.0085	.1832	-.0006	-.0193	.0142	.1438
84	95-007945-C2	.0209	.3748	-.0014	.0065	.0838	.7028
85	95-007946-C1 @5	-.0014	.5470	-.0004	-.0105	.0220	.1168
86	95-007946-C1	.0225	.1716	.0007	.0143	.1101	.5893
87	95-007946-C2 @5	.0121	.7371	.0001	.0062	.0285	.1514
88	95-007946-C2	.0276	.1557	.0023	.0286	.1372	.7500
89	MCVA 950728I901	23.53	24.09	.4809	-.0169	.9959	.9976
90	SST-ICS-0 950908I100	.0550	.0659	.0077	-.1608	.0021	.0376
91	STD1-Blank 108444	.0002	.0001	-.0003	-.0094	-.0014	-.0015
92	95-007947-C1 @5	.0045	.2047	-.0001	-.0053	.0224	.0499
93	95-007947-C1	.0276	.4154	.0004	.0070	.1152	.2539
94	95-007947-C2 @5	.0031	.3027	.0007	-.0155	.0249	.0567
95	95-007947-C2	.0387	1.047	-.0001	-.0019	.1259	.2765
96	95-007948-C1 @5	-.0014	.0724	-.0003	-.0102	.0226	.0762
97	95-007948-C1	.0179	.1966	.0006	-.0030	.1138	.3799
98	95-007948-C2 @5	.0042	.2000	.0000	-.0186	.0244	.0861
99	95-007948-C2	.0083	.2434	-.0015	-.0255	.1205	.4075
100	MCVA 950728I901	Q22.22	22.61	Q.4462	-.0021	.9354	.9311
101	MCVA 950728I901	Q22.45	23.06	.4592	.0248	.9550	.9499
102	MCVA 950728I901	23.52	24.00	.4734	.0149	.9931	.9878
103	SST-ICS-0 950908I100	.0637	.0755	.0099	-.1433	.0053	.0389
104	MCVB 950911H901	.0045	.0197	-.0001	2.003	.0038	.0011
105	SRM-1643c 103668	.0186	Q34.84	.0130	.0072	Q.0258	Q.0200
106	CCV1 950713H901	1.888	1.911	.9658	.0299	1.027	.5088
107	STD1-Blank 108444	-.0007	.0020	-.0011	.0132	.0020	.0001

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	456	1970	340.667	572	2196	998.667
2	SPC-BLK 108444	-.0022	.0023	.0003	.0012	.7615	.0020
3	SPC-STD 950831I101	23694.7	2218.33	344	630.667	2213.67	1009.67
4	SPC-STD 950831I101	10.16	-.0011	.0008	.0008	1.082	.0053
5	STD1-Blank	.04736	.1966	.03409	.05719	.21953	.09993
6	STD2	4.59713			76.2377		
7	STD3					3.23539	
8	STD4		50.3269	11.5604			6.34486
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	.0002	.0003	.0002	-.0008	-.0497	.0005
15	MCVA 950728I901	1.008	.0005	.0022	20.60	Q27.56	.0054
16	MCVA 950728I901	1.012	.0003	.0021	20.64	26.79	.0052
17	OLD MCVB 950905H901	.0058	1.983	1.972	.0008	-.2874	1.990
18	NEW MCVB 950911H901	-.0046	1.965	1.956	.0018	.1824	1.983
19	SRM-1643c 103668	Q.0154	-.0016	.0007	Q.1165	Q2.006	.0036
20	CCV1 950713H901	2.021	.0009	.0007	2.029	4.913	.0015
21	STD1-Blank 108444	-.0008	-.0005	-.0002	-.0002	.0442	.0005
22	95-007932-C3	.0037	.0059	.0015	.0086	1.398	.0119
23	95-007932-C1 @5	.0063	.0002	.0000	.2714	6.173	.0014
24	SST-ICS-0 950908I100	-.0137	-.0037	.0002	20.25	-.0553	.0058
25	Na @500 PPM	-.0029	-.0026	-.0010	.0030	-.5968	-.0039
26	95-007932-C1	.0429	.0042	.0015	1.308	29.40	.0095
27	95-007932-C2 @5	.0063	-.0002	-.0001	.2586	5.880	.0008
28	95-007931-C2	.0433	.0053	.0020	1.256	28.12	.0121
29	MCVA 950728I901	1.016	-.0013	.0014	20.80	25.08	.0020
30	STD1-Blank 108444	-.0006	-.0009	-.0006	.0019	-.1989	-.0017
31	95-007935-C1 @5	.0212	-.0015	-.0006	.2209	5.963	-.0022
32	95-007935-C1	.1074	.0048	.0018	1.015	29.59	.0112
33	95-007935-C2 @5	.0202	.0004	.0002	.2063	5.930	.0026
34	95-007935-C2	.1030	.0044	.0017	.9854	28.26	.0109
35	MCVA 950728I901	1.015	-.0022	.0010	20.79	25.48	.0005
36	SST-ICS-0 950908I100	-.0109	-.0047	.0000	20.11	-.2321	.0047
37	STD1-Blank 108444	-.0010	-.0012	-.0005	.0016	-.2984	-.0014
38	STD1-Blank	.0456	.19556	.03386	.05676	.21646	.09916
39	STD2	4.62836			77.5038		
40	STD3					.22223	
41	STD3					3.08436	
42	STD4		50.1248	11.556			6.39306
43	STD5						
44	STD6						
45	STD7						
46	STD8						
47	STD9						
48	STD1-Blank 108444	.0083	.0000	.0002	-.0011	.0000	.0009
49	MCVA 950728I901	1.002	.0012	.0025	20.20	Q28.06	.0058
50	MCVA 950728I901	1.005	-.0006	.0020	20.32	Q28.78	.0028
51	STD1-Blank	.04693	.19493	.03386	.05683	.21506	.0992
52	STD3					3.25536	
53	STD1-Blank 108444	-.0016	.0000	-.0001	-.0012	-.0493	-.0003

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
54	MCVA 950728I901	.9677	.0032	.0029	19.79	26.70	.0096
55	SST-ICS-0 950908I100	-.0052	-.0044	.0002	20.03	.0110	.0004
56	STD1-Blank 108444	-.0025	.0000	.0000	-.0007	-.0055	-.0002
57	95-007941-C	.0057	.0074	.0024	.0102	1.799	.0134
58	95-007941-C1 @5	.0042	-.0002	-.0001	.0742	.8830	.0007
59	95-007941-C1	.0342	.0012	.0006	.3076	4.782	.0030
60	95-007941-C2 @5	.0068	-.0013	-.0001	.0648	.6910	-.0013
61	95-007941-C2	.0471	.0025	.0009	.2883	4.563	.0046
62	95-007942-C1 @5	-.0017	-.0007	-.0002	.0598	1.168	-.0016
63	95-007942-C1	.0105	.0062	.0021	.2698	7.393	.0113
64	95-007942-C1 @5	-.0012	-.0004	-.0001	.0630	1.212	-.0002
65	95-007942-C2	.0108	.0053	.0020	.2628	7.245	.0105
66	MCVA 950728I901	.9987	.0001	.0019	20.36	23.79	.0049
67	SST-ICS-0 950908I100	-.0103	-.0027	.0006	19.73	.0823	.0042
68	STD1-Blank 108444	-.0011	.0008	.0003	.0027	.1316	.0017
69	Na @1000 PPM	-.0004	.0021	.0006	.0067	.2303	.0030
70	95-007943-C1 @5	.0034	.0001	.0001	.1106	2.084	.0013
71	95-007943-C1	.0314	.0056	.0020	.5158	11.00	.0101
72	95-007943-C2 @5	.0098	.0013	.0006	.1165	2.457	.0031
73	95-007943-C2	.0472	.0055	.0020	.5573	11.77	.0112
74	95-007944-C1 @5	.0035	.0003	.0002	.0959	1.914	.0011
75	95-007944-C1	.0278	.0011	.0007	.4412	8.879	.0032
76	95-007944-C2 @5	.0031	.0017	.0007	.0776	1.870	.0033
77	95-007944-C2	.0295	.0037	.0014	.3434	8.024	.0074
78	MCVA 950728I901	.9804	.0019	.0025	20.28	24.42	.0078
79	SST-ICS-0 950908I100	-.0155	-.0032	.0006	19.98	-.0165	.0034
80	STD1-Blank 108444	-.0032	-.0011	-.0003	.0013	-.3510	-.0016
81	95-007945-C1 @5	-.0057	-.0027	-.0008	.7820	1.508	-.0041
82	95-007945-C1	-.0010	.0007	.0005	3.864	9.981	.0017
83	95-007945-C2 @5	-.0072	-.0030	-.0009	.8141	1.596	-.0053
84	95-007945-C2	-.0027	.0000	.0005	3.884	10.69	.0011
85	95-007946-C1 @5	-.0053	-.0013	-.0004	.7935	1.870	-.0026
86	95-007946-C1	-.0020	.0023	.0008	3.877	10.80	.0030
87	95-007946-C2 @5	-.0027	.0015	.0004	.9795	2.929	.0017
88	95-007946-C2	.0012	.0046	.0016	4.771	13.75	.0079
89	MCVA 950728I901	.9644	.0026	.0026	19.68	24.76	.0090
90	SST-ICS-0 950908I100	-.0183	-.0043	.0002	19.69	-.1536	.0009
91	STD1-Blank 108444	-.0044	-.0013	-.0005	.0015	-.3565	-.0018
92	95-007947-C1 @5	-.0031	-.0011	-.0004	.8236	1.832	-.0012
93	95-007947-C1	.0063	.0011	.0006	3.825	9.652	.0020
94	95-007947-C2 @5	-.0035	-.0018	-.0005	1.017	1.821	-.0031
95	95-007947-C2	.0068	-.0001	.0003	4.717	11.47	.0004
96	95-007948-C1 @5	-.0042	-.0011	-.0003	.7048	1.678	-.0030
97	95-007948-C1	.0001	.0001	.0002	3.227	9.768	.0000
98	95-007948-C2 @5	-.0052	-.0026	-.0007	.9510	1.854	-.0048
99	95-007948-C2	-.0016	-.0036	-.0007	3.630	9.828	-.0058
100	MCVA 950728I901	.9197	.0045	.0029	18.44	26.55	.0112
101	MCVA 950728I901	.9180	.0082	.0041	18.68	26.28	.0175
102	MCVA 950728I901	.9762	.0044	.0031	19.56	27.45	.0115
103	SST-ICS-0 950908I100	.0056	-.0017	.0011	19.70	.3998	.0052
104	MCVB 950911H901	.0036	2.009	1.992	.0064	.4382	2.012
105	SRM-1643c 103668	.0200	.0006	.0013	Q.1174	2.503	.0081
106	CCV1 950713H901	1.996	.0037	.0016	1.980	5.729	.0081
107	STD1-Blank 108444	.0023	.0021	.0007	-.0007	.3505	.0034

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	420.667	2408.33	199.667	813.333	417.667	3715.67
2	SPC-BLK 108444	.0023	.0015	.0005	.0011	.0305	.0116
3	SPC-STD 950831I101	29150.3	2519	73956	843	422	3747
4	SPC-STD 950831I101	10.93	.0113	10.36	-.0001	.0486	.0203
5	STD1-Blank	.0421	.24093	.02033	.08089	.04193	.37073
6	STD2		46.7079		12.269	6.16273	
7	STD3	14.1341		7.31366			
8	STD4						17.2329
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank 108444	-.0004	-.0048	-.0005	.0005	-.0014	.0034
15	MCVA 950728I901	1.998	26.72	.5126	1.035	25.32	.0152
16	MCVA 950728I901	1.956	26.74	.5144	1.039	24.72	.0096
17	OLD MCVB 950905H901	-.0001	.0700	.0001	-.0023	-.0222	1.944
18	NEW MCVB 950911H901	.0014	.0912	.0004	.0001	.0144	1.936
19	SRM-1643c 103668	Q.0099	Q9.973	.0350	.1032	Q11.19	.0030
20	CCV1 950713H901	1.876	2.107	1.021	2.017	7.581	.0080
21	STD1-Blank 108444	-.0004	.0034	-.0003	-.0008	-.0095	-.0006
22	95-007932-C3	.0050	.0228	.0003	.0012	.7473	.0391
23	95-007932-C1 @5	.0030	.0072	.0004	.0311	407.0	.0033
24	SST-ICS-0 950908I100	.0024	.2746	.0013	.0063	.0199	-.0232
25	Na @500 PPM	-.0013	-.0050	-.0002	-.0019	491.9	-.0132
26	95-007932-C1	.0129	.0123	.0032	.1618	1834.	.0251
27	95-007932-C2 @5	.0019	-.0015	.0004	.0284	389.5	.0010
28	95-007931-C2	.0134	.0243	.0035	.1539	1750.	.0336
29	MCVA 950728I901	1.916	26.89	.5179	1.047	24.19	.0001
30	STD1-Blank 108444	-.0001	.0030	-.0003	.0002	-.0053	-.0023
31	95-007935-C1 @5	.0000	.0038	.0005	.0323	395.7	-.0096
32	95-007935-C1	.0112	.0197	.0033	.1606	1744.	.0328
33	95-007935-C2 @5	.0024	.0030	.0006	.0279	365.8	.0067
34	95-007935-C2	.0102	.0200	.0034	.1509	1670.	.0319
35	MCVA 950728I901	1.946	26.88	.5172	1.046	24.49	-.0029
36	SST-ICS-0 950908I100	.0021	.2818	.0013	.0070	-.0109	-.0264
37	STD1-Blank 108444	-.0009	.0003	-.0003	-.0008	-.0121	-.0086
38	STD1-Blank	.04176	.23993	.01973	.08173	.04143	.36853
39	STD2		47.2094		12.5598	5.98643	
40	STD3	.05263		.02759			
41	STD3	13.5764		7.32149			
42	STD4						17.2495
43	STD5						
44	STD6						
45	STD7						
46	STD8						
47	STD9						
48	STD1-Blank 108444	-.0006	-.0034	.0003	-.0003	.0028	.0023
49	MCVA 950728I901	2.030	26.31	.5115	1.015	25.48	.0208
50	MCVA 950728I901	2.079	26.51	.5090	1.021	26.65	.0069
51	STD1-Blank	.04196	.23899	.01996	.08183	.04143	.3675
52	STD3	14.4438		7.41326			
53	STD1-Blank 108444	.0014	-.0037	.0002	-.0010	-.0112	-.0033

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
54	MCVA 950728I901	1.884	25.81	.4956	1.001	25.25	.0335
55	SST-ICS-0 950908I100	.0021	.2590	.0008	.0065	.0067	-.0262
56	STD1-Blank 108444	-.0007	-.0026	-.0005	-.0010	-.0014	.0006
57	95-007941-C	.0067	.2515	.0008	.0014	.3893	.0515
58	95-007941-C1 @5	.0557	.0307	.0012	.0031	186.2	.0045
59	95-007941-C1	.2839	.0902	.0040	.0239	933.3	.0122
60	95-007941-C2 @5	.0597	.0198	.0008	.0024	170.6	-.0039
61	95-007941-C2	.2924	.0967	.0039	.0227	810.0	.0220
62	95-007942-C1 @5	.0009	.0108	.0000	.0050	461.3	.0001
63	95-007942-C1	.0137	.0459	.0013	.0363	2024.	.0443
64	95-007942-C1 @5	.0010	.0112	.0001	.0043	449.9	.0018
65	95-007942-C2	.0137	.0714	.0012	.0337	2019.	.0415
66	MCVA 950728I901	1.819	26.41	.5090	1.025	24.04	.0106
67	SST-ICS-0 950908I100	.0038	.2853	.0014	.0078	.0277	-.0170
68	STD1-Blank 108444	.0013	-.0018	.0000	-.0007	.0194	.0100
69	Na @1000 PPM	.0033	.0106	.0004	.0007	974.4	.0145
70	95-007943-C1 @5	.0424	.0279	.0004	.0088	316.4	.0035
71	95-007943-C1	.2061	.0257	.0016	.0602	1463.	.0376
72	95-007943-C2 @5	.0136	.0377	.0006	.0116	352.8	.0113
73	95-007943-C2	.0637	.0331	.0015	.0652	1644.	.0379
74	95-007944-C1 @5	.0120	.0308	.0003	.0108	397.0	.0051
75	95-007944-C1	.0571	.0936	.0011	.0564	1777.	.0070
76	95-007944-C2 @5	.0109	.0360	.0004	.0098	365.0	.0124
77	95-007944-C2	.0489	.0446	.0009	.0478	1686.	.0257
78	MCVA 950728I901	1.816	26.30	.5081	1.019	24.17	.0212
79	SST-ICS-0 950908I100	.0028	.2949	.0014	.0082	.0121	-.0213
80	STD1-Blank 108444	-.0014	-.0090	-.0001	-.0007	-.0040	-.0048
81	95-007945-C1 @5	-.0014	-.0027	-.0001	.0061	288.5	-.0161
82	95-007945-C1	.0018	.0680	.0010	.0471	1332.	.0057
83	95-007945-C2 @5	-.0022	-.0074	-.0002	.0069	411.2	-.0178
84	95-007945-C2	.0033	.0569	.0008	.0520	1816.	.0024
85	95-007946-C1 @5	-.0004	.0113	.0002	.0048	175.5	-.0074
86	95-007946-C1	.0021	.0422	.0010	.0350	825.6	.0137
87	95-007946-C2 @5	.0005	.0417	.0007	.0069	237.0	.0107
88	95-007946-C2	.0046	.0557	.0014	.0467	1116.	.0254
89	MCVA 950728I901	1.810	25.63	.4937	.9904	24.11	.0246
90	SST-ICS-0 950908I100	.0027	.2758	.0008	.0063	.0202	-.0245
91	STD1-Blank 108444	-.0013	-.0048	-.0003	-.0014	.0045	-.0068
92	95-007947-C1 @5	-.0003	.0090	.0009	.0042	266.1	-.0055
93	95-007947-C1	.0031	.0448	.0036	.0353	1218.	.0065
94	95-007947-C2 @5	-.0006	.0124	.0020	.0043	304.9	-.0112
95	95-007947-C2	.0014	.1030	.0095	.0379	1415.	.0020
96	95-007948-C1 @5	-.0004	.0102	.0013	.0041	280.8	-.0081
97	95-007948-C1	.0016	.0363	.0038	.0301	1320.	.0025
98	95-007948-C2 @5	-.0016	.0372	.0028	.0033	446.2	-.0156
99	95-007948-C2	-.0007	.0442	.0037	.0327	1884.	-.0218
100	MCVA 950728I901	1.858	24.12	.4617	.9345	25.03	.0322
101	MCVA 950728I901	1.803	24.42	.4682	.9465	24.25	.0571
102	MCVA 950728I901	1.938	25.57	.4901	.9937	26.06	.0326
103	SST-ICS-0 950908I100	.0046	.2845	.0013	.0095	.0235	-.0125
104	MCVB 950911H901	.0027	.0991	.0005	.0010	.0155	1.991
105	SRM-1643c 103668	Q.0135	Q9.808	.0345	.1037	12.48	.0157
106	CCV1 950713H901	1.908	2.071	.9999	1.971	8.241	.0262
107	STD1-Blank 108444	.0012	.0104	.0001	.0018	.0151	.0122

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	475.333	1314.67	13583.3	15464.7	15378	2641
2	SPC-BLK 108444	.0027	.0041	.0148	.0294	.0164	-.0007
3	SPC-STD 950831I101	488.667	1478.33	139244	15647	15532.3	2742.67
4	SPC-STD 950831I101	.0070	.0004	10.61	.0646	.0310	.0267
5	STD1-Blank	.04773	.13033	1.35873	1.54873	1.53743	.26379
6	STD2	6.13439		61.0939			
7	STD3		14.5259				
8	STD4						
9	STD5						37.2464
10	STD6						
11	STD7						
12	STD8						
13	STD9				21.7333	51.2997	
14	STD1-Blank 108444	.0009	.0079	.0078	.0146	.0025	-.0021
15	MCVA 950728I901	1.064	.0618	2.644	-.0125	.0013	2.535
16	MCVA 950728I901	1.071	.0649	2.650	-.0276	-.0023	2.512
17	OLD MCVB 950905H901	.0066	-.0222	.0363	1.848	1.941	-.0132
18	NEW MCVB 950911H901	.0087	.0067	.0571	1.873	1.950	-.0086
19	SRM-1643c 103668	.0625	.0201	@.0316	-.0234	-.0120	-.0199
20	CCV1 950713H901	2.114	4.859	2.098	.0166	.0078	-.0111
21	STD1-Blank 108444	.0021	-.0000	.0047	.0013	.0017	.0021
22	95-007932-C3	.0055	.0070	.0293	.1048	.0485	.0116
23	95-007932-C1 @5	.7024	1.056	.1521	-.0007	.0041	-.0106
24	SST-ICS-0 950908I100	52.70	.0183	.2023	-.4124	-.0432	-.0147
25	Na @500 PPM	.0042	-.0041	-.0132	-.0419	-.0178	.0028
26	95-007932-C1	3.430	5.450	.4806	.0799	.0514	-.0667
27	95-007932-C2 @5	.6766	1.012	.1549	-.0042	.0043	-.0149
28	95-007931-C2	3.299	5.253	.5189	.1085	.0632	-.0452
29	MCVA 950728I901	1.080	.0585	2.642	-.0515	-.0119	2.538
30	STD1-Blank 108444	-.0007	-.0032	-.0046	-.0162	-.0044	-.0026
31	95-007935-C1 @5	.5381	1.044	.1544	-.0212	-.0063	-.0190
32	95-007935-C1	2.557	5.330	.5450	.1019	.0623	-.0626
33	95-007935-C2 @5	.5065	1.013	.1751	.0194	.0108	-.0152
34	95-007935-C2	2.442	5.016	.5647	.0864	.0562	-.0759
35	MCVA 950728I901	1.076	.0384	2.640	-.0651	-.0210	2.539
36	SST-ICS-0 950908I100	52.47	.0069	.1893	-.4334	-.0443	-.0090
37	STD1-Blank 108444	.0087	.0068	.0016	-.0188	-.0065	.0015
38	STD1-Blank	.04769	.12986	1.34673	1.53999	1.52693	.26086
39	STD2	6.3074		61.851			
40	STD3		.15133				
41	STD3		14.4164				
42	STD4						
43	STD5						37.073
44	STD6						
45	STD7						
46	STD8						
47	STD9				21.8814	52.0983	
48	STD1-Blank 108444	-.0002	.0082	.0021	.0086	.0050	.0045
49	MCVA 950728I901	1.044	.0681	2.609	.0118	.0106	2.552
50	MCVA 950728I901	1.044	.0414	2.601	-.0323	-.0066	2.555
51	STD1-Blank	.04749	.13166	1.35226	1.53886	1.52286	.26673
52	STD3		14.6163				
53	STD1-Blank 108444	.0011	-.0034	-.0039	-.0053	-.0019	-.0126

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
54	MCVA 950728I901	1.030	.0675	2.565	.0346	.0265	2.505
55	SST-ICS-0 950908I100	51.96	.0234	.1891	-.4481	-.0458	-.0111
56	STD1-Blank 108444	.0049	.0111	-.0057	-.0050	.0012	-.0085
57	95-007941-C	.0027	.2544	.0296	.1405	.0610	.0134
58	95-007941-C1 @5	.1029	42.81	.0001	.0049	-.0002	-.0018
59	95-007941-C1	.5294	227.2	.0282	.0303	.0172	.0083
60	95-007941-C2 @5	.0965	32.85	-.0061	-.0139	-.0092	-.0097
61	95-007941-C2	.4833	172.1	.0355	.0461	.0205	-.0010
62	95-007942-C1 @5	.1414	1.417	.0033	-.0113	-.0052	-.0018
63	95-007942-C1	.6922	7.040	.0883	.1101	.0486	.0178
64	95-007942-C1 @5	.1333	1.468	.0088	-.0123	-.0043	-.0089
65	95-007942-C2	.6768	7.350	.0852	.1007	.0495	.0141
66	MCVA 950728I901	1.052	.0698	2.595	-.0222	-.0043	2.562
67	SST-ICS-0 950908I100	51.46	.0599	.1991	-.4594	-.0413	.0039
68	STD1-Blank 108444	.0045	.0029	.0022	.0176	.0075	-.0011
69	Na @1000 PPM	.0006	.0247	.0082	.0315	.0171	.0003
70	95-007943-C1 @5	.2412	9.505	.0136	.0049	.0045	-.0024
71	95-007943-C1	1.209	48.86	.0603	.1001	.0519	.0126
72	95-007943-C2 @5	.2641	10.37	.0291	.0245	.0118	.0049
73	95-007943-C2	1.341	53.63	.0701	.1009	.0510	.0165
74	95-007944-C1 @5	.1629	5.078	-.0003	.0081	.0020	-.0028
75	95-007944-C1	.8000	26.04	.0247	.0134	.0073	.0024
76	95-007944-C2 @5	.1308	5.707	.0142	.0331	.0149	-.0000
77	95-007944-C2	.6529	29.63	.0492	.0629	.0301	.0074
78	MCVA 950728I901	1.056	.0829	2.615	.0019	.0124	2.550
79	SST-ICS-0 950908I100	52.24	.0339	.1892	-.4889	-.0413	.0003
80	STD1-Blank 108444	.0018	.0168	-.0103	-.0184	-.0093	-.0005
81	95-007945-C1 @5	1.112	12.64	-.0176	-.0533	-.0210	-.0222
82	95-007945-C1	5.519	65.98	.0012	.0066	.0186	.0003
83	95-007945-C2 @5	1.009	10.93	-.0230	-.0622	-.0245	-.0071
84	95-007945-C2	4.856	55.55	.0110	-.0069	.0157	.0074
85	95-007946-C1 @5	1.493	15.87	-.0162	-.0247	-.0073	-.0058
86	95-007946-C1	7.341	81.61	.0131	.0317	.0396	.0008
87	95-007946-C2 @5	1.646	30.71	-.0014	.0146	.0135	-.0071
88	95-007946-C2	8.140	159.2	.0253	.0714	.0616	.0110
89	MCVA 950728I901	1.026	.1037	2.538	.0088	.0127	2.489
90	SST-ICS-0 950908I100	51.46	.0414	.1715	-.5018	-.0520	-.0034
91	STD1-Blank 108444	.0019	-.0063	-.0173	-.0243	-.0115	-.0052
92	95-007947-C1 @5	1.917	38.40	-.0114	-.0227	-.0054	-.0102
93	95-007947-C1	9.435	198.3	.0115	.0021	.0312	.0133
94	95-007947-C2 @5	1.682	48.54	-.0166	-.0423	-.0123	-.0092
95	95-007947-C2	8.064	247.5	.0272	-.0179	.0245	.0094
96	95-007948-C1 @5	1.317	49.87	-.0083	-.0271	-.0095	-.0069
97	95-007948-C1	6.522	261.6	.0062	-.0126	.0199	.0019
98	95-007948-C2 @5	1.471	66.97	-.0156	-.0500	-.0191	-.0089
99	95-007948-C2	6.801	334.3	-.0025	-.0836	-.0076	.0058
100	MCVA 950728I901	.9695	.0581	2.393	.0424	.0316	2.345
101	MCVA 950728I901	.9861	.0815	2.465	.1175	.0632	2.375
102	MCVA 950728I901	1.031	.0615	2.536	.0420	.0272	2.494
103	SST-ICS-0 950908I100	51.65	.0220	.1885	-.4577	-.0299	-.0033
104	MCVB 950911H901	.0247	.0048	.0556	2.027	1.984	.0030
105	SRM-1643c 103668	.0672	.0255	.0356	.0070	.0065	.0006
106	CCV1 950713H901	2.090	4.707	2.050	.0624	.0320	.0081
107	STD1-Blank 108444	.0075	.0006	.0126	.0305	.0169	.0050

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1555.33	4683	6950	140.667	10076	2393
2	SPC-BLK 108444	.0061	.2066	.0679	-.0003	.0176	.0026
3	SPC-STD 950831I101	1586	4706	7081	142	10788.3	2420.67
4	SPC-STD 950831I101	.0219	.2091	.0985	-.0002	.0140	.0091
5	STD1-Blank	.15386	.45896	.69389	.01406	1.0072	.23963
6	STD2				8.37473		
7	STD3						
8	STD4						12.3481
9	STD5						
10	STD6						
11	STD7		79.7375			57.0047	
12	STD8	4.00299					
13	STD9			8.71183			
14	STD1-Blank 108444	.0122	.7508	.0190	.0003	.0023	-.0010
15	MCVA 950728I901	2.521	19.53	-.0657	.5175	.0067	.0459
16	MCVA 950728I901	2.513	19.20	-.0792	.5168	-.0017	.0494
17	OLD MCVB 950905H901	-.0001	-.1334	1.949	-.0001	@1.772	5.054
18	NEW MCVB 950911H901	.0182	-.2043	2.024	.0001	1.816	5.064
19	SRM-1643c 103668	@.0080	-.3143	-.0319	.2629	-.0006	.0032
20	CCV1 950713H901	1.958	4.549	.0368	2.022	-.0056	.0093
21	STD1-Blank 108444	-.0028	-.0104	-.0182	-.0000	.0046	.0006
22	95-007932-C3	.0080	.0575	.1410	.0006	.0199	.0007
23	95-007932-C1 @5	-.0040	.1742	.0373	.0004	-.0142	.0041
24	SST-ICS-0 950908I100	.0188	-.0053	.0292	-.0002	-.0057	.7017
25	Na @500 PPM	.0033	1.099	-.0648	.0038	-.0119	-.0045
26	95-007932-C1	-.0011	.9492	.2695	.0011	-.0429	.0032
27	95-007932-C2 @5	-.0017	.1008	.0183	.0004	-.0173	.0021
28	95-007931-C2	.0112	.7727	.2890	.0013	-.0389	-.0005
29	MCVA 950728I901	2.542	19.08	-.1359	.5229	-.0022	.0441
30	STD1-Blank 108444	.0007	-.0701	-.0265	.0000	-.0041	-.0022
31	95-007935-C1 @5	-.0036	.1679	-.0005	.0042	-.0241	-.0016
32	95-007935-C1	-.0088	1.054	.2417	.0069	-.0422	.0046
33	95-007935-C2 @5	-.0058	.1102	.0370	.0036	-.0127	.0002
34	95-007935-C2	-.0185	.8972	.2207	.0118	-.0481	.0052
35	MCVA 950728I901	2.519	19.10	-.1350	.5246	-.0075	.0455
36	SST-ICS-0 950908I100	.0327	-.0527	.0148	-.0002	-.0048	.7067
37	STD1-Blank 108444	-.0003	-.0996	-.0261	-.0001	-.0019	-.0016
38	STD1-Blank	.15643	.39286	.6862	.0142	1.00119	.23673
39	STD2				8.68659		
40	STD3						
41	STD3						
42	STD4						12.3694
43	STD5						
44	STD6						
45	STD7		79.5024			56.8873	
46	STD8	4.07159					
47	STD9			8.74093			
48	STD1-Blank 108444	-.0055	.5820	.0146	.0002	-.0014	.0014
49	MCVA 950728I901	2.468	19.20	-.0273	.5070	.0017	.0421
50	MCVA 950728I901	2.489	19.10	-.2107	.5139	-.0075	.0433
51	STD1-Blank	.15513	.41646	.68366	.01446	.99729	.23623
52	STD3						
53	STD1-Blank 108444	-.0016	-.0240	.0118	-.0002	.0041	.0006

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
54	MCVA 950728I901	2.435	18.66	-.1188	.4961	.0098	.0413
55	SST-ICS-0 950908I100	.0223	-.0092	-.2614	-.0004	-.0096	.6946
56	STD1-Blank 108444	.0009	-.0453	.0138	-.0001	.0007	-.0015
57	95-007941-C	.0232	.1000	.1361	.0040	.0207	-.0054
58	95-007941-C1 @5	.0051	.5340	-.0048	.0013	.0036	-.0029
59	95-007941-C1	.0221	1.809	.0660	.0044	.0500	.0019
60	95-007941-C2 @5	-.0022	.5031	-.0344	.0011	-.0039	.0001
61	95-007941-C2	.0225	1.511	.0695	.0046	.0438	-.0019
62	95-007942-C1 @5	-.0054	.3138	-.0206	.0019	-.0084	-.0046
63	95-007942-C1	.0229	1.078	.1882	.0083	.0121	-.0060
64	95-007942-C1 @5	-.0046	.2555	-.0129	.0020	-.0102	-.0034
65	95-007942-C2	.0221	1.072	.1523	.0078	.0187	-.0019
66	MCVA 950728I901	2.498	19.17	-.0804	.5096	-.0061	.0425
67	SST-ICS-0 950908I100	.0214	.0704	.0497	-.0003	-.0034	.7298
68	STD1-Blank 108444	-.0028	.0161	.0161	.0000	.0060	-.0060
69	Na @1000 PPM	.0054	.0042	.0546	.0002	.0084	-.0008
70	95-007943-C1 @5	-.0024	.3046	.0110	.0018	-.0032	-.0058
71	95-007943-C1	.0402	1.110	.1833	.0012	.0217	.0015
72	95-007943-C2 @5	.0128	.3018	.0264	.0019	.0010	.0028
73	95-007943-C2	.0219	.9698	.1920	.0011	.0219	-.0029
74	95-007944-C1 @5	.0131	.2294	.0176	.0042	-.0019	-.0022
75	95-007944-C1	.0558	.6896	.0469	.0152	.0007	-.0037
76	95-007944-C2 @5	.0125	.2137	.0317	.0042	.0084	.0015
77	95-007944-C2	.0428	.6523	.1091	.0086	.0152	-.0051
78	MCVA 950728I901	2.497	19.00	-.0177	.5041	.0038	.0450
79	SST-ICS-0 950908I100	.0364	.0401	.0205	-.0004	-.0026	.7529
80	STD1-Blank 108444	.0019	-.0123	-.0342	-.0002	.0006	-.0027
81	95-007945-C1 @5	-.0050	.1266	-.1006	.0067	-.0137	-.0033
82	95-007945-C1	.0425	.3546	.0127	.0271	.0109	.0026
83	95-007945-C2 @5	.0087	.1375	-.1176	.0022	-.0169	-.0042
84	95-007945-C2	.0538	.3779	.0195	.0094	.0084	.0052
85	95-007946-C1 @5	-.0030	.0320	-.0373	.0093	-.0108	-.0023
86	95-007946-C1	.0199	.1483	.0388	.0264	.0167	.0066
87	95-007946-C2 @5	.0118	.0223	.0017	.0208	.0012	.0011
88	95-007946-C2	.0393	.1742	.1174	.0228	.0477	.0096
89	MCVA 950728I901	2.419	18.50	-.0231	.4914	.0043	.0419
90	SST-ICS-0 950908I100	.0161	.0148	-.0188	-.0005	-.0107	.7349
91	STD1-Blank 108444	.0021	-.0205	-.0527	-.0002	-.0090	-.0049
92	95-007947-C1 @5	.0046	.0714	-.0598	.0052	-.0056	-.0042
93	95-007947-C1	.0459	.3258	.0009	.0146	.0568	.0089
94	95-007947-C2 @5	.0071	.0443	-.0661	.0105	-.0038	.0032
95	95-007947-C2	.0359	.3540	.0050	.0409	.0543	.0144
96	95-007948-C1 @5	-.0088	.0380	-.0610	.0065	.0036	-.0024
97	95-007948-C1	.0273	.3483	-.0052	.0162	.0505	.0096
98	95-007948-C2 @5	.0015	.0444	-.0915	.0093	.0022	-.0004
99	95-007948-C2	.0604	.3603	-.0882	.0110	.0658	.0115
100	MCVA 950728I901	2.288	Q17.46	.0484	.4680	.0152	.0432
101	MCVA 950728I901	2.313	Q17.67	.1220	.4682	.0205	.0452
102	MCVA 950728I901	2.422	18.50	.0347	.4963	.0077	.0474
103	SST-ICS-0 950908I100	.0163	.0407	.0613	-.0002	-.0008	.7401
104	MCVB 950911H901	.0067	.0612	2.054	.0003	1.803	5.033
105	SRM-1643c 103668	Q.0077	.0258	-.0041	.2614	.0009	-.0038
106	CCV1 950713H901	1.941	4.913	.0982	1.998	-.0027	.0107
107	STD1-Blank 108444	-.0058	-.0010	.0373	.0004	.0050	.0036

#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	656	342.667	17519.7	993.667	311.333	259
2	SPC-BLK 108444	.0005	.0036	.2129	.0019	-.0016	.0010
3	SPC-STD 950831I101	666	372.667	17640.3	1006	322.667	261.667
4	SPC-STD 950831I101	.0018	.0546	.3113	.0037	.0020	.0017
5	STD1-Blank	.06576	.03436	1.74983	.0995	.03053	.02596
6	STD2	15.3397					
7	STD3						
8	STD4						
9	STD5				12.7601		3.3213
10	STD6			52.9315			
11	STD7						
12	STD8		1.21333				
13	STD9					3.3798	
14	STD1-Blank 108444	-.0002	-.0001	.0466	-.0002	.0115	.0001
15	MCVA 950728I901	1.006	2.524	.1089	.9909	.0426	.0002
16	MCVA 950728I901	1.007	2.527	.0230	.9915	.0372	.0003
17	OLD MCVB 950905H901	-.0003	-.0156	Q8.347	-.0031	Q1.150	.9699
18	NEW MCVB 950911H901	.0010	-.0026	Q8.459	-.0006	Q.5157	.9683
19	SRM-1643c 103668	.0075	.0050	.0963	Q.0275	.0069	-.0019
20	CCV1 950713H901	.0003	1.917	.0829	.9575	.0119	.0004
21	STD1-Blank 108444	.0001	.0043	-.0394	.0001	-.0040	.0000
22	95-007932-C3	.0027	.0027	.6103	.0044	.0098	.0025
23	95-007932-C1 @5	.0002	.1677	-.0155	.0002	.1426	.0000
24	SST-ICS-0 950908I100	.0015	.2233	49.99	.0014	.0457	.0031
25	Na @500 PPM	-.0010	-.0034	-.2615	-.0019	-.0104	-.0010
26	95-007932-C1	.0016	.8274	.3422	.0032	.7400	.0015
27	95-007932-C2 @5	-.0000	.1585	-.0164	-.0000	.1255	-.0002
28	95-007931-C2	.0021	.8029	.5229	.0040	.7163	.0019
29	MCVA 950728I901	1.016	2.532	-.1206	.9987	.0237	-.0003
30	STD1-Blank 108444	-.0004	-.0014	-.1009	-.0003	-.0023	-.0004
31	95-007935-C1 @5	-.0005	.1592	-.1432	-.0010	1.668	-.0004
32	95-007935-C1	.0022	.8150	.5572	.0040	8.401	.0021
33	95-007935-C2 @5	.0003	.1525	.0730	.0009	1.545	.0005
34	95-007935-C2	.0027	.7780	.5633	.0038	7.969	.0017
35	MCVA 950728I901	1.018	2.530	-.1920	.9976	.0240	-.0007
36	SST-ICS-0 950908I100	.0013	.2164	49.75	.0011	.0556	.0027
37	STD1-Blank 108444	-.0006	-.0029	-.1223	-.0008	-.0047	-.0005
38	STD1-Blank	.06506	.03449	1.7323	.09846	.03116	.02569
39	STD2	15.6831					
40	STD3						
41	STD3						
42	STD4						
43	STD5				12.5722		3.24939
44	STD6			52.7958			
45	STD7						
46	STD8		1.2588				
47	STD9					3.36779	
48	STD1-Blank 108444	.0001	.0059	.0084	-.0007	.0014	-.0000
49	MCVA 950728I901	.9861	2.483	.2212	.9971	.0349	.0006
50	MCVA 950728I901	.9932	2.496	-.0212	1.004	.0198	.0002
51	STD1-Blank	.06496	.03503	1.72846	.09783	.03113	.02553
52	STD3						
53	STD1-Blank 108444	-.0003	-.0075	-.0377	-.0003	-.0004	-.0001

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#	Sample Name	Ti	Tl	U	V	W	Y
54	MCVA 950728I901	.9645	2.442	.4270	.9792	.0380	.0016
55	SST-ICS-0 950908I100	.0004	.2128	51.36	.0014	.0555	.0038
56	STD1-Blank 108444	.0000	-.0071	-.0064	-.0000	-.0000	.0003
57	95-007941-C	.0034	.0126	.7738	.0055	.0089	.0027
58	95-007941-C1 @5	.0011	.0131	.0136	.0705	.0202	-.0002
59	95-007941-C1	.0045	.0856	.2242	.3671	.1557	.0004
60	95-007941-C2 @5	.0006	.0111	-.0703	.0556	.0190	-.0005
61	95-007941-C2	.0047	.0776	.2980	.2912	.1489	.0008
62	95-007942-C1 @5	-.0002	.0316	-.0726	.0002	.0220	-.0006
63	95-007942-C1	.0027	.1727	.6735	.0070	.1681	.0020
64	95-007942-C1 @5	.0000	.0279	-.0290	.0005	.0199	-.0004
65	95-007942-C2	.0025	.1649	.5620	.0072	.1647	.0020
66	MCVA 950728I901	.9938	2.499	.0954	1.004	.0205	-.0000
67	SST-ICS-0 950908I100	.0012	.2149	49.79	.0030	.0468	.0038
68	STD1-Blank 108444	.0005	.0012	.1250	.0008	.0032	.0000
69	Na @1000 PPM	.0010	.0149	.2368	.0019	.0080	.0006
70	95-007943-C1 @5	.0001	.0424	.0406	.0093	.0626	-.0002
71	95-007943-C1	.0023	.2319	.6082	.0478	.3298	.0020
72	95-007943-C2 @5	.0007	.0513	.1332	.0097	.0648	.0000
73	95-007943-C2	.0024	.2448	.5732	.0481	.3536	.0020
74	95-007944-C1 @5	-.0000	.0572	.1116	.0056	.5243	-.0003
75	95-007944-C1	.0002	.2954	.3767	.0282	2.697	.0000
76	95-007944-C2 @5	.0009	.0575	.2421	.0079	.4160	.0003
77	95-007944-C2	.0016	.2344	.5651	.0346	2.170	.0011
78	MCVA 950728I901	.9866	2.491	.2604	.9996	.0192	.0006
79	SST-ICS-0 950908I100	.0008	.2137	50.45	.0031	.0395	.0035
80	STD1-Blank 108444	-.0004	-.0005	-.0949	-.0005	-.0083	-.0007
81	95-007945-C1 @5	-.0011	.0383	-.2280	.0004	.1004	-.0014
82	95-007945-C1	.0003	.1995	.2979	.0124	.5893	-.0001
83	95-007945-C2 @5	-.0012	.0425	-.1433	-.0002	.1130	-.0019
84	95-007945-C2	.0002	.2455	.5859	.0106	.6381	-.0003
85	95-007946-C1 @5	-.0004	.0355	-.0460	-.0007	.0093	-.0010
86	95-007946-C1	.0010	.1414	.5578	.0031	.0883	.0004
87	95-007946-C2 @5	.0004	.0411	.2898	.0015	.0150	.0001
88	95-007946-C2	.0019	.1819	.7564	.0058	.1154	.0014
89	MCVA 950728I901	.9596	2.433	.2807	.9732	.0281	.0006
90	SST-ICS-0 950908I100	.0005	.2112	50.19	.0013	.0340	.0031
91	STD1-Blank 108444	-.0004	.0073	-.1625	-.0010	-.0092	-.0008
92	95-007947-C1 @5	-.0003	.0218	-.0309	.0001	.0107	-.0007
93	95-007947-C1	.0007	.1676	.4790	.0052	.0907	.0001
94	95-007947-C2 @5	-.0008	.0308	-.0805	-.0007	.0069	-.0010
95	95-007947-C2	.0006	.1570	.7448	.0053	.0879	-.0000
96	95-007948-C1 @5	-.0003	.0242	-.0211	.0001	.0179	-.0008
97	95-007948-C1	-.0000	.1421	.4966	.0049	.1121	-.0004
98	95-007948-C2 @5	-.0009	.0310	-.0147	-.0010	.0136	-.0014
99	95-007948-C2	-.0013	.1923	.7818	.0025	.1356	-.0021
100	MCVA 950728I901	.9051	2.308	.4670	.9147	.0453	.0019
101	MCVA 950728I901	.9120	2.337	.8363	.9262	.0445	.0035
102	MCVA 950728I901	.9600	2.440	.4541	.9717	.0390	.0018
103	SST-ICS-0 950908I100	.0014	.2147	50.74	.0035	.0530	.0046
104	MCVB 950911H901	.0012	.0166	Q8.540	.0000	Q.4896	.9697
105	SRM-1643c 103668	.0081	Q.0248	.2896	.0291	.0124	-.0011
106	CCV1 950713H901	.0016	1.947	.4248	.9632	.0173	.0019
107	STD1-Blank 108444	.0006	.0030	.2015	.0014	.0070	.0009

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	334	822.667
2	SPC-BLK 108444	.0002	.0023
3	SPC-STD 950831I101	151823	830
4	SPC-STD 950831I101	10.36	.0032
5	STD1-Blank	.03303	.0824
6	STD2	29.5957	26.2631
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank 108444	.0005	-.0007
15	MCVA 950728I901	1.018	2.057
16	MCVA 950728I901	1.025	2.061
17	OLD MCVB 950905H901	.0018	-.0078
18	NEW MCVB 950911H901	.0021	-.0078
19	SRM-1643c 103668	Q.0844	-.0017
20	CCV1 950713H901	1.034	-.0005
21	STD1-Blank 108444	-.0009	-.0002
22	95-007932-C3	-.0008	.0043
23	95-007932-C1 @5	.0118	-.0004
24	SST-ICS-0 950908I100	-.0292	10.14
25	Na @500 PPM	.0039	.0025
26	95-007932-C1	.0499	.0035
27	95-007932-C2 @5	.0116	-.0001
28	95-007931-C2	.0481	.0047
29	MCVA 950728I901	1.035	2.084
30	STD1-Blank 108444	-.0004	-.0008
31	95-007935-C1 @5	.0247	-.0012
32	95-007935-C1	.0970	.0037
33	95-007935-C2 @5	.0209	.0005
34	95-007935-C2	.0886	.0032
35	MCVA 950728I901	1.036	2.086
36	SST-ICS-0 950908I100	-.0275	10.10
37	STD1-Blank 108444	-.0012	.0005
38	STD1-Blank	.03386	.08136
39	STD2	30.6473	26.7409
40	STD3		
41	STD3		
42	STD4		
43	STD5		
44	STD6		
45	STD7		
46	STD8		
47	STD9		
48	STD1-Blank 108444	-.0009	-.0004
49	MCVA 950728I901	1.008	2.019
50	MCVA 950728I901	1.010	2.037
51	STD1-Blank	.0333	.081
52	STD3		
53	STD1-Blank 108444	.0003	-.0008

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#	Sample Name	Zn	Zr
54	MCVA 950728I901	.9881	1.979
55	SST-ICS-0 950908I100	-.0307	10.06
56	STD1-Blank 108444	.0004	.0004
57	95-007941-C	.0023	.0055
58	95-007941-C1 @5	.0016	.0007
59	95-007941-C1	.0044	.0009
60	95-007941-C2 @5	.0009	-.0013
61	95-007941-C2	.0047	.0019
62	95-007942-C1 @5	.0167	-.0011
63	95-007942-C1	.0017	.0048
64	95-007942-C1 @5	.0200	-.0006
65	95-007942-C2	.0023	.0038
66	MCVA 950728I901	1.020	2.042
67	SST-ICS-0 950908I100	-.0280	9.904
68	STD1-Blank 108444	.0008	.0021
69	Na @1000 PPM	.0070	.0016
70	95-007943-C1 @5	.0242	.0013
71	95-007943-C1	.0034	.0036
72	95-007943-C2 @5	.0245	.0004
73	95-007943-C2	.0036	.0041
74	95-007944-C1 @5	.0095	.0003
75	95-007944-C1	.0058	.0002
76	95-007944-C2 @5	.0061	.0010
77	95-007944-C2	.0023	.0024
78	MCVA 950728I901	1.023	2.029
79	SST-ICS-0 950908I100	-.0295	10.06
80	STD1-Blank 108444	-.0001	.0002
81	95-007945-C1 @5	.0007	-.0013
82	95-007945-C1	-.0011	-.0002
83	95-007945-C2 @5	.0019	-.0024
84	95-007945-C2	.0006	-.0010
85	95-007946-C1 @5	.0086	-.0014
86	95-007946-C1	-.0037	.0006
87	95-007946-C2 @5	.0117	.0004
88	95-007946-C2	-.0018	.0024
89	MCVA 950728I901	1.001	1.973
90	SST-ICS-0 950908I100	-.0299	9.911
91	STD1-Blank 108444	-.0001	.0001
92	95-007947-C1 @5	.0032	.0008
93	95-007947-C1	.0001	.0004
94	95-007947-C2 @5	.0025	-.0022
95	95-007947-C2	.0056	.0001
96	95-007948-C1 @5	.0009	-.0013
97	95-007948-C1	.0006	-.0010
98	95-007948-C2 @5	.0020	-.0025
99	95-007948-C2	.0023	-.0044
100	MCVA 950728I901	.9450	1.861
101	MCVA 950728I901	.9634	1.879
102	MCVA 950728I901	1.004	1.974
103	SST-ICS-0 950908I100	-.0288	9.931
104	MCVB 950911H901	.0016	-.0123
105	SRM-1643c 103668	Q.0862	.0005
106	CCV1 950713H901	1.034	.0019
107	STD1-Blank 108444	.0003	.0011

95D254A
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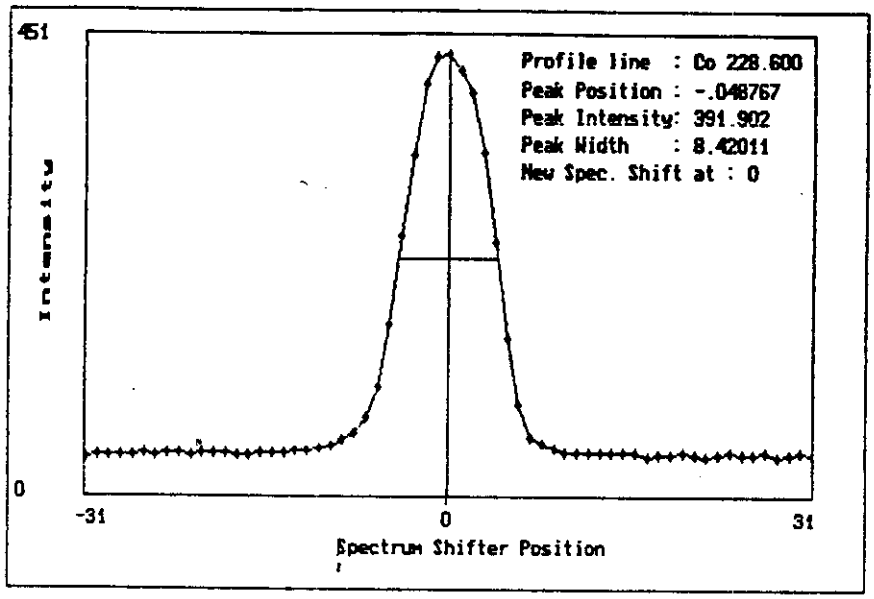
9/11/95 DKS



Analysis Report Mon 09-11-95 09:02:00 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/11/95 09:00:42
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6653	2113	1671	1102	308	175	1437
SDev	39	7	16	5	2	0	19
%RSD	.5922	.3488	.9546	.4566	.5624	.0000	1.289
#1	6663	2116	1653	1103	310	175	1451
#2	6687	2119	1684	1107	307	175	1444
#3	6610	2105	1675	1097	307	175	1416

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1311	439	6354	1440	468	456	1970
SDev	3	9	42	4	8	6	11
%RSD	.2642	2.088	.6550	.2504	1.728	1.221	.5348
#1	1313	441	6394	1443	463	457	1980
#2	1313	447	6358	1441	477	461	1971
#3	1307	429	6311	1436	463	450	1959

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	341	572	2196	999	421	2408	200
SDev	2	3	9	3	2	14	1
%RSD	.4484	.4625	.3891	.2891	.4948	.5668	.2892
#1	342	574	2204	1002	423	2423	199
#2	341	573	2197	997	419	2406	200
#3	339	569	2187	997	420	2396	200

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	813	418	3716	475	1315	13580	15460
SDev	6	1	18	2	19	40	77
%RSD	.6991	.2765	.4741	.3214	1.436	.2975	.4948
#1	815	417	3730	474	1331	13620	15530
#2	818	419	3721	475	1319	13540	15480
#3	807	417	3696	477	1294	13590	15380

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15380	2641	1555	4683	6950	141	10080
SDev	116	17	24	17	18	1	64
%RSD	.7547	.6602	1.523	.3554	.2558	.4104	.6389
#1	15480	2633	1528	4690	6944	141	10100
#2	15400	2661	1570	4695	6970	141	10130
#3	15250	2629	1568	4664	6936	140	10000

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2393	656	343	17520	994	311	259
SDev	17	3	2	49	4	2	1
%RSD	.6905	.4033	.6739	.2802	.4067	.4906	.3861
#1	2401	658	344	17570	996	313	260
#2	2404	657	344	17520	996	310	259
#3	2374	653	340	17470	989	311	258

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Elem	Zn	Zr
Avge	334	823
SDev	10	3
%RSD	3.039	.3907
#1	325	825
#2	345	824
#3	332	819

Analysis Report

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Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/11/95 09:00:42
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0089	.0033	.0064	-.0003	.0001	-.0010
SDev	.0012	.0034	.0060	.0005	.0002	.0000	.0067
%RSD	51.30	37.98	180.2	7.368	63.28	5.919	639.6
#1	.0024	.0093	-.0034	.0065	-.0001	.0001	.0040
#2	.0034	.0121	.0082	.0069	-.0004	.0001	.0015
#3	.0011	.0054	.0052	.0060	-.0004	.0001	-.0086

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	.0001	.0174	.0017	.0008	-.0022	.0023
SDev	.0009	.0009	.0080	.0004	.0013	.0023	.0009
%RSD	18.45	799.6	46.03	21.93	159.9	105.3	41.79
#1	.0056	.0004	.0250	.0020	.0000	-.0019	.0032
#2	.0058	.0009	.0181	.0018	.0023	-.0000	.0023
#3	.0041	-.0009	.0091	.0013	.0001	-.0047	.0013

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0012	.7615	.0020	.0023	.0015	.0005
SDev	.0002	.0006	.1549	.0008	.0008	.0058	.0001
%RSD	80.87	54.22	20.34	42.44	34.68	390.0	17.97
#1	.0005	.0016	.9065	.0029	.0032	.0079	.0004
#2	.0003	.0014	.7796	.0014	.0016	.0001	.0006
#3	.0000	.0004	.5983	.0016	.0020	-.0035	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0305	.0116	.0027	.0041	.0148	.0294
SDev	.0009	.0049	.0050	.0005	.0136	.0034	.0136
%RSD	81.21	15.91	42.61	19.90	328.1	22.83	46.27
#1	.0014	.0276	.0156	.0022	.0159	.0178	.0427
#2	.0019	.0361	.0132	.0026	.0073	.0112	.0299
#3	.0001	.0278	.0061	.0032	-.0108	.0155	.0155

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0164	-.0007	.0061	.2066	.0679	-.0003	.0176
SDev	.0113	.0047	.0127	.0038	.0110	.0001	.0057
%RSD	68.91	655.8	208.2	1.840	16.18	19.32	32.55
#1	.0267	-.0029	-.0085	.2076	.0620	-.0003	.0193
#2	.0181	.0047	.0138	.2097	.0806	-.0003	.0223
#3	.0043	-.0038	.0130	.2023	.0611	-.0004	.0112

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0005	.0036	.2129	.0019	-.0016	.0010
SDev	.0052	.0003	.0038	.0434	.0006	.0022	.0003

%RSD	201.6	58.61	106.3	20.37	29.52	136.3	27.54
#1	.0038	.0008	.0057	.2562	.0022	.0007	.0013
#2	.0071	.0007	.0060	.2132	.0022	-.0038	.0010
#3	-.0031	.0002	-.0008	.1695	.0012	-.0019	.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0002	.0023
SDev	.0007	.0003
%RSD	372.6	12.35
#1	-.0004	.0026
#2	.0009	.0022
#3	.0001	.0021

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/11/95 09:03:12
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6794	2154	1739	1144	312	176	1733
SDev	49	11	3	9	3	1	21
%RSD	.7247	.4965	.1725	.8072	.9262	.5682	1.212
#1	6836	2163	1739	1139	315	176	1733
#2	6807	2156	1742	1139	310	177	1754
#3	6740	2142	1736	1155	310	175	1712

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1266	460	6420	1455	492	23690	2218
SDev	7	12	49	8	7	169	9
%RSD	.5258	2.619	.7613	.5248	1.497	.7126	.4189
#1	1272	449	6465	1462	498	23510	2226
#2	1268	473	6427	1457	484	23730	2221
#3	1259	459	6368	1447	495	23850	2208

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	344	631	2214	1010	29150	2519	73960
SDev	2	3	12	8	680	17	216
%RSD	.5035	.5097	.5427	.8306	2.332	.6922	.2917
#1	345	633	2226	1015	28450	2539	73710
#2	345	632	2213	1014	29200	2507	74080
#3	342	627	2202	1000	29810	2511	74090

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	843	422	3747	489	1478	139200	15650
SDev	5	7	20	6	34	102	84
%RSD	.5436	1.659	.5331	1.234	2.324	.0735	.5337
#1	847	429	3770	488	1459	139100	15740
#2	838	422	3737	495	1518	139300	15630
#3	844	415	3734	483	1458	139300	15580

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15530	2743	1586	4706	7081	142	10790
SDev	108	18	25	31	28	1	90
%RSD	.6927	.6726	1.599	.6484	.3954	.7042	.8320
#1	15630	2727	1615	4731	7113	143	10860
#2	15550	2763	1575	4715	7061	142	10820
#3	15420	2738	1568	4672	7069	141	10690

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2421	666	373	17640	1006	323	262
SDev	12	5	1	99	5	5	2
%RSD	.4752	.6881	.3098	.5604	.5260	1.560	.5838
#1	2432	671	372	17730	1010	328	263
#2	2409	665	372	17650	1008	318	262
#3	2421	662	374	17540	1000	322	260

Elem	Zn	Zr
Avge	151800	830
SDev	387	6
%RSD	.2550	.6708
#1	151400	836
#2	152200	829
#3	151900	825

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	2.535	2.521	19.53	-.0657	.5175	.0067
SDev	.0014	.004	.002	.04	.0100	.0019	.0024
%RSD	111.9	.1482	.0729	.2104	15.16	.3730	35.93
#1	.0028	2.538	2.521	19.53	-.0602	.5178	.0042
#2	.0008	2.535	2.523	19.56	-.0773	.5193	.0069
#3	.0001	2.531	2.519	19.48	-.0598	.5155	.0090
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0459	1.006	2.524	.1089	.9909	.0426	.0002
SDev	.0004	.003	.020	.0586	.0019	.0066	.0003
%RSD	.9822	.3038	.8065	53.76	.1925	15.38	167.2
#1	.0462	1.006	2.547	.1057	.9917	.0470	.0005
#2	.0453	1.009	2.508	.0521	.9924	.0457	-.0001
#3	.0461	1.003	2.517	.1691	.9888	.0351	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.018	2.057
SDev	.004	.006
%RSD	.3588	.2790
#1	1.022	2.058
#2	1.018	2.063
#3	1.014	2.051
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 09:51:47
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS RKS 9/11

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4869	25.03	2.584	1.989	.5112	.0938	24.61
SDev	.0021	.15	.017	.013	.0045	.0007	.15
%RSD	.4328	.5930	.6494	.6527	.8813	.7005	.6276
#1	.4848	24.89	2.581	1.981	.5069	.0931	24.52
#2	.4869	25.04	2.570	1.982	.5109	.0938	24.52
#3	.4890	25.18	2.603	2.004	.5159	.0944	24.79
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.12	.5055	-.0283	1.040	1.039	1.012	.0003
SDev	.11	.0064	.0064	.005	.004	.008	.0009
%RSD	.4409	1.271	22.75	.4360	.3582	.8064	339.0
#1	25.02	.4983	-.0231	1.038	1.035	1.003	.0013
#2	25.09	.5106	-.0262	1.036	1.040	1.012	.0001
#3	25.24	.5076	-.0355	1.045	1.042	1.020	-.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	20.64	26.79	.0052	1.956	26.74	.5144
SDev	.0003	.13	.44	.0013	.008	.14	.0022
%RSD	14.83	.6282	1.628	24.17	.3934	.5200	.4348
#1	.0025	20.52	27.02	.0063	1.952	26.62	.5126
#2	.0020	20.62	27.07	.0055	1.965	26.71	.5136
#3	.0019	20.77	26.29	.0039	1.951	26.89	.5169
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.039	24.72	.0096	1.071	.0650	2.650	-.0276
SDev	.008	.12	.0064	.006	.0125	.011	.0137
%RSD	.7254	.4734	66.81	.5353	19.22	.4063	49.66
#1	1.031	24.69	.0162	1.065	.0530	2.641	-.0120
#2	1.040	24.85	.0093	1.073	.0779	2.662	-.0328
#3	1.046	24.63	.0033	1.076	.0640	2.647	-.0379
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	2.512	2.513	19.20	-.0792	.5168	-.0017
SDev	.0078	.018	.007	.06	.0309	.0043	.0063
%RSD	345.6	.7070	.2690	.3128	39.08	.8310	377.9
#1	.0032	2.524	2.509	19.15	-.0451	.5129	.0056
#2	.0012	2.491	2.510	19.20	-.1055	.5161	-.0046
#3	-.0112	2.519	2.521	19.27	-.0870	.5214	-.0059
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0494	1.007	2.527	.0230	.9915	.0372	.0003
SDev	.0011	.007	.014	.0821	.0056	.0040	.0003
%RSD	2.138	.6985	.5692	356.7	.5683	10.64	80.16
#1	.0498	1.000	2.518	.1128	.9866	.0416	.0006
#2	.0502	1.006	2.520	.0043	.9902	.0356	.0003
#3	.0482	1.014	2.543	-.0481	.9976	.0342	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.025	2.061
SDev	.004	.015
%RSD	.4046	.7389
#1	1.020	2.047
#2	1.027	2.057
#3	1.028	2.077
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 09:56:54 AM page 1

Method: ICP1 Sample Name: OLD MCVB 950905H901 Operator: DRS
Run Time: 09/11/95 09:55:35
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Fe, U, W-Low DJS 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	-.2178	-.0056	.0002	-.0002	.0002	-.0116
SDev	.0004	.0078	.0089	.0019	.0002	.0000	.0021
%RSD	13.06	3.559	160.7	1275.	103.6	21.23	17.87
#1	-.0034	-.2216	-.0156	-.0014	-.0005	.0002	-.0129
#2	-.0029	-.2230	-.0029	.0023	-.0002	.0002	-.0092
#3	-.0027	-.2089	.0017	-.0005	.0000	.0001	-.0128
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	.0004	1.945	.0008	.0011	.0058	1.983
SDev	.0006	.0007	.012	.0012	.0009	.0024	.015
%RSD	5.495	195.7	.6090	152.5	82.62	42.34	.7322
#1	.0103	-.0004	1.945	-.0000	.0004	.0084	1.993
#2	.0103	.0006	1.957	.0002	.0021	.0052	1.990
#3	.0113	.0010	1.933	.0021	.0008	.0036	1.966
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.972	.0008	-.2874	1.990	-.0001	.0700	.0001
SDev	.014	.0008	.1520	.009	.0012	.0129	.0001
%RSD	.7181	108.7	52.88	.4759	1252.	18.48	81.58
#1	1.981	.0012	-.4200	1.996	-.0013	.0847	.0000
#2	1.978	.0012	-.3205	1.994	.0012	.0645	.0001
#3	1.955	-.0002	-.1216	1.979	-.0002	.0607	.0001
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0222	1.944	.0066	-.0222	.0363	1.848
SDev	.0014	.0228	.010	.0011	.0140	.0067	.021
%RSD	61.18	102.8	.4974	16.09	63.03	18.40	1.111
#1	-.0038	-.0426	1.951	.0079	-.0063	.0287	1.872
#2	-.0022	-.0263	1.949	.0059	-.0275	.0389	1.837
#3	-.0010	.0024	1.933	.0062	-.0328	.0412	1.836
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.941	-.0132	-.0001	-.1334	1.949	-.0001	Q1.772
SDev	.015	.0087	.0103	.0093	.017	.0001	.003
%RSD	.7875	66.35	14110.	7.007	.8961	86.21	.1659
#1	1.952	-.0103	-.0022	-.1235	1.936	-.0001	Q1.776
#2	1.948	-.0230	-.0092	-.1345	1.941	-.0001	Q1.770
#3	1.924	-.0063	.0111	-.1421	1.969	-.0000	Q1.772
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.054	-.0003	-.0156	Q8.347	-.0031	Q1.150	.9699
SDev	.037	.0005	.0029	.066	.0005	.012	.0051
%RSD	.7387	150.3	18.53	.7853	16.88	1.067	.5242
#1	5.056	-.0004	-.0189	Q8.311	-.0036	Q1.161	.9729
#2	5.090	-.0007	-.0135	Q8.306	-.0033	Q1.153	.9729
#3	5.015	.0002	-.0144	Q8.422	-.0025	Q1.137	.9641
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0018	-.0078
SDev	.0005	.0008
%RSD	27.73	10.76
#1	.0022	-.0069
#2	.0013	-.0086
#3	.0021	-.0080
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: NEW MCVB 950911H901 Operator: DRS
Run Time: 09/11/95 09:59:13
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

U,W-low N/A for D.C. DRS 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	-.2035	.0027	-.0006	.0001	.0002	-.0119
SDev	.0010	.0037	.0027	.0009	.0001	.0000	.0078
%RSD	120.0	1.814	100.2	143.7	93.54	16.46	65.24
#1	.0009	-.2038	.0059	-.0003	.0001	.0002	-.0185
#2	-.0002	-.2070	.0009	.0000	.0002	.0002	-.0033
#3	.0018	-.1997	.0014	-.0017	.0000	.0003	-.0139
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0103	.0015	1.955	.0028	.0021	-.0046	1.965
SDev	.0014	.0001	.004	.0008	.0020	.0023	.009
%RSD	13.96	9.546	.2136	27.20	96.10	48.86	.4569
#1	.0118	.0015	1.953	.0037	.0007	-.0020	1.960
#2	.0089	.0016	1.960	.0022	.0012	-.0062	1.975
#3	.0102	.0014	1.953	.0026	.0044	-.0057	1.960
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.956	.0018	.1824	1.983	.0014	.0912	.0004
SDev	.010	.0006	.1410	.010	.0011	.0081	.0001
%RSD	.4959	35.37	77.32	.5202	75.54	8.844	28.23
#1	1.951	.0017	.1768	1.977	.0026	.1001	.0004
#2	1.967	.0012	.0442	1.995	.0012	.0890	.0002
#3	1.950	.0024	.3261	1.978	.0005	.0844	.0004
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0144	1.936	.0087	.0067	.0571	1.873
SDev	.0006	.0124	.008	.0010	.0054	.0044	.017
%RSD	440.8	85.98	.3897	11.39	81.53	7.793	.8923
#1	.0005	.0280	1.933	.0098	.0019	.0623	1.854
#2	-.0005	.0116	1.944	.0079	.0126	.0544	1.885
#3	.0004	.0037	1.930	.0086	.0055	.0547	1.880
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.950	-.0086	.0182	-.2043	2.024	.0001	1.816
SDev	.007	.0010	.0151	.0040	.018	.0001	.010
%RSD	.3633	11.72	83.11	1.968	.8867	82.89	.5487
#1	1.949	-.0097	.0265	-.2025	2.014	.0001	1.827
#2	1.957	-.0080	.0007	-.2089	2.013	.0000	1.815
#3	1.943	-.0080	.0273	-.2015	2.045	.0001	1.807
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.064	.0010	-.0026	Q8.459	-.0006	Q.5157	.9683
SDev	.016	.0003	.0069	.068	.0005	.0128	.0043
%RSD	.3190	31.52	262.2	.8011	85.95	2.485	.4487
#1	5.057	.0011	-.0105	Q8.509	-.0002	Q.5141	.9670
#2	5.082	.0007	.0023	Q8.485	-.0012	Q.5292	.9731
#3	5.052	.0013	.0004	Q8.382	-.0005	Q.5038	.9647
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0021	-.0078
SDev	.0001	.0004
%RSD	4.735	4.944
#1	.0022	-.0077
#2	.0020	-.0082
#3	.0020	-.0074
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Mon 09-11-95 10:04:46 AM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/11/95 10:03:27
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0001	Q.0968	.0826	Q.1082	.0489	.0220	-.0023
SDev	.0011	.0005	.0004	.0018	.0001	.0001	.0094
%RSD	885.2	.5319	.4931	1.685	.2928	.5986	408.3
#1	Q-.0002	Q.0974	.0822	Q.1062	.0488	.0219	-.0047
#2	Q.0010	Q.0965	.0826	Q.1090	.0488	.0219	.0081
#3	Q-.0012	Q.0965	.0830	Q.1096	.0490	.0221	-.0103
Errors	QC Fail	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.66	.0125	-.0041	.0234	Q.0197	Q.0154	-.0016
SDev	.19	.0012	.0056	.0011	.0019	.0001	.0009
%RSD	.5353	9.451	138.5	4.687	9.393	.7519	54.55
#1	35.56	.0131	-.0055	.0239	Q.0218	Q.0154	-.0016
#2	35.53	Q.0111	.0022	.0242	.0187	Q.0155	-.0007
#3	35.88	.0132	-.0088	Q.0222	.0185	Q.0153	-.0025
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	Q.1165	Q2.006	.0036	Q.0099	Q9.973	.0350
SDev	.0004	.0002	.077	.0016	.0005	.074	.0004
%RSD	58.68	.1554	3.817	43.90	5.469	.7420	1.113
#1	.0006	Q.1165	Q2.050	.0045	Q.0093	Q9.944	.0347
#2	.0011	Q.1163	Q2.050	.0046	Q.0104	Q9.918	.0348
#3	.0003	Q.1167	Q1.918	.0018	Q.0100	Q10.06	.0354
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1032	Q11.19	.0030	.0625	.0201	Q.0316	-.0234
SDev	.0014	.19	.0061	.0019	.0098	.0059	.0183
%RSD	1.376	1.715	202.2	3.077	48.88	18.78	78.03
#1	Q.1019	Q11.18	.0076	.0647	.0307	Q.0297	-.0266
#2	.1047	Q11.00	.0055	.0617	.0184	Q.0382	-.0038
#3	.1028	Q11.38	-.0040	.0611	.0113	Q.0268	-.0399
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

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Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0120	-.0199	Q.0080	-.3143	-.0319	.2629	-.0006
SDev	.0065	.0026	.0060	.0074	.0256	.0026	.0044
%RSD	53.73	13.16	75.23	2.341	80.38	.9772	751.4
#1	-.0113	-.0197	Q.0049	-.3119	-.0442	.2623	-.0009
#2	-.0060	-.0174	Q.0150	-.3085	-.0024	Q.2606	.0040
#3	-.0189	-.0227	Q.0042	-.3226	-.0491	.2657	-.0048
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0075	.0050	.0963	Q.0275	.0069	-.0019
SDev	.0016	.0001	.0028	.1184	.0005	.0048	.0005
%RSD	50.05	1.511	55.66	122.9	1.689	70.20	24.50
#1	.0015	.0074	.0035	.1017	Q.0275	.0028	-.0016
#2	.0047	.0076	.0082	.2120	Q.0280	.0056	-.0017
#3	.0035	.0074	.0033	-.0247	Q.0271	.0122	-.0025
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0844	-.0017
SDev	.0015	.0007
%RSD	1.751	42.72
#1	Q.0852	-.0015
#2	Q.0827	-.0011
#3	Q.0854	-.0025
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

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Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/11/95 10:07:05
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	1.893	2.011	1.925	.9966	.9653	1.906
SDev	.0003	.005	.015	.008	.0041	.0043	.011
%RSD	27.17	.2827	.7311	.4172	.4108	.4486	.5680
#1	.0015	1.892	2.012	1.922	.9928	.9620	1.906
#2	.0013	1.887	1.996	1.919	.9961	.9637	1.895
#3	.0009	1.898	2.025	1.935	1.001	.9702	1.916

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.933	.9873	.0106	1.048	.5259	2.021	.0009
SDev	.005	.0044	.0007	.004	.0016	.009	.0003
%RSD	.2698	.4444	6.940	.4071	.3131	.4696	31.09
#1	1.932	.9831	.0103	1.045	.5240	2.011	.0012
#2	1.928	.9869	.0114	1.046	.5268	2.024	.0009
#3	1.938	.9919	.0101	1.053	.5269	2.029	.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	2.029	4.913	.0015	1.876	2.107	1.021
SDev	.0002	.007	.097	.0010	.007	.004	.004
%RSD	27.13	.3324	1.977	63.34	.3701	.1874	.3565
#1	.0009	2.026	4.985	.0025	1.869	2.112	1.017
#2	.0006	2.025	4.803	.0015	1.875	2.107	1.020
#3	.0006	2.037	4.952	.0005	1.883	2.104	1.024

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.017	7.581	.0080	2.114	4.859	2.098	.0166
SDev	.009	.050	.0040	.010	.039	.008	.0050
%RSD	.4527	.6535	49.45	.4758	.7948	.3688	29.92
#1	2.008	7.589	.0114	2.105	4.900	2.091	.0222
#2	2.017	7.528	.0091	2.112	4.825	2.096	.0152
#3	2.027	7.626	.0036	2.125	4.850	2.106	.0125

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0078	-.0111	1.958	4.549	.0368	2.022	-.0056
SDev	.0044	.0027	.012	.012	.0213	.010	.0043
%RSD	57.33	24.18	.6355	.2687	57.86	.4969	77.77
#1	.0124	-.0089	1.962	4.540	.0485	2.012	-.0026
#2	.0075	-.0141	1.944	4.545	.0122	2.021	-.0106
#3	.0035	-.0103	1.968	4.563	.0496	2.032	-.0036

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0093	.0003	1.917	.0829	.9575	.0119	.0004
SDev	.0027	.0002	.019	.0088	.0037	.0018	.0002

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%RSD	29.60	56.43	.9881	10.64	.3905	14.99	41.27
#1	.0124	.0006	1.905	.0907	.9548	.0108	.0003
#2	.0077	.0002	1.907	.0733	.9560	.0109	.0006
#3	.0076	.0003	1.939	.0846	.9618	.0139	.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	-.0005
SDev	.002	.0001
%RSD	.1487	20.12
#1	1.032	-.0006
#2	1.034	-.0004
#3	1.035	-.0006

Analysis Report Mon 09-11-95 10:20:35 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 10:19:16
Comment: (BY-108 WATER LEACH) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0015	.0051	-.0004	.0001	-.0000	.0055
SDev	.0005	.0043	.0046	.0008	.0003	.0000	.0061
%RSD	308.8	291.8	88.93	187.7	204.7	133.2	109.6
#1	.0004	.0058	.0104	.0005	.0003	.0000	.0104
#2	.0005	.0013	.0026	-.0007	.0002	-.0000	-.0013
#3	-.0004	-.0027	.0024	-.0010	-.0002	-.0001	.0075

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0002	-.0038	-.0013	.0004	-.0008	-.0005
SDev	.0020	.0006	.0081	.0008	.0026	.0016	.0010
%RSD	712.9	249.1	214.1	57.39	600.7	201.2	210.5
#1	.0017	.0008	.0045	-.0005	.0021	.0006	.0003
#2	-.0002	-.0003	-.0042	-.0020	.0017	-.0004	-.0002
#3	-.0023	.0002	-.0117	-.0015	-.0025	-.0025	-.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0002	.0442	.0005	-.0004	.0034	-.0003
SDev	.0003	.0011	.1999	.0023	.0009	.0122	.0001
%RSD	143.3	551.7	452.1	442.4	264.1	356.2	46.36
#1	.0001	.0010	.2542	.0030	-.0000	.0158	-.0003
#2	-.0002	-.0006	.0221	.0000	.0004	.0030	-.0002
#3	-.0005	-.0011	-.1437	-.0015	-.0014	-.0086	-.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0095	-.0006	.0021	-.0000	.0047	.0013
SDev	.0015	.0046	.0035	.0013	.0104	.0030	.0144
%RSD	195.6	48.71	598.5	63.22	29520.	64.15	1096.
#1	.0008	-.0069	.0027	.0018	-.0112	.0072	.0179
#2	-.0021	-.0067	-.0002	.0036	.0095	.0055	-.0057
#3	-.0011	-.0148	-.0042	.0009	.0016	.0014	-.0082

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0021	-.0028	-.0104	-.0182	-.0000	.0046
SDev	.0051	.0069	.0047	.0097	.0386	.0001	.0075
%RSD	301.4	327.1	166.3	93.47	212.5	358.8	162.4
#1	.0075	.0069	-.0035	.0004	.0202	.0001	.0112
#2	-.0018	.0051	.0022	-.0131	-.0176	-.0001	.0063
#3	-.0007	-.0058	-.0071	-.0185	-.0570	-.0001	-.0036

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0001	.0043	-.0394	.0001	-.0040	.0000
SDev	.0037	.0004	.0061	.0834	.0006	.0067	.0004

%RSD	563.3	549.3	144.2	211.5	545.5	166.3	1673.
#1	.0039	.0005	.0031	.0561	.0007	.0028	.0005
#2	.0013	-.0000	.0109	-.0767	.0001	-.0105	-.0004
#3	-.0033	-.0003	-.0012	-.0978	-.0005	-.0044	-.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0009	-.0002
SDev	.0005	.0007
%RSD	60.47	368.0
#1	-.0012	.0006
#2	-.0012	-.0004
#3	-.0003	-.0008

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Method: ICP1 Sample Name: 95-007932-C3 Operator: DRS
Run Time: 09/11/95 10:21:33
Comment: METHOD BLANK (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.0286	.0082	.4655	.0013	.0001	.0148
SDev	.0003	.0026	.0095	.0067	.0001	.0000	.0052
%RSD	6.110	9.045	116.0	1.432	9.560	24.54	34.83
#1	.0057	.0311	.0135	.4581	.0014	.0001	.0153
#2	.0051	.0289	-.0028	.4674	.0013	.0001	.0197
#3	.0057	.0259	.0138	.4711	.0012	.0001	.0094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0314	.0024	.0435	.0037	.0020	.0037	.0059
SDev	.0003	.0005	.0032	.0005	.0031	.0014	.0004
%RSD	1.003	21.70	7.241	13.00	150.3	36.72	7.417
#1	-.0313	.0026	.0468	.0041	.0006	.0030	.0063
#2	-.0312	.0027	.0433	.0032	.0056	.0053	.0055
#3	-.0318	.0018	.0405	.0039	-.0000	.0029	.0057

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0086	1.398	.0119	.0050	.0228	.0003
SDev	.0002	.0007	.144	.0006	.0009	.0050	.0001
%RSD	10.39	7.624	10.27	4.858	18.93	21.85	31.14
#1	.0017	.0091	1.564	.0126	.0046	.0273	.0002
#2	.0014	.0079	1.315	.0117	.0043	.0174	.0004
#3	.0015	.0088	1.315	.0115	.0060	.0237	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.7473	.0391	.0055	.0070	.0293	.1048
SDev	.0006	.0118	.0041	.0003	.0046	.0064	.0122
%RSD	50.12	1.585	10.49	5.704	65.64	21.79	11.65
#1	.0019	.7405	.0434	.0052	.0064	.0349	.1189
#2	.0008	.7610	.0352	.0055	.0027	.0306	.0971
#3	.0010	.7405	.0386	.0058	.0118	.0223	.0985

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0485	.0116	.0080	.0575	.1410	.0006	.0199
SDev	.0037	.0044	.0029	.0073	.0284	.0001	.0028
%RSD	7.571	38.19	36.48	12.74	20.11	11.96	13.92
#1	.0523	.0067	.0061	.0656	.1723	.0007	.0212
#2	.0482	.0127	.0114	.0513	.1170	.0005	.0168
#3	.0450	.0154	.0066	.0557	.1337	.0005	.0219

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0027	.0027	.6104	.0044	.0098	.0025
SDev	.0026	.0004	.0093	.0470	.0004	.0049	.0002

%RSD	350.9	15.72	338.5	7.706	8.709	49.92	6.346
#1	.0008	.0031	-.0015	.5987	.0047	.0042	.0026
#2	.0033	.0026	.0134	.5703	.0040	.0135	.0023
#3	-.0018	.0023	-.0036	.6621	.0045	.0118	.0025

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0008	.0043
SDev	.0002	.0003
%RSD	18.27	6.161
#1	-.0009	.0045
#2	-.0009	.0040
#3	-.0007	.0043

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Method: ICP1 Sample Name: 95-007932-C1 @5 Operator: DRS
Run Time: 09/11/95 10:24:47
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	78.81	.0677	.1609	-.0000	.0006	.0103
SDev	.0007	.30	.0053	.0005	.0002	.0000	.0021
%RSD	868.0	.3744	7.816	.2843	121600.	4.803	20.52
#1	-.0007	79.14	.0656	.1606	-.0000	.0006	.0089
#2	.0002	78.71	.0738	.1608	-.0002	.0006	.0128
#3	.0007	78.58	.0638	.1615	.0002	.0006	.0094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0342	.0012	-.0009	.0192	.6400	.0063	.0002
SDev	.0002	.0007	.0057	.0011	.0039	.0010	.0004
%RSD	.5132	58.02	633.4	5.856	.6074	15.60	185.6
#1	-.0340	.0018	-.0065	.0179	.6444	.0052	-.0002
#2	-.0341	.0013	-.0012	.0197	.6371	.0064	.0002
#3	-.0344	.0005	.0050	.0200	.6385	.0072	.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.2714	6.173	.0014	.0030	.0072	.0004
SDev	.0001	.0004	.072	.0006	.0002	.0038	.0002
%RSD	1567.	.1666	1.171	47.86	6.959	52.58	46.41
#1	-.0000	.2714	6.223	.0010	.0032	.0052	.0002
#2	-.0001	.2719	6.206	.0009	.0028	.0116	.0006
#3	.0001	.2710	6.090	.0021	.0028	.0049	.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0311	407.0	.0033	.7024	1.056	.1521	-.0007
SDev	.0013	3.0	.0017	.0062	.037	.0031	.0113
%RSD	4.117	.7364	51.50	.8755	3.479	2.028	1564.
#1	.0296	410.2	.0033	.6958	1.083	.1524	-.0019
#2	.0318	406.4	.0016	.7080	1.070	.1550	-.0114
#3	.0318	404.3	.0051	.7034	1.014	.1489	.0111

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	-.0106	-.0040	.1743	.0373	.0004	-.0142
SDev	.0037	.0038	.0064	.0071	.0192	.0000	.0053
%RSD	89.45	35.95	159.2	4.069	51.60	1.370	37.31
#1	.0020	-.0135	.0009	.1824	.0178	.0004	-.0179
#2	.0020	-.0120	-.0113	.1700	.0562	.0004	-.0166
#3	.0084	-.0063	-.0018	.1703	.0378	.0004	-.0081

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	.0002	.1677	-.0155	.0002	.1426	.0000
SDev	.0043	.0001	.0018	.0567	.0003	.0022	.0001

%RSD	104.0	47.79	1.060	365.7	190.0	1.509	1842.
#1	.0050	.0001	.1657	-.0638	-.0002	.1407	-.0001
#2	.0078	.0002	.1689	-.0297	.0002	.1421	-.0001
#3	-.0006	.0003	.1686	.0470	.0005	.1449	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0118	-.0004
SDev	.0003	.0003
%RSD	2.679	60.93
#1	.0120	-.0005
#2	.0115	-.0007
#3	.0120	-.0002

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Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 10:28:27
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0097	98.29	.1017	-.0033	-.0001	.0006	.0553
SDev	.0006	.16	.0045	.0006	.0002	.0000	.0043
%RSD	6.352	.1642	4.432	17.01	225.7	1.634	7.703
#1	-.0091	98.35	.1037	-.0028	-.0000	.0006	.0570
#2	-.0103	98.41	.0966	-.0031	-.0003	.0006	.0505
#3	-.0097	98.11	.1049	-.0039	.0001	.0006	.0585

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0649	.0109	-.1449	.0033	.0359	-.0137	-.0037
SDev	.0001	.0022	.0011	.0008	.0003	.0003	.0005
%RSD	.2180	20.31	.7681	25.64	.7609	2.124	13.73
#1	.0650	.0084	-.1445	.0024	.0356	-.0140	-.0034
#2	.0648	.0117	-.1461	.0041	.0360	-.0135	-.0043
#3	.0650	.0127	-.1440	.0033	.0361	-.0135	-.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	20.25	-.0553	.0058	.0024	.2746	.0013
SDev	.0002	.04	.0690	.0003	.0008	.0043	.0003
%RSD	89.41	.2038	124.9	5.073	34.89	1.555	21.41
#1	.0002	20.26	-.0774	.0061	.0014	.2795	.0015
#2	.0000	20.29	-.1105	.0057	.0028	.2723	.0010
#3	.0004	20.21	.0221	.0055	.0028	.2720	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	.0199	-.0232	52.70	.0183	.2023	-.4124
SDev	.0015	.0108	.0026	.06	.0116	.0066	.0129
%RSD	24.13	54.28	11.33	.1097	63.47	3.290	3.135
#1	.0046	.0322	-.0203	52.72	.0314	.2087	-.4242
#2	.0075	.0156	-.0255	52.75	.0092	.1954	-.4146
#3	.0069	.0120	-.0237	52.64	.0143	.2026	-.3986

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0433	-.0147	.0188	-.0053	.0292	-.0002	-.0057
SDev	.0034	.0065	.0117	.0072	.0335	.0000	.0041
%RSD	7.837	44.23	62.47	134.2	114.8	4.622	71.61
#1	-.0442	-.0103	.0192	.0019	.0405	-.0002	-.0099
#2	-.0461	-.0221	.0303	-.0124	-.0085	-.0002	-.0053
#3	-.0395	-.0116	.0069	-.0055	.0556	-.0002	-.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7017	.0015	.2233	49.99	.0014	.0457	.0031
SDev	.0156	.0003	.0055	.11	.0003	.0123	.0004

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%RSD	2.221	17.75	2.448	.2242	21.00	26.96	11.63
#1	.7197	.0017	.2253	49.92	.0014	.0427	.0031
#2	.6930	.0016	.2275	50.12	.0012	.0592	.0027
#3	.6925	.0012	.2171	49.93	.0018	.0351	.0034

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0292	10.14
SDev	.0020	.02
%RSD	6.920	.2363
#1	-.0272	10.15
#2	-.0291	10.16
#3	-.0312	10.12

Analysis Report Mon 09-11-95 10:33:53 AM page 1

Method: ICP1 Sample Name: Na @500 PPM Operator: DRS
Run Time: 09/11/95 10:32:34
Comment: SEG 2 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	.0376	-.0061	.0826	-.0006	-.0001	-.0106
SDev	.0005	.0021	.0072	.0009	.0002	.0000	.0020
%RSD	17.83	5.529	117.4	1.121	30.50	15.76	19.01
#1	-.0022	.0388	.0021	.0835	-.0004	-.0001	-.0109
#2	-.0030	.0352	-.0113	.0827	-.0008	-.0001	-.0085
#3	-.0031	.0388	-.0091	.0817	-.0006	-.0001	-.0125

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2578	-.0003	-.0194	-.0027	.0004	-.0029	-.0026
SDev	.0005	.0011	.0048	.0015	.0009	.0020	.0009
%RSD	.1976	411.0	24.95	56.58	246.2	67.53	33.63
#1	.2584	-.0011	-.0139	-.0009	-.0003	-.0007	-.0017
#2	.2576	-.0008	-.0214	-.0037	.0014	-.0043	-.0026
#3	.2575	.0010	-.0229	-.0034	.0000	-.0038	-.0034

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0030	-.5968	-.0039	-.0013	-.0050	-.0002
SDev	.0001	.0006	.1863	.0013	.0005	.0052	.0002
%RSD	11.47	19.34	31.22	33.99	40.99	103.8	71.51
#1	-.0009	.0037	-.3924	-.0024	-.0018	.0009	-.0000
#2	-.0010	.0026	-.6410	-.0047	-.0007	-.0089	-.0003
#3	-.0011	.0028	-.7571	-.0047	-.0014	-.0071	-.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	491.9	-.0132	.0042	-.0041	-.0132	-.0419
SDev	.0004	6.6	.0060	.0009	.0202	.0099	.0110
%RSD	20.69	1.341	46.01	22.63	493.3	74.74	26.23
#1	-.0019	484.8	-.0071	.0036	.0166	-.0033	-.0317
#2	-.0015	492.9	-.0192	.0053	-.0051	-.0132	-.0405
#3	-.0023	497.9	-.0132	.0037	-.0238	-.0231	-.0536

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0178	.0028	.0033	1.099	-.0648	.0038	-.0119
SDev	.0078	.0020	.0089	.007	.0221	.0001	.0007
%RSD	43.56	71.44	267.5	.6692	34.11	1.558	5.551
#1	-.0090	.0014	.0122	1.094	-.0405	.0038	-.0127
#2	-.0210	.0051	-.0057	1.096	-.0702	.0037	-.0114
#3	-.0234	.0019	.0036	1.108	-.0836	.0037	-.0116

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0045	-.0010	-.0034	-.2615	-.0019	-.0104	-.0010
SDev	.0018	.0002	.0008	.1482	.0005	.0021	.0004

%RSD	40.17	21.44	22.63	56.66	25.76	20.73	39.64
#1	-.0052	-.0008	-.0026	-.1212	-.0014	-.0102	-.0006
#2	-.0025	-.0012	-.0041	-.2468	-.0023	-.0083	-.0009
#3	-.0059	-.0011	-.0036	-.4165	-.0022	-.0126	-.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0039	.0025
SDev	.0006	.0009
%RSD	14.23	38.26
#1	.0033	.0036
#2	.0039	.0018
#3	.0044	.0021

Analysis Report Mon 09-11-95 10:37:41 AM page 1

Method: ICP1 Sample Name: 95-007932-C1 Operator: DRS
Run Time: 09/11/95 10:36:22
Comment: SEG 2 DRAINABLE LIQUID (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	391.5	.3330	.7797	.0008	.0033	.0485
SDev	.0002	2.3	.0070	.0050	.0000	.0000	.0057
%RSD	3.875	.5795	2.108	.6437	.1178	.1233	11.66
#1	.0053	393.4	.3295	.7854	.0008	.0033	.0548
#2	.0052	392.1	.3284	.7776	.0008	.0033	.0469
#3	.0056	389.0	.3410	.7761	.0008	.0033	.0439

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0215	.0032	.0251	.0967	3.124	.0429	.0042
SDev	.0006	.0019	.0031	.0009	.026	.0012	.0007
%RSD	2.936	57.81	12.20	.8929	.8436	2.899	17.13
#1	-.0218	.0035	.0266	.0971	3.137	.0437	.0041
#2	-.0218	.0049	.0216	.0957	3.141	.0414	.0035
#3	-.0207	.0012	.0272	.0972	3.093	.0435	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	1.308	29.40	.0095	.0129	.0123	.0032
SDev	.0002	.008	.14	.0013	.0013	.0053	.0001
%RSD	10.78	.5901	.4884	13.65	10.42	43.06	4.117
#1	.0015	1.315	29.32	.0103	.0114	.0152	.0031
#2	.0013	1.310	29.32	.0080	.0135	.0062	.0031
#3	.0016	1.300	29.57	.0101	.0138	.0155	.0033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1618	1834.	.0251	3.430	5.450	.4806	.0799
SDev	.0033	5.	.0020	.018	.072	.0276	.0069
%RSD	2.022	.2507	8.089	.5150	1.321	5.731	8.652
#1	.1642	1838.	.0244	3.447	5.502	.4552	.0726
#2	.1632	1836.	.0235	3.431	5.479	.4768	.0809
#3	.1581	1829.	.0274	3.411	5.367	.5099	.0863

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0514	-.0667	-.0011	.9492	.2695	.0011	-.0429
SDev	.0036	.0015	.0100	.0062	.0157	.0001	.0058
%RSD	6.991	2.296	919.3	.6553	5.840	12.19	13.43
#1	.0481	-.0672	-.0007	.9527	.2557	.0010	-.0363
#2	.0510	-.0650	.0087	.9529	.2662	.0010	-.0472
#3	.0552	-.0680	-.0113	.9420	.2866	.0013	-.0451

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0016	.8274	.3422	.0032	.7400	.0015
SDev	.0016	.0002	.0042	.0323	.0003	.0156	.0003

%RSD	52.14	9.957	.5055	9.433	11.10	2.110	19.10
#1	.0051	.0018	.8301	.3178	.0034	.7441	.0015
#2	.0023	.0015	.8296	.3300	.0028	.7532	.0012
#3	.0021	.0015	.8226	.3788	.0033	.7228	.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0499	.0035
SDev	.0033	.0004
%RSD	6.686	12.46
#1	.0468	.0037
#2	.0495	.0030
#3	.0534	.0037

Analysis Report Mon 09-11-95 10:41:58 AM page 1

Method: ICP1 Sample Name: 95-007932-C2 @5 Operator: DRS
Run Time: 09/11/95 10:40:39
Comment: SEG 2 DRAINABLE DUP @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	75.12	.0675	.1132	.0001	.0006	.0152
SDev	.0005	.27	.0066	.0017	.0000	.0000	.0057
%RSD	289.4	.3536	9.824	1.506	2.800	3.394	37.50
#1	.0000	74.89	.0746	.1121	.0001	.0006	.0178
#2	-.0002	75.41	.0615	.1151	.0001	.0006	.0191
#3	.0007	75.07	.0664	.1122	.0001	.0006	.0087

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0317	.0005	-.0067	.0179	.6078	.0063	-.0002
SDev	.0002	.0009	.0080	.0017	.0076	.0001	.0004
%RSD	.7326	192.7	119.3	9.474	1.246	1.292	226.7
#1	-.0314	.0011	-.0045	.0175	.6016	.0064	-.0001
#2	-.0317	-.0006	-.0157	.0164	.6162	.0063	-.0006
#3	-.0319	.0009	-.0001	.0197	.6055	.0062	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.2586	5.880	.0008	.0019	-.0015	.0004
SDev	.0001	.0007	.010	.0011	.0010	.0034	.0001
%RSD	264.0	.2566	.1628	138.6	53.94	224.8	23.91
#1	-.0001	.2582	5.874	.0006	.0025	-.0044	.0005
#2	-.0002	.2584	5.874	-.0002	.0007	.0023	.0005
#3	.0001	.2594	5.891	.0021	.0025	-.0025	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0284	389.5	.0010	.6766	1.012	.1549	-.0042
SDev	.0013	2.1	.0018	.0053	.023	.0050	.0085
%RSD	4.736	.5468	179.3	.7820	2.234	3.205	202.6
#1	.0270	388.1	-.0003	.6780	1.002	.1601	-.0025
#2	.0284	392.0	.0030	.6810	.9956	.1544	-.0134
#3	.0297	388.5	.0003	.6707	1.037	.1502	.0033

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	-.0149	-.0017	.1008	.0183	.0004	-.0173
SDev	.0053	.0032	.0074	.0044	.0192	.0000	.0022
%RSD	121.1	21.50	430.8	4.324	104.9	2.030	12.99
#1	.0053	-.0113	-.0101	.1041	.0171	.0004	-.0150
#2	-.0013	-.0160	.0041	.0959	.0380	.0004	-.0174
#3	.0091	-.0174	.0008	.1025	-.0003	.0004	-.0195

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	-.0000	.1585	-.0164	-.0000	.1255	-.0002
SDev	.0011	.0002	.0021	.0914	.0001	.0082	.0004

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%RSD	51.02	2020.	1.338	557.5	615.8	6.541	219.7
#1	.0017	.0001	.1561	.0056	-.0001	.1285	-.0001
#2	.0033	-.0002	.1595	-.1168	.0001	.1317	-.0006
#3	.0013	.0002	.1599	.0620	-.0000	.1162	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0116	-.0002
SDev	.0007	.0007
%RSD	6.326	433.6
#1	.0111	-.0001
#2	.0112	-.0009
#3	.0124	.0005

Analysis Report Mon 09-11-95 10:45:50 AM page 1

Method: ICP1 Sample Name: 95-007931-C2 (2 dup 9/11/95) Operator: DRS
Run Time: 09/11/95 10:44:30
Comment: SEG 2 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	372.9	.3493	.5523	.0012	.0032	.0508
SDev	.0005	1.6	.0169	.0048	.0002	.0001	.0059
%RSD	7.124	.4332	4.852	.8708	15.43	1.737	11.58
#1	.0073	374.1	.3688	.5546	.0012	.0032	.0523
#2	.0076	371.0	.3380	.5467	.0014	.0033	.0558
#3	.0066	373.4	.3410	.5555	.0010	.0032	.0443

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0179	.0026	.0379	.0940	2.997	.0433	.0053
SDev	.0011	.0010	.0040	.0007	.023	.0007	.0003
%RSD	5.983	37.86	10.52	.7598	.7544	1.670	6.278
#1	-.0190	.0027	.0392	.0949	3.020	.0441	.0056
#2	-.0178	.0036	.0410	.0936	2.975	.0426	.0054
#3	-.0168	.0016	.0334	.0936	2.997	.0432	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	1.256	28.12	.0121	.0134	.0243	.0035
SDev	.0002	.004	.18	.0014	.0002	.0029	.0002
%RSD	9.716	.3447	.6468	11.59	1.527	12.10	6.447
#1	.0021	1.260	28.06	.0131	.0135	.0274	.0035
#2	.0021	1.252	28.32	.0127	.0135	.0240	.0037
#3	.0018	1.257	27.97	.0105	.0131	.0215	.0033

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1539	1750.	.0336	3.299	5.253	.5189	.1085
SDev	.0013	5.	.0047	.010	.054	.0200	.0069
%RSD	.8186	.2725	13.93	.3118	1.021	3.857	6.411
#1	.1553	1753.	.0389	3.308	5.310	.5018	.1051
#2	.1528	1745.	.0321	3.288	5.204	.5141	.1165
#3	.1537	1753.	.0299	3.300	5.244	.5409	.1039

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0632	-.0452	.0112	.7727	.2890	.0013	-.0389
SDev	.0014	.0071	.0253	.0038	.0157	.0000	.0004
%RSD	2.152	15.72	226.3	.4975	5.414	.1239	1.030
#1	.0617	-.0397	.0089	.7771	.2879	.0013	-.0390
#2	.0644	-.0532	.0375	.7710	.3052	.0013	-.0384
#3	.0635	-.0427	-.0129	.7699	.2740	.0013	-.0392

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0021	.8029	.5229	.0040	.7163	.0019
SDev	.0047	.0003	.0136	.0205	.0004	.0118	.0004

%RSD	953.1	16.18	1.698	3.930	9.186	1.642	18.79
#1	.0017	.0022	.8180	.5022	.0040	.7088	.0023
#2	.0027	.0024	.7915	.5433	.0044	.7299	.0017
#3	-.0059	.0017	.7993	.5231	.0037	.7103	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0481	.0047
SDev	.0032	.0001
%RSD	6.628	.9955
#1	.0444	.0048
#2	.0502	.0047
#3	.0497	.0047

Analysis Report QC Standard Mon 09-11-95 10:50:23 AM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 10:49:04
Comment: (BY-106 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS BY 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4891	25.11	2.631	2.002	.5165	.0946	24.75
SDev	.0022	.12	.023	.018	.0034	.0006	.08
%RSD	.4454	.4822	.8913	.8741	.6590	.6649	.3434
#1	.4914	25.23	2.644	2.021	.5200	.0952	24.83
#2	.4885	25.12	2.645	1.999	.5164	.0947	24.75
#3	.4872	24.99	2.604	1.987	.5132	.0940	24.66
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.22	.5079	-.0475	1.047	1.044	1.016	-.0013
SDev	.13	.0025	.0018	.004	.011	.001	.0003
%RSD	.4984	.4884	3.780	.3661	1.094	.0775	23.24
#1	25.35	.5105	-.0489	1.050	1.055	1.016	-.0015
#2	25.21	.5055	-.0482	1.048	1.044	1.016	-.0015
#3	25.10	.5077	-.0455	1.043	1.032	1.015	-.0010
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	20.80	25.08	.0020	1.916	26.89	.5179
SDev	.0001	.12	.27	.0010	.004	.14	.0029
%RSD	5.034	.5869	1.058	48.66	.2240	.5244	.5523
#1	.0014	20.92	24.81	.0010	1.916	27.02	.5212
#2	.0014	20.81	25.09	.0020	1.911	26.89	.5170
#3	.0015	20.68	25.34	.0029	1.920	26.74	.5157
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	24.19	.0001	1.080	.0585	2.642	-.0515
SDev	.003	.03	.0033	.005	.0241	.003	.0070
%RSD	.2645	.1228	3699.	.4602	41.13	.1160	13.63
#1	1.048	24.18	-.0037	1.083	.0612	2.646	-.0596
#2	1.049	24.17	.0022	1.083	.0811	2.640	-.0481
#3	1.044	24.22	.0017	1.074	.0332	2.641	-.0469
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Mon 09-11-95 10:50:23 AM page 1

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0119	2.538	2.542	19.08	-.1359	.5229	-.0022
SDev	.0061	.013	.011	.09	.0132	.0032	.0079
%RSD	50.91	.5016	.4205	.4555	9.714	.6084	356.1
#1	-.0179	2.552	2.553	19.18	-.1502	.5262	.0052
#2	-.0121	2.529	2.542	19.07	-.1242	.5227	-.0105
#3	-.0058	2.532	2.532	19.00	-.1332	.5198	-.0013
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0441	1.016	2.532	-.1206	.9987	.0237	-.0003
SDev	.0080	.006	.014	.0791	.0061	.0031	.0003
%RSD	18.11	.6256	.5558	65.57	.6153	12.98	109.0
#1	.0428	1.023	2.548	-.1938	1.005	.0268	-.0005
#2	.0526	1.016	2.521	-.1313	.9984	.0237	-.0005
#3	.0368	1.010	2.528	-.0367	.9927	.0206	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.035	2.084
SDev	.006	.013
%RSD	.5373	.6370
#1	1.037	2.098
#2	1.039	2.083
#3	1.028	2.072
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Mon 09-11-95 10:54:08 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 10:52:48
Comment: SEG 2 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	-.0013	.0032	-.0006	.0000	-.0000	.0012
SDev	.0012	.0044	.0074	.0013	.0002	.0000	.0063
%RSD	105.2	337.0	229.3	220.8	421.1	179.0	529.4
#1	-.0017	-.0037	.0045	-.0003	-.0002	-.0001	-.0010
#2	-.0020	-.0040	-.0047	-.0020	.0001	-.0000	-.0037
#3	.0002	.0038	.0099	.0005	.0002	.0000	.0083

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0014	-.0104	-.0016	.0015	-.0006	-.0009
SDev	.0014	.0006	.0074	.0007	.0018	.0008	.0012
%RSD	95.67	42.11	71.20	42.30	116.6	135.1	124.5
#1	.0019	.0013	-.0105	-.0024	-.0005	-.0014	-.0021
#2	-.0001	.0008	-.0177	-.0015	.0022	.0002	-.0010
#3	.0026	.0020	-.0029	-.0010	.0029	-.0006	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0019	-.1989	-.0017	-.0001	.0030	-.0003
SDev	.0005	.0009	.1922	.0023	.0010	.0056	.0003
%RSD	76.75	49.56	96.59	134.4	876.3	185.7	77.19
#1	-.0008	.0012	-.3758	-.0036	-.0007	-.0020	-.0003
#2	-.0009	.0016	-.2266	-.0024	.0011	.0019	-.0006
#3	-.0001	.0030	.0055	.0009	-.0007	.0091	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0053	-.0023	-.0007	-.0032	-.0046	-.0162
SDev	.0003	.0154	.0043	.0007	.0204	.0011	.0121
%RSD	117.8	291.4	186.3	94.40	631.3	23.56	74.71
#1	-.0000	-.0229	-.0049	-.0000	-.0231	-.0046	-.0224
#2	.0003	.0057	-.0047	-.0014	-.0041	-.0056	-.0241
#3	.0005	.0014	.0027	-.0008	.0176	-.0035	-.0023

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0044	-.0026	.0007	-.0701	-.0265	.0000	-.0041
SDev	.0062	.0080	.0034	.0068	.0112	.0001	.0069
%RSD	140.7	306.2	522.2	9.681	42.15	1279.	168.6
#1	-.0088	-.0082	-.0033	-.0736	-.0361	-.0001	-.0116
#2	-.0070	-.0062	.0023	-.0744	-.0292	.0000	-.0024
#3	.0027	.0065	.0030	-.0623	-.0142	.0001	.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0022	-.0004	-.0014	-.1009	-.0003	-.0023	-.0004
SDev	.0027	.0003	.0078	.0961	.0010	.0020	.0002

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%RSD	120.8	67.82	568.9	95.24	304.0	89.06	38.29
#1	.0009	-.0006	-.0030	-.1855	-.0008	-.0011	-.0003
#2	-.0036	-.0005	.0071	-.1207	-.0009	-.0011	-.0006
#3	-.0039	-.0001	-.0083	.0036	.0008	-.0046	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0004	-.0008
SDev	.0004	.0009
%RSD	94.23	119.6
#1	-.0008	-.0014
#2	-.0003	-.0012
#3	-.0001	.0003

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Method: ICP1 Sample Name: 95-007935-C1 @5 Operator: DRS
Run Time: 09/11/95 10:55:03
Comment: SEG 3 DRAINABLE LIQUID @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	83.24	.0787	.1070	-.0000	.0006	.0036
SDev	.0004	.25	.0122	.0014	.0001	.0000	.0066
%RSD	11.36	.2988	15.54	1.347	326.2	3.974	180.9
#1	-.0037	83.21	.0668	.1086	-.0000	.0006	.0093
#2	-.0032	83.01	.0780	.1062	.0001	.0006	-.0035
#3	-.0040	83.51	.0913	.1061	-.0002	.0006	.0051

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0274	.0006	-.0101	.0173	.6657	.0212	-.0015
SDev	.0006	.0009	.0049	.0017	.0070	.0014	.0004
%RSD	2.275	142.6	48.97	9.920	1.047	6.370	28.97
#1	-.0279	.0009	-.0139	.0160	.6594	.0214	-.0019
#2	-.0267	-.0004	-.0045	.0193	.6646	.0225	-.0011
#3	-.0275	.0013	-.0119	.0166	.6732	.0198	-.0014

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.2209	5.963	-.0022	.0000	.0038	.0005
SDev	.0002	.0002	.067	.0015	.0003	.0054	.0002
%RSD	41.43	.0962	1.124	64.55	8444.	140.4	43.20
#1	-.0005	.2207	6.024	-.0030	-.0003	.0017	.0004
#2	-.0004	.2211	5.974	-.0006	.0004	-.0002	.0008
#3	-.0008	.2210	5.891	-.0032	.0000	.0099	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0323	395.7	-.0096	.5381	1.044	.1544	-.0212
SDev	.0012	2.9	.0034	.0024	.014	.0085	.0127
%RSD	3.771	.7236	35.41	.4514	1.296	5.527	59.79
#1	.0320	397.6	-.0105	.5408	1.050	.1530	-.0165
#2	.0337	392.4	-.0059	.5371	1.053	.1635	-.0115
#3	.0313	397.1	-.0126	.5362	1.028	.1467	-.0355

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0063	-.0190	-.0036	.1680	-.0005	.0042	-.0241
SDev	.0027	.0057	.0039	.0052	.0060	.0000	.0007
%RSD	42.28	29.95	107.6	3.080	1159.	.1489	2.893
#1	-.0088	-.0150	-.0077	.1620	.0022	.0042	-.0249
#2	-.0035	-.0165	-.0033	.1708	.0036	.0042	-.0240
#3	-.0065	-.0255	.0001	.1711	-.0074	.0042	-.0235

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0005	.1592	-.1432	-.0010	1.668	-.0004
SDev	.0028	.0003	.0016	.0713	.0005	.014	.0004

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%RSD	171.1	68.84	1.018	49.83	53.76	.8689	102.9
#1	-.0032	-.0005	.1610	-.1526	-.0011	1.654	-.0003
#2	.0016	-.0002	.1585	-.0676	-.0004	1.666	-.0001
#3	-.0032	-.0008	.1580	-.2093	-.0015	1.683	-.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0247	-.0012
SDev	.0008	.0002
%RSD	3.206	15.20
#1	.0248	-.0013
#2	.0239	-.0010
#3	.0255	-.0013

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Method: ICP1 Sample Name: 95-007935-C1 Operator: DRS
Run Time: 09/11/95 10:58:49
Comment: SEG 3 DRAINABLE LIQUID (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0070	402.3	.3790	.5162	.0014	.0032	.0497
SDev	.0012	4.5	.0202	.0040	.0002	.0001	.0120
%RSD	16.66	1.128	5.320	.7746	17.17	2.771	24.04
#1	-.0064	400.8	.3857	.5143	.0016	.0031	.0631
#2	-.0062	398.7	.3950	.5135	.0014	.0032	.0458
#3	-.0083	407.4	.3564	.5208	.0012	.0033	.0402

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0144	.0009	.0362	.0932	3.178	.1074	.0048
SDev	.0013	.0024	.0070	.0008	.030	.0005	.0010
%RSD	9.273	258.5	19.42	.8730	.9541	.4441	21.39
#1	-.0151	-.0010	.0411	.0925	3.174	.1076	.0050
#2	-.0129	.0002	.0394	.0941	3.150	.1077	.0058
#3	-.0153	.0036	.0282	.0930	3.211	.1068	.0037

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	1.015	29.59	.0112	.0112	.0197	.0033
SDev	.0003	.012	.10	.0027	.0024	.0092	.0001
%RSD	18.86	1.204	.3424	24.16	21.02	46.86	4.527
#1	.0020	1.007	29.70	.0125	.0124	.0189	.0034
#2	.0021	1.009	29.50	.0129	.0128	.0293	.0033
#3	.0014	1.029	29.57	.0081	.0085	.0109	.0031

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1607	1744.	.0328	2.557	5.330	.5450	.1019
SDev	.0018	18.	.0051	.030	.056	.0192	.0212
%RSD	1.146	1.013	15.61	1.160	1.055	3.516	20.80
#1	.1586	1739.	.0346	2.547	5.270	.5242	.1098
#2	.1621	1729.	.0369	2.533	5.338	.5489	.1181
#3	.1613	1763.	.0271	2.590	5.382	.5620	.0779

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0623	-.0626	-.0088	1.054	.2417	.0069	-.0422
SDev	.0084	.0134	.0144	.005	.0187	.0009	.0101
%RSD	13.48	21.40	164.1	.4766	7.720	12.83	23.96
#1	.0643	-.0612	-.0095	1.053	.2632	.0066	-.0355
#2	.0696	-.0500	.0060	1.050	.2322	.0063	-.0372
#3	.0531	-.0767	-.0228	1.060	.2296	.0079	-.0538

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	.0022	.8150	.5572	.0040	8.401	.0021
SDev	.0020	.0006	.0080	.1092	.0007	.059	.0003

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%RSD	43.13	27.27	.9833	19.60	17.11	.7083	13.65
#1	.0026	.0024	.8064	.6382	.0039	8.356	.0022
#2	.0044	.0028	.8222	.6003	.0047	8.378	.0023
#3	.0066	.0016	.8164	.4330	.0033	8.468	.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0970	.0037
SDev	.0050	.0012
%RSD	5.169	31.54
#1	.0918	.0039
#2	.0975	.0047
#3	.1018	.0024

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Method: ICP1 Sample Name: 95-007935-C2 @5 Operator: DRS
Run Time: 09/11/95 11:03:35
Comment: SEG 3 DRAINABLE DUP @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	76.82	.0665	.0859	.0005	.0006	.0133
SDev	.0005	.10	.0068	.0020	.0001	.0000	.0052
%RSD	33.02	.1355	10.24	2.279	28.74	1.064	39.51
#1	-.0019	76.74	.0725	.0843	.0006	.0006	.0177
#2	-.0010	76.94	.0679	.0852	.0006	.0006	.0075
#3	-.0013	76.80	.0591	.0881	.0003	.0006	.0146

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0309	.0019	.0010	.0173	.6138	.0202	.0004
SDev	.0004	.0007	.0010	.0010	.0051	.0001	.0001
%RSD	1.370	38.09	103.3	5.884	.8260	.5818	33.57
#1	-.0312	.0017	-.0002	.0168	.6186	.0203	.0003
#2	-.0311	.0013	.0014	.0184	.6142	.0202	.0006
#3	-.0304	.0027	.0017	.0166	.6085	.0200	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.2063	5.930	.0026	.0024	.0030	.0006
SDev	.0002	.0005	.048	.0011	.0002	.0100	.0001
%RSD	65.40	.2575	.8071	40.87	8.687	337.5	16.92
#1	.0002	.2067	5.957	.0036	.0021	.0136	.0005
#2	.0004	.2066	5.874	.0026	.0025	.0017	.0005
#3	.0001	.2057	5.957	.0015	.0025	-.0064	.0007

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0279	365.8	.0067	.5065	1.013	.1751	.0194
SDev	.0010	.8	.0022	.0035	.037	.0130	.0031
%RSD	3.656	.2245	33.45	.6870	3.700	7.432	16.14
#1	.0267	366.5	.0093	.5104	1.036	.1862	.0220
#2	.0286	364.9	.0051	.5051	1.033	.1784	.0203
#3	.0284	366.0	.0059	.5038	.9698	.1608	.0159

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	-.0152	-.0058	.1102	.0370	.0036	-.0127
SDev	.0004	.0039	.0134	.0012	.0202	.0001	.0079
%RSD	3.465	25.75	230.1	1.099	54.45	1.785	61.83
#1	.0113	-.0167	-.0069	.1089	.0599	.0037	-.0037
#2	.0106	-.0107	.0081	.1109	.0216	.0037	-.0166
#3	.0107	-.0181	-.0187	.1110	.0297	.0036	-.0179

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0003	.1525	.0730	.0009	1.545	.0005
SDev	.0019	.0001	.0094	.0517	.0004	.024	.0003

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%RSD	784.7	33.64	6.142	70.84	47.58	1.554	60.23
#1	-.0007	.0003	.1437	.0951	.0013	1.518	.0005
#2	.0024	.0004	.1516	.1100	.0009	1.563	.0008
#3	-.0010	.0002	.1623	.0139	.0004	1.554	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0209	.0005
SDev	.0010	.0002
%RSD	4.624	33.10
#1	.0201	.0006
#2	.0206	.0003
#3	.0220	.0006

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Method: ICP1 Sample Name: 95-007935-C2 Operator: DRS
Run Time: 09/11/95 11:07:44
Comment: SEG 3 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0067	383.2	.3297	.4323	.0014	.0031	.0502
SDev	.0017	4.7	.0104	.0020	.0004	.0000	.0052
%RSD	24.91	1.215	3.145	.4540	29.31	1.274	10.39
#1	-.0067	383.0	.3277	.4334	.0014	.0031	.0533
#2	-.0050	378.7	.3409	.4301	.0019	.0032	.0531
#3	-.0084	388.0	.3204	.4335	.0010	.0031	.0442

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0114	.0016	.0314	.0880	3.004	.1030	.0044
SDev	.0016	.0004	.0126	.0010	.023	.0004	.0014
%RSD	14.40	25.53	40.09	1.169	.7572	.3668	31.56
#1	-.0110	.0020	.0358	.0878	2.994	.1026	.0045
#2	-.0100	.0014	.0413	.0891	2.987	.1034	.0058
#3	-.0132	.0013	.0172	.0871	3.029	.1029	.0030

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.9854	28.26	.0109	.0102	.0200	.0034
SDev	.0006	.0060	.31	.0028	.0004	.0125	.0003
%RSD	36.87	.6102	1.101	25.34	4.033	62.49	9.685
#1	.0016	.9858	28.32	.0105	.0106	.0109	.0033
#2	.0023	.9792	27.92	.0139	.0099	.0343	.0038
#3	.0011	.9912	28.54	.0084	.0099	.0149	.0032

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1509	1670.	.0319	2.442	5.016	.5647	.0864
SDev	.0008	27.	.0100	.006	.017	.0296	.0245
%RSD	.5587	1.615	31.26	.2279	.3346	5.251	28.38
#1	.1516	1671.	.0302	2.441	5.002	.5309	.0785
#2	.1512	1643.	.0426	2.437	5.012	.5864	.1139
#3	.1500	1696.	.0229	2.448	5.035	.5768	.0668

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0562	-.0759	-.0185	.8972	.2207	.0118	-.0481
SDev	.0136	.0215	.0242	.0026	.0521	.0007	.0119
%RSD	24.23	28.26	131.3	.2915	23.62	5.671	24.68
#1	.0584	-.0620	-.0337	.8944	.2100	.0119	-.0507
#2	.0685	-.0652	.0095	.8996	.2773	.0112	-.0352
#3	.0416	-.1006	-.0312	.8976	.1747	.0125	-.0585

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	.0027	.7780	.5633	.0038	7.969	.0017
SDev	.0087	.0006	.0087	.1597	.0013	.089	.0008

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%RSD	167.0	20.58	1.115	28.34	33.44	1.118	48.40
#1	.0144	.0027	.7704	.5152	.0037	7.897	.0017
#2	.0039	.0032	.7762	.7415	.0051	7.941	.0025
#3	-.0028	.0021	.7874	.4332	.0026	8.069	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0886	.0032
SDev	.0051	.0013
%RSD	5.775	39.16
#1	.0834	.0026
#2	.0888	.0047
#3	.0937	.0024

Analysis Report QC Standard Mon 09-11-95 11:13:32 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 11:12:13
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4874	25.17	2.620	2.001	.5175	.0945	24.78
SDev	.0013	.08	.041	.002	.0019	.0003	.04
%RSD	.2632	.3037	1.567	.1083	.3641	.3380	.1542
#1	.4860	25.09	2.576	2.002	.5156	.0942	24.74
#2	.4882	25.19	2.627	2.002	.5175	.0946	24.81
#3	.4882	25.24	2.657	1.998	.5194	.0948	24.79
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.16	.5056	-.0550	1.045	1.043	1.015	-.0022
SDev	.07	.0067	.0023	.001	.005	.005	.0002
%RSD	.2653	1.328	4.227	.1045	.4340	.5104	7.493
#1	25.09	.5058	-.0526	1.044	1.038	1.009	-.0024
#2	25.18	.4988	-.0551	1.045	1.047	1.015	-.0021
#3	25.22	.5122	-.0572	1.045	1.044	1.020	-.0022
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	20.79	25.48	.0005	1.946	26.88	.5172
SDev	.0001	.05	.07	.0007	.006	.05	.0017
%RSD	10.02	.2567	.2630	141.0	.2893	.1842	.3220
#1	.0011	20.74	25.49	-.0001	1.943	26.82	.5157
#2	.0009	20.79	25.40	.0012	1.943	26.89	.5171
#3	.0009	20.85	25.54	.0003	1.953	26.92	.5190
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.046	24.49	-.0029	1.076	.0384	2.640	-.0651
SDev	.003	.03	.0017	.005	.0042	.003	.0081
%RSD	.3059	.1414	59.17	.4620	10.95	.1248	12.40
#1	1.043	24.45	-.0047	1.070	.0416	2.643	-.0571
#2	1.047	24.49	-.0025	1.076	.0399	2.640	-.0651
#3	1.049	24.52	-.0014	1.080	.0336	2.637	-.0732
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0210	2.539	2.519	19.10	-.1350	.5246	-.0075
SDev	.0037	.011	.019	.05	.0068	.0014	.0037
%RSD	17.67	.4409	.7514	.2790	5.034	.2668	48.94
#1	-.0227	2.527	2.499	19.05	-.1411	.5234	-.0109
#2	-.0167	2.548	2.522	19.10	-.1363	.5244	-.0036
#3	-.0235	2.542	2.536	19.16	-.1277	.5262	-.0081
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0455	1.018	2.530	-.1920	.9976	.0240	-.0007
SDev	.0030	.003	.017	.0380	.0018	.0121	.0002
%RSD	6.611	.2796	.6653	19.77	.1758	50.48	26.42
#1	.0487	1.015	2.537	-.1587	.9961	.0362	-.0008
#2	.0450	1.018	2.511	-.1840	.9971	.0239	-.0005
#3	.0428	1.021	2.542	-.2333	.9995	.0119	-.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.036	2.086
SDev	.005	.007
%RSD	.4747	.3386
#1	1.035	2.078
#2	1.033	2.086
#3	1.042	2.092
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 11:16:45
Comment: SEG 3 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0104	97.82	.1077	-.0043	-.0001	.0006	.0470
SDev	.0011	.58	.0140	.0019	.0002	.0000	.0059
%RSD	10.22	.5974	12.97	44.12	164.4	4.781	12.45
#1	-.0112	98.26	.0917	-.0064	-.0003	.0006	.0446
#2	-.0092	97.15	.1140	-.0026	.0001	.0006	.0536
#3	-.0107	98.03	.1174	-.0040	-.0002	.0006	.0427

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0637	.0086	-.1478	.0036	.0356	-.0109	-.0047
SDev	.0003	.0014	.0015	.0006	.0014	.0009	.0009
%RSD	.5107	16.63	1.007	16.35	3.979	7.856	18.68
#1	.0634	.0072	-.1467	.0030	.0369	-.0105	-.0055
#2	.0640	.0084	-.1495	.0042	.0341	-.0104	-.0038
#3	.0637	.0101	-.1471	.0037	.0357	-.0119	-.0047

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	20.11	-.2321	.0047	.0021	.2818	.0013
SDev	.0004	.09	.1701	.0012	.0025	.0089	.0003
%RSD	1070.	.4263	73.31	24.90	116.3	3.156	18.47
#1	-.0004	20.18	-.3758	.0034	.0007	.2762	.0011
#2	.0004	20.01	-.0442	.0055	.0050	.2921	.0014
#3	.0001	20.13	-.2763	.0053	.0007	.2772	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	-.0109	-.0264	52.47	.0069	.1893	-.4334
SDev	.0003	.0264	.0045	.20	.0105	.0069	.0160
%RSD	4.669	241.3	17.06	.3852	151.9	3.670	3.685
#1	.0068	-.0414	-.0296	52.62	-.0045	.1898	-.4490
#2	.0070	.0047	-.0213	52.24	.0160	.1821	-.4170
#3	.0074	.0039	-.0285	52.56	.0092	.1959	-.4340

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0443	-.0090	.0327	-.0527	.0148	-.0002	-.0048
SDev	.0088	.0028	.0111	.0053	.0113	.0001	.0012
%RSD	19.98	30.76	33.96	9.975	76.19	35.94	26.03
#1	-.0520	-.0122	.0204	-.0587	.0137	-.0002	-.0062
#2	-.0346	-.0077	.0356	-.0495	.0266	-.0002	-.0042
#3	-.0462	-.0072	.0421	-.0498	.0041	-.0003	-.0039

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7067	.0013	.2164	49.75	.0011	.0556	.0027
SDev	.0031	.0006	.0045	.30	.0007	.0095	.0005

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%RSD	.4311	46.45	2.082	.5935	59.94	16.98	17.75
#1	.7053	.0009	.2199	49.98	.0006	.0474	.0022
#2	.7046	.0020	.2113	49.42	.0018	.0659	.0031
#3	.7102	.0010	.2181	49.84	.0009	.0535	.0029

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0275	10.10
SDev	.0012	.06
%RSD	4.309	.5712
#1	-.0285	10.16
#2	-.0262	10.04
#3	-.0277	10.11

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 11:20:40
Comment: SEG 3 DRAINABLE LIQUID DUP (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.0008	.0020	-.0008	-.0002	-.0001	-.0009
SDev	.0010	.0058	.0030	.0018	.0001	.0000	.0030
%RSD	77.71	757.2	152.6	208.8	57.88	11.80	324.0
#1	-.0023	-.0041	.0024	-.0027	-.0004	-.0001	-.0036
#2	-.0004	-.0008	-.0012	.0008	-.0002	-.0001	-.0016
#3	-.0010	.0071	.0047	-.0007	-.0002	-.0001	.0023

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0006	-.0099	-.0015	.0006	-.0010	-.0012
SDev	.0009	.0005	.0014	.0006	.0003	.0019	.0008
%RSD	28350.	83.60	14.23	39.48	43.44	193.6	68.04
#1	-.0008	.0009	-.0114	-.0022	.0003	-.0032	-.0021
#2	-.0001	.0000	-.0086	-.0014	.0007	.0002	-.0006
#3	.0010	.0008	-.0097	-.0010	.0007	.0001	-.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0016	-.2984	-.0015	-.0009	.0003	-.0003
SDev	.0003	.0007	.1410	.0016	.0011	.0073	.0002
%RSD	52.97	43.99	47.25	111.1	120.7	2168.	46.86
#1	-.0008	.0009	-.4587	-.0033	-.0018	-.0080	-.0002
#2	-.0003	.0016	-.2432	-.0002	-.0014	.0035	-.0005
#3	-.0004	.0023	-.1934	-.0009	.0004	.0055	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0121	-.0086	.0087	.0068	.0016	-.0188
SDev	.0001	.0235	.0063	.0013	.0049	.0045	.0156
%RSD	12.83	195.1	72.64	14.95	71.91	277.4	83.01
#1	-.0007	-.0392	-.0145	.0072	.0026	-.0031	-.0368
#2	-.0009	.0016	-.0094	.0095	.0057	.0021	-.0089
#3	-.0007	.0015	-.0020	.0095	.0122	.0058	-.0107

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0085	.0015	-.0003	-.0996	-.0261	-.0001	-.0019
SDev	.0055	.0063	.0197	.0033	.0217	.0001	.0058
%RSD	63.98	413.3	6753.	3.286	83.32	101.5	304.8
#1	-.0139	-.0057	-.0209	-.1033	-.0511	-.0001	-.0050
#2	-.0087	.0060	.0183	-.0983	-.0126	.0000	-.0055
#3	-.0030	.0043	.0016	-.0971	-.0145	-.0001	.0048

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	-.0006	-.0029	-.1223	-.0008	-.0047	-.0005
SDev	.0072	.0004	.0051	.0561	.0007	.0047	.0003

%RSD	459.0	74.25	175.3	45.84	96.90	99.11	60.68
#1	-.0071	-.0010	-.0078	-.1770	-.0016	-.0055	-.0009
#2	.0066	-.0005	-.0031	-.1250	-.0003	.0003	-.0003
#3	-.0043	-.0002	.0023	-.0649	-.0004	-.0089	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0012	.0005
SDev	.0003	.0004
%RSD	21.22	87.48
#1	-.0010	.0001
#2	-.0011	.0004
#3	-.0015	.0009

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Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6598	.2106	.1690	.1072	.0308	.0174	.1448
SDev	.0045	.0013	.0015	.0018	.0002	.0001	.0006
%RSD	.6875	.6013	.8881	1.712	.7490	.6649	.4048
#1	.6649	.2120	.1699	.1080	.0311	.0175	.1441
#2	.6563	.2101	.1673	.1085	.0307	.0173	.1452
#3	.6581	.2096	.1699	.1051	.0307	.0173	.1450

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1297	.0449	.6281	.1439	.0477	.0456	.1956
SDev	.0006	.0011	.0043	.0007	.0006	.0003	.0013
%RSD	.4517	2.451	.6807	.4628	1.330	.6579	.6475
#1	.1304	.0444	.6329	.1446	.0481	.0459	.1970
#2	.1293	.0442	.6247	.1433	.0470	.0453	.1946
#3	.1295	.0462	.6267	.1437	.0481	.0456	.1951

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0339	.0568	.2165	.0992	.0418	.2399	.0197
SDev	.0002	.0003	.0011	.0003	.0006	.0021	.0003
%RSD	.6147	.6187	.5334	.3081	1.539	.8913	1.275
#1	.0341	.0571	.2178	.0995	.0425	.2424	.0200
#2	.0337	.0564	.2158	.0991	.0413	.2386	.0197
#3	.0338	.0568	.2158	.0989	.0415	.2388	.0195

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0817	.0414	.3685	.0477	.1299	1.347	1.540
SDev	.0010	.0001	.0032	.0010	.0010	.017	.011
%RSD	1.273	.3687	.8621	2.065	.7597	1.292	.6886
#1	.0829	.0416	.3722	.0485	.1310	1.364	1.552
#2	.0809	.0413	.3666	.0466	.1292	1.329	1.533
#3	.0814	.0414	.3668	.0480	.1294	1.347	1.535

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.527	.2609	.1564	.3929	.6862	.0142	1.001
SDev	.011	.0029	.0032	.0019	.0056	.0001	.011
%RSD	.7087	1.102	2.031	.4872	.8141	.7042	1.125
#1	1.538	.2613	.1601	.3949	.6926	.0143	1.014
#2	1.517	.2578	.1547	.3926	.6837	.0141	.9948
#3	1.526	.2635	.1545	.3911	.6823	.0142	.9946

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2367	.0651	.0345	1.732	.0985	.0312	.0257
SDev	.0022	.0004	.0007	.008	.0006	.0003	.0001
%RSD	.9524	.5819	2.090	.4340	.6529	.9262	.3891
#1	.2389	.0655	.0337	1.741	.0992	.0310	.0258
#2	.2344	.0648	.0351	1.726	.0982	.0310	.0256
#3	.2369	.0649	.0347	1.730	.0980	.0315	.0257

Elem	Zn	Zr
Avge	.0339	.0814
SDev	.0001	.0005

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%RSD	.1705	.5808
#1	.0338	.0819
#2	.0339	.0810
#3	.0339	.0812

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.411	18.33	13.15	4.628	77.50	47.21	12.56
SDev	.082	.10	.08	.049	.41	.28	.08
%RSD	.9787	.5190	.6054	1.056	.5230	.5850	.6646
#1	8.375	18.25	13.09	4.606	77.20	47.05	12.49
#2	8.352	18.31	13.13	4.595	77.35	47.05	12.53
#3	8.505	18.43	13.24	4.685	77.96	47.53	12.65

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.986	6.307	61.85	8.687	15.68	30.65	26.74
SDev	.122	.032	.23	.096	.12	.19	.18
%RSD	2.032	.5112	.3783	1.110	.7348	.6244	.6687
#1	6.001	6.280	61.64	8.630	15.61	30.51	26.64
#2	5.858	6.300	61.82	8.631	15.62	30.57	26.64
#3	6.100	6.343	62.10	8.798	15.82	30.86	26.95

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Method: ICP1 Standard: STD3

input std 5 in place of 3 will rerun 9/14/95

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	.4128	.1408	.4382	1.138	.2222	.0526	.0276
SDev	.0015	.0008	.0014	.011	.0007	.0008	.0001
%RSD	.3571	.5637	.3107	.9240	.2996	1.524	.3623
#1	.4123	.1417	.4387	1.143	.2218	.0518	.0276
#2	.4117	.1405	.4367	1.125	.2230	.0534	.0277
#3	.4145	.1402	.4393	1.144	.2219	.0527	.0275

Elem	P
Avge	.1513
SDev	.0029
%RSD	1.927
#1	.1497
#2	.1496
#3	.1547

Standardization Rpt. Mon 09-11-95 12:45:48 PM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.19	51.54	82.05	10.15	3.084	13.58	7.321
SDev	.23	.13	.20	.04	.018	.08	.018
%RSD	.3050	.2585	.2430	.3763	.5852	.6190	.2527
#1	75.22	51.55	82.06	10.16	3.078	13.54	7.324
#2	74.95	51.40	81.85	10.10	3.071	13.52	7.302
#3	75.40	51.67	82.25	10.18	3.105	13.67	7.339

Elem	P
Avge	14.42
SDev	.04
%RSD	.3051
#1	14.42
#2	14.37
#3	14.46

Standardization Rpt. Mon 09-11-95 12:49:24 PM page 1

Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	50.12	11.56	6.393	17.25	12.37
SDev	.52	.12	.060	.18	.11
%RSD	1.035	1.011	.9410	1.019	.8886
#1	49.70	11.45	6.345	17.09	12.28
#2	50.70	11.68	6.460	17.44	12.49
#3	49.98	11.53	6.374	17.21	12.33

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.83	25.62	37.07	12.57	3.249
SDev	.09	.09	.10	.04	.009
%RSD	.3218	.3543	.2766	.3243	.2665
#1	27.80	25.52	36.99	12.55	3.244
#2	27.94	25.70	37.19	12.62	3.259
#3	27.77	25.63	37.04	12.55	3.244

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Method: ICP1 Standard: STD6

Elem	U
Avge	52.80
SDev	.33
%RSD	.6250
#1	52.48
#2	52.77
#3	53.14

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.926	79.50	56.89
SDev	.011	.40	.28
%RSD	.5931	.5053	.4927
#1	1.929	79.43	56.93
#2	1.913	79.14	56.59
#3	1.934	79.94	57.14

Standardization Rpt. Mon 09-11-95 01:05:10 PM page 1

Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	31.31	27.96	4.072	1.259
SDev	.09	.10	.009	.005
%RSD	.2772	.3512	.2193	.3646
#1	31.21	27.85	4.061	1.254
#2	31.36	28.01	4.075	1.263
#3	31.35	28.02	4.078	1.260

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Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/11/95 09:03:12
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0067	.0113	.0279	.0105	.0001	.0002	.0057
SDev	.0013	.0051	.0009	.0010	.0003	.0001	.0079
%RSD	19.78	45.62	3.299	9.598	312.9	28.05	137.2
#1	.0077	.0151	.0275	.0099	.0005	.0002	.0063
#2	.0071	.0133	.0290	.0100	-.0001	.0002	.0133
#3	.0052	.0054	.0273	.0117	-.0001	.0001	-.0024

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0092	.0020	.0299	.0034	.0046	10.16	-.0011
SDev	.0018	.0012	.0091	.0008	.0011	.07	.0008
%RSD	19.29	59.82	30.44	23.77	24.74	.7277	76.10
#1	-.0077	.0009	.0382	.0041	.0055	10.08	-.0004
#2	-.0087	.0033	.0312	.0036	.0033	10.17	-.0009
#3	-.0112	.0019	.0202	.0025	.0051	10.23	-.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0008	1.082	.0053	10.93	.0113	10.36
SDev	.0003	.0007	.218	.0025	.26	.0075	.03
%RSD	32.39	88.74	20.13	47.56	2.366	66.51	.2928
#1	.0009	.0014	1.305	.0068	10.66	.0192	10.33
#2	.0010	.0011	1.070	.0067	10.95	.0043	10.38
#3	.0005	-.0000	.8703	.0024	11.18	.0102	10.38

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0486	.0203	.0070	.0004	10.61	.0646
SDev	.0008	.0293	.0054	.0020	.0253	.01	.0168
%RSD	765.4	60.31	26.83	28.17	6448.	.0818	25.96
#1	.0005	.0779	.0266	.0068	-.0133	10.60	.0825
#2	-.0009	.0486	.0173	.0091	.0295	10.62	.0621
#3	.0001	.0193	.0170	.0052	-.0151	10.61	.0493

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0310	.0267	.0219	.2091	.0985	-.0002	.0140
SDev	.0102	.0052	.0131	.0064	.0152	.0001	.0081
%RSD	32.72	19.33	59.71	3.046	15.43	58.98	58.32
#1	.0401	.0221	.0368	.2138	.1154	-.0001	.0207
#2	.0329	.0323	.0161	.2116	.0860	-.0002	.0163
#3	.0201	.0256	.0127	.2019	.0942	-.0003	.0049

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0091	.0018	.0546	.3113	.0037	.0020	.0017
SDev	.0053	.0005	.0022	.0968	.0007	.0076	.0004

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%RSD	57.76	30.04	4.092	31.11	19.17	385.8	23.30
#1	.0094	.0023	.0529	.4008	.0042	.0099	.0021
#2	.0037	.0016	.0538	.3244	.0040	-.0052	.0018
#3	.0143	.0013	.0571	.2085	.0029	.0012	.0013

Elem	Zn	Zr
Units	ppm	ppm
Avge	10.36	.0032
SDev	.03	.0012
%RSD	.2553	36.41
#1	10.33	.0042
#2	10.39	.0034
#3	10.37	.0019

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Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6676	.2118	.1681	.1089	.0310	.0174	.1444
SDev	.0029	.0003	.0011	.0012	.0001	.0001	.0011
%RSD	.4384	.1188	.6524	1.064	.3226	.3312	.7329
#1	.6690	.2118	.1685	.1097	.0311	.0174	.1448
#2	.6695	.2121	.1669	.1076	.0310	.0175	.1432
#3	.6642	.2116	.1690	.1095	.0309	.0174	.1452

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1310	.0441	.6350	.1437	.0477	.0474	.1966
SDev	.0003	.0006	.0026	.0009	.0003	.0002	.0006
%RSD	.2644	1.263	.4089	.6430	.6056	.4395	.3052
#1	.1312	.0440	.6373	.1442	.0475	.0472	.1972
#2	.1312	.0436	.6356	.1442	.0475	.0476	.1966
#3	.1306	.0447	.6322	.1426	.0480	.0473	.1960

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0341	.0572	.2195	.0999	.0421	.2409	.0203
SDev	.0001	.0004	.0005	.0004	.0002	.0004	.0001
%RSD	.2933	.6303	.2338	.3788	.4751	.1677	.5679
#1	.0342	.0576	.2194	.1001	.0423	.2413	.0204
#2	.0341	.0571	.2201	.1002	.0419	.2410	.0204
#3	.0340	.0569	.2191	.0995	.0421	.2405	.0202

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0809	.0419	.3707	.0477	.1303	1.359	1.549
SDev	.0011	.0004	.0015	.0006	.0019	.007	.005
%RSD	1.337	1.075	.4129	1.154	1.418	.4826	.3236
#1	.0806	.0424	.3713	.0477	.1314	1.366	1.550
#2	.0821	.0419	.3719	.0472	.1314	1.355	1.553
#3	.0800	.0415	.3690	.0483	.1282	1.355	1.543

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.537	.2638	.1539	.4590	.6939	.0141	1.007
SDev	.005	.0023	.0011	.0029	.0006	.0001	.005
%RSD	.3118	.8586	.6888	.6361	.0900	.4104	.4865
#1	1.540	.2614	.1550	.4605	.6944	.0141	1.006
#2	1.540	.2659	.1537	.4608	.6941	.0141	1.013
#3	1.532	.2641	.1529	.4556	.6932	.0140	1.003

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2396	.0658	.0344	1.750	.0995	.0305	.0260
SDev	.0007	.0002	.0004	.007	.0004	.0002	.0001
%RSD	.3019	.3512	1.211	.4202	.3624	.6818	.2223
#1	.2388	.0659	.0339	1.755	.0996	.0306	.0260
#2	.2400	.0659	.0347	1.753	.0998	.0307	.0260
#3	.2401	.0655	.0345	1.741	.0991	.0303	.0259

Elem	Zn	Zr
Avge	.0330	.0824
SDev	.0011	.0002

%RSD	3.376	.2102
#1	.0343	.0825
#2	.0322	.0825
#3	.0326	.0822

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.264	17.94	12.96	4.597	76.24	46.71	12.27
SDev	.044	.03	.03	.026	.17	.14	.02
%RSD	.5342	.1687	.2191	.5605	.2226	.2959	.1947
#1	8.241	17.91	12.95	4.576	76.22	46.67	12.26
#2	8.315	17.97	13.00	4.626	76.42	46.86	12.30
#3	8.235	17.93	12.95	4.590	76.08	46.60	12.25

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	6.163	6.134	61.09	8.375	15.34	29.60	26.26
SDev	.092	.006	.12	.042	.05	.04	.09
%RSD	1.493	.1042	.2032	.5065	.3323	.1247	.3564
#1	6.135	6.132	60.98	8.340	15.32	29.56	26.24
#2	6.265	6.142	61.22	8.422	15.40	29.64	26.37
#3	6.087	6.129	61.08	8.363	15.30	29.59	26.18

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Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	75.50	51.70	81.66	10.19	3.235	14.13	7.314
SDev	.35	.19	.21	.04	.035	.15	.023
%RSD	.4613	.3669	.2524	.3962	1.085	1.075	.3077
#1	75.87	51.89	81.86	10.23	3.275	14.30	7.335
#2	75.18	51.51	81.45	10.15	3.209	14.01	7.290
#3	75.45	51.71	81.69	10.19	3.222	14.09	7.315

Elem	P
Avge	14.53
SDev	.07
%RSD	.4495
#1	14.58
#2	14.46
#3	14.54

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Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	50.33	11.56	6.345	17.23	12.35
SDev	.17	.03	.021	.04	.04
%RSD	.3366	.2617	.3234	.2537	.2919
#1	50.50	11.58	6.349	17.27	12.35
#2	50.16	11.53	6.323	17.18	12.31
#3	50.32	11.57	6.363	17.25	12.38

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.65	25.74	37.25	12.76	3.321
SDev	.02	.07	.05	.03	.008
%RSD	.0786	.2633	.1467	.2094	.2275
#1	27.65	25.81	37.29	12.79	3.329
#2	27.62	25.69	37.19	12.73	3.314
#3	27.67	25.71	37.26	12.76	3.322

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Method: ICP1 Standard: STD6

Elem	U
Avge	52.93
SDev	.06
%RSD	.1178
#1	52.92
#2	53.00
#3	52.87

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.953	79.74	57.00
SDev	.003	.05	.06
%RSD	.1280	.0648	.1133
#1	1.956	79.79	57.04
#2	1.951	79.69	56.93
#3	1.952	79.73	57.04

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	31.00	27.78	4.003	1.213
SDev	.14	.11	.017	.008
%RSD	.4496	.4050	.4225	.6599
#1	31.11	27.85	4.012	1.222
#2	31.05	27.84	4.014	1.211
#3	30.84	27.65	3.984	1.207

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.73	51.30	8.712	3.380
SDev	.10	.33	.025	.013
%RSD	.4775	.6458	.2847	.3904
#1	21.66	51.08	8.703	3.375
#2	21.85	51.68	8.740	3.395
#3	21.69	51.14	8.693	3.370

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.329678	-.220082	09/11/95 09:37:30
Al	308.215	STD3	STD1-Blank	6.64128	-1.40684	09/11/95 09:37:30
As	193.600	STD5	STD1-Blank	3.63924	-.611877	09/11/95 09:37:30
B	249.600	STD3	STD1-Blank	.969097	-.105567	09/11/95 09:37:30
Ba	493.400	STD2	STD1-Blank	1.21466	-.037655	09/11/95 09:37:30
Be	313.042	STD7	STD1-Blank	.516609	-.009006	09/11/95 09:37:30
Bi	223.061	STD8	STD1-Blank	3.61838	-.522494	09/11/95 09:37:30
Ca	317.900	STD3	STD1-Blank	3.06628	-.401683	09/11/95 09:37:30
Cd	228.800	STD3	STD1-Blank	.985607	-.043465	09/11/95 09:37:30
Ce	418.659	STD5	STD1-Blank	1.99196	-1.26496	09/11/95 09:37:30
Co	228.600	STD2	STD1-Blank	1.12409	-.161494	09/11/95 09:37:30
Cr	205.500	STD2	STD1-Blank	1.54837	-.073805	09/11/95 09:37:30
Cu	324.700	STD2	STD1-Blank	4.39583	-.208216	09/11/95 09:37:30
Dy	353.170	STD4	STD1-Blank	.997400	-.196089	09/11/95 09:37:30
Eu	381.900	STD4	STD1-Blank	1.73516	-.059169	09/11/95 09:37:30
Fe	259.900	STD2	STD1-Blank	2.62534	-.150170	09/11/95 09:37:30
K	766.500	STD3	STD1-Blank	165.790	-36.3964	09/11/95 09:37:30
La	398.852	STD4	STD1-Blank	3.20260	-.320046	09/11/95 09:37:30
Li	670.700	STD3	STD1-Blank	3.54810	-.149375	09/11/95 09:37:30
Mg	279.078	STD2	STD1-Blank	5.38016	-1.29626	09/11/95 09:37:30
Mn	257.600	STD3	STD1-Blank	1.37112	-.027879	09/11/95 09:37:30
Mo	202.000	STD2	STD1-Blank	1.64094	-.132752	09/11/95 09:37:30
Na	588.900	STD2	STD1-Blank	40.8443	-1.71274	09/11/95 09:37:30
Nd	406.106	STD4	STD1-Blank	2.96521	-1.09930	09/11/95 09:37:30
Ni	231.600	STD2	STD1-Blank	3.28587	-.156846	09/11/95 09:37:30
P	214.900	STD3	STD1-Blank	6.94657	-.905369	09/11/95 09:37:30
Pb	220.300	STD2	STD1-Blank	.837027	-1.13730	09/11/95 09:37:30
Pd	360.959	STD9	STD1-Blank	2.47714	-3.83642	09/11/95 09:37:30
Rh	343.489	STD9	STD1-Blank	1.00478	-1.54478	09/11/95 09:37:30
Sb	206.838	STD5	STD1-Blank	2.70398	-.713309	09/11/95 09:37:30
Se	196.026	STD8	STD1-Blank	5.19598	-.799487	09/11/95 09:37:30
Si	288.100	STD7	STD1-Blank	2.52275	-1.15786	09/11/95 09:37:30
Sn	242.950	STD9	STD1-Blank	7.16855	-4.97426	09/11/95 09:37:30
Sr	421.500	STD2	STD1-Blank	1.19608	-.016825	09/11/95 09:37:30
Te	214.275	STD7	STD1-Blank	.892696	-.899325	09/11/95 09:37:30
Th	283.730	STD4	STD1-Blank	4.12935	-.989531	09/11/95 09:37:30
Ti	334.900	STD2	STD1-Blank	1.30942	-.086116	09/11/95 09:37:30
Tl	190.864	STD8	STD1-Blank	16.9640	-.582996	09/11/95 09:37:30
U	378.280	STD6	STD1-Blank	9.76913	-17.0943	09/11/95 09:37:30
V	292.402	STD5	STD1-Blank	1.57970	-.157180	09/11/95 09:37:30
W	224.875	STD9	STD1-Blank	15.1278	-.461901	09/11/95 09:37:30
Y	371.030	STD5	STD1-Blank	3.03459	-.078798	09/11/95 09:37:30
Zn	213.800	STD2	STD1-Blank	.676530	-.022348	09/11/95 09:37:30
Zr	339.100	STD2	STD1-Blank	1.90980	-.157368	09/11/95 09:37:30

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	3.03326	.220082	09/11/95 09:37:30
Al	308.215	STD3	STD1-Blank	.150573	1.40684	09/11/95 09:37:30
As	193.600	STD5	STD1-Blank	.274783	.611877	09/11/95 09:37:30
B	249.600	STD3	STD1-Blank	1.03189	.105567	09/11/95 09:37:30
Ba	493.400	STD2	STD1-Blank	.823273	.037655	09/11/95 09:37:30
Be	313.042	STD7	STD1-Blank	1.93570	.009006	09/11/95 09:37:30
Bi	223.061	STD8	STD1-Blank	.276367	.522494	09/11/95 09:37:30
Ca	317.900	STD3	STD1-Blank	.326128	.401683	09/11/95 09:37:30
Cd	228.800	STD3	STD1-Blank	1.01460	.043465	09/11/95 09:37:30
Ce	418.659	STD5	STD1-Blank	.502019	1.26496	09/11/95 09:37:30
Co	228.600	STD2	STD1-Blank	.889610	.161494	09/11/95 09:37:30
Cr	205.500	STD2	STD1-Blank	.645842	.073805	09/11/95 09:37:30
Cu	324.700	STD2	STD1-Blank	.227488	.208216	09/11/95 09:37:30
Dy	353.170	STD4	STD1-Blank	1.00261	.196089	09/11/95 09:37:30
Eu	381.900	STD4	STD1-Blank	.576317	.059169	09/11/95 09:37:30
Fe	259.900	STD2	STD1-Blank	.380903	.150170	09/11/95 09:37:30
K	766.500	STD3	STD1-Blank	.006032	36.3964	09/11/95 09:37:30
La	398.852	STD4	STD1-Blank	.312247	.320046	09/11/95 09:37:30
Li	670.700	STD3	STD1-Blank	.281841	.149375	09/11/95 09:37:30
Mg	279.078	STD2	STD1-Blank	.185868	1.29626	09/11/95 09:37:30
Mn	257.600	STD3	STD1-Blank	.729333	.027879	09/11/95 09:37:30
Mo	202.000	STD2	STD1-Blank	.609405	.132752	09/11/95 09:37:30
Na	588.900	STD2	STD1-Blank	.024483	1.71274	09/11/95 09:37:30
Nd	406.106	STD4	STD1-Blank	.337244	1.09930	09/11/95 09:37:30
Ni	231.600	STD2	STD1-Blank	.304333	.156846	09/11/95 09:37:30
P	214.900	STD3	STD1-Blank	.143956	.905369	09/11/95 09:37:3
Pb	220.300	STD2	STD1-Blank	1.19470	1.13730	09/11/95 09:37:3
Pd	360.959	STD9	STD1-Blank	.403692	3.83642	09/11/95 09:37:30
Rh	343.489	STD9	STD1-Blank	.995245	1.54478	09/11/95 09:37:30
Sb	206.838	STD5	STD1-Blank	.369826	.713309	09/11/95 09:37:30
Se	196.026	STD8	STD1-Blank	.192457	.799487	09/11/95 09:37:30
Si	288.100	STD7	STD1-Blank	.396393	1.15786	09/11/95 09:37:30
Sn	242.950	STD9	STD1-Blank	.139498	4.97426	09/11/95 09:37:30
Sr	421.500	STD2	STD1-Blank	.836067	.016825	09/11/95 09:37:30
Te	214.275	STD7	STD1-Blank	1.11995	.899325	09/11/95 09:37:30
Th	283.730	STD4	STD1-Blank	.242169	.989531	09/11/95 09:37:30
Ti	334.900	STD2	STD1-Blank	.763695	.086116	09/11/95 09:37:30
Tl	190.864	STD8	STD1-Blank	.058948	.582996	09/11/95 09:37:30
U	378.280	STD6	STD1-Blank	.102363	17.0943	09/11/95 09:37:30
V	292.402	STD5	STD1-Blank	.633032	.157180	09/11/95 09:37:30
W	224.875	STD9	STD1-Blank	.066104	.461901	09/11/95 09:37:30
Y	371.030	STD5	STD1-Blank	.329533	.078798	09/11/95 09:37:30
Zn	213.800	STD2	STD1-Blank	1.47813	.022348	09/11/95 09:37:30
Zr	339.100	STD2	STD1-Blank	.523615	.157368	09/11/95 09:37:30

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Method: ICP1

			Known Concentration	Measured Concentration	Residual Concentration
Element Ag	Wavelength 328.068	Standard STD1-Blank STD8	.000000 10.0000	.000000 10.0000	-.000000 .000000
Element Al	Wavelength 308.215	Standard STD1-Blank STD3	.000000 500.000	.000000 500.000	-.000000 .000000
Element As	Wavelength 193.600	Standard STD1-Blank STD5	.000000 100.000	.000000 100.000	-.000000 .000000
Element B	Wavelength 249.600	Standard STD1-Blank STD3	.000000 50.0000	.000000 50.0000	-.000000 .000000
Element Ba	Wavelength 493.400	Standard STD1-Blank STD2	.000000 10.0000	.000000 10.0000	-.000000 .000000
Element Be	Wavelength 313.042	Standard STD1-Blank STD7	.000000 1.00000	.000000 1.000000	-.000000 .000000
Element Bi	Wavelength 223.061	Standard STD1-Blank STD8	.000000 100.000	.000000 100.000	-.000000 .000000
Element Ca	Wavelength 317.900	Standard STD1-Blank STD3	.000000 250.000	.000000 250.000	-.000000 .000000
Element Cd	Wavelength 228.800	Standard STD1-Blank STD3	.000000 10.0000	-.000000 10.0000	.000000 .000000
Element Ce	Wavelength 418.659	Standard STD1-Blank STD5	.000000 50.0000	-.000000 50.0000	.000000 .000000
Element Co	Wavelength 228.600	Standard STD1-Blank STD2	.000000 20.0000	-.000000 20.0000	.000000 .000000

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			Known Concentration	Measured Concentration	Residual Concentration
Element Cr	Wavelength 205.500	Standard STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element Cu	Wavelength 324.700	Standard STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element Dy	Wavelength 353.170	Standard STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element Eu	Wavelength 381.900	Standard STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element Fe	Wavelength 259.900	Standard STD1-Blank	.000000	.000000	-.000000
		STD2	200.000	200.000	.000000
Element K	Wavelength 766.500	Standard STD1-Blank	.000000	.000001	-.000001
		STD3	500.000	500.000	.000000
Element La	Wavelength 398.852	Standard STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element Li	Wavelength 670.700	Standard STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element Mg	Wavelength 279.078	Standard STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000015
Element Mn	Wavelength 257.600	Standard STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element Mo	Wavelength 202.000	Standard STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	-.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	57.4769	-7.47695

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			Known Concentration	Measured Concentration	Residual Concentration
Element Sr	Wavelength 421.500	Standard STD1-Blank STD2	.000000 10.0000	-.000000 10.0000	.000000 .000000
Element Te	Wavelength 214.275	Standard STD1-Blank STD7	.000000 50.0000	.000000 50.0000	-.000000 .000000
Element Th	Wavelength 283.730	Standard STD1-Blank STD4	.000000 50.0000	.000000 50.0000	-.000000 .000000
Element Ti	Wavelength 334.900	Standard STD1-Blank STD2	.000000 20.0000	-.000000 20.0000	.000000 .000000
Element Tl	Wavelength 190.864	Standard STD1-Blank STD8	.000000 20.0000	.000000 20.0000	-.000000 .000000
Element U	Wavelength 378.280	Standard STD1-Blank STD6	.000000 500.000	.000000 500.000	-.000000 .000000
Element V	Wavelength 292.402	Standard STD1-Blank STD5	.000000 20.0000	-.000000 20.0000	.000000 .000000
Element W	Wavelength 224.875	Standard STD1-Blank STD9	.000000 50.0000	.000000 50.6669	-.000000 -.666901
Element Y	Wavelength 371.030	Standard STD1-Blank STD5	.000000 10.0000	-.000000 10.0000	.000000 .000000
Element Zn	Wavelength 213.800	Standard STD1-Blank STD2	.000000 20.0000	.000000 20.0000	-.000000 .000000
Element Zr	Wavelength 339.100	Standard STD1-Blank STD2	.000000 50.0000	.000000 50.0000	-.000000 .000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 09:44:53
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0005	.0022	.0051	.0002	.0000	.0009
SDev	.0016	.0054	.0054	.0011	.0004	.0000	.0080
%RSD	303.7	1131.	245.2	21.12	210.5	34.86	938.2
#1	.0009	.0026	.0028	.0041	.0006	.0001	.0098
#2	-.0002	.0028	.0073	.0051	.0002	.0000	-.0016
#3	-.0022	-.0068	-.0035	.0062	-.0002	.0000	-.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0028	.0008	.0008	.0009	-.0003	.0002	.0003
SDev	.0019	.0010	.0082	.0014	.0013	.0008	.0009
%RSD	67.46	118.6	1028.	156.4	387.2	464.8	316.6
#1	-.0015	.0011	.0084	.0024	.0011	.0010	.0013
#2	-.0020	-.0003	.0019	.0007	-.0014	.0000	.0000
#3	-.0050	.0016	-.0079	-.0004	-.0007	-.0005	-.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0008	-.0497	.0005	-.0004	-.0048	-.0005
SDev	.0004	.0013	.2323	.0025	.0000	.0124	.0001
%RSD	185.0	164.3	467.1	470.2	.8622	260.5	25.51
#1	.0006	.0005	.1768	.0034	-.0004	.0074	-.0005
#2	.0002	-.0009	-.0387	-.0002	-.0004	-.0042	-.0003
#3	-.0001	-.0020	-.2874	-.0016	-.0004	-.0174	-.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0014	.0034	.0009	.0079	.0078	.0146
SDev	.0014	.0140	.0063	.0018	.0205	.0060	.0152
%RSD	261.4	966.1	185.1	207.9	259.0	77.07	104.0
#1	.0004	.0065	.0106	.0028	.0266	.0098	.0309
#2	.0020	.0067	.0009	.0005	.0111	.0126	.0118
#3	-.0008	-.0176	-.0012	-.0007	-.0140	.0010	.0010

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	-.0021	.0122	.7508	.0190	.0003	.0023
SDev	.0078	.0086	.0046	.0193	.0317	.0001	.0019
%RSD	306.2	419.3	37.79	2.574	166.8	19.13	85.92
#1	.0100	.0034	.0088	.7630	.0217	.0004	.0006
#2	.0032	.0025	.0103	.7610	.0492	.0003	.0018
#3	-.0055	-.0120	.0174	.7285	-.0140	.0003	.0044

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0002	-.0001	.0466	-.0002	.0115	.0001
SDev	.0015	.0002	.0073	.1114	.0009	.0077	.0005

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%RSD	149.2	106.4	6336.	239.2	509.2	66.62	724.3
#1	.0006	.0000	.0011	.1609	.0009	.0173	.0006
#2	-.0012	-.0004	.0065	.0406	-.0007	.0145	.0001
#3	-.0024	-.0003	-.0079	-.0618	-.0007	.0028	-.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0005	-.0007
SDev	.0007	.0009
%RSD	147.6	132.6
#1	.0010	-.0000
#2	-.0003	-.0003
#3	.0007	-.0017

Analysis Report QC Standard Mon 09-11-95 09:48:50 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 09:47:31
Comment: (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Fail-K RB 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4865	25.13	2.566	1.997	.5134	.0937	24.58
SDev	.0015	.10	.019	.009	.0022	.0002	.10
%RSD	.3166	.4121	.7317	.4373	.4296	.2524	.3892
#1	.4881	25.13	2.565	2.002	.5137	.0938	24.65
#2	.4863	25.24	2.586	2.003	.5154	.0938	24.62
#3	.4851	25.03	2.548	1.987	.5111	.0934	24.47
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.05	.5035	-.0286	1.036	1.032	1.008	.0005
SDev	.04	.0040	.0062	.004	.006	.007	.0005
%RSD	.1444	.7877	21.74	.3384	.5976	.6796	97.61
#1	25.06	.5080	-.0290	1.037	1.039	1.006	.0002
#2	25.08	.5007	-.0347	1.039	1.029	1.015	.0002
#3	25.01	.5016	-.0223	1.032	1.028	1.002	.0010
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.60	@27.56	.0054	1.998	26.72	.5126
SDev	.0002	.05	.34	.0007	.020	.06	.0015
%RSD	10.49	.2643	1.229	13.09	1.011	.2179	.2843
#1	.0022	20.61	27.32	.0055	1.988	26.75	.5131
#2	.0020	20.64	@27.95	.0047	2.022	26.75	.5137
#3	.0025	20.54	27.42	.0061	1.985	26.65	.5109
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	25.32	.0152	1.064	.0618	2.644	-.0125
SDev	.003	.26	.0037	.002	.0115	.007	.0061
%RSD	.2560	1.023	24.66	.2005	18.68	.2754	48.92
#1	1.037	25.15	.0166	1.063	.0706	2.645	-.0087
#2	1.036	25.61	.0109	1.066	.0487	2.651	-.0195
#3	1.032	25.19	.0180	1.062	.0661	2.636	-.0092
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Standardization Rpt.

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Method: ICP1

Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.88	52.10	8.741	3.368
SDev	.03	.09	.011	.008
%RSD	.1433	.1748	.1289	.2412
#1	21.85	52.04	8.729	3.359
#2	21.91	52.20	8.742	3.371
#3	21.89	52.05	8.752	3.374

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.326306	-.215286	09/11/95 01:07:02
Al	308.215	STD3	STD1-Blank	6.66839	-1.40414	09/11/95 01:07:02
As	193.600	STD5	STD1-Blank	3.61457	-.610983	09/11/95 01:07:02
B	249.600	STD3	STD1-Blank	.972156	-.104215	09/11/95 01:07:02
Ba	493.400	STD2	STD1-Blank	1.19336	-.036795	09/11/95 01:07:02
Be	313.042	STD7	STD1-Blank	.524054	-.009101	09/11/95 01:07:02
Bi	223.061	STD8	STD1-Blank	3.59516	-.520459	09/11/95 01:07:02
Ca	317.900	STD3	STD1-Blank	3.05160	-.395895	09/11/95 01:07:02
Cd	228.800	STD3	STD1-Blank	.990066	-.044487	09/11/95 01:07:02
Ce	418.659	STD5	STD1-Blank	2.00101	-1.25683	09/11/95 01:07:02
Co	228.600	STD2	STD1-Blank	1.09981	-.158226	09/11/95 01:07:02
Cr	205.500	STD2	STD1-Blank	1.52603	-.072843	09/11/95 01:07:02
Cu	324.700	STD2	STD1-Blank	4.36418	-.199006	09/11/95 01:07:02
Dy	353.170	STD4	STD1-Blank	1.00142	-.195844	09/11/95 01:07:02
Eu	381.900	STD4	STD1-Blank	1.73579	-.058786	09/11/95 01:07:02
Fe	259.900	STD2	STD1-Blank	2.58241	-.146595	09/11/95 01:07:02
K	766.500	STD3	STD1-Blank	174.344	-37.7396	09/11/95 01:07:02
La	398.852	STD4	STD1-Blank	3.17768	-.315120	09/11/95 01:07:02
Li	670.700	STD3	STD1-Blank	3.69424	-.154296	09/11/95 01:07:02
Mg	279.078	STD2	STD1-Blank	5.32260	-1.27707	09/11/95 01:07:02
Mn	257.600	STD3	STD1-Blank	1.36953	-.027025	09/11/95 01:07:02
Mo	202.000	STD2	STD1-Blank	1.60281	-.131003	09/11/95 01:07:02
Na	588.900	STD2	STD1-Blank	42.0521	-1.74236	09/11/95 01:07:02
Nd	406.106	STD4	STD1-Blank	2.96192	-1.09157	09/11/95 01:07:02
Ni	231.600	STD2	STD1-Blank	3.19504	-.152403	09/11/95 01:07:02
P	214.900	STD3	STD1-Blank	6.99958	-.909012	09/11/95 01:07:02
Pb	220.300	STD2	STD1-Blank	.826388	-1.11292	09/11/95 01:07:02
Pd	360.959	STD9	STD1-Blank	2.45804	-3.78538	09/11/95 01:07:02
Rh	343.489	STD9	STD1-Blank	.988702	-1.50968	09/11/95 01:07:02
Sb	206.838	STD5	STD1-Blank	2.71650	-.708643	09/11/95 01:07:02
Se	196.026	STD8	STD1-Blank	5.10834	-.799115	09/11/95 01:07:02
Si	288.100	STD7	STD1-Blank	2.52814	-.993222	09/11/95 01:07:02
Sn	242.950	STD9	STD1-Blank	7.13580	-4.89658	09/11/95 01:07:02
Sr	421.500	STD2	STD1-Blank	1.15308	-.016374	09/11/95 01:07:02
Te	214.275	STD7	STD1-Blank	.894677	-.895751	09/11/95 01:07:02
Th	283.730	STD4	STD1-Blank	4.12111	-.975603	09/11/95 01:07:02
Ti	334.900	STD2	STD1-Blank	1.28057	-.083322	09/11/95 01:07:02
Tl	190.864	STD8	STD1-Blank	16.3359	-.563587	09/11/95 01:07:02
U	378.280	STD6	STD1-Blank	9.79173	-16.9622	09/11/95 01:07:02
V	292.402	STD5	STD1-Blank	1.60336	-.157878	09/11/95 01:07:02
W	224.875	STD9	STD1-Blank	15.1850	-.473267	09/11/95 01:07:02
Y	371.030	STD5	STD1-Blank	3.10203	-.079722	09/11/95 01:07:02
Zn	213.800	STD2	STD1-Blank	.653309	-.022125	09/11/95 01:07:02
Zr	339.100	STD2	STD1-Blank	1.87550	-.152603	09/11/95 01:07:02

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	3.06461	.215286	09/11/95 01:07:02
Al	308.215	STD3	STD1-Blank	.149961	1.40414	09/11/95 01:07:02
As	193.600	STD5	STD1-Blank	.276658	.610983	09/11/95 01:07:02
B	249.600	STD3	STD1-Blank	1.02864	.104215	09/11/95 01:07:02
Ba	493.400	STD2	STD1-Blank	.837970	.036795	09/11/95 01:07:02
Be	313.042	STD7	STD1-Blank	1.90820	.009101	09/11/95 01:07:02
Bi	223.061	STD8	STD1-Blank	.278152	.520459	09/11/95 01:07:02
Ca	317.900	STD3	STD1-Blank	.327697	.395895	09/11/95 01:07:02
Cd	228.800	STD3	STD1-Blank	1.01003	.044487	09/11/95 01:07:02
Ce	418.659	STD5	STD1-Blank	.499748	1.25683	09/11/95 01:07:02
Co	228.600	STD2	STD1-Blank	.909247	.158226	09/11/95 01:07:02
Cr	205.500	STD2	STD1-Blank	.655293	.072843	09/11/95 01:07:02
Cu	324.700	STD2	STD1-Blank	.229138	.199006	09/11/95 01:07:02
Dy	353.170	STD4	STD1-Blank	.998585	.195844	09/11/95 01:07:02
Eu	381.900	STD4	STD1-Blank	.576105	.058786	09/11/95 01:07:02
Fe	259.900	STD2	STD1-Blank	.387235	.146595	09/11/95 01:07:02
K	766.500	STD3	STD1-Blank	.005736	37.7396	09/11/95 01:07:02
La	398.852	STD4	STD1-Blank	.314695	.315120	09/11/95 01:07:02
Li	670.700	STD3	STD1-Blank	.270692	.154296	09/11/95 01:07:02
Mg	279.078	STD2	STD1-Blank	.187878	1.27707	09/11/95 01:07:02
Mn	257.600	STD3	STD1-Blank	.730177	.027025	09/11/95 01:07:02
Mo	202.000	STD2	STD1-Blank	.623903	.131003	09/11/95 01:07:02
Na	588.900	STD2	STD1-Blank	.023780	1.74236	09/11/95 01:07:02
Nd	406.106	STD4	STD1-Blank	.337619	1.09157	09/11/95 01:07:02
Ni	231.600	STD2	STD1-Blank	.312985	.152403	09/11/95 01:07:02
P	214.900	STD3	STD1-Blank	.142866	.909012	09/11/95 01:07:0[illegible]
Pb	220.300	STD2	STD1-Blank	1.21009	1.11292	09/11/95 01:07:[illegible]
Pd	360.959	STD9	STD1-Blank	.406828	3.78538	09/11/95 01:07:0[illegible]
Rh	343.489	STD9	STD1-Blank	1.01143	1.50968	09/11/95 01:07:02
Sb	206.838	STD5	STD1-Blank	.368121	.708643	09/11/95 01:07:02
Se	196.026	STD8	STD1-Blank	.195758	.799115	09/11/95 01:07:02
Si	288.100	STD7	STD1-Blank	.395548	.993222	09/11/95 01:07:02
Sn	242.950	STD9	STD1-Blank	.140139	4.89658	09/11/95 01:07:02
Sr	421.500	STD2	STD1-Blank	.867240	.016374	09/11/95 01:07:02
Te	214.275	STD7	STD1-Blank	1.11772	.895751	09/11/95 01:07:02
Th	283.730	STD4	STD1-Blank	.242653	.975603	09/11/95 01:07:02
Ti	334.900	STD2	STD1-Blank	.780903	.083322	09/11/95 01:07:02
Tl	190.864	STD8	STD1-Blank	.061215	.563587	09/11/95 01:07:02
U	378.280	STD6	STD1-Blank	.102127	16.9622	09/11/95 01:07:02
V	292.402	STD5	STD1-Blank	.623688	.157878	09/11/95 01:07:02
W	224.875	STD9	STD1-Blank	.065854	.473267	09/11/95 01:07:02
Y	371.030	STD5	STD1-Blank	.322370	.079722	09/11/95 01:07:02
Zn	213.800	STD2	STD1-Blank	1.53067	.022125	09/11/95 01:07:02
Zr	339.100	STD2	STD1-Blank	.533191	.152603	09/11/95 01:07:02

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	-.000000	.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	-.000000	.000000
		STD3	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	-.000000	.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	.000000	-.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000031
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	-.000000	.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	-.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47695

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			Known Concentration	Measured Concentration	Residual Concentration
Element Sr	Wavelength 421.500	Standard	.000000	-.000000	.000000
		STD1-Blank	10.0000	10.00000	.000001
		STD2			
Element Te	Wavelength 214.275	Standard	.000000	-.000000	.000000
		STD1-Blank	50.0000	50.0000	.000000
		STD7			
Element Th	Wavelength 283.730	Standard	.000000	-.000000	.000000
		STD1-Blank	50.0000	50.0000	.000000
		STD4			
Element Ti	Wavelength 334.900	Standard	.000000	-.000000	.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD2			
Element Tl	Wavelength 190.864	Standard	.000000	.000000	-.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD8			
Element U	Wavelength 378.280	Standard	.000000	.000001	-.000001
		STD1-Blank	500.000	500.000	.000000
		STD6			
Element V	Wavelength 292.402	Standard	.000000	.000000	-.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD5			
Element W	Wavelength 224.875	Standard	.000000	-.000000	.000000
		STD1-Blank	50.0000	50.6669	-.666901
		STD9			
Element Y	Wavelength 371.030	Standard	.000000	-.000000	.000000
		STD1-Blank	10.0000	10.0000	.000000
		STD5			
Element Zn	Wavelength 213.800	Standard	.000000	-.000000	.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD2			
Element Zr	Wavelength 339.100	Standard	.000000	-.000000	.000000
		STD1-Blank	50.0000	50.0000	.000000
		STD2			

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 13:11:43
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0017	-.0012	.0115	-.0001	.0000	-.0054
SDev	.0005	.0051	.0050	.0002	.0001	.0000	.0052
%RSD	934.8	308.7	418.2	1.678	84.80	19530.	96.42
#1	.0001	-.0032	-.0066	.0117	-.0000	.0000	.0004
#2	.0004	.0070	-.0002	.0114	-.0000	.0000	-.0070
#3	-.0007	.0012	.0032	.0113	-.0002	-.0000	-.0096

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0069	.0002	.0111	-.0004	-.0013	.0083	.0000
SDev	.0008	.0014	.0084	.0005	.0012	.0006	.0009
%RSD	10.97	804.1	75.98	108.1	92.74	7.577	1862.
#1	-.0071	-.0012	.0073	-.0008	-.0026	.0079	-.0006
#2	-.0061	.0016	.0208	.0001	-.0011	.0090	.0011
#3	-.0076	.0000	.0052	-.0006	-.0002	.0079	-.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0011	-.0000	.0009	-.0006	-.0034	.0003
SDev	.0002	.0006	.1051	.0007	.0010	.0078	.0003
%RSD	102.3	51.66	9514000.	78.61	158.2	231.7	100.2
#1	.0001	-.0017	-.0116	.0001	-.0010	-.0026	.0004
#2	.0004	-.0005	.1104	.0015	.0005	.0040	.0005
#3	.0001	-.0012	-.0988	.0011	-.0014	-.0115	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0028	.0023	-.0002	.0082	.0021	.0086
SDev	.0013	.0072	.0053	.0010	.0022	.0044	.0067
%RSD	398.0	259.8	232.1	444.5	26.85	203.9	77.33
#1	-.0015	.0070	.0011	.0006	.0107	.0066	.0115
#2	-.0006	.0069	.0081	-.0000	.0067	.0020	.0133
#3	.0011	-.0056	-.0023	-.0013	.0072	-.0022	.0010

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	.0045	-.0055	.5820	.0146	.0002	-.0014
SDev	.0054	.0067	.0069	.0525	.0022	.0001	.0041
%RSD	109.4	149.8	124.5	9.019	14.89	33.24	289.5
#1	.0058	-.0006	.0019	.6352	.0137	.0002	.0018
#2	.0099	.0121	-.0117	.5807	.0170	.0002	-.0000
#3	-.0008	.0020	-.0067	.5302	.0130	.0001	-.0060

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0001	.0059	.0084	-.0007	.0014	-.0000
SDev	.0019	.0001	.0072	.0488	.0006	.0056	.0003

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%RSD	133.1	47.78	122.2	578.9	82.44	391.3	1713.
#1	.0026	.0002	.0083	-.0108	-.0009	-.0026	-.0000
#2	-.0008	.0001	-.0022	.0639	-.0001	.0079	.0003
#3	.0025	.0001	.0115	-.0278	-.0012	-.0009	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0009	-.0004
SDev	.0002	.0003
%RSD	22.16	72.86
#1	-.0007	-.0003
#2	-.0008	-.0001
#3	-.0011	-.0007

Analysis Report QC Standard Mon 09-11-95 01:15:03 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 13:13:44
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Fail-K
DLY 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4812	25.18	2.594	2.000	.5031	.0943	24.36
SDev	.0020	.15	.007	.016	.0029	.0004	.09
%RSD	.4197	.6110	.2716	.7981	.5833	.3815	.3755
#1	.4796	25.07	2.588	1.991	.5010	.0940	24.31
#2	.4835	25.35	2.592	2.019	.5065	.0947	24.47
#3	.4804	25.11	2.602	1.992	.5019	.0941	24.30
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.91	.4980	-.0158	1.015	1.015	1.002	.0012
SDev	.05	.0019	.0053	.002	.001	.003	.0009
%RSD	.2091	.3925	33.92	.1888	.0539	.3430	73.24
#1	24.87	.4966	-.0135	1.013	1.015	.9983	.0019
#2	24.97	.4972	-.0219	1.016	1.015	1.005	.0002
#3	24.88	.5002	-.0119	1.016	1.016	1.001	.0016
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	20.20	Q28.06	.0058	2.030	26.31	.5115
SDev	.0001	.05	.56	.0009	.037	.10	.0014
%RSD	5.471	.2498	1.993	14.92	1.815	.3645	.2704
#1	.0027	20.16	Q27.71	.0066	2.005	26.25	.5116
#2	.0024	20.26	Q28.70	.0049	2.073	26.42	.5128
#3	.0025	20.18	Q27.76	.0060	2.013	26.27	.5101
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.015	25.48	.0208	1.044	.0681	2.609	.0118
SDev	.002	.51	.0043	.002	.0171	.006	.0185
%RSD	.2079	2.011	20.77	.1525	25.09	.2437	156.5
#1	1.012	25.15	.0246	1.043	.0556	2.616	.0289
#2	1.016	26.07	.0161	1.044	.0611	2.604	-.0078
#3	1.016	25.23	.0216	1.046	.0876	2.607	.0143
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0106	2.552	2.468	19.20	-.0273	.5070	.0017
SDev	.0059	.000	.007	.08	.0244	.0032	.0060
%RSD	55.62	.0111	.2821	.4082	89.36	.6414	346.3
#1	.0149	2.552	2.460	19.17	-.0088	.5045	-.0022
#2	.0039	2.552	2.473	19.29	-.0549	.5107	-.0012
#3	.0130	2.552	2.470	19.15	-.0181	.5058	.0086
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0421	.9861	2.483	.2212	.9971	.0349	.0006
SDev	.0037	.0038	.007	.0759	.0035	.0001	.0004
%RSD	8.894	.3872	.2703	34.31	.3520	.1834	74.93
#1	.0456	.9834	2.479	.2616	.9945	.0349	.0007
#2	.0426	.9904	2.491	.1336	1.001	.0350	.0001
#3	.0382	.9843	2.479	.2683	.9957	.0348	.0010
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.008	2.019
SDev	.003	.011
%RSD	.2929	.5330
#1	1.012	2.013
#2	1.008	2.032
#3	1.006	2.013
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 01:26:12 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 13:24:53
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4853	25.09	2.599	1.992	.5091	.0950	24.56
SDev	.0012	.14	.006	.002	.0013	.0002	.07
%RSD	.2535	.5555	.2461	.0962	.2586	.2421	.2691
#1	.4857	25.25	2.605	1.990	.5107	.0951	24.60
#2	.4839	25.05	2.592	1.994	.5085	.0948	24.49
#3	.4863	24.98	2.601	1.992	.5083	.0952	24.59
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.79	.4964	-.0326	1.020	1.026	1.005	-.0006
SDev	.07	.0034	.0095	.003	.006	.003	.0011
%RSD	.2660	.6754	29.23	.3270	.5973	.3445	174.6
#1	24.78	.4925	-.0409	1.022	1.024	1.008	-.0015
#2	24.74	.4986	-.0346	1.016	1.021	1.001	-.0009
#3	24.87	.4980	-.0222	1.022	1.033	1.005	.0006
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	20.32	Q28.78	.0028	2.079	26.51	.5090
SDev	.0003	.05	.88	.0009	.053	.07	.0010
%RSD	15.88	.2656	3.056	32.71	2.555	.2656	.1939
#1	.0017	20.33	Q29.48	.0018	2.132	26.59	.5096
#2	.0019	20.27	Q29.08	.0029	2.079	26.45	.5079
#3	.0023	20.37	Q27.79	.0037	2.026	26.50	.5097
Errors	NOCHECK	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021	26.65	.0069	1.044	.0414	2.601	-.0323
SDev	.005	.75	.0041	.007	.0100	.009	.0114
%RSD	.4601	2.816	59.46	.7150	24.30	.3402	35.17
#1	1.017	27.30	.0028	1.036	.0495	2.596	-.0445
#2	1.019	26.82	.0068	1.046	.0301	2.595	-.0302
#3	1.026	25.83	.0110	1.050	.0444	2.611	-.0221
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0066	2.555	2.489	19.10	-.2107	.5139	-.0075
SDev	.0059	.012	.014	.03	.0256	.0021	.0037
%RSD	89.12	.4866	.5509	.1747	12.14	.4109	49.94
#1	-.0132	2.547	2.476	19.14	-.2391	.5163	-.0113
#2	-.0047	2.549	2.503	19.08	-.1894	.5125	-.0039
#3	-.0019	2.569	2.488	19.09	-.2036	.5129	-.0072
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0433	.9932	2.496	-.0212	1.004	.0198	.0002
SDev	.0034	.0026	.016	.0823	.003	.0056	.0001
%RSD	7.810	.2657	.6317	389.3	.2776	28.16	58.53
#1	.0447	.9951	2.479	-.1156	1.005	.0245	.0001
#2	.0395	.9902	2.499	.0354	1.001	.0213	.0003
#3	.0458	.9944	2.510	.0168	1.007	.0136	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.010	2.037
SDev	.001	.004
%RSD	.1051	.2206
#1	1.009	2.042
#2	1.010	2.033
#3	1.011	2.036
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6570	.2112	.1696	.1245	.0307	.0174	.1460
SDev	.0014	.0005	.0018	.0021	.0000	.0001	.0002
%RSD	.2133	.2430	1.088	1.648	.0000	.3324	.1426
#1	.6571	.2116	.1691	.1246	.0307	.0174	.1459
#2	.6556	.2106	.1680	.1265	.0307	.0173	.1458
#3	.6584	.2113	.1716	.1224	.0307	.0174	.1462

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1292	.0438	.6293	.1432	.0464	.0469	.1949
SDev	.0003	.0004	.0042	.0004	.0008	.0002	.0006
%RSD	.2364	.9952	.6615	.2643	1.711	.4921	.3338
#1	.1295	.0443	.6340	.1435	.0461	.0472	.1956
#2	.1289	.0436	.6260	.1434	.0473	.0468	.1943
#3	.1293	.0435	.6280	.1428	.0458	.0468	.1949

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0339	.0568	.2151	.0992	.0420	.2390	.0200
SDev	.0001	.0001	.0004	.0003	.0001	.0020	.0001
%RSD	.1705	.2688	.2097	.2667	.1376	.8358	.5783
#1	.0339	.0570	.2155	.0991	.0419	.2400	.0199
#2	.0338	.0567	.2146	.0990	.0420	.2367	.0199
#3	.0339	.0568	.2151	.0995	.0420	.2403	.0201

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0818	.0414	.3675	.0475	.1317	1.352	1.539
SDev	.0004	.0003	.0013	.0003	.0037	.005	.002
%RSD	.4939	.7373	.3600	.7293	2.787	.3878	.1605
#1	.0819	.0415	.3690	.0473	.1294	1.358	1.541
#2	.0814	.0411	.3665	.0473	.1297	1.349	1.537
#3	.0822	.0417	.3670	.0479	.1359	1.350	1.538

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.523	.2667	.1551	.4165	.6837	.0145	.9973
SDev	.005	.0013	.0013	.0016	.0021	.0001	.0080
%RSD	.3564	.4993	.8162	.3829	.3013	.3991	.8069
#1	1.526	.2656	.1561	.4183	.6860	.0145	1.006
#2	1.517	.2682	.1556	.4157	.6821	.0144	.9898
#3	1.526	.2664	.1537	.4154	.6829	.0145	.9963

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2362	.0650	.0350	1.728	.0978	.0311	.0255
SDev	.0017	.0002	.0002	.004	.0001	.0002	.0001
%RSD	.7100	.3204	.5942	.2563	.1180	.7418	.2261
#1	.2373	.0652	.0351	1.733	.0977	.0314	.0255
#2	.2371	.0648	.0352	1.727	.0979	.0310	.0255
#3	.2343	.0649	.0348	1.725	.0979	.0310	.0256

Elem	Zn	Zr
Avge	.0333	.0810
SDev	.0011	.0003

%RSD	3.303	.4277
#1	.0322	.0812
#2	.0344	.0806
#3	.0333	.0812

Standardization Rpt. Mon 09-11-95 01:31:18 PM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	77.06	52.78	82.56	10.29	3.255	14.44	7.413
SDev	.53	.24	.23	.05	.055	.28	.019
%RSD	.6930	.4544	.2755	.4489	1.691	1.918	.2496
#1	76.47	52.51	82.31	10.23	3.194	14.14	7.392
#2	77.51	52.97	82.61	10.31	3.301	14.69	7.424
#3	77.19	52.86	82.76	10.31	3.271	14.50	7.424

Elem	P
Avge	14.62
SDev	.07
%RSD	.4959
#1	14.53
#2	14.66
#3	14.65

Analysis Report Mon 09-11-95 01:35:25 PM page

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 13:34:06
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0097	-.0080	.0100	.0002	-.0000	-.0047
SDev	.0005	.0015	.0034	.0015	.0003	.0000	.0027
%RSD	1315.	15.93	42.80	15.34	155.2	6.534	58.20
#1	.0005	.0106	-.0042	.0092	.0002	-.0000	-.0016
#2	.0001	.0106	-.0107	.0117	.0004	-.0000	-.0059
#3	-.0005	.0079	-.0093	.0089	-.0001	-.0000	-.0066

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	.0006	-.0051	.0002	.0012	-.0016	.0000
SDev	.0013	.0002	.0021	.0004	.0013	.0010	.0006
%RSD	28.85	38.60	40.63	194.9	110.3	58.53	13270.
#1	.0049	.0003	-.0028	-.0002	.0025	-.0013	.0003
#2	.0031	.0007	-.0066	.0005	-.0001	-.0009	-.0006
#3	.0057	.0008	-.0061	.0003	.0012	-.0027	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0012	-.0493	-.0003	.0014	-.0037	.0002
SDev	.0002	.0007	.0414	.0007	.0010	.0045	.0000
%RSD	196.6	54.22	83.88	205.8	72.14	119.8	2.612
#1	-.0003	-.0005	-.0439	-.0005	.0008	-.0072	.0002
#2	.0001	-.0013	-.0110	.0004	.0008	.0013	.0002
#3	-.0001	-.0019	-.0932	-.0009	.0025	-.0053	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0112	-.0033	.0011	-.0034	-.0039	-.0053
SDev	.0018	.0170	.0014	.0008	.0059	.0040	.0102
%RSD	186.5	152.2	42.06	74.54	172.1	101.7	192.9
#1	-.0012	-.0266	-.0019	.0019	-.0080	.0006	.0017
#2	.0009	-.0139	-.0035	.0010	-.0055	-.0056	-.0006
#3	-.0026	.0070	-.0046	.0003	.0032	-.0068	-.0170

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	-.0126	-.0016	-.0240	.0118	-.0002	.0041
SDev	.0052	.0016	.0093	.0048	.0061	.0000	.0050
%RSD	277.3	12.92	575.7	19.95	51.30	.8701	121.1
#1	.0021	-.0142	-.0067	-.0224	.0058	-.0002	.0084
#2	.0000	-.0110	-.0073	-.0294	.0118	-.0002	-.0014
#3	-.0077	-.0126	.0091	-.0202	.0179	-.0002	.0053

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0003	-.0075	-.0377	-.0003	-.0004	-.0001
SDev	.0015	.0001	.0052	.0217	.0003	.0052	.0005

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%RSD	256.5	46.00	68.91	57.67	96.92	1218.	684.9
#1	-.0007	-.0003	-.0035	-.0411	.0000	-.0035	-.0004
#2	.0023	-.0002	-.0056	-.0575	-.0003	.0056	-.0004
#3	.0002	-.0005	-.0134	-.0144	-.0005	-.0033	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	-.0008
SDev	.0002	.0001
%RSD	54.41	16.60
#1	.0005	-.0007
#2	.0001	-.0009
#3	.0005	-.0009

Analysis Report QC Standard Mon 09-11-95 01:37:25 PM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 13:36:06
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4751	24.02	2.549	1.911	.4914	.0924	23.87
SDev	.0180	1.30	.119	.100	.0302	.0047	1.20
%RSD	3.779	5.424	4.652	5.233	6.144	5.112	5.030
#1	.4874	24.94	2.637	1.984	.5126	.0956	24.71
#2	.4835	24.59	2.595	1.953	.5048	.0946	24.40
#3	.4545	22.53	2.414	Q1.797	.4568	Q.0870	Q22.49
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.27	.4841	-.0050	.9983	.9973	.9677	.0032
SDev	.97	.0181	.0329	.0381	.0437	.0534	.0042
%RSD	4.017	3.746	663.9	3.811	4.386	5.518	132.2
#1	24.92	.4974	-.0289	1.022	1.029	1.004	.0003
#2	24.74	.4915	-.0186	1.018	1.015	.9928	.0013
#3	23.15	.4634	.0326	.9544	.9474	.9064	.0081
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	19.79	26.70	.0096	1.884	25.81	.4956
SDev	.0012	.96	1.13	.0066	.138	1.23	.0232
%RSD	41.35	4.837	4.228	68.92	7.305	4.776	4.675
#1	.0020	20.43	Q27.52	.0055	1.984	26.65	.5113
#2	.0023	20.24	27.17	.0061	1.941	26.38	.5064
#3	.0042	18.69	25.41	.0172	Q1.727	24.40	.4690
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.001	25.25	.0335	1.030	.0675	2.565	.0346
SDev	.042	1.83	.0236	.044	.0073	.074	.0755
%RSD	4.243	7.230	70.39	4.283	10.75	2.872	217.9
#1	1.029	26.65	.0151	1.057	.0604	2.619	-.0262
#2	1.021	25.91	.0254	1.053	.0749	2.595	.0110
#3	.9517	23.18	.0601	.9786	.0672	2.481	.1191
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Mon 09-11-95 01:37:25 PM page 2

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0265	2.505	2.435	18.66	-.1188	.4961	.0098
SDev	.0328	.110	.118	.89	.0942	.0296	.0221
%RSD	123.9	4.389	4.844	4.749	79.26	5.962	226.6
#1	.0022	2.569	2.515	19.27	-.1805	.5169	-.0077
#2	.0135	2.568	2.490	19.06	-.1655	.5091	.0023
#3	.0638	2.378	2.299	Q17.64	-.0104	.4623	.0346
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0413	.9645	2.442	.4270	.9792	.0380	.0016
SDev	.0060	.0512	.101	.4235	.0455	.0101	.0018
%RSD	14.52	5.305	4.130	99.19	4.651	26.69	110.4
#1	.0471	.9994	2.497	.1215	1.010	.0269	.0003
#2	.0351	.9883	2.504	.2491	1.001	.0403	.0009
#3	.0418	.9057	2.326	.9105	.9269	.0467	.0037
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9881	1.979
SDev	.0414	.103
%RSD	4.188	5.214
#1	1.018	2.051
#2	1.005	2.025
#3	.9409	1.861
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report

Mon 09-11-95 01:41:08 PM page 1

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 13:39:48
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0113	98.43	.1187	-.0051	-.0001	.0007	.0431
SDev	.0009	.54	.0044	.0005	.0002	.0000	.0048
%RSD	8.065	.5459	3.669	10.05	345.7	1.683	11.07
#1	-.0121	99.05	.1141	-.0046	-.0003	.0007	.0479
#2	-.0115	98.16	.1192	-.0056	.0001	.0007	.0431
#3	-.0103	98.08	.1228	-.0052	.0001	.0007	.0384

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0634	.0088	-.1487	.0027	.0365	-.0052	-.0044
SDev	.0015	.0015	.0059	.0004	.0018	.0012	.0012
%RSD	2.326	16.53	3.936	16.48	4.825	22.52	27.74
#1	.0618	.0072	-.1552	.0022	.0372	-.0065	-.0057
#2	.0637	.0091	-.1470	.0027	.0378	-.0045	-.0039
#3	.0647	.0101	-.1439	.0031	.0345	-.0045	-.0035

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	20.03	.0110	.0004	.0021	.2590	.0008
SDev	.0002	.01	.0844	.0008	.0011	.0067	.0002
%RSD	92.92	.0648	769.9	226.1	51.27	2.585	24.36
#1	.0000	20.03	-.0603	-.0006	.0018	.2580	.0009
#2	.0002	20.05	.1042	.0008	.0032	.2529	.0006
#3	.0005	20.02	-.0110	.0009	.0011	.2661	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0065	.0067	-.0262	51.96	.0234	.1891	-.4481
SDev	.0009	.0112	.0043	.06	.0099	.0110	.0094
%RSD	14.52	165.5	16.52	.1089	42.32	5.828	2.100
#1	.0062	.0150	-.0311	51.91	.0225	.1764	-.4552
#2	.0075	-.0060	-.0231	52.02	.0140	.1944	-.4516
#3	.0057	.0112	-.0244	51.94	.0337	.1964	-.4374

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0458	-.0111	.0224	-.0092	-.2614	-.0004	-.0096
SDev	.0063	.0077	.0078	.0044	.0313	.0000	.0074
%RSD	13.83	69.08	34.81	47.52	11.96	2.777	76.95
#1	-.0520	-.0177	.0177	-.0142	-.2967	-.0004	-.0182
#2	-.0459	-.0128	.0181	-.0062	-.2505	-.0004	-.0058
#3	-.0394	-.0027	.0313	-.0072	-.2371	-.0004	-.0049

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6946	.0004	.2128	51.36	.0014	.0555	.0038
SDev	.0079	.0002	.0038	.14	.0005	.0035	.0002

%RSD	1.143	53.35	1.789	.2818	34.39	6.317	6.228
#1	.6882	.0001	.2172	51.50	.0009	.0514	.0035
#2	.7035	.0005	.2105	51.36	.0018	.0574	.0039
#3	.6922	.0005	.2108	51.21	.0016	.0575	.0040

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0307	10.06
SDev	.0020	.01
%RSD	6.654	.1196
#1	-.0299	10.06
#2	-.0330	10.06
#3	-.0292	10.04

Analysis Report Mon 09-11-95 01:45:57 PM page :

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 13:44:38
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0037	.0015	-.0043	.0001	-.0000	-.0077
SDev	.0001	.0028	.0067	.0013	.0001	.0000	.0022
%RSD	31.60	77.76	447.0	30.12	85.35	188.0	28.24
#1	.0002	-.0044	-.0054	-.0040	.0001	-.0000	-.0053
#2	.0003	-.0061	.0017	-.0058	.0000	-.0000	-.0084
#3	.0004	-.0005	.0081	-.0032	.0001	.0000	-.0095

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0052	.0007	-.0046	.0002	.0020	-.0025	.0000
SDev	.0006	.0012	.0048	.0005	.0010	.0006	.0003
%RSD	10.79	184.3	103.5	246.9	48.22	23.48	1278.
#1	-.0048	.0014	-.0076	.0007	.0017	-.0028	.0000
#2	-.0058	.0014	-.0071	-.0004	.0012	-.0018	-.0003
#3	-.0049	-.0008	.0009	.0003	.0031	-.0027	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0007	-.0055	-.0002	-.0007	-.0026	-.0005
SDev	.0001	.0004	.0685	.0006	.0004	.0068	.0002
%RSD	27200.	56.72	1248.	332.0	57.87	260.5	36.90
#1	.0000	-.0007	-.0274	-.0001	-.0002	.0016	-.0004
#2	-.0001	-.0011	-.0603	-.0009	-.0009	.0011	-.0008
#3	.0001	-.0003	.0713	.0004	-.0009	-.0105	-.0005

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0014	.0006	.0049	.0111	-.0057	-.0050
SDev	.0004	.0152	.0015	.0005	.0148	.0027	.0061
%RSD	37.67	1106.	233.8	9.607	132.8	47.22	122.6
#1	-.0005	-.0140	.0019	.0054	.0249	-.0027	.0003
#2	-.0012	-.0055	-.0010	.0048	.0129	-.0066	-.0116
#3	-.0012	.0155	.0010	.0045	-.0045	-.0079	-.0036

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.0085	.0009	-.0453	.0138	-.0001	.0007
SDev	.0054	.0052	.0056	.0058	.0060	.0001	.0070
%RSD	469.6	61.74	630.6	12.83	43.47	56.48	1065.
#1	.0011	-.0051	.0018	-.0515	.0198	-.0001	.0050
#2	-.0042	-.0145	.0060	-.0445	.0078	-.0002	-.0075
#3	.0066	-.0058	-.0052	-.0400	.0139	-.0001	.0045

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0015	.0000	-.0071	-.0064	-.0000	-.0000	.0003
SDev	.0062	.0002	.0032	.0371	.0004	.0053	.0002

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%RSD	401.4	4390.	45.15	582.0	981.8	29770.	51.01
#1	-.0057	.0000	-.0104	.0364	.0001	-.0006	.0005
#2	-.0045	-.0002	-.0040	-.0296	-.0005	.0056	.0002
#3	.0056	.0002	-.0068	-.0258	.0003	-.0051	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	.0004
SDev	.0004	.0006
%RSD	107.0	135.1
#1	.0006	.0009
#2	-.0001	.0005
#3	.0006	-.0002

Analysis Report Mon 09-11-95 01:50:30 PM page 1

Method: ICP1 Sample Name: 95-007941-C3 Operator: DRS
Run Time: 09/11/95 13:49:10
Comment: METHOD BLANK (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	.0324	.0120	.0089	.0024	.0002	.0191
SDev	.0004	.0054	.0070	.0008	.0003	.0000	.0093
%RSD	5.752	16.55	57.79	9.497	10.12	4.509	48.58
#1	.0065	.0264	.0192	.0094	.0022	.0002	.0238
#2	.0068	.0341	.0116	.0093	.0024	.0002	.0084
#3	.0073	.0367	.0053	.0079	.0027	.0002	.0251

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7969	.0023	.0611	.0048	.0012	.0057	.0074
SDev	.0084	.0016	.0027	.0006	.0023	.0014	.0003
%RSD	1.049	71.45	4.449	12.23	182.9	23.79	3.745
#1	.8061	.0034	.0587	.0042	.0023	.0073	.0073
#2	.7947	.0030	.0606	.0049	-.0014	.0046	.0073
#3	.7898	.0004	.0641	.0054	.0028	.0053	.0078

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	.0102	1.799	.0134	.0067	.2515	.0008
SDev	.0002	.0006	.076	.0003	.0012	.0021	.0000
%RSD	6.962	5.701	4.225	2.047	17.96	.8135	1.914
#1	.0023	.0095	1.711	.0136	.0053	.2527	.0009
#2	.0023	.0106	1.843	.0136	.0074	.2491	.0009
#3	.0026	.0104	1.843	.0131	.0074	.2527	.0008

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.3893	.0515	.0027	.2544	.0296	.1405
SDev	.0006	.0160	.0059	.0003	.0082	.0029	.0064
%RSD	39.45	4.101	11.48	11.12	3.235	9.909	4.534
#1	.0013	.4076	.0458	.0027	.2477	.0312	.1353
#2	.0009	.3824	.0510	.0024	.2519	.0262	.1385
#3	.0020	.3780	.0576	.0030	.2636	.0315	.1476

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0610	.0134	.0232	.1000	.1361	.0040	.0207
SDev	.0018	.0040	.0114	.0054	.0238	.0001	.0017
%RSD	3.021	29.53	49.24	5.413	17.49	1.575	8.112
#1	.0625	.0171	.0342	.1061	.1293	.0041	.0222
#2	.0589	.0139	.0240	.0959	.1165	.0040	.0211
#3	.0615	.0092	.0114	.0980	.1626	.0041	.0189

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0054	.0034	.0126	.7738	.0055	.0089	.0027
SDev	.0100	.0001	.0078	.0493	.0007	.0034	.0003

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%RSD	186.4	4.139	61.40	6.365	13.39	38.31	12.83
#1	-.0089	.0032	.0144	.7597	.0050	.0069	.0029
#2	.0059	.0035	.0193	.7331	.0052	.0070	.0023
#3	-.0131	.0033	.0041	.8286	.0064	.0129	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0023	.0055
SDev	.0000	.0010
%RSD	1.777	17.55
#1	.0023	.0052
#2	.0023	.0047
#3	.0022	.0065

Analysis Report Mon 09-11-95 01:54:55 PM page 1

Method: ICP1 Sample Name: 95-007941-C1 @5 Operator: DRS
Run Time: 09/11/95 13:53:36
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	5.637	.0202	.0156	.0003	.0000	-.0072
SDev	.0004	.029	.0038	.0010	.0001	.0000	.0044
%RSD	170.7	.5120	18.91	6.753	24.44	9.849	60.94
#1	.0003	5.627	.0237	.0162	.0002	.0000	-.0044
#2	-.0002	5.669	.0161	.0163	.0002	.0000	-.0122
#3	.0005	5.614	.0209	.0144	.0004	.0000	-.0049

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0537	.0015	.0032	.0023	.0944	.0042	-.0002
SDev	.0010	.0010	.0034	.0009	.0019	.0006	.0003
%RSD	1.877	69.67	104.4	37.91	2.031	15.20	175.3
#1	.0532	.0005	.0071	.0033	.0932	.0049	.0002
#2	.0549	.0026	.0018	.0023	.0966	.0037	-.0005
#3	.0531	.0013	.0008	.0015	.0933	.0039	-.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0742	.8830	.0007	.0557	.0307	.0012
SDev	.0000	.0003	.0475	.0007	.0016	.0057	.0002
%RSD	24.02	.4151	5.379	101.6	2.811	18.67	18.09
#1	-.0001	.0739	.9378	.0002	.0572	.0357	.0014
#2	-.0001	.0745	.8556	.0003	.0558	.0318	.0013
#3	-.0001	.0743	.8556	.0014	.0541	.0245	.0010

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	186.2	.0045	.1029	42.81	.0001	.0049
SDev	.0016	2.6	.0026	.0029	.15	.0030	.0041
%RSD	52.33	1.414	57.87	2.791	.3502	2993.	83.70
#1	.0043	187.9	.0074	.1031	42.69	.0027	.0062
#2	.0013	187.6	.0032	.0999	42.98	.0008	.0003
#3	.0037	183.2	.0027	.1056	42.76	-.0032	.0081

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0018	.0051	.5340	-.0048	.0013	.0036
SDev	.0038	.0044	.0041	.0320	.0232	.0001	.0053
%RSD	1810.	243.9	79.75	5.988	481.2	5.094	145.8
#1	-.0030	.0030	.0057	.5007	.0161	.0014	.0086
#2	.0041	-.0057	.0008	.5368	-.0298	.0013	.0042
#3	-.0018	-.0027	.0088	.5645	-.0008	.0013	-.0019

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0029	.0011	.0131	.0136	.0705	.0202	-.0002
SDev	.0010	.0003	.0059	.0486	.0006	.0078	.0002

%RSD	33.57	25.97	45.38	357.5	.7911	38.63	79.47
#1	-.0023	.0015	.0131	.0105	.0699	.0288	-.0000
#2	-.0023	.0010	.0189	-.0334	.0709	.0137	-.0003
#3	-.0040	.0009	.0071	.0637	.0708	.0181	-.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	.0007
SDev	.0003	.0001
%RSD	20.31	19.51
#1	.0013	.0009
#2	.0016	.0007
#3	.0019	.0006

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Method: ICP1 Sample Name: 95-007941-C1 Operator: DRS
Run Time: 09/11/95 13:57:18
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	29.04	.1301	.0901	.0014	.0004	.0129
SDev	.0006	.03	.0022	.0021	.0001	.0000	.0050
%RSD	30.49	.1046	1.717	2.299	4.938	6.948	38.21
#1	.0022	29.01	.1321	.0885	.0014	.0004	.0108
#2	.0027	29.05	.1306	.0924	.0014	.0004	.0186
#3	.0014	29.07	.1277	.0894	.0013	.0003	.0094

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2146	.0012	.0120	.0158	.4862	.0342	.0012
SDev	.0013	.0005	.0015	.0004	.0057	.0008	.0002
%RSD	.5858	45.86	12.35	2.404	1.163	2.360	19.50
#1	.2146	.0008	.0136	.0161	.4848	.0333	.0013
#2	.2159	.0009	.0117	.0154	.4814	.0349	.0014
#3	.2134	.0018	.0107	.0160	.4925	.0342	.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.3076	4.782	.0030	.2839	.0902	.0040
SDev	.0001	.0014	.140	.0010	.0054	.0023	.0001
%RSD	13.99	.4514	2.926	33.52	1.920	2.578	3.010
#1	.0007	.3063	4.837	.0038	.2857	.0898	.0039
#2	.0007	.3091	4.887	.0034	.2882	.0927	.0041
#3	.0005	.3074	4.623	.0019	.2777	.0881	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0239	933.3	.0122	.5294	227.2	.0282	.0303
SDev	.0003	6.7	.0027	.0027	.9	.0056	.0095
%RSD	1.366	.7190	21.88	.5177	.3758	19.74	31.59
#1	.0239	935.3	.0120	.5305	226.5	.0324	.0290
#2	.0237	938.8	.0150	.5263	227.0	.0304	.0404
#3	.0243	925.8	.0097	.5315	228.1	.0219	.0214

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0172	.0083	.0221	1.809	.0660	.0044	.0500
SDev	.0048	.0102	.0038	.015	.0146	.0001	.0039
%RSD	27.76	123.9	17.14	.8431	22.04	1.443	7.725
#1	.0126	.0006	.0252	1.795	.0540	.0044	.0545
#2	.0221	.0199	.0232	1.807	.0822	.0045	.0480
#3	.0169	.0043	.0179	1.826	.0619	.0044	.0476

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	.0045	.0856	.2242	.3671	.1557	.0004
SDev	.0018	.0002	.0032	.0318	.0027	.0119	.0002

%RSD	94.59	4.395	3.677	14.19	.7299	7.665	45.77
#1	.0009	.0044	.0883	.2067	.3640	.1466	.0005
#2	.0009	.0047	.0821	.2609	.3682	.1692	.0005
#3	.0041	.0044	.0864	.2049	.3690	.1512	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0044	.0009
SDev	.0007	.0005
%RSD	16.56	54.82
#1	.0042	.0011
#2	.0037	.0013
#3	.0051	.0003

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Method: ICP1 Sample Name: 95-007941-C2 @5 Operator: DRS
Run Time: 09/11/95 14:02:36
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	5.558	.0180	.0091	-.0001	.0000	.0005
SDev	.0007	.021	.0055	.0014	.0001	.0000	.0083
%RSD	65.74	.3822	30.63	15.88	99.89	104.3	1581.
#1	-.0013	5.553	.0233	.0083	-.0001	.0000	.0101
#2	-.0003	5.540	.0185	.0108	.0000	.0000	-.0044
#3	-.0017	5.582	.0123	.0082	-.0002	.0000	-.0041

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0477	.0001	-.0020	.0014	.0900	.0068	-.0013
SDev	.0009	.0016	.0059	.0012	.0012	.0005	.0009
%RSD	1.969	1245.	288.1	82.80	1.357	6.810	74.20
#1	.0471	.0016	.0030	.0010	.0912	.0069	-.0008
#2	.0487	.0004	-.0007	.0027	.0901	.0072	-.0007
#3	.0471	-.0016	-.0085	.0005	.0888	.0063	-.0024

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0648	.6910	-.0013	.0597	.0198	.0008
SDev	.0001	.0001	.0855	.0005	.0011	.0018	.0002
%RSD	56.63	.1198	12.37	40.67	1.868	9.111	28.05
#1	-.0002	.0647	.7404	-.0015	.0610	.0197	.0010
#2	-.0000	.0649	.7404	-.0007	.0589	.0217	.0006
#3	-.0002	.0648	.5923	-.0017	.0593	.0181	.0008

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	170.6	-.0039	.0965	32.85	-.0061	-.0139
SDev	.0007	2.1	.0016	.0015	.01	.0013	.0120
%RSD	27.21	1.251	39.97	1.560	.0369	20.97	86.88
#1	.0026	172.0	-.0028	.0948	32.86	-.0069	-.0130
#2	.0029	168.2	-.0032	.0976	32.84	-.0046	-.0022
#3	.0017	171.7	-.0057	.0971	32.85	-.0068	-.0263

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0092	-.0097	-.0022	.5031	-.0344	.0011	-.0039
SDev	.0036	.0045	.0064	.0197	.0181	.0001	.0033
%RSD	38.72	46.22	290.0	3.910	52.69	5.468	84.08
#1	-.0071	-.0056	-.0094	.4843	-.0461	.0012	-.0072
#2	-.0072	-.0090	.0005	.5014	-.0135	.0012	-.0038
#3	-.0133	-.0145	.0023	.5235	-.0436	.0011	-.0006

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0006	.0111	-.0703	.0556	.0190	-.0005
SDev	.0064	.0003	.0036	.0738	.0007	.0044	.0003

%RSD	6996.	52.23	31.86	105.0	1.306	23.18	66.65
#1	.0073	.0004	.0092	-.0713	.0563	.0139	-.0003
#2	-.0022	.0010	.0152	.0040	.0556	.0213	-.0003
#3	-.0049	.0005	.0090	-.1437	.0549	.0217	-.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0009	-.0013
SDev	.0003	.0006
%RSD	29.40	47.13
#1	.0007	-.0014
#2	.0012	-.0006
#3	.0007	-.0018

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Method: ICP1 Sample Name: 95-007941-C2 Operator: DRS
Run Time: 09/11/95 14:06:16
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	28.04	.1205	.0633	.0014	.0003	.0080
SDev	.0006	.16	.0061	.0016	.0001	.0001	.0037
%RSD	20.22	.5552	5.033	2.612	8.170	17.81	46.83
#1	.0035	27.87	.1142	.0637	.0015	.0003	.0088
#2	.0027	28.08	.1211	.0615	.0014	.0003	.0112
#3	.0024	28.18	.1263	.0647	.0013	.0002	.0039

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2469	.0011	.0193	.0162	.4757	.0471	.0025
SDev	.0078	.0008	.0066	.0005	.0040	.0012	.0009
%RSD	3.168	69.61	34.40	2.825	.8452	2.521	36.93
#1	.2455	.0016	.0223	.0167	.4793	.0460	.0033
#2	.2399	.0015	.0240	.0159	.4713	.0471	.0027
#3	.2553	.0002	.0117	.0159	.4764	.0483	.0015

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.2883	4.563	.0047	.2924	.0967	.0039
SDev	.0001	.0025	.196	.0015	.0019	.0048	.0001
%RSD	6.551	.8748	4.302	33.17	.6543	4.999	3.199
#1	.0009	.2875	4.722	.0063	.2934	.0978	.0038
#2	.0010	.2864	4.623	.0046	.2937	.0914	.0040
#3	.0009	.2912	4.344	.0032	.2902	.1009	.0038

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0227	810.0	.0220	.4833	172.1	.0355	.0461
SDev	.0004	3.6	.0038	.0019	.6	.0050	.0196
%RSD	1.652	.4393	17.34	.4038	.3541	14.22	42.60
#1	.0223	806.1	.0257	.4842	171.5	.0413	.0686
#2	.0230	813.0	.0222	.4811	172.2	.0330	.0328
#3	.0227	810.8	.0181	.4847	172.7	.0322	.0368

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0205	-.0010	.0225	1.511	.0695	.0046	.0438
SDev	.0095	.0043	.0059	.009	.0050	.0001	.0026
%RSD	46.30	443.7	26.13	.5640	7.249	1.633	5.845
#1	.0308	-.0017	.0241	1.505	.0691	.0046	.0411
#2	.0183	.0036	.0274	1.507	.0747	.0046	.0462
#3	.0122	-.0048	.0160	1.521	.0646	.0047	.0440

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	.0047	.0776	.2980	.2912	.1489	.0008
SDev	.0063	.0001	.0082	.1206	.0006	.0060	.0001

%RSD	337.6	3.124	10.52	40.46	.1990	4.044	14.95
#1	-.0090	.0049	.0831	.4223	.2914	.1445	.0010
#2	.0027	.0046	.0816	.2903	.2906	.1464	.0007
#3	.0007	.0047	.0682	.1815	.2917	.1557	.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0047	.0019
SDev	.0009	.0010
%RSD	19.36	51.61
#1	.0036	.0030
#2	.0053	.0015
#3	.0051	.0012

Analysis Report Mon 09-11-95 02:11:07 PM page

Method: ICP1 Sample Name: 95-007942-C1 @5 Operator: DRS
Run Time: 09/11/95 14:09:48
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	14.16	.0242	.0077	.0003	.0001	-.0011
SDev	.0005	.07	.0013	.0007	.0002	.0000	.0118
%RSD	45.51	.5021	5.366	8.610	56.25	36.72	1113.
#1	-.0006	14.10	.0235	.0071	.0004	.0001	.0102
#2	-.0015	14.24	.0233	.0084	.0001	.0000	-.0134
#3	-.0011	14.13	.0256	.0077	.0005	.0001	.0000

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.125	-.0002	-.0041	.0030	.1341	-.0017	-.0007
SDev	.001	.0014	.0008	.0001	.0040	.0003	.0011
%RSD	.1190	927.6	19.07	4.951	2.957	18.15	146.9
#1	1.125	.0014	-.0037	.0030	.1348	-.0015	.0001
#2	1.124	-.0014	-.0035	.0031	.1376	-.0021	-.0019
#3	1.126	-.0005	-.0050	.0028	.1298	-.0016	-.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0598	1.168	-.0016	.0009	.0108	.0000
SDev	.0002	.0005	.082	.0007	.0002	.0025	.0001
%RSD	74.41	.8965	7.042	44.16	21.81	23.50	340.1
#1	-.0000	.0598	1.250	-.0008	.0008	.0133	.0001
#2	-.0003	.0592	1.086	-.0019	.0012	.0108	.0000
#3	-.0002	.0603	1.168	-.0022	.0008	.0083	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0050	461.3	.0001	.1414	1.417	.0033	-.0113
SDev	.0007	5.4	.0015	.0021	.023	.0052	.0119
%RSD	13.39	1.166	1762.	1.493	1.600	156.7	105.9
#1	.0056	457.0	.0019	.1400	1.440	.0004	-.0001
#2	.0043	467.3	-.0009	.1403	1.395	.0002	-.0238
#3	.0051	459.4	-.0007	.1438	1.416	.0094	-.0098

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0052	-.0018	-.0054	.3138	-.0206	.0019	-.0084
SDev	.0058	.0066	.0085	.0019	.0147	.0001	.0043
%RSD	112.5	374.4	158.5	.6137	71.44	3.161	50.91
#1	.0006	.0013	.0017	.3160	-.0068	.0020	-.0038
#2	-.0110	-.0093	-.0148	.3129	-.0361	.0019	-.0122
#3	-.0052	.0027	-.0029	.3125	-.0190	.0020	-.0091

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0046	-.0002	.0316	-.0726	.0002	.0220	-.0006
SDev	.0037	.0002	.0095	.0720	.0006	.0084	.0003

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%RSD	80.98	92.63	29.89	99.18	312.0	38.30	44.07
#1	-.0035	-.0000	.0232	-.0549	.0007	.0274	-.0003
#2	-.0088	-.0003	.0299	-.1519	-.0004	.0262	-.0009
#3	-.0016	-.0002	.0418	-.0111	.0003	.0123	-.0007

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0167	-.0011
SDev	.0010	.0001
%RSD	6.122	7.168
#1	.0165	-.0011
#2	.0158	-.0011
#3	.0178	-.0012

Analysis Report Mon 09-11-95 02:15:21 PM page 1

Method: ICP1 Sample Name: 95-007942-C1 Operator: DRS
Run Time: 09/11/95 14:14:02
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	69.40	.1299	.0621	.0023	.0005	.0243
SDev	.0018	1.29	.0033	.0013	.0004	.0000	.0027
%RSD	28.87	1.858	2.575	2.016	19.21	7.888	11.04
#1	.0051	70.32	.1263	.0617	.0020	.0005	.0215
#2	.0052	69.95	.1330	.0635	.0021	.0005	.0268
#3	.0082	67.92	.1303	.0610	.0028	.0005	.0247

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.499	.0009	.0438	.0246	.6551	.0105	.0062
SDev	.008	.0002	.0135	.0015	.0095	.0019	.0018
%RSD	.5461	20.54	30.91	5.937	1.445	17.96	29.10
#1	1.489	.0008	.0334	.0235	.6585	.0100	.0051
#2	1.504	.0011	.0389	.0240	.6624	.0089	.0051
#3	1.503	.0008	.0591	.0262	.6444	.0126	.0082

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.2698	7.393	.0113	.0137	.0459	.0013
SDev	.0006	.0031	.243	.0020	.0012	.0092	.0003
%RSD	30.03	1.146	3.281	17.76	8.867	20.06	19.13
#1	.0017	.2722	7.206	.0097	.0126	.0476	.0013
#2	.0017	.2708	7.305	.0106	.0136	.0360	.0011
#3	.0028	.2663	7.667	.0135	.0150	.0542	.0016

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0363	2024.	.0443	.6922	7.040	.0883	.1101
SDev	.0023	39.	.0093	.0043	.074	.0113	.0344
%RSD	6.213	1.908	21.02	.6134	1.055	12.83	31.27
#1	.0340	2051.	.0369	.6963	7.095	.0843	.0880
#2	.0365	2042.	.0413	.6925	7.069	.0795	.0925
#3	.0385	1980.	.0548	.6878	6.955	.1010	.1497

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0486	.0178	.0229	1.078	.1882	.0083	.0121
SDev	.0154	.0089	.0158	.011	.0383	.0002	.0126
%RSD	31.60	50.08	69.06	1.038	20.34	1.951	103.9
#1	.0371	.0159	.0315	1.087	.1630	.0081	.0097
#2	.0427	.0100	.0046	1.082	.1695	.0082	.0009
#3	.0661	.0275	.0325	1.066	.2323	.0085	.0258

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	.0027	.1727	.6735	.0070	.1681	.0020
SDev	.0046	.0009	.0036	.1656	.0013	.0139	.0007

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%RSD	76.36	33.33	2.057	24.59	18.74	8.278	36.26
#1	-.0039	.0020	.1740	.5479	.0063	.1806	.0014
#2	-.0112	.0023	.1687	.6115	.0062	.1531	.0017
#3	-.0028	.0037	.1754	.8613	.0085	.1705	.0028

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0017	.0048
SDev	.0009	.0017
%RSD	49.58	35.84
#1	.0027	.0034
#2	.0010	.0044
#3	.0016	.0067

Analysis Report

Mon 09-11-95 02:19:00 PM page

Method: ICP1 Sample Name: 95-007942-C1 @5 Operator: DRS
Run Time: 09/11/95 14:17:41
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	13.51	.0170	.0136	.0004	.0000	-.0002
SDev	.0007	.05	.0033	.0018	.0000	.0000	.0031
%RSD	84.81	.3851	19.53	13.51	.4318	41.46	1595.
#1	-.0017	13.55	.0196	.0119	.0004	.0000	-.0035
#2	-.0004	13.53	.0133	.0155	.0004	.0000	.0001
#3	-.0004	13.45	.0182	.0135	.0004	.0000	.0028

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.359	-.0011	-.0017	.0027	.1293	-.0012	-.0004
SDev	.003	.0012	.0047	.0005	.0028	.0012	.0008
%RSD	.2397	103.3	269.6	17.03	2.133	96.35	187.4
#1	1.358	.0002	-.0052	.0024	.1290	-.0014	-.0013
#2	1.363	-.0015	-.0036	.0033	.1267	-.0023	-.0002
#3	1.357	-.0021	.0036	.0026	.1322	.0000	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0630	1.212	-.0002	.0010	.0112	.0001
SDev	.0003	.0005	.062	.0005	.0007	.0036	.0001
%RSD	526.9	.7711	5.139	311.9	71.49	31.90	198.5
#1	-.0002	.0632	1.185	-.0007	.0004	.0078	-.0000
#2	-.0002	.0624	1.168	-.0001	.0008	.0109	-.0000
#3	.0003	.0633	1.283	.0003	.0018	.0149	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	449.9	.0018	.1333	1.468	.0088	-.0123
SDev	.0000	4.1	.0019	.0020	.026	.0029	.0113
%RSD	.1152	.9205	101.2	1.489	1.748	33.38	91.90
#1	.0043	453.0	.0008	.1355	1.467	.0082	-.0250
#2	.0043	451.5	.0040	.1329	1.494	.0061	-.0088
#3	.0043	445.2	.0007	.1316	1.442	.0119	-.0032

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0043	-.0089	-.0046	.2555	-.0129	.0020	-.0102
SDev	.0059	.0109	.0102	.0028	.0137	.0001	.0043
%RSD	136.8	123.5	222.1	1.101	106.2	3.508	42.34
#1	-.0110	-.0208	.0016	.2558	-.0234	.0021	-.0150
#2	-.0017	.0008	.0010	.2581	.0026	.0020	-.0091
#3	-.0001	-.0066	-.0163	.2525	-.0179	.0020	-.0066

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0034	.0000	.0279	-.0290	.0005	.0199	-.0004
SDev	.0033	.0000	.0024	.0676	.0002	.0002	.0000

%RSD	96.50	169.5	8.630	233.3	38.14	.9491	10.58
#1	-.0018	.0000	.0252	-.0758	.0004	.0201	-.0003
#2	-.0012	-.0000	.0284	-.0596	.0004	.0199	-.0004
#3	-.0071	.0000	.0299	.0485	.0007	.0197	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0200	-.0006
SDev	.0005	.0006
%RSD	2.697	99.74
#1	.0199	-.0011
#2	.0195	-.0008
#3	.0206	.0001

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Method: ICP1 Sample Name: 95-007942-C2 Operator: DRS
Run Time: 09/11/95 14:21:13
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	67.58	.1266	.0931	.0022	.0005	.0144
SDev	.0006	.26	.0038	.0011	.0001	.0000	.0040
%RSD	10.53	.3904	3.010	1.206	3.111	4.842	28.08
#1	.0063	67.42	.1243	.0938	.0022	.0005	.0187
#2	.0053	67.43	.1310	.0918	.0021	.0005	.0136
#3	.0053	67.88	.1245	.0937	.0023	.0005	.0108

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.406	.0003	.0429	.0242	.6377	.0108	.0053
SDev	.021	.0010	.0042	.0004	.0029	.0006	.0009
%RSD	1.527	345.5	9.796	1.495	.4491	5.370	16.99
#1	1.384	.0002	.0477	.0238	.6345	.0114	.0062
#2	1.406	.0014	.0401	.0246	.6400	.0104	.0052
#3	1.427	-.0007	.0408	.0243	.6385	.0105	.0045

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.2628	7.245	.0105	.0137	.0714	.0012
SDev	.0002	.0004	.112	.0007	.0009	.0046	.0001
%RSD	8.441	.1634	1.546	6.417	6.361	6.470	9.974
#1	.0022	.2633	7.371	.0112	.0136	.0760	.0013
#2	.0019	.2626	7.206	.0104	.0129	.0713	.0011
#3	.0019	.2625	7.157	.0099	.0147	.0668	.0012

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0337	2019.	.0415	.6768	7.350	.0852	.1007
SDev	.0014	11.	.0041	.0042	.036	.0090	.0090
%RSD	4.284	.5480	9.825	.6272	.4935	10.58	8.940
#1	.0348	2011.	.0456	.6783	7.334	.0938	.1060
#2	.0321	2014.	.0416	.6720	7.325	.0858	.1059
#3	.0343	2032.	.0374	.6800	7.392	.0758	.0903

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0495	.0141	.0221	1.072	.1523	.0078	.0187
SDev	.0013	.0009	.0126	.005	.0069	.0002	.0042
%RSD	2.590	6.540	56.93	.5127	4.559	2.329	22.31
#1	.0510	.0140	.0103	1.069	.1601	.0077	.0232
#2	.0485	.0132	.0207	1.069	.1498	.0078	.0177
#3	.0492	.0151	.0354	1.079	.1469	.0080	.0150

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	.0025	.1649	.5620	.0072	.1647	.0020
SDev	.0027	.0000	.0065	.0697	.0004	.0069	.0003

%RSD	142.3	1.746	3.951	12.40	5.312	4.178	14.06
#1	.0010	.0024	.1644	.6355	.0075	.1727	.0023
#2	-.0023	.0025	.1717	.5538	.0074	.1607	.0017
#3	-.0044	.0024	.1587	.4968	.0068	.1608	.0021

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0023	.0038
SDev	.0012	.0003
%RSD	52.49	8.321
#1	.0023	.0041
#2	.0035	.0034
#3	.0011	.0038

Analysis Report QC Standard Mon 09-11-95 02:27:48 PM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 14:26:29
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DLY 9/11

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4824	24.47	2.622	1.959	.5049	.0949	24.39
SDev	.0041	.28	.029	.026	.0067	.0011	.23
%RSD	.8506	1.147	1.115	1.332	1.321	1.128	.9416
#1	.4863	24.73	2.650	1.983	.5108	.0959	24.60
#2	.4828	24.51	2.625	1.962	.5062	.0951	24.41
#3	.4781	24.17	2.592	1.931	.4976	.0938	24.14
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.82	.4913	-.0302	1.025	1.029	.9987	.0001
SDev	.21	.0084	.0077	.009	.017	.0110	.0011
%RSD	.8502	1.714	25.56	.8337	1.687	1.099	1264.
#1	25.02	.4972	-.0379	1.032	1.046	1.008	-.0008
#2	24.84	.4952	-.0301	1.028	1.029	1.001	-.0002
#3	24.60	.4817	-.0225	1.015	1.011	.9866	.0013
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	20.36	23.79	.0049	1.819	26.41	.5090
SDev	.0003	.21	.03	.0004	.022	.26	.0053
%RSD	16.55	1.034	.1440	8.721	1.226	1.003	1.048
#1	.0017	20.55	23.76	.0044	1.837	26.65	.5138
#2	.0018	20.39	23.82	.0051	1.825	26.46	.5099
#3	.0023	20.13	23.77	.0051	Q1.794	26.13	.5032
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	24.04	.0106	1.052	.0698	2.595	-.0222
SDev	.005	.32	.0051	.011	.0032	.007	.0131
%RSD	.4846	1.338	48.13	1.007	4.559	.2812	58.92
#1	1.030	24.26	.0051	1.063	.0732	2.603	-.0351
#2	1.025	24.20	.0116	1.051	.0691	2.594	-.0225
#3	1.020	23.67	.0151	1.042	.0670	2.589	-.0089
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0043	2.562	2.498	19.17	-.0804	.5096	-.0061
SDev	.0069	.022	.021	.17	.0154	.0066	.0045
%RSD	160.1	.8520	.8515	.8885	19.14	1.298	73.62
#1	-.0091	2.560	2.511	19.33	-.0973	.5158	-.0111
#2	-.0073	2.585	2.509	19.19	-.0769	.5103	-.0023
#3	.0036	2.541	2.473	18.99	-.0671	.5026	-.0050
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0425	.9938	2.499	.0954	1.004	.0205	-.0000
SDev	.0029	.0107	.025	.0893	.011	.0032	.0001
%RSD	6.772	1.074	.9972	93.61	1.099	15.59	287.5
#1	.0411	1.003	2.507	.0222	1.015	.0194	-.0001
#2	.0406	.9955	2.519	.0690	1.005	.0180	-.0001
#3	.0458	.9823	2.471	.1948	.9931	.0241	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.020	2.042
SDev	.010	.026
%RSD	.9912	1.275
#1	1.028	2.067
#2	1.023	2.044
#3	1.008	2.015
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Mon 09-11-95 02:31:06 PM page

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 14:29:46
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0106	95.28	.1560	-.0089	.0000	.0007	.0601
SDev	.0006	.16	.0133	.0010	.0001	.0000	.0020
%RSD	6.050	.1630	8.552	11.31	388.3	5.266	3.323
#1	-.0112	95.38	.1406	-.0081	.0001	.0007	.0622
#2	-.0106	95.37	.1638	-.0086	-.0000	.0007	.0600
#3	-.0099	95.11	.1636	-.0101	-.0000	.0007	.0582

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0695	.0089	-.1385	.0043	.0384	-.0103	-.0027
SDev	.0006	.0016	.0010	.0001	.0027	.0010	.0002
%RSD	.9024	17.80	.7470	1.538	7.128	9.454	6.068
#1	.0698	.0071	-.1381	.0043	.0363	-.0108	-.0026
#2	.0688	.0102	-.1378	.0042	.0373	-.0091	-.0029
#3	.0699	.0092	-.1397	.0043	.0414	-.0108	-.0025

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	19.73	.0823	.0042	.0038	.2853	.0014
SDev	.0000	.03	.0494	.0003	.0004	.0044	.0003
%RSD	4.876	.1439	60.00	7.041	10.56	1.537	17.70
#1	.0006	19.75	.0823	.0039	.0040	.2803	.0013
#2	.0006	19.74	.0329	.0045	.0033	.2880	.0012
#3	.0007	19.70	.1316	.0042	.0040	.2878	.0017

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0078	.0277	-.0170	51.46	.0599	.1991	-.4594
SDev	.0011	.0122	.0028	.10	.0093	.0025	.0079
%RSD	13.79	44.19	16.64	.2027	15.48	1.267	1.713
#1	.0085	.0136	-.0177	51.52	.0516	.2005	-.4657
#2	.0065	.0346	-.0194	51.52	.0582	.1962	-.4619
#3	.0083	.0349	-.0139	51.34	.0699	.2006	-.4506

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0413	.0039	.0214	.0704	.0497	-.0003	-.0034
SDev	.0005	.0140	.0094	.0040	.0162	.0000	.0046
%RSD	1.142	357.0	44.03	5.742	32.52	2.644	136.4
#1	-.0419	.0198	.0209	.0740	.0670	-.0003	.0020
#2	-.0411	-.0062	.0312	.0713	.0472	-.0003	-.0062
#3	-.0410	-.0019	.0123	.0660	.0349	-.0003	-.0060

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7298	.0012	.2149	49.79	.0030	.0468	.0038
SDev	.0043	.0002	.0085	.11	.0003	.0071	.0002

%RSD	.5876	15.97	3.962	.2189	11.13	15.18	6.245
#1	.7340	.0010	.2070	49.83	.0029	.0509	.0037
#2	.7255	.0012	.2239	49.87	.0028	.0386	.0037
#3	.7300	.0014	.2138	49.66	.0034	.0510	.0041

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0280	9.904
SDev	.0030	.018
%RSD	10.78	.1826
#1	-.0307	9.913
#2	-.0285	9.916
#3	-.0248	9.884

Analysis Report Mon 09-11-95 03:33:53 PM page 1

Method: ICP1 Sample Name: 95-007945-C2 @5 Operator: DRS
Run Time: 09/11/95 15:32:33
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	16.94	.0536	.0245	-.0006	-.0001	-.0085
SDev	.0007	.04	.0046	.0015	.0000	.0000	.0009
%RSD	18.66	.2528	8.613	6.183	.0530	2.432	10.12
#1	-.0036	16.91	.0589	.0262	-.0006	-.0001	-.0094
#2	-.0044	16.99	.0501	.0232	-.0006	-.0001	-.0077
#3	-.0031	16.93	.0520	.0241	-.0006	-.0001	-.0084

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1832	-.0006	-.0193	.0142	.1438	-.0072	-.0030
SDev	.0014	.0002	.0052	.0002	.0009	.0005	.0002
%RSD	.7352	37.25	26.73	1.679	.6315	7.353	7.896
#1	.1821	-.0007	-.0246	.0139	.1448	-.0069	-.0032
#2	.1829	-.0007	-.0190	.0143	.1431	-.0078	-.0030
#3	.1847	-.0003	-.0143	.0143	.1434	-.0069	-.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0009	.8141	1.596	-.0053	-.0022	-.0074	-.0002
SDev	.0001	.0024	.016	.0014	.0006	.0071	.0001
%RSD	11.42	.2923	1.031	26.29	27.16	95.55	80.23
#1	-.0010	.8114	1.596	-.0060	-.0015	.0005	-.0003
#2	-.0010	.8147	1.579	-.0063	-.0026	-.0132	-.0002
#3	-.0008	.8160	1.612	-.0037	-.0026	-.0094	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	411.2	-.0178	1.009	10.93	-.0230	-.0622
SDev	.0007	1.8	.0028	.004	.07	.0100	.0007
%RSD	9.537	.4384	15.65	.3813	.6841	43.62	1.123
#1	.0062	411.2	-.0153	1.009	10.90	-.0261	-.0616
#2	.0071	413.0	-.0173	1.013	10.88	-.0118	-.0630
#3	.0074	409.4	-.0208	1.005	11.01	-.0310	-.0620

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0245	-.0071	.0087	.1375	-.1176	.0022	-.0169
SDev	.0028	.0067	.0069	.0096	.0146	.0000	.0043
%RSD	11.48	94.97	79.48	7.003	12.38	.0540	25.51
#1	-.0244	-.0003	.0120	.1302	-.1043	.0022	-.0164
#2	-.0274	-.0072	.0007	.1338	-.1155	.0022	-.0215
#3	-.0218	-.0137	.0133	.1484	-.1332	.0022	-.0129

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0042	-.0012	.0425	-.1433	-.0002	.1130	-.0019
SDev	.0013	.0003	.0137	.0147	.0004	.0085	.0002

%RSD	121.2	70.17	6.894	30.23	3.238	.8790	379.8
#1	.0060	.0004	.1878	.3128	.0127	.5943	.0001
#2	.0023	.0001	.2146	.2013	.0119	.5840	-.0004
#3	-.0004	.0004	.1960	.3795	.0125	.5896	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0011	-.0002
SDev	.0013	.0006
%RSD	118.7	356.6
#1	-.0024	-.0002
#2	-.0009	-.0007
#3	.0001	.0004

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%RSD	31.93	23.07	32.14	10.29	198.2	7.491	9.020
#1	-.0050	-.0011	.0359	-.1600	-.0003	.1040	-.0021
#2	-.0049	-.0015	.0334	-.1323	.0003	.1207	-.0018
#3	-.0026	-.0010	.0582	-.1374	-.0006	.1145	-.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0019	-.0024
SDev	.0009	.0001
%RSD	45.19	4.805
#1	.0029	-.0025
#2	.0012	-.0025
#3	.0016	-.0023

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Method: ICP1 Sample Name: 95-007945-C2 Operator: DRS
Run Time: 09/11/95 15:36:18
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH) K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	81.26	.3015	.1555	.0003	.0000	.0209
SDev	.0008	.56	.0147	.0005	.0003	.0001	.0023
%RSD	111.8	.6832	4.885	.3258	94.55	752.2	11.19
#1	-.0009	81.66	.3178	.1549	.0005	-.0000	.0197
#2	-.0014	81.49	.2891	.1559	-.0000	-.0000	.0195
#3	.0002	80.62	.2976	.1556	.0003	.0001	.0236

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3748	-.0014	.0065	.0838	.7028	-.0027	.0000
SDev	.0134	.0007	.0041	.0009	.0031	.0013	.0005
%RSD	3.586	53.10	63.45	1.133	.4339	45.59	1571.
#1	.3888	-.0007	.0054	.0845	.7060	-.0025	.0001
#2	.3620	-.0013	.0031	.0827	.7025	-.0041	-.0005
#3	.3736	-.0022	.0111	.0841	.6999	-.0016	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	3.884	10.69	.0011	.0033	.0569	.0008
SDev	.0004	.024	.06	.0015	.0006	.0058	.0001
%RSD	77.60	.6068	.5329	145.7	18.16	10.17	17.71
#1	.0006	3.910	10.73	.0012	.0030	.0610	.0009
#2	.0001	3.879	10.63	-.0006	.0030	.0503	.0007
#3	.0009	3.864	10.73	.0025	.0040	.0593	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0520	1816.	.0024	4.856	55.55	.0110	-.0069
SDev	.0008	15.	.0057	.034	.54	.0066	.0164
%RSD	1.538	.8516	238.7	.7095	.9717	59.92	238.7
#1	.0515	1821.	.0026	4.891	56.11	.0084	-.0070
#2	.0529	1828.	-.0034	4.856	55.52	.0061	-.0231
#3	.0516	1798.	.0079	4.822	55.03	.0185	.0096

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0157	.0074	.0538	.3779	.0195	.0094	.0084
SDev	.0076	.0002	.0033	.0022	.0299	.0003	.0061
%RSD	48.32	2.244	6.076	.5830	153.3	3.660	73.11
#1	.0149	.0075	.0505	.3799	.0065	.0097	.0064
#2	.0085	.0073	.0570	.3755	-.0017	.0091	.0035
#3	.0236	.0076	.0538	.3782	.0536	.0094	.0152

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0052	.0002	.2455	.5859	.0106	.6381	-.0003
SDev	.0052	.0007	.0068	.0231	.0008	.0099	.0003

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%RSD	101.8	380.6	2.759	3.947	7.106	1.545	87.90
#1	.0102	.0005	.2532	.5967	.0106	.6472	-.0003
#2	-.0003	-.0006	.2428	.5594	.0098	.6276	-.0006
#3	.0056	.0006	.2405	.6017	.0113	.6394	-.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0006	-.0010
SDev	.0005	.0002
%RSD	91.65	17.29
#1	.0004	-.0012
#2	.0001	-.0011
#3	.0011	-.0008

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 14:33:20
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0063	.0009	-.0054	.0002	-.0000	.0021
SDev	.0004	.0033	.0019	.0011	.0001	.0000	.0086
%RSD	52.11	51.90	214.8	20.07	35.27	191.8	402.4
#1	.0011	.0100	.0001	-.0066	.0002	.0000	-.0067
#2	.0006	.0036	-.0005	-.0045	.0001	.0000	.0105
#3	.0004	.0054	.0031	-.0051	.0002	-.0001	.0026

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0001	.0065	.0011	.0015	-.0011	.0008
SDev	.0004	.0012	.0010	.0009	.0014	.0004	.0005
%RSD	14.34	1132.	15.74	87.16	91.88	42.31	53.89
#1	.0032	.0015	.0063	.0020	.0014	-.0015	.0014
#2	.0036	-.0007	.0057	.0002	.0029	-.0006	.0006
#3	.0027	-.0005	.0077	.0010	.0002	-.0010	.0006

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0027	.1316	.0017	.0013	-.0018	.0000
SDev	.0001	.0004	.0494	.0008	.0003	.0055	.0001
%RSD	39.27	16.42	37.50	50.84	27.25	312.0	5481.
#1	.0002	.0030	.1810	.0026	.0016	.0022	-.0000
#2	.0002	.0022	.0823	.0013	.0009	-.0081	-.0001
#3	.0004	.0030	.1316	.0010	.0013	.0006	.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0194	.0100	.0045	.0029	.0022	.0176
SDev	.0008	.0183	.0018	.0018	.0074	.0073	.0017
%RSD	113.0	94.40	18.13	40.21	251.7	340.0	9.532
#1	.0002	.0320	.0116	.0066	.0090	.0103	.0185
#2	-.0011	.0279	.0104	.0040	-.0053	-.0040	.0157
#3	-.0012	-.0016	.0080	.0030	.0052	.0002	.0186

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0075	-.0011	-.0028	.0161	.0161	.0000	.0060
SDev	.0021	.0095	.0078	.0031	.0027	.0001	.0034
%RSD	28.07	856.4	280.1	19.00	16.69	248.4	57.03
#1	.0062	-.0063	.0008	.0164	.0188	.0001	.0084
#2	.0063	-.0068	.0025	.0190	.0135	-.0000	.0074
#3	.0099	.0098	-.0118	.0129	.0161	-.0000	.0021

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	.0005	.0012	.1250	.0008	.0032	.0000
SDev	.0032	.0001	.0052	.0038	.0003	.0075	.0002

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%RSD	53.05	15.96	425.4	3.019	39.24	230.9	718.0
#1	-.0025	.0005	-.0041	.1219	.0009	.0118	.0002
#2	-.0086	.0004	.0015	.1292	.0005	-.0018	-.0001
#3	-.0070	.0004	.0063	.1238	.0011	-.0003	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0008	.0021
SDev	.0002	.0003
%RSD	27.60	16.54
#1	.0010	.0019
#2	.0008	.0018
#3	.0006	.0025

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Method: ICP1 Sample Name: Na @1000 PPM Operator: DRS
Run Time: 09/11/95 14:37:41
Comment: 950622I124 @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	.0068	.0089	-.0060	.0003	.0000	.0079
SDev	.0006	.0014	.0043	.0011	.0001	.0000	.0061
%RSD	34.07	20.11	48.46	17.57	22.11	8.828	77.43
#1	.0020	.0082	.0134	-.0066	.0004	.0000	.0012
#2	.0012	.0055	.0048	-.0066	.0004	.0000	.0092
#3	.0025	.0066	.0085	-.0048	.0002	.0000	.0132

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2904	.0014	.0173	.0027	.0013	-.0004	.0021
SDev	.0004	.0010	.0035	.0004	.0009	.0006	.0001
%RSD	.1332	75.21	20.08	15.96	70.33	163.1	5.846
#1	.2900	.0002	.0196	.0032	.0023	.0003	.0021
#2	.2904	.0021	.0133	.0023	.0006	-.0009	.0022
#3	.2908	.0017	.0189	.0027	.0009	-.0005	.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0067	.2303	.0030	.0033	.0106	.0004
SDev	.0001	.0007	.0435	.0010	.0017	.0029	.0001
%RSD	17.42	10.62	18.90	31.75	52.27	27.51	35.13
#1	.0005	.0061	.2632	.0030	.0051	.0079	.0005
#2	.0007	.0065	.2468	.0021	.0016	.0101	.0002
#3	.0007	.0075	.1810	.0040	.0033	.0137	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	974.4	.0145	.0006	.0247	.0082	.0315
SDev	.0011	1.2	.0007	.0029	.0069	.0051	.0011
%RSD	162.6	.1242	4.919	461.0	28.05	61.57	3.638
#1	-.0005	975.4	.0138	-.0012	.0312	.0133	.0326
#2	.0008	974.7	.0146	.0039	.0256	.0032	.0303
#3	.0016	973.0	.0152	-.0009	.0174	.0081	.0315

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0171	.0003	.0054	.0042	.0546	.0002	.0084
SDev	.0033	.0041	.0070	.0021	.0124	.0000	.0064
%RSD	19.12	1258.	129.7	49.42	22.68	1.019	75.64
#1	.0208	.0040	.0051	.0044	.0673	.0002	.0090
#2	.0145	.0011	-.0015	.0020	.0425	.0002	.0145
#3	.0162	-.0041	.0124	.0062	.0540	.0002	.0018

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0010	.0149	.2368	.0019	.0080	.0006
SDev	.0032	.0002	.0069	.0266	.0001	.0069	.0002

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%RSD	376.3	19.75	46.57	11.22	6.279	86.59	29.57
#1	.0000	.0009	.0137	.2675	.0020	.0084	.0007
#2	-.0044	.0008	.0086	.2208	.0018	.0146	.0005
#3	.0018	.0012	.0223	.2221	.0019	.0009	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0070	.0016
SDev	.0002	.0001
%RSD	2.639	8.729
#1	.0068	.0014
#2	.0071	.0016
#3	.0071	.0017

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Method: ICP1 Sample Name: 95-007943-C1 @5 Operator: DRS
Run Time: 09/11/95 14:41:32
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	19.75	.0315	.0194	.0002	-.0000	.0058
SDev	.0005	.07	.0022	.0005	.0003	.0000	.0061
%RSD	42.40	.3776	7.105	2.677	155.8	347.8	106.0
#1	.0014	19.75	.0338	.0200	.0004	.0000	.0108
#2	.0006	19.82	.0294	.0191	-.0001	-.0000	-.0010
#3	.0014	19.67	.0313	.0192	.0002	-.0000	.0076

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.497	-.0005	.0054	.0069	.2354	.0034	.0001
SDev	.002	.0004	.0046	.0005	.0045	.0012	.0008
%RSD	.1576	74.51	85.12	7.507	1.923	34.85	576.1
#1	1.497	-.0001	.0079	.0068	.2363	.0025	.0002
#2	1.499	-.0008	.0001	.0064	.2394	.0030	-.0007
#3	1.495	-.0007	.0083	.0074	.2305	.0047	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.1106	2.084	.0013	.0424	.0279	.0004
SDev	.0003	.0001	.110	.0011	.0016	.0012	.0002
%RSD	217.3	.1400	5.257	90.71	3.749	4.402	44.79
#1	.0002	.1104	2.139	.0013	.0428	.0267	.0006
#2	-.0002	.1107	1.958	.0001	.0407	.0279	.0002
#3	.0004	.1105	2.155	.0024	.0438	.0291	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0088	316.4	.0035	.2412	9.505	.0136	.0049
SDev	.0009	1.3	.0031	.0019	.078	.0033	.0112
%RSD	9.893	.4101	86.73	.8097	.8217	24.34	228.5
#1	.0078	316.6	.0066	.2428	9.425	.0122	.0087
#2	.0094	317.6	.0005	.2390	9.581	.0113	-.0077
#3	.0092	315.0	.0035	.2418	9.509	.0175	.0137

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0045	-.0024	-.0024	.3046	.0110	.0018	-.0032
SDev	.0047	.0058	.0050	.0121	.0316	.0001	.0041
%RSD	105.2	238.3	206.5	3.982	286.4	3.209	130.8
#1	.0043	-.0085	-.0063	.2918	.0241	.0018	-.0001
#2	-.0001	-.0019	-.0043	.3062	-.0250	.0017	-.0079
#3	.0093	.0031	.0033	.3160	.0340	.0018	-.0015

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0058	.0001	.0424	.0406	.0093	.0626	-.0002
SDev	.0079	.0003	.0126	.1017	.0005	.0070	.0003

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%RSD	136.9	204.4	29.63	250.8	5.591	11.15	155.0
#1	-.0140	.0002	.0567	.1141	.0096	.0680	-.0005
#2	.0018	-.0002	.0332	-.0755	.0087	.0547	-.0004
#3	-.0052	.0004	.0373	.0830	.0096	.0650	.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0242	.0013
SDev	.0010	.0013
%RSD	4.154	95.76
#1	.0251	.0027
#2	.0231	.0003
#3	.0245	.0010

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Method: ICP1 Sample Name: 95-007943-C1 Operator: DRS
Run Time: 09/11/95 14:45:44
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	98.80	.1842	.1265	.0010	.0003	.0249
SDev	.0009	.71	.0020	.0015	.0003	.0000	.0016
%RSD	9.949	.7165	1.063	1.217	25.29	3.923	6.303
#1	.0085	99.62	.1822	.1259	.0007	.0003	.0250
#2	.0101	98.45	.1843	.1283	.0011	.0003	.0265
#3	.0102	98.34	.1861	.1254	.0012	.0003	.0233

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0558	.0006	.0452	.0400	1.161	.0314	.0056
SDev	.0026	.0006	.0079	.0003	.006	.0006	.0009
%RSD	4.735	98.69	17.43	.8763	.4967	1.985	15.58
#1	.0536	.0006	.0365	.0399	1.167	.0310	.0047
#2	.0587	.0011	.0518	.0397	1.159	.0311	.0057
#3	.0549	-.0000	.0473	.0404	1.156	.0321	.0065

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.5158	11.00	.0101	.2061	.0257	.0016
SDev	.0002	.0018	.09	.0014	.0032	.0083	.0002
%RSD	11.37	.3510	.8237	14.22	1.566	32.10	13.70
#1	.0017	.5178	10.96	.0097	.2097	.0196	.0015
#2	.0022	.5142	11.11	.0117	.2052	.0225	.0019
#3	.0020	.5154	10.94	.0089	.2034	.0351	.0015

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0602	1463.	.0376	1.209	48.86	.0603	.1001
SDev	.0006	12.	.0074	.010	.24	.0062	.0125
%RSD	.9893	.8325	19.80	.8640	.4905	10.19	12.53
#1	.0602	1477.	.0292	1.216	49.13	.0541	.0862
#2	.0596	1459.	.0401	1.197	48.75	.0603	.1036
#3	.0608	1454.	.0434	1.213	48.69	.0664	.1105

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0519	.0126	.0402	1.110	.1833	.0012	.0217
SDev	.0039	.0088	.0119	.003	.0326	.0001	.0123
%RSD	7.457	70.01	29.60	.2605	17.80	9.092	56.80
#1	.0475	.0195	.0280	1.113	.1521	.0011	.0080
#2	.0540	.0155	.0517	1.111	.2172	.0013	.0252
#3	.0543	.0027	.0408	1.107	.1804	.0012	.0318

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0023	.2319	.6082	.0478	.3298	.0020
SDev	.0027	.0003	.0065	.0584	.0010	.0071	.0001

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%RSD	176.2	14.30	2.782	9.601	2.181	2.148	7.070
#1	-.0015	.0019	.2334	.5499	.0469	.3245	.0018
#2	.0035	.0025	.2248	.6667	.0490	.3272	.0021
#3	.0026	.0025	.2374	.6079	.0476	.3379	.0021

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0034	.0036
SDev	.0008	.0006
%RSD	23.10	17.32
#1	.0039	.0029
#2	.0025	.0039
#3	.0039	.0040

Analysis Report Mon 09-11-95 02:51:25 PM page 1

Method: ICP1 Sample Name: 95-007943-C2 @5 Operator: DRS
Run Time: 09/11/95 14:50:06
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	20.84	.0333	.0076	.0004	.0001	.0033
SDev	.0003	.09	.0031	.0023	.0001	.0000	.0022
%RSD	11.46	.4532	9.194	30.24	17.02	27.40	65.82
#1	.0025	20.91	.0307	.0103	.0004	.0001	.0011
#2	.0023	20.89	.0366	.0064	.0004	.0001	.0035
#3	.0029	20.74	.0324	.0062	.0005	.0001	.0055

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.553	.0001	.0111	.0083	.2560	.0098	.0013
SDev	.005	.0018	.0060	.0005	.0010	.0006	.0004
%RSD	.3107	2000.	53.42	6.508	.4058	5.571	34.88
#1	1.557	-.0002	.0098	.0087	.2548	.0105	.0011
#2	1.554	.0020	.0060	.0077	.2568	.0094	.0010
#3	1.548	-.0015	.0176	.0086	.2563	.0096	.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.1165	2.457	.0031	.0136	.0377	.0006
SDev	.0001	.0006	.144	.0013	.0022	.0049	.0001
%RSD	10.86	.5200	5.851	40.66	15.94	12.95	10.28
#1	.0006	.1167	2.419	.0023	.0129	.0327	.0005
#2	.0006	.1158	2.336	.0025	.0119	.0424	.0005
#3	.0007	.1170	2.616	.0046	.0160	.0382	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0116	352.8	.0113	.2641	10.37	.0291	.0245
SDev	.0009	1.8	.0044	.0046	.03	.0053	.0071
%RSD	7.940	.5045	39.27	1.728	.3333	18.24	29.00
#1	.0114	353.4	.0074	.2694	10.37	.0324	.0217
#2	.0107	354.1	.0104	.2617	10.40	.0230	.0192
#3	.0125	350.8	.0162	.2613	10.33	.0320	.0326

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0118	.0049	.0128	.3018	.0264	.0019	.0010
SDev	.0051	.0073	.0186	.0099	.0222	.0001	.0047
%RSD	43.15	147.9	145.0	3.286	83.86	3.220	457.4
#1	.0103	-.0000	.0233	.2921	.0014	.0018	.0012
#2	.0076	.0015	.0239	.3015	.0342	.0019	-.0038
#3	.0174	.0132	-.0087	.3119	.0437	.0019	.0056

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0007	.0513	.1332	.0097	.0648	.0000
SDev	.0018	.0003	.0078	.0697	.0006	.0039	.0003

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%RSD	65.13	33.86	15.25	52.35	5.887	6.057	1207.
#1	.0035	.0006	.0552	.0658	.0097	.0664	-.0001
#2	.0007	.0006	.0423	.1288	.0092	.0603	-.0002
#3	.0041	.0010	.0564	.2050	.0103	.0676	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0245	.0004
SDev	.0011	.0002
%RSD	4.559	59.03
#1	.0242	.0004
#2	.0258	.0001
#3	.0236	.0006

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Method: ICP1 Sample Name: 95-007943-C2 Operator: DRS
Run Time: 09/11/95 14:53:43
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	106.3	.1949	.0714	.0012	.0004	.0251
SDev	.0006	.7	.0070	.0014	.0001	.0000	.0125
%RSD	5.998	.6189	3.602	1.977	10.04	2.326	49.85
#1	.0090	106.7	.1881	.0698	.0013	.0004	.0157
#2	.0098	106.7	.1946	.0725	.0011	.0005	.0202
#3	.0101	105.6	.2021	.0720	.0012	.0004	.0392

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0517	-.0000	.0440	.0433	1.269	.0472	.0055
SDev	.0041	.0004	.0059	.0003	.004	.0004	.0001
%RSD	7.879	19310.	13.32	.6002	.3357	.8518	1.215
#1	.0484	.0005	.0428	.0432	1.270	.0476	.0055
#2	.0505	-.0001	.0387	.0431	1.272	.0470	.0056
#3	.0562	-.0004	.0503	.0436	1.264	.0469	.0055

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.5573	11.77	.0112	.0637	.0331	.0015
SDev	.0001	.0031	.07	.0017	.0007	.0066	.0001
%RSD	7.747	.5523	.5820	15.43	1.137	19.84	3.657
#1	.0019	.5585	11.75	.0110	.0645	.0281	.0016
#2	.0019	.5595	11.71	.0095	.0631	.0306	.0015
#3	.0022	.5537	11.85	.0130	.0634	.0405	.0016

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0652	1644.	.0379	1.341	53.63	.0701	.1009
SDev	.0016	10.	.0048	.012	.34	.0064	.0078
%RSD	2.395	.5986	12.65	.8735	.6302	9.194	7.747
#1	.0655	1651.	.0341	1.348	53.83	.0637	.0980
#2	.0635	1649.	.0364	1.349	53.82	.0766	.0949
#3	.0666	1633.	.0433	1.328	53.24	.0699	.1097

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0510	.0165	.0219	.9698	.1920	.0011	.0219
SDev	.0043	.0072	.0098	.0054	.0273	.0001	.0021
%RSD	8.461	43.56	44.67	.5615	14.24	5.199	9.678
#1	.0509	.0198	.0285	.9641	.1757	.0011	.0203
#2	.0468	.0083	.0265	.9750	.1766	.0011	.0212
#3	.0554	.0216	.0106	.9703	.2235	.0012	.0243

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0029	.0024	.2448	.5732	.0481	.3536	.0020
SDev	.0038	.0003	.0077	.0995	.0001	.0093	.0003

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%RSD	130.7	11.92	3.152	17.36	.1826	2.630	15.22
#1	-.0018	.0021	.2379	.5671	.0480	.3623	.0018
#2	-.0071	.0023	.2531	.4769	.0481	.3548	.0019
#3	.0002	.0027	.2435	.6756	.0481	.3438	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0036	.0041
SDev	.0006	.0001
%RSD	17.60	1.714
#1	.0039	.0040
#2	.0039	.0041
#3	.0029	.0041

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Method: ICP1 Sample Name: 95-007944-C1 @5 Operator: DRS
Run Time: 09/11/95 14:57:08
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	21.66	.0682	.0122	.0002	-.0001	.0043
SDev	.0009	.06	.0052	.0029	.0001	.0000	.0128
%RSD	124.1	.2990	7.634	23.88	51.43	44.26	299.9
#1	-.0009	21.71	.0720	.0152	.0002	-.0001	.0083
#2	.0002	21.59	.0623	.0121	.0001	-.0000	.0146
#3	-.0016	21.68	.0705	.0093	.0004	-.0001	-.0101

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5110	.0004	.0037	.0066	.2224	.0035	.0003
SDev	.0006	.0013	.0023	.0005	.0017	.0001	.0009
%RSD	.1089	348.3	61.84	7.367	.7603	2.283	287.0
#1	.5104	-.0011	.0033	.0063	.2222	.0035	-.0006
#2	.5115	.0015	.0062	.0072	.2208	.0036	.0011
#3	.5109	.0007	.0017	.0063	.2242	.0034	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0959	1.914	.0011	.0120	.0308	.0003
SDev	.0002	.0009	.066	.0011	.0007	.0011	.0001
%RSD	97.20	.9328	3.474	98.87	5.793	3.454	43.64
#1	.0001	.0970	1.876	-.0001	.0120	.0308	.0003
#2	.0004	.0955	1.991	.0013	.0127	.0318	.0004
#3	.0001	.0954	1.876	.0022	.0113	.0297	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0108	397.0	.0051	.1629	5.078	-.0003	.0081
SDev	.0008	2.2	.0023	.0017	.061	.0028	.0101
%RSD	7.780	.5615	45.28	1.021	1.197	854.0	125.9
#1	.0101	399.5	.0045	.1616	5.111	-.0035	.0034
#2	.0117	395.7	.0077	.1648	5.007	.0019	.0197
#3	.0106	395.7	.0032	.1623	5.114	.0006	.0011

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0028	.0131	.2294	.0176	.0042	-.0019
SDev	.0047	.0032	.0105	.0079	.0219	.0001	.0081
%RSD	239.8	114.7	80.44	3.443	124.0	1.465	426.7
#1	-.0022	-.0034	.0081	.2217	.0305	.0041	.0058
#2	.0070	.0007	.0251	.2291	.0300	.0042	-.0011
#3	.0011	-.0056	.0060	.2375	-.0076	.0041	-.0104

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0022	-.0000	.0572	.1116	.0057	.5243	-.0003
SDev	.0035	.0003	.0053	.0680	.0003	.0133	.0004

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%RSD	160.8	814.8	9.331	60.94	4.782	2.530	144.2
#1	.0008	-.0004	.0631	.0557	.0055	.5269	-.0007
#2	-.0013	.0002	.0555	.1873	.0060	.5099	.0002
#3	-.0060	.0001	.0528	.0918	.0055	.5360	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0095	.0003
SDev	.0005	.0003
%RSD	5.002	85.37
#1	.0091	.0002
#2	.0100	.0006
#3	.0093	.0001

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Method: ICP1 Sample Name: 95-007944-C1 Operator: DRS
Run Time: 09/11/95 15:01:32
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	105.2	.3508	.0889	.0006	.0001	.0180
SDev	.0001	.1	.0138	.0020	.0001	.0000	.0097
%RSD	5.483	.1245	3.950	2.233	10.77	61.91	54.07
#1	-.0025	105.3	.3490	.0887	.0007	.0000	.0225
#2	-.0027	105.2	.3654	.0909	.0006	.0001	.0068
#3	-.0026	105.1	.3379	.0870	.0006	.0001	.0248

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.078	-.0009	.0087	.0318	1.069	.0278	.0011
SDev	.005	.0014	.0013	.0003	.004	.0005	.0001
%RSD	.5069	166.1	15.43	1.092	.3858	1.811	6.411
#1	1.073	-.0010	.0091	.0315	1.072	.0282	.0012
#2	1.076	.0006	.0072	.0318	1.065	.0272	.0010
#3	1.084	-.0022	.0097	.0322	1.072	.0280	.0011

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.4412	8.879	.0032	.0571	.0936	.0011
SDev	.0000	.0007	.091	.0019	.0010	.0022	.0001
%RSD	4.357	.1641	1.021	58.16	1.826	2.353	12.41
#1	.0006	.4418	8.967	.0043	.0581	.0911	.0011
#2	.0007	.4412	8.786	.0010	.0560	.0951	.0010
#3	.0007	.4404	8.885	.0042	.0571	.0946	.0013

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0564	1777.	.0070	.8000	26.04	.0247	.0134
SDev	.0008	1.	.0016	.0038	.09	.0054	.0066
%RSD	1.323	.0664	23.16	.4778	.3463	21.86	49.45
#1	.0572	1779.	.0084	.7976	25.97	.0306	.0210
#2	.0562	1776.	.0074	.8044	26.00	.0199	.0102
#3	.0558	1777.	.0052	.7980	26.14	.0236	.0090

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	.0024	.0558	.6896	.0469	.0152	.0007
SDev	.0029	.0061	.0059	.0023	.0198	.0003	.0036
%RSD	39.74	259.5	10.56	.3398	42.11	1.930	549.9
#1	.0092	-.0042	.0525	.6922	.0330	.0149	.0030
#2	.0040	.0079	.0524	.6889	.0382	.0151	.0025
#3	.0087	.0035	.0626	.6877	.0695	.0155	-.0035

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	.0002	.2954	.3768	.0282	2.697	.0000
SDev	.0043	.0001	.0055	.0711	.0006	.026	.0003

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%RSD	116.3	62.14	1.853	18.88	2.173	.9742	695.3
#1	-.0048	.0001	.3017	.4492	.0283	2.678	.0003
#2	.0010	.0003	.2929	.3070	.0275	2.727	-.0002
#3	-.0074	.0002	.2916	.3741	.0288	2.686	.0000

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0058	.0002
SDev	.0006	.0004
%RSD	10.91	173.3
#1	.0051	.0001
#2	.0062	-.0001
#3	.0062	.0007

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Method: ICP1 Sample Name: 95-007944-C2 @5 Operator: DRS
Run Time: 09/11/95 15:05:27
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	16.99	.0538	.0217	.0005	-.0000	.0076
SDev	.0018	.29	.0083	.0012	.0004	.0001	.0061
%RSD	155.3	1.732	15.37	5.569	81.47	287.0	80.20
#1	-.0005	17.23	.0612	.0207	.0002	-.0001	.0029
#2	.0010	17.08	.0449	.0231	.0004	-.0000	.0054
#3	.0030	16.66	.0553	.0214	.0011	.0000	.0146

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4390	-.0001	.0108	.0063	.1754	.0031	.0017
SDev	.0015	.0023	.0123	.0016	.0040	.0014	.0019
%RSD	.3424	3476.	114.2	26.10	2.288	45.86	111.0
#1	.4385	-.0007	.0023	.0049	.1779	.0019	.0002
#2	.4378	-.0020	.0051	.0058	.1776	.0027	.0011
#3	.4407	.0025	.0248	.0081	.1708	.0047	.0037

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0776	1.870	.0033	.0109	.0360	.0004
SDev	.0005	.0006	.367	.0030	.0010	.0120	.0000
%RSD	65.27	.7538	19.62	90.63	9.488	33.34	10.39
#1	.0006	.0770	1.596	.0011	.0099	.0247	.0004
#2	.0004	.0777	1.728	.0020	.0109	.0347	.0004
#3	.0013	.0781	2.287	.0067	.0120	.0486	.0004

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0098	365.0	.0124	.1308	5.707	.0142	.0331
SDev	.0014	7.1	.0094	.0026	.064	.0118	.0279
%RSD	14.31	1.946	76.35	1.963	1.125	83.33	84.30
#1	.0089	371.3	.0035	.1279	5.721	.0046	.0164
#2	.0090	366.3	.0114	.1315	5.762	.0106	.0177
#3	.0114	357.3	.0222	.1329	5.636	.0273	.0654

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0149	-.0000	.0125	.2137	.0317	.0042	.0084
SDev	.0121	.0017	.0089	.0206	.0418	.0001	.0118
%RSD	81.70	8455.	71.13	9.650	132.0	1.292	140.9
#1	.0056	-.0019	.0057	.1912	.0029	.0041	-.0030
#2	.0103	.0007	.0092	.2181	.0125	.0041	.0076
#3	.0286	.0012	.0226	.2318	.0796	.0042	.0206

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0009	.0575	.2421	.0079	.4160	.0003
SDev	.0024	.0009	.0011	.1424	.0008	.0032	.0006

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%RSD	155.7	91.83	1.868	58.80	9.898	.7581	160.1
#1	-.0007	.0002	.0586	.1513	.0075	.4189	-.0001
#2	.0013	.0008	.0572	.1689	.0075	.4126	.0002
#3	.0040	.0019	.0565	.4062	.0088	.4165	.0010

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0061	.0010
SDev	.0004	.0011
%RSD	6.301	111.6
#1	.0059	.0004
#2	.0058	.0003
#3	.0066	.0023

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Method: ICP1 Sample Name: 95-007944-C2 Operator: DRS
Run Time: 09/11/95 15:09:29
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	85.08	.2702	.1350	.0011	.0001	.0173
SDev	.0012	1.00	.0195	.0024	.0002	.0000	.0109
%RSD	120.4	1.180	7.230	1.786	16.35	20.84	63.21
#1	.0003	85.50	.2601	.1333	.0011	.0001	.0080
#2	.0024	83.93	.2927	.1340	.0013	.0001	.0293
#3	.0004	85.80	.2578	.1378	.0009	.0001	.0145

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6168	-.0011	.0263	.0280	.8603	.0295	.0037
SDev	.0244	.0003	.0104	.0011	.0061	.0016	.0015
%RSD	3.963	27.33	39.61	3.855	.7138	5.541	40.98
#1	.5923	-.0008	.0285	.0281	.8639	.0302	.0029
#2	.6170	-.0013	.0355	.0290	.8532	.0306	.0055
#3	.6412	-.0013	.0150	.0269	.8638	.0276	.0028

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.3434	8.024	.0074	.0489	.0446	.0009
SDev	.0004	.0033	.158	.0024	.0004	.0035	.0002
%RSD	26.11	.9639	1.970	32.59	.8165	7.916	21.91
#1	.0014	.3447	7.996	.0073	.0484	.0477	.0010
#2	.0019	.3396	8.194	.0098	.0491	.0454	.0011
#3	.0011	.3458	7.881	.0050	.0491	.0408	.0007

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0479	1686.	.0257	.6529	29.63	.0492	.0629
SDev	.0009	20.	.0089	.0060	.23	.0044	.0224
%RSD	1.859	1.185	34.73	.9115	.7841	8.977	35.59
#1	.0468	1690.	.0264	.6579	29.75	.0486	.0653
#2	.0483	1664.	.0342	.6463	29.37	.0538	.0840
#3	.0485	1704.	.0164	.6544	29.79	.0451	.0394

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0301	.0074	.0428	.6523	.1091	.0086	.0152
SDev	.0075	.0038	.0048	.0031	.0364	.0003	.0039
%RSD	24.77	51.16	11.18	.4737	33.36	4.058	25.96
#1	.0271	.0082	.0451	.6524	.1015	.0082	.0184
#2	.0385	.0107	.0373	.6492	.1487	.0086	.0164
#3	.0246	.0033	.0460	.6554	.0771	.0089	.0108

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0051	.0016	.2344	.5651	.0346	2.170	.0011
SDev	.0045	.0005	.0082	.0901	.0005	.020	.0003

%RSD	88.73	32.70	3.491	15.94	1.372	.9385	27.65
#1	-.0097	.0017	.2397	.5214	.0351	2.186	.0009
#2	-.0006	.0020	.2250	.6687	.0345	2.147	.0014
#3	-.0051	.0010	.2386	.5052	.0342	2.178	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0023	.0024
SDev	.0005	.0009
%RSD	20.82	37.96
#1	.0023	.0026
#2	.0028	.0031
#3	.0018	.0014

Analysis Report QC Standard Mon 09-11-95 03:15:49 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 15:14:30
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4802	24.31	2.633	1.943	.4993	.0942	24.21
SDev	.0008	.09	.022	.013	.0024	.0004	.07
%RSD	.1716	.3691	.8444	.6597	.4751	.4565	.2958
#1	.4798	24.32	2.634	1.938	.5003	.0942	24.22
#2	.4797	24.21	2.611	1.933	.4966	.0938	24.14
#3	.4812	24.39	2.655	1.957	.5010	.0947	24.29
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.84	.4918	-.0143	1.024	1.015	.9804	.0019
SDev	.09	.0035	.0042	.005	.005	.0030	.0005
%RSD	.3666	.7040	29.53	.5240	.4809	.3073	25.61
#1	24.84	.4917	-.0162	1.024	1.011	.9804	.0014
#2	24.74	.4884	-.0095	1.019	1.014	.9774	.0024
#3	24.93	.4953	-.0173	1.030	1.021	.9834	.0018
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	20.28	24.42	.0078	1.816	26.30	.5081
SDev	.0002	.10	.44	.0008	.005	.08	.0029
%RSD	9.420	.4870	1.809	10.08	.2875	.3044	.5625
#1	.0024	20.29	24.17	.0080	1.817	26.31	.5078
#2	.0027	20.17	24.93	.0085	1.820	26.21	.5053
#3	.0023	20.36	24.15	.0069	1.810	26.37	.5110
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.019	24.17	.0212	1.056	.0829	2.615	.0019
SDev	.007	.12	.0029	.003	.0222	.011	.0129
%RSD	.6964	.5104	13.57	.2451	26.75	.4297	694.2
#1	1.016	24.09	.0221	1.054	.0765	2.616	.0011
#2	1.014	24.31	.0235	1.054	.1075	2.603	.0150
#3	1.027	24.11	.0180	1.059	.0646	2.626	-.0106
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

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Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	2.550	2.497	19.00	-.0178	.5041	.0038
SDev	.0038	.010	.028	.08	.0108	.0031	.0049
%RSD	30.64	.4111	1.129	.4203	60.67	.6211	126.8
#1	.0136	2.543	2.482	18.97	-.0071	.5044	.0017
#2	.0154	2.545	2.479	18.93	-.0176	.5008	.0094
#3	.0081	2.562	2.530	19.09	-.0286	.5070	.0004
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0450	.9866	2.491	.2604	.9996	.0192	.0006
SDev	.0001	.0044	.025	.0788	.0053	.0056	.0004
%RSD	.3245	.4491	1.021	30.26	.5340	28.98	78.86
#1	.0451	.9876	2.471	.2137	.9986	.0208	.0007
#2	.0448	.9817	2.483	.3514	.9948	.0130	.0009
#3	.0451	.9904	2.520	.2161	1.005	.0238	.0001
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.023	2.029
SDev	.002	.013
%RSD	.2365	.6297
#1	1.020	2.032
#2	1.025	2.015
#3	1.025	2.040
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report

Mon 09-11-95 03:20:24 PM

Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 15:19:04
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0116	96.72	.1548	-.0106	-.0001	.0007	.0590
SDev	.0001	.23	.0084	.0032	.0001	.0000	.0057
%RSD	.6337	.2387	5.454	29.74	85.04	2.427	9.594
#1	-.0115	96.59	.1642	-.0128	-.0002	.0007	.0625
#2	-.0116	96.99	.1478	-.0070	-.0000	.0007	.0524
#3	-.0117	96.58	.1525	-.0120	-.0000	.0007	.0620

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0699	.0085	-.1256	.0041	.0382	-.0155	-.0032
SDev	.0003	.0004	.0007	.0003	.0018	.0006	.0004
%RSD	.5048	5.119	.5852	6.455	4.790	4.192	13.75
#1	.0696	.0090	-.1249	.0041	.0363	-.0151	-.0037
#2	.0702	.0083	-.1255	.0043	.0399	-.0151	-.0030
#3	.0701	.0082	-.1264	.0038	.0383	-.0162	-.0029

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	19.98	-.0165	.0034	.0028	.2949	.0015
SDev	.0001	.07	.0000	.0003	.0005	.0019	.0001
%RSD	25.46	.3363	.0000	8.568	19.24	.6517	5.181
#1	.0004	19.96	-.0165	.0032	.0033	.2961	.0015
#2	.0007	20.06	-.0165	.0032	.0023	.2959	.0015
#3	.0006	19.93	-.0165	.0037	.0026	.2927	.0014

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082	.0121	-.0213	52.24	.0339	.1892	-.4889
SDev	.0008	.0083	.0018	.17	.0148	.0007	.0075
%RSD	10.03	68.81	8.437	.3309	43.69	.3543	1.538
#1	.0077	.0206	-.0214	52.19	.0458	.1884	-.4958
#2	.0078	.0117	-.0231	52.43	.0385	.1894	-.4900
#3	.0092	.0040	-.0195	52.10	.0173	.1897	-.4809

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0413	.0003	.0364	.0401	.0205	-.0004	-.0026
SDev	.0009	.0089	.0128	.0056	.0097	.0001	.0031
%RSD	2.166	2765.	35.04	13.90	47.55	18.23	120.0
#1	-.0407	-.0067	.0228	.0466	.0138	-.0004	-.0046
#2	-.0423	.0103	.0482	.0373	.0160	-.0005	-.0042
#3	-.0409	-.0026	.0383	.0366	.0317	-.0004	.0010

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7529	.0008	.2137	50.45	.0031	.0395	.0035
SDev	.0024	.0001	.0073	.12	.0003	.0108	.0002

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%RSD	.3161	6.992	3.438	.2416	9.932	27.37	5.029
#1	.7539	.0008	.2101	50.42	.0027	.0365	.0033
#2	.7546	.0009	.2221	50.59	.0031	.0515	.0036
#3	.7501	.0008	.2088	50.35	.0033	.0305	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0295	10.06
SDev	.0018	.05
%RSD	6.052	.4675
#1	-.0280	10.05
#2	-.0290	10.11
#3	-.0315	10.02

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 15:23:02
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.0005	.0014	-.0093	-.0004	-.0000	-.0053
SDev	.0003	.0023	.0118	.0011	.0001	.0000	.0023
%RSD	22.86	490.6	870.0	12.02	34.76	11.68	44.67
#1	-.0010	.0024	-.0040	-.0102	-.0002	-.0000	-.0041
#2	-.0013	.0011	-.0068	-.0080	-.0005	-.0000	-.0080
#3	-.0016	-.0021	.0149	-.0097	-.0005	-.0000	-.0037

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0006	-.0100	-.0006	.0001	-.0032	-.0011
SDev	.0011	.0021	.0033	.0006	.0013	.0007	.0003
%RSD	63.99	319.9	33.20	98.46	1015.	20.94	30.51
#1	.0024	-.0013	-.0095	-.0008	.0013	-.0027	-.0007
#2	.0004	.0003	-.0070	.0001	-.0013	-.0030	-.0013
#3	.0021	.0029	-.0136	-.0009	.0004	-.0040	-.0012

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0013	-.3510	-.0016	-.0014	-.0090	-.0001
SDev	.0001	.0010	.0414	.0002	.0012	.0045	.0000
%RSD	32.34	79.45	11.80	11.02	87.93	49.61	17.34
#1	-.0004	.0012	-.3455	-.0018	-.0001	-.0061	-.0001
#2	-.0003	.0003	-.3949	-.0017	-.0025	-.0142	-.0000
#3	-.0002	.0023	-.3126	-.0014	-.0015	-.0068	-.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0040	-.0048	.0018	.0168	-.0103	-.0184
SDev	.0003	.0024	.0021	.0040	.0138	.0045	.0060
%RSD	45.51	59.65	44.01	230.1	82.31	43.41	32.90
#1	-.0003	-.0013	-.0036	-.0020	.0285	-.0151	-.0126
#2	-.0010	-.0054	-.0073	.0060	.0202	-.0062	-.0246
#3	-.0008	-.0055	-.0035	.0012	.0016	-.0097	-.0179

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0093	-.0005	.0019	-.0123	-.0342	-.0002	.0006
SDev	.0020	.0015	.0042	.0028	.0118	.0000	.0062
%RSD	21.60	337.2	219.9	23.12	34.62	.9785	1029.
#1	-.0114	.0002	-.0029	-.0129	-.0372	-.0002	.0059
#2	-.0075	.0006	.0039	-.0148	-.0442	-.0002	.0020
#3	-.0089	-.0022	.0047	-.0092	-.0211	-.0002	-.0062

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	-.0004	-.0005	-.0949	-.0005	-.0083	-.0007
SDev	.0043	.0002	.0064	.0233	.0002	.0038	.0002

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%RSD	160.8	58.59	1400.	24.57	38.78	46.27	25.44
#1	-.0015	-.0006	.0040	-.0747	-.0005	-.0118	-.0006
#2	-.0075	-.0003	.0023	-.1204	-.0007	-.0088	-.0009
#3	.0009	-.0002	-.0078	-.0896	-.0003	-.0042	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	.0002
SDev	.0007	.0003
%RSD	557.2	153.0
#1	.0006	.0004
#2	-.0009	.0005
#3	-.0001	-.0002

Analysis Report Mon 09-11-95 03:26:27 PM page 1

Method: ICP1 Sample Name: 95-007945-C1 @5 Operator: DRS
Run Time: 09/11/95 15:25:08
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0030	15.20	.0288	.0096	-.0006	-.0001	-.0049
SDev	.0003	.08	.0048	.0010	.0001	.0000	.0025
%RSD	11.59	.5585	16.69	10.42	10.75	29.37	50.89
#1	-.0026	15.19	.0241	.0105	-.0006	-.0001	-.0026
#2	-.0033	15.29	.0285	.0098	-.0007	-.0001	-.0046
#3	-.0030	15.12	.0337	.0086	-.0006	-.0001	-.0075

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1519	-.0010	-.0035	.0126	.1284	-.0057	-.0027
SDev	.0017	.0008	.0067	.0009	.0017	.0017	.0004
%RSD	1.109	82.24	192.7	7.233	1.313	30.27	16.19
#1	.1534	-.0001	.0043	.0129	.1273	-.0037	-.0024
#2	.1523	-.0016	-.0076	.0116	.1304	-.0066	-.0032
#3	.1501	-.0014	-.0072	.0133	.1276	-.0067	-.0026

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.7820	1.508	-.0041	-.0014	-.0027	-.0001
SDev	.0000	.0024	.053	.0009	.0002	.0010	.0001
%RSD	3.858	.3079	3.507	21.05	14.19	37.05	170.6
#1	-.0008	.7836	1.547	-.0036	-.0012	-.0035	-.0001
#2	-.0008	.7832	1.448	-.0051	-.0015	-.0016	.0001
#3	-.0008	.7792	1.530	-.0036	-.0015	-.0030	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0061	288.5	-.0161	1.112	12.64	-.0176	-.0533
SDev	.0004	2.8	.0064	.012	.08	.0046	.0100
%RSD	7.394	.9859	39.40	1.068	.6673	26.22	18.72
#1	.0061	285.6	-.0122	1.113	12.69	-.0144	-.0477
#2	.0065	291.3	-.0235	1.124	12.69	-.0229	-.0649
#3	.0056	288.6	-.0127	1.100	12.54	-.0155	-.0474

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0210	-.0222	-.0050	.1266	-.1006	.0067	-.0137
SDev	.0037	.0023	.0052	.0086	.0128	.0000	.0037
%RSD	17.39	10.54	103.8	6.809	12.71	.0475	27.27
#1	-.0196	-.0201	-.0035	.1188	-.0868	.0067	-.0158
#2	-.0251	-.0217	-.0108	.1251	-.1121	.0067	-.0159
#3	-.0182	-.0247	-.0007	.1359	-.1029	.0067	-.0094

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0033	-.0011	.0383	-.2280	.0004	.1004	-.0014
SDev	.0011	.0003	.0083	.0291	.0002	.0009	.0000

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%RSD	34.61	25.39	21.54	12.79	59.96	.9390	1.743
#1	-.0021	-.0009	.0296	-.2048	.0005	.0993	-.0015
#2	-.0033	-.0014	.0460	-.2607	.0001	.1010	-.0014
#3	-.0044	-.0009	.0394	-.2184	.0005	.1009	-.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0007	-.0013
SDev	.0015	.0005
%RSD	233.9	38.03
#1	.0019	-.0008
#2	-.0011	-.0018
#3	.0012	-.0014

Analysis Report Mon 09-11-95 03:30:15 PM page 1

Method: ICP1 Sample Name: 95-007945-C1 Operator: DRS
Run Time: 09/11/95 15:28:56
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	75.96	.2026	.0903	.0004	.0000	.0099
SDev	.0011	.50	.0048	.0025	.0001	.0000	.0077
%RSD	2420.	.6630	2.360	2.806	15.63	77.70	77.28
#1	-.0004	76.22	.2038	.0925	.0005	.0000	.0182
#2	-.0008	76.28	.2067	.0909	.0003	.0000	.0030
#3	.0013	75.38	.1973	.0876	.0005	.0000	.0087

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4126	-.0003	.0034	.0771	.6583	-.0010	.0007
SDev	.0136	.0003	.0035	.0016	.0106	.0007	.0008
%RSD	3.302	91.18	104.9	2.020	1.610	74.05	108.2
#1	.4258	.0000	.0014	.0788	.6642	-.0013	.0005
#2	.3986	-.0006	.0013	.0758	.6646	-.0014	.0001
#3	.4135	-.0004	.0075	.0766	.6461	-.0001	.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	3.864	9.981	.0017	.0018	.0680	.0010
SDev	.0002	.025	.176	.0008	.0012	.0038	.0001
%RSD	49.76	.6377	1.763	49.30	67.69	5.561	9.013
#1	.0005	3.878	10.02	.0021	.0019	.0684	.0010
#2	.0002	3.878	9.790	.0007	.0005	.0641	.0011
#3	.0006	3.835	10.14	.0023	.0030	.0717	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0471	1332.	.0057	5.519	65.98	.0012	.0066
SDev	.0004	7.	.0037	.033	.50	.0096	.0081
%RSD	.8225	.5387	64.44	.6052	.7604	828.1	123.2
#1	.0469	1338.	.0032	5.544	66.29	-.0008	.0086
#2	.0475	1335.	.0040	5.532	66.25	-.0073	-.0023
#3	.0468	1324.	.0099	5.481	65.40	.0115	.0135

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0186	.0003	.0425	.3546	.0127	.0271	.0109
SDev	.0055	.0023	.0047	.0040	.0109	.0008	.0054
%RSD	29.66	770.5	11.18	1.143	85.94	2.969	49.73
#1	.0202	.0027	.0406	.3527	.0132	.0280	.0089
#2	.0124	-.0019	.0480	.3592	.0015	.0264	.0067
#3	.0231	.0001	.0391	.3518	.0232	.0271	.0170

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	.0003	.1995	.2979	.0124	.5893	-.0001
SDev	.0032	.0002	.0138	.0901	.0004	.0052	.0003

Analysis Report Mon 09-11-95 03:41:54 PM page

Method: ICP1 Sample Name: 95-007946-C1 @5 Operator: DRS
Run Time: 09/11/95 15:40:35
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	10.52	.0319	.0123	-.0000	-.0001	-.0014
SDev	.0005	.02	.0067	.0011	.0001	.0000	.0017
%RSD	27.00	.1814	21.13	8.676	176.5	4.593	119.8
#1	-.0012	10.50	.0268	.0131	-.0001	-.0001	-.0031
#2	-.0018	10.52	.0395	.0111	-.0000	-.0001	-.0013
#3	-.0021	10.54	.0294	.0127	.0000	-.0001	.0002

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5470	-.0004	-.0105	.0220	.1168	-.0053	-.0013
SDev	.0008	.0012	.0027	.0004	.0006	.0010	.0004
%RSD	.1515	276.4	25.94	1.730	.4976	18.64	29.56
#1	.5461	-.0016	-.0077	.0225	.1166	-.0046	-.0011
#2	.5475	-.0003	-.0132	.0219	.1164	-.0064	-.0011
#3	.5475	.0007	-.0108	.0217	.1175	-.0049	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.7935	1.870	-.0026	-.0004	.0113	.0002
SDev	.0000	.0009	.034	.0008	.0005	.0014	.0001
%RSD	4.829	.1097	1.831	29.17	130.6	12.37	35.69
#1	-.0004	.7932	1.909	-.0018	-.0005	.0125	.0003
#2	-.0004	.7944	1.843	-.0028	-.0009	.0097	.0001
#3	-.0004	.7928	1.859	-.0033	.0002	.0116	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0048	175.5	-.0074	1.493	15.87	-.0162	-.0247
SDev	.0005	1.1	.0008	.006	.03	.0079	.0094
%RSD	9.803	.6500	11.28	.3806	.1872	48.83	37.89
#1	.0051	174.2	-.0083	1.496	15.85	-.0177	-.0277
#2	.0043	176.0	-.0067	1.487	15.91	-.0233	-.0322
#3	.0051	176.4	-.0071	1.497	15.86	-.0077	-.0142

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0073	-.0058	-.0030	.0320	-.0373	.0093	-.0108
SDev	.0022	.0033	.0036	.0054	.0148	.0000	.0045
%RSD	30.10	57.68	122.5	16.76	39.80	.0391	41.91
#1	-.0062	-.0096	-.0062	.0377	-.0347	.0093	-.0056
#2	-.0059	-.0034	-.0036	.0313	-.0239	.0093	-.0131
#3	-.0099	-.0044	.0009	.0270	-.0533	.0093	-.0137

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	-.0004	.0355	-.0460	-.0007	.0093	-.0010
SDev	.0029	.0001	.0071	.0464	.0001	.0115	.0002

%RSD	126.5	23.79	19.97	100.9	19.46	123.6	15.31
#1	-.0001	-.0004	.0284	-.0405	-.0007	.0199	-.0009
#2	-.0056	-.0005	.0426	-.0026	-.0009	-.0029	-.0009
#3	-.0012	-.0004	.0355	-.0950	-.0006	.0109	-.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0086	-.0014
SDev	.0006	.0003
%RSD	7.299	22.71
#1	.0092	-.0013
#2	.0086	-.0011
#3	.0079	-.0018

Analysis Report Mon 09-11-95 03:45:26 PM page

Method: ICP1 Sample Name: 95-007946-C1 Operator: DRS
Run Time: 09/11/95 15:44:07
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	52.45	.1294	.0978	.0012	.0001	.0225
SDev	.0011	.25	.0046	.0039	.0001	.0000	.0043
%RSD	62.13	.4722	3.522	3.946	10.01	28.55	19.07
#1	.0031	52.18	.1261	.0978	.0013	.0001	.0273
#2	.0011	52.68	.1346	.1016	.0011	.0001	.0208
#3	.0012	52.48	.1275	.0939	.0012	.0001	.0193

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1716	.0007	.0143	.1101	.5893	-.0020	.0023
SDev	.0056	.0004	.0073	.0011	.0038	.0006	.0005
%RSD	3.241	57.67	51.09	1.049	.6432	30.58	20.54
#1	.1717	.0008	.0223	.1110	.5874	-.0013	.0029
#2	.1660	.0011	.0124	.1104	.5936	-.0023	.0020
#3	.1771	.0003	.0081	.1088	.5868	-.0023	.0022

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	3.877	10.80	.0030	.0021	.0422	.0010
SDev	.0002	.015	.03	.0019	.0012	.0072	.0003
%RSD	28.40	.3789	.3170	64.04	59.22	17.11	27.41
#1	.0010	3.869	10.84	.0052	.0033	.0436	.0009
#2	.0006	3.894	10.78	.0016	.0009	.0487	.0014
#3	.0008	3.868	10.79	.0022	.0019	.0344	.0008

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0350	825.6	.0137	7.341	81.61	.0131	.0317
SDev	.0009	7.1	.0056	.046	.38	.0062	.0182
%RSD	2.655	.8629	40.60	.6250	.4610	47.44	57.49
#1	.0360	817.7	.0202	7.326	81.35	.0187	.0527
#2	.0344	827.7	.0107	7.393	82.04	.0142	.0229
#3	.0345	831.5	.0103	7.306	81.45	.0064	.0195

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0396	.0008	.0199	.1483	.0388	.0264	.0167
SDev	.0077	.0054	.0048	.0038	.0258	.0011	.0043
%RSD	19.36	653.3	24.25	2.560	66.67	4.054	25.61
#1	.0470	.0023	.0230	.1527	.0670	.0261	.0158
#2	.0400	.0054	.0224	.1463	.0331	.0256	.0213
#3	.0317	-.0052	.0144	.1459	.0162	.0276	.0129

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.0010	.1414	.5578	.0031	.0883	.0004
SDev	.0038	.0003	.0072	.0644	.0006	.0042	.0004

%RSD	57.46	33.38	5.101	11.55	20.65	4.804	107.7
#1	.0030	.0013	.1406	.6294	.0038	.0906	.0009
#2	.0105	.0008	.1490	.5047	.0025	.0910	.0000
#3	.0062	.0008	.1347	.5392	.0030	.0835	.0003

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0037	.0006
SDev	.0005	.0013
%RSD	13.60	214.7
#1	-.0038	.0021
#2	-.0040	-.0004
#3	-.0031	.0001

Analysis Report Mon 09-11-95 03:49:09 PM page

Method: ICP1 Sample Name: 95-007946-C2 @5 Operator: DRS
Run Time: 09/11/95 15:47:50
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	12.89	.0349	.0168	.0010	.0000	.0121
SDev	.0010	.08	.0045	.0013	.0002	.0000	.0074
%RSD	122.6	.6373	13.01	7.866	17.65	3717.	61.08
#1	.0015	12.87	.0318	.0183	.0011	.0000	.0206
#2	-.0003	12.97	.0328	.0162	.0008	-.0000	.0068
#3	.0012	12.81	.0401	.0160	.0012	-.0000	.0090

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7371	.0001	.0062	.0285	.1514	-.0027	.0015
SDev	.0035	.0018	.0056	.0010	.0017	.0012	.0010
%RSD	.4791	2686.	89.67	3.440	1.115	43.89	65.28
#1	.7409	-.0007	.0104	.0293	.1524	-.0016	.0022
#2	.7339	-.0012	-.0001	.0274	.1524	-.0040	.0004
#3	.7366	.0021	.0083	.0287	.1495	-.0025	.0019

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.9795	2.929	.0017	.0005	.0417	.0007
SDev	.0002	.0022	.103	.0017	.0015	.0097	.0002
%RSD	41.71	.2298	3.508	103.9	306.5	23.37	26.08
#1	.0005	.9820	3.011	.0027	.0015	.0377	.0008
#2	.0002	.9790	2.813	-.0003	-.0012	.0347	.0005
#3	.0005	.9776	2.962	.0027	.0012	.0529	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0069	237.0	.0107	1.646	30.71	-.0015	.0146
SDev	.0017	3.9	.0078	.009	.08	.0077	.0169
%RSD	24.90	1.630	72.83	.5552	.2464	529.7	116.2
#1	.0069	236.1	.0126	1.654	30.78	-.0081	.0223
#2	.0051	241.3	.0021	1.648	30.72	-.0033	-.0048
#3	.0085	233.7	.0173	1.636	30.63	.0070	.0262

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0135	-.0071	.0118	.0223	.0017	.0208	.0012
SDev	.0073	.0112	.0123	.0043	.0186	.0001	.0082
%RSD	53.98	157.2	104.1	19.45	1113.	.5764	707.4
#1	.0189	-.0050	.0242	.0254	.0193	.0208	.0024
#2	.0052	-.0192	-.0003	.0174	-.0177	.0210	-.0076
#3	.0165	.0029	.0114	.0243	.0035	.0207	.0087

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0004	.0411	.2898	.0015	.0150	.0001
SDev	.0051	.0006	.0128	.0510	.0006	.0062	.0003

%RSD	467.9	137.1	31.25	17.60	42.66	41.25	269.3
#1	.0062	.0007	.0280	.3125	.0014	.0128	.0001
#2	.0011	-.0002	.0415	.2314	.0009	.0102	-.0002
#3	-.0040	.0007	.0537	.3255	.0022	.0220	.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0117	.0004
SDev	.0004	.0009
%RSD	3.420	225.7
#1	.0118	.0005
#2	.0112	-.0005
#3	.0120	.0012

Analysis Report Mon 09-11-95 03:52:39 PM page

Method: ICP1 Sample Name: 95-007946-C2 Operator: DRS
Run Time: 09/11/95 15:51:19
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0040	64.84	.1593	.1229	.0018	.0001	.0276
SDev	.0015	.53	.0128	.0008	.0003	.0000	.0079
%RSD	37.05	.8140	8.011	.6301	17.69	16.68	28.64
#1	.0055	64.38	.1740	.1222	.0020	.0002	.0365
#2	.0026	65.42	.1529	.1228	.0014	.0001	.0215
#3	.0038	64.73	.1511	.1237	.0019	.0001	.0247

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1557	.0023	.0286	.1372	.7500	.0012	.0046
SDev	.0020	.0003	.0102	.0018	.0028	.0015	.0013
%RSD	1.292	15.03	35.80	1.307	.3737	122.0	27.35
#1	.1567	.0023	.0357	.1387	.7482	.0029	.0057
#2	.1571	.0027	.0169	.1352	.7533	.0000	.0032
#3	.1534	.0020	.0332	.1378	.7486	.0008	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	4.771	13.75	.0079	.0046	.0557	.0014
SDev	.0004	.015	.08	.0026	.0017	.0060	.0003
%RSD	23.16	.3121	.5482	32.53	37.18	10.86	19.83
#1	.0020	4.756	13.77	.0090	.0058	.0627	.0017
#2	.0012	4.786	13.82	.0049	.0026	.0525	.0013
#3	.0017	4.772	13.67	.0097	.0054	.0519	.0012

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0467	1116.	.0254	8.140	159.2	.0253	.0714
SDev	.0010	14.	.0079	.021	.8	.0107	.0286
%RSD	2.258	1.275	31.13	.2537	.4802	42.30	40.15
#1	.0477	1105.	.0330	8.119	158.3	.0306	.0993
#2	.0469	1132.	.0172	8.160	159.8	.0130	.0420
#3	.0456	1112.	.0260	8.142	159.4	.0323	.0728

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0616	.0110	.0393	.1742	.1174	.0228	.0477
SDev	.0107	.0042	.0098	.0065	.0340	.0006	.0123
%RSD	17.47	37.83	24.84	3.725	28.92	2.579	25.86
#1	.0693	.0154	.0434	.1761	.1280	.0229	.0589
#2	.0493	.0103	.0464	.1670	.0794	.0234	.0345
#3	.0661	.0072	.0282	.1796	.1447	.0222	.0496

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	.0019	.1819	.7564	.0058	.1154	.0014
SDev	.0043	.0006	.0061	.1139	.0012	.0035	.0005

%RSD	44.40	30.27	3.355	15.06	20.38	3.029	32.77
#1	.0074	.0024	.1862	.8299	.0067	.1141	.0017
#2	.0069	.0013	.1749	.6252	.0045	.1194	.0009
#3	.0145	.0019	.1847	.8141	.0062	.1128	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0018	.0024
SDev	.0000	.0010
%RSD	.6203	42.55
#1	-.0018	.0033
#2	-.0018	.0013
#3	-.0018	.0025

Analysis Report QC Standard Mon 09-11-95 03:55:59 PM page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 15:54:40
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4677	23.76	2.542	1.884	.4865	.0917	23.53
SDev	.0006	.03	.006	.009	.0008	.0001	.04
%RSD	.1183	.1106	.2271	.4687	.1670	.0848	.1589
#1	.4671	23.79	2.537	1.887	.4874	.0918	23.53
#2	.4677	23.75	2.549	1.892	.4862	.0917	23.56
#3	.4682	23.74	2.542	1.874	.4858	.0916	23.49
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.09	.4809	-.0169	.9959	.9976	.9644	.0026
SDev	.03	.0062	.0029	.0013	.0024	.0003	.0007
%RSD	.1121	1.294	17.01	.1319	.2378	.0258	27.04
#1	24.06	.4792	-.0163	.9953	.9949	.9645	.0018
#2	24.12	.4757	-.0200	.9950	.9993	.9641	.0030
#3	24.10	.4878	-.0143	.9974	.9985	.9646	.0030
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	19.68	24.76	.0090	1.810	25.63	.4937
SDev	.0000	.01	.24	.0014	.012	.03	.0004
%RSD	.3169	.0365	.9583	15.02	.6823	.1027	.0735
#1	.0026	19.67	25.02	.0074	1.824	25.64	.4932
#2	.0026	19.69	24.56	.0094	1.802	25.64	.4939
#3	.0026	19.69	24.70	.0100	1.803	25.60	.4938
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9904	24.11	.0246	1.026	.1037	2.538	.0088
SDev	.0020	.14	.0019	.003	.0085	.008	.0082
%RSD	.1978	.5603	7.872	.2964	8.240	.3135	93.39
#1	.9883	24.26	.0244	1.023	.1090	2.545	-.0001
#2	.9922	23.99	.0228	1.029	.1083	2.529	.0160
#3	.9907	24.08	.0266	1.027	.0938	2.539	.0105
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	2.489	2.419	18.50	-.0231	.4914	.0043
SDev	.0034	.009	.004	.02	.0104	.0003	.0058
%RSD	26.95	.3806	.1535	.0895	44.88	.0618	136.1
#1	.0091	2.487	2.415	18.48	-.0348	.4918	-.0022
#2	.0129	2.481	2.420	18.51	-.0192	.4913	.0089
#3	.0160	2.500	2.422	18.50	-.0152	.4912	.0061
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0419	.9596	2.433	.2807	.9732	.0281	.0006
SDev	.0044	.0013	.015	.0177	.0003	.0039	.0002
%RSD	10.52	.1341	.6092	6.312	.0336	13.72	28.34
#1	.0369	.9591	2.448	.3010	.9735	.0276	.0007
#2	.0436	.9610	2.418	.2721	.9733	.0321	.0004
#3	.0453	.9586	2.434	.2688	.9729	.0245	.0007
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.001	1.973
SDev	.004	.002
%RSD	.3495	.0832
#1	1.004	1.975
#2	.9975	1.972
#3	.9997	1.971
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Mon 09-11-95 03:59:51 PM page

Method: ICP1 Sample Name: SST-ICS-0 9509081100 Operator: DRS
Run Time: 09/11/95 15:58:32
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0142	96.25	.1229	-.0117	-.0004	.0006	.0550
SDev	.0039	2.66	.0153	.0017	.0007	.0001	.0094
%RSD	27.42	2.764	12.48	14.27	167.5	8.028	17.00
#1	-.0097	93.18	.1390	-.0099	.0004	.0007	.0639
#2	-.0164	97.72	.1084	-.0119	-.0008	.0006	.0453
#3	-.0165	97.85	.1214	-.0132	-.0008	.0006	.0560

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0659	.0077	-.1608	.0021	.0376	-.0183	-.0043
SDev	.0030	.0022	.0294	.0024	.0011	.0058	.0030
%RSD	4.596	29.03	18.30	116.8	2.842	31.59	69.23
#1	.0693	.0099	-.1268	.0049	.0388	-.0117	-.0009
#2	.0650	.0055	-.1775	.0005	.0369	-.0214	-.0057
#3	.0635	.0076	-.1781	.0009	.0371	-.0219	-.0064

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	19.69	-.1536	.0009	.0027	.2758	.0008
SDev	.0009	.41	.4893	.0054	.0024	.0172	.0004
%RSD	527.0	2.089	318.6	593.9	91.51	6.234	50.34
#1	.0012	19.22	.4113	.0070	.0051	.2950	.0013
#2	-.0004	19.88	-.4278	-.0011	.0002	.2620	.0006
#3	-.0003	19.97	-.4442	-.0032	.0027	.2703	.0006

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	.0202	-.0245	51.46	.0414	.1715	-.5018
SDev	.0012	.0389	.0189	.96	.0368	.0159	.0628
%RSD	18.95	192.3	77.16	1.874	88.86	9.264	12.52
#1	.0074	.0626	-.0027	50.36	.0769	.1898	-.4294
#2	.0064	.0119	-.0347	51.87	.0441	.1621	-.5419
#3	.0050	-.0139	-.0362	52.15	.0034	.1625	-.5340

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0520	-.0034	.0161	.0148	-.0188	-.0005	-.0107
SDev	.0224	.0070	.0139	.0174	.0797	.0002	.0218
%RSD	43.12	205.7	86.55	117.3	423.5	47.44	202.8
#1	-.0261	.0022	.0292	.0344	.0732	-.0002	.0143
#2	-.0651	-.0113	.0176	.0013	-.0636	-.0006	-.0250
#3	-.0648	-.0011	.0015	.0087	-.0661	-.0007	-.0216

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7349	.0005	.2112	50.19	.0013	.0340	.0031
SDev	.0120	.0013	.0041	1.35	.0025	.0082	.0011

%RSD	1.631	271.1	1.948	2.690	187.8	24.04	34.35
#1	.7283	.0019	.2085	48.64	.0041	.0263	.0044
#2	.7487	-.0000	.2093	50.85	-.0000	.0426	.0026
#3	.7276	-.0005	.2160	51.09	-.0002	.0332	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0299	9.911
SDev	.0038	.252
%RSD	12.84	2.544
#1	-.0261	9.623
#2	-.0298	10.02
#3	-.0338	10.09

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 16:02:17
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	.0004	.0014	-.0097	-.0004	-.0000	.0002
SDev	.0006	.0028	.0039	.0016	.0001	.0000	.0034
%RSD	43.92	686.4	284.2	16.06	34.63	118.6	2063.
#1	-.0007	.0035	.0058	-.0112	-.0002	-.0001	.0006
#2	-.0019	-.0006	-.0007	-.0081	-.0005	-.0000	-.0035
#3	-.0018	-.0018	-.0010	-.0098	-.0005	-.0000	.0033

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0003	-.0094	-.0014	-.0015	-.0044	-.0013
SDev	.0016	.0006	.0086	.0002	.0014	.0010	.0006
%RSD	995.3	228.8	91.48	16.90	92.01	21.81	47.58
#1	.0016	-.0008	.0001	-.0017	-.0024	-.0039	-.0007
#2	-.0015	.0004	-.0118	-.0014	.0001	-.0055	-.0019
#3	.0004	-.0004	-.0166	-.0012	-.0022	-.0037	-.0012

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0015	-.3565	-.0018	-.0013	-.0048	-.0003
SDev	.0003	.0007	.1835	.0010	.0007	.0067	.0002
%RSD	63.83	46.81	51.46	57.44	56.69	138.6	83.94
#1	-.0002	.0023	-.1481	-.0007	-.0005	.0015	-.0003
#2	-.0008	.0014	-.4936	-.0018	-.0015	-.0041	-.0004
#3	-.0005	.0009	-.4278	-.0028	-.0018	-.0118	-.0000

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	.0045	-.0068	.0019	-.0063	-.0173	-.0243
SDev	.0006	.0136	.0060	.0025	.0092	.0039	.0101
%RSD	41.12	302.8	87.00	133.3	146.0	22.28	41.65
#1	-.0019	-.0054	-.0002	.0048	.0033	-.0147	-.0128
#2	-.0008	-.0011	-.0117	-.0000	-.0151	-.0217	-.0318
#3	-.0016	.0200	-.0086	.0009	-.0071	-.0154	-.0282

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0115	-.0052	.0021	-.0205	-.0527	-.0002	-.0090
SDev	.0058	.0042	.0110	.0058	.0209	.0000	.0026
%RSD	50.43	80.00	530.6	28.28	39.64	1.889	28.77
#1	-.0050	-.0004	.0120	-.0147	-.0415	-.0002	-.0061
#2	-.0161	-.0072	-.0098	-.0263	-.0398	-.0002	-.0111
#3	-.0133	-.0081	.0041	-.0204	-.0768	-.0002	-.0096

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0049	-.0004	.0073	-.1625	-.0010	-.0092	-.0008
SDev	.0068	.0002	.0066	.0416	.0004	.0059	.0000

%RSD	138.3	53.19	89.79	25.60	44.84	63.96	4.158
#1	.0018	-.0003	.0009	-.1150	-.0005	-.0134	-.0009
#2	-.0118	-.0002	.0070	-.1800	-.0011	-.0025	-.0008
#3	-.0048	-.0006	.0141	-.1925	-.0013	-.0116	-.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	.0001
SDev	.0003	.0008
%RSD	222.3	647.5
#1	.0001	.0003
#2	-.0004	.0008
#3	-.0001	-.0008

Analysis Report Mon 09-11-95 04:05:53 PM page

Method: ICP1 Sample Name: 95-007947-C1 @5 Operator: DRS
Run Time: 09/11/95 16:04:34
Comment: SLUDGE SAMPLE @5X DILTE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0015	9.356	.0270	.0328	-.0001	-.0001	.0045
SDev	.0012	.066	.0097	.0027	.0002	.0000	.0041
%RSD	82.78	.7092	35.86	8.109	230.1	20.39	89.88
#1	-.0011	9.307	.0162	.0309	-.0001	-.0001	.0025
#2	-.0004	9.328	.0348	.0317	.0001	-.0001	.0019
#3	-.0028	9.431	.0299	.0358	-.0002	-.0001	.0092

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2047	-.0002	-.0053	.0224	.0499	-.0031	-.0011
SDev	.0006	.0006	.0075	.0001	.0011	.0004	.0007
%RSD	.2768	412.6	141.0	.6602	2.300	11.49	67.99
#1	.2044	-.0009	.0011	.0224	.0511	-.0030	-.0007
#2	.2054	.0002	-.0035	.0225	.0497	-.0029	-.0007
#3	.2044	.0002	-.0135	.0222	.0488	-.0035	-.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.8236	1.832	-.0012	-.0003	.0090	.0009
SDev	.0002	.0042	.126	.0009	.0004	.0018	.0002
%RSD	40.84	.5126	6.860	75.00	157.6	20.16	16.56
#1	-.0004	.8194	1.941	-.0006	.0002	.0103	.0008
#2	-.0002	.8234	1.859	-.0008	-.0005	.0099	.0011
#3	-.0005	.8279	1.695	-.0023	-.0005	.0069	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0042	266.1	-.0055	1.917	38.40	-.0114	-.0227
SDev	.0011	2.0	.0041	.008	.23	.0112	.0148
%RSD	25.65	.7494	75.83	.3949	.5990	97.51	65.21
#1	.0051	266.1	-.0021	1.909	38.18	-.0077	-.0175
#2	.0045	264.0	-.0042	1.925	38.36	-.0027	-.0111
#3	.0030	268.0	-.0101	1.918	38.64	-.0240	-.0393

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0054	-.0102	.0046	.0714	-.0598	.0052	-.0056
SDev	.0070	.0020	.0070	.0086	.0116	.0001	.0059
%RSD	129.8	19.98	152.3	12.05	19.33	1.205	104.3
#1	.0000	-.0081	.0117	.0783	-.0586	.0052	-.0006
#2	-.0029	-.0122	.0041	.0742	-.0489	.0052	-.0043
#3	-.0132	-.0102	-.0021	.0618	-.0720	.0051	-.0121

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0042	-.0003	.0218	-.0309	.0001	.0107	-.0007
SDev	.0031	.0003	.0066	.0525	.0010	.0032	.0004

%RSD	74.02	84.39	30.05	170.2	866.2	29.96	62.60
#1	-.0008	-.0000	.0206	.0153	.0002	.0106	-.0006
#2	-.0049	-.0004	.0159	-.0199	.0011	.0076	-.0003
#3	-.0069	-.0006	.0288	-.0880	-.0009	.0140	-.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0032	.0008
SDev	.0004	.0010
%RSD	12.84	116.2
#1	.0037	.0014
#2	.0030	.0014
#3	.0029	-.0003

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Method: ICP1 Sample Name: 95-007947-C1 Operator: DRS
Run Time: 09/11/95 16:08:07
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	46.05	.1937	.2051	.0007	.0000	.0276
SDev	.0015	.25	.0039	.0015	.0003	.0000	.0094
%RSD	1579.	.5343	2.028	.7283	50.66	88.93	33.98
#1	.0004	46.12	.1893	.2066	.0007	.0000	.0348
#2	.0011	45.77	.1967	.2053	.0011	.0000	.0309
#3	-.0017	46.25	.1953	.2036	.0003	.0000	.0170

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4154	.0004	.0070	.1152	.2539	.0063	.0011
SDev	.0312	.0010	.0072	.0008	.0017	.0007	.0011
%RSD	7.521	234.4	101.6	.7147	.6774	11.46	104.8
#1	.4001	.0015	.0115	.1161	.2525	.0072	.0013
#2	.4513	.0005	.0108	.1148	.2535	.0058	.0021
#3	.3948	-.0006	-.0012	.1146	.2558	.0060	-.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	3.825	9.652	.0020	.0031	.0448	.0036
SDev	.0002	.010	.138	.0015	.0018	.0086	.0004
%RSD	39.29	.2688	1.430	77.51	56.79	19.30	11.99
#1	.0006	3.817	9.740	.0022	.0047	.0427	.0036
#2	.0007	3.837	9.724	.0034	.0033	.0543	.0041
#3	.0003	3.821	9.493	.0004	.0012	.0374	.0032

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0353	1218.	.0065	9.435	198.3	.0115	.0021
SDev	.0011	8.	.0029	.045	.9	.0069	.0246
%RSD	3.091	.6286	44.84	.4821	.4495	60.71	1149.
#1	.0349	1220.	.0082	9.438	198.4	.0115	.0048
#2	.0365	1210.	.0081	9.388	197.3	.0184	.0253
#3	.0344	1224.	.0031	9.479	199.1	.0045	-.0237

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0312	.0133	.0459	.3258	.0009	.0146	.0568
SDev	.0093	.0082	.0019	.0032	.0223	.0010	.0061
%RSD	29.78	61.49	4.127	.9692	2520.	6.534	10.71
#1	.0310	.0227	.0474	.3288	.0097	.0141	.0638
#2	.0406	.0089	.0464	.3225	.0174	.0157	.0542
#3	.0220	.0083	.0437	.3260	-.0244	.0140	.0525

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0089	.0007	.1676	.4790	.0052	.0907	.0001
SDev	.0046	.0006	.0084	.1217	.0007	.0098	.0004

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SD	51.77	81.14	5.031	25.40	12.70	10.77	309.6
#1	.0122	.0007	.1722	.4344	.0056	.0882	.0000
#2	.0036	.0012	.1728	.6167	.0055	.1014	.0006
#3	.0107	.0001	.1579	.3859	.0044	.0824	-.0002

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0001	.0004
SDev	.0006	.0011
%RSD	453.8	255.8
#1	.0003	.0007
#2	.0006	.0014
#3	-.0005	-.0008

Analysis Report Mon 09-11-95 04:13:08 PM page

Method: ICP1 Sample Name: 95-007947-C2 @5 Operator: DRS
Run Time: 09/11/95 16:11:49
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0027	10.69	.0227	.0377	.0001	-.0001	.0031
SDev	.0004	.02	.0084	.0011	.0001	.0000	.0054
%RSD	13.39	.1406	37.19	2.913	99.06	1.270	176.7
#1	-.0030	10.70	.0195	.0378	.0002	-.0001	-.0020
#2	-.0023	10.69	.0323	.0366	.0001	-.0001	.0024
#3	-.0029	10.67	.0163	.0387	.0000	-.0001	.0089

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3027	.0007	-.0155	.0249	.0567	-.0035	-.0018
SDev	.0016	.0012	.0045	.0003	.0014	.0005	.0002
%RSD	.5243	160.8	28.74	1.008	2.464	14.50	9.155
#1	.3039	-.0006	-.0162	.0247	.0562	-.0032	-.0019
#2	.3033	.0011	-.0196	.0252	.0557	-.0032	-.0017
#3	.3009	.0017	-.0107	.0247	.0583	-.0040	-.0020

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	1.017	1.821	-.0031	-.0006	.0124	.0020
SDev	.0000	.003	.091	.0011	.0005	.0030	.0002
%RSD	1.505	.3095	4.977	36.62	87.01	24.46	11.23
#1	-.0005	1.020	1.728	-.0043	-.0005	.0090	.0022
#2	-.0005	1.018	1.826	-.0024	-.0001	.0148	.0022
#3	-.0005	1.014	1.909	-.0024	-.0012	.0135	.0018

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	304.9	-.0112	1.682	48.54	-.0166	-.0423
SDev	.0005	.5	.0031	.007	.01	.0024	.0017
%RSD	11.12	.1516	27.63	.3959	.0298	14.49	4.101
#1	.0048	304.4	-.0122	1.685	48.55	-.0153	-.0403
#2	.0043	305.1	-.0137	1.687	48.54	-.0151	-.0431
#3	.0038	305.3	-.0077	1.675	48.52	-.0193	-.0434

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0123	-.0092	.0071	.0443	-.0661	.0105	-.0038
SDev	.0019	.0060	.0043	.0028	.0190	.0000	.0102
%RSD	15.43	65.01	60.14	6.326	28.75	.0024	267.4
#1	-.0122	-.0156	.0046	.0422	-.0446	.0105	.0018
#2	-.0105	-.0084	.0047	.0474	-.0804	.0105	-.0156
#3	-.0143	-.0037	.0120	.0432	-.0734	.0105	.0023

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	-.0008	.0308	-.0805	-.0007	.0069	-.0010
SDev	.0026	.0003	.0047	.0056	.0003	.0076	.0002

%RSD	81.92	38.70	15.24	7.015	45.71	110.2	18.19
#1	.0003	-.0011	.0304	-.0775	-.0008	.0140	-.0012
#2	.0052	-.0006	.0357	-.0770	-.0003	.0079	-.0009
#3	.0040	-.0006	.0263	-.0870	-.0010	-.0011	-.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0025	-.0022
SDev	.0003	.0004
%RSD	10.54	19.36
#1	.0022	-.0017
#2	.0027	-.0023
#3	.0025	-.0025

Analysis Report Mon 09-11-95 04:18:06 PM page

Method: ICP1 Sample Name: 95-007947-C2 Operator: DRS
Run Time: 09/11/95 16:16:46
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	52.30	.1839	.2197	.0024	.0000	.0387
SDev	.0014	.66	.0129	.0044	.0002	.0000	.0046
%RSD	186.7	1.263	7.027	2.011	8.685	127.5	11.82
#1	-.0023	53.06	.1692	.2247	.0021	-.0000	.0434
#2	.0001	51.93	.1887	.2178	.0025	.0001	.0384
#3	.0000	51.91	.1937	.2165	.0025	.0000	.0342

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	-.0001	-.0019	.1259	.2765	.0068	-.0001
SDev	.059	.0017	.0070	.0010	.0030	.0014	.0011
%RSD	5.653	2295.	376.6	.8127	1.098	20.29	1522.
#1	1.103	.0017	-.0100	.1265	.2731	.0052	-.0014
#2	1.053	-.0003	.0022	.1264	.2788	.0075	.0008
#3	.9848	-.0016	.0022	.1247	.2777	.0077	.0003

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	4.717	11.47	.0004	.0014	.1030	.0095
SDev	.0004	.081	.02	.0035	.0004	.0051	.0003
%RSD	122.5	1.722	.1435	882.6	29.47	4.972	3.175
#1	-.0001	4.802	11.47	-.0036	.0011	.1087	.0097
#2	.0005	4.708	11.45	.0026	.0011	.1013	.0097
#3	.0005	4.640	11.48	.0022	.0018	.0989	.0091

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0379	1415.	.0020	8.064	247.5	.0272	-.0179
SDev	.0014	21.	.0065	.069	2.4	.0122	.0133
%RSD	3.601	1.514	324.7	.8514	.9546	44.73	74.30
#1	.0384	1440.	-.0054	8.140	250.2	.0136	-.0326
#2	.0364	1401.	.0044	8.047	246.5	.0310	-.0067
#3	.0390	1404.	.0069	8.006	245.8	.0371	-.0144

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0245	.0094	.0359	.3540	.0050	.0409	.0543
SDev	.0081	.0069	.0078	.0066	.0556	.0023	.0029
%RSD	32.87	73.18	21.76	1.854	1104.	5.647	5.260
#1	.0152	.0122	.0272	.3563	-.0590	.0432	.0510
#2	.0296	.0016	.0382	.3590	.0410	.0410	.0557
#3	.0288	.0144	.0423	.3466	.0332	.0386	.0562

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0144	.0006	.1570	.7448	.0053	.0879	-.0000
SDev	.0064	.0008	.0103	.0537	.0011	.0100	.0006

%RSD	44.22	131.5	6.555	7.210	20.57	11.43	2062.
#1	.0075	-.0002	.1505	.6986	.0041	.0897	-.0007
#2	.0201	.0013	.1688	.8037	.0061	.0771	.0001
#3	.0157	.0007	.1516	.7320	.0057	.0969	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0056	.0001
SDev	.0006	.0006
%RSD	10.88	516.6
#1	.0060	-.0004
#2	.0058	.0009
#3	.0049	-.0001

Analysis Report Mon 09-11-95 04:21:27 PM page

Method: ICP1 Sample Name: 95-007948-C1 @5 Operator: DRS
Run Time: 09/11/95 16:20:08
Comment: SLUDGE SAMPLE @5X DIL (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	8.714	.0156	.0331	.0000	-.0000	-.0014
SDev	.0007	.020	.0018	.0017	.0003	.0000	.0087
%RSD	35.31	.2342	11.68	5.096	616.5	53.72	638.0
#1	-.0026	8.736	.0177	.0317	-.0002	-.0001	-.0067
#2	-.0017	8.709	.0141	.0327	.0002	-.0000	.0087
#3	-.0014	8.697	.0151	.0350	.0001	-.0000	-.0060

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0724	-.0003	-.0102	.0226	.0762	-.0042	-.0011
SDev	.0021	.0012	.0014	.0005	.0030	.0000	.0002
%RSD	2.931	361.2	14.18	2.368	3.921	1.174	18.35
#1	.0699	.0011	-.0118	.0221	.0770	-.0041	-.0012
#2	.0737	-.0009	-.0094	.0231	.0787	-.0042	-.0012
#3	.0735	-.0011	-.0093	.0226	.0729	-.0042	-.0009

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.7048	1.678	-.0030	-.0004	.0102	.0013
SDev	.0002	.0025	.066	.0011	.0005	.0036	.0001
%RSD	60.20	.3484	3.922	36.63	149.5	35.10	11.31
#1	-.0005	.7051	1.612	-.0042	-.0005	.0071	.0014
#2	-.0002	.7071	1.678	-.0030	-.0008	.0093	.0011
#3	-.0002	.7022	1.744	-.0020	.0002	.0141	.0013

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	280.8	-.0081	1.317	49.87	-.0083	-.0271
SDev	.0006	2.9	.0009	.004	.15	.0040	.0146
%RSD	13.83	1.044	11.61	.3212	.2967	48.55	53.88
#1	.0035	284.0	-.0091	1.316	50.03	-.0059	-.0436
#2	.0046	278.2	-.0073	1.322	49.83	-.0130	-.0159
#3	.0041	280.2	-.0078	1.314	49.74	-.0061	-.0218

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0095	-.0069	-.0088	.0380	-.0610	.0065	.0036
SDev	.0042	.0019	.0051	.0041	.0068	.0000	.0014
%RSD	44.35	27.69	58.46	10.67	11.08	.0337	38.79
#1	-.0144	-.0047	-.0046	.0404	-.0688	.0065	.0028
#2	-.0072	-.0083	-.0145	.0404	-.0563	.0065	.0052
#3	-.0070	-.0076	-.0072	.0334	-.0579	.0065	.0028

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0024	-.0003	.0242	-.0211	.0001	.0179	-.0008
SDev	.0049	.0001	.0018	.0248	.0005	.0043	.0002

Analysis Report

%RSD	203.1	37.82	7.458	117.3	979.0	24.14	21.91
#1	.0031	-.0005	.0254	-.0483	-.0005	.0155	-.0009
#2	-.0065	-.0003	.0249	.0004	.0006	.0229	-.0009
#3	-.0038	-.0003	.0221	-.0156	.0001	.0153	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0009	-.0013
SDev	.0001	.0004
%RSD	15.86	33.14
#1	.0009	-.0017
#2	.0011	-.0009
#3	.0008	-.0012

Analysis Report Mon 09-11-95 04:25:22 PM page

Method: ICP1 Sample Name: 95-007948-C1 Operator: DRS
Run Time: 09/11/95 16:24:02
Comment: SLUDGE SAMPLE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	44.21	.1496	.2089	.0009	.0000	.0179
SDev	.0013	.33	.0071	.0021	.0003	.0001	.0064
%RSD	117.9	.7549	4.743	.9904	33.22	113.8	35.93
#1	.0002	43.83	.1575	.2066	.0013	.0001	.0244
#2	-.0025	44.42	.1437	.2094	.0008	.0000	.0115
#3	-.0010	44.40	.1476	.2106	.0007	.0000	.0177

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1966	.0006	-.0030	.1138	.3799	.0001	.0001
SDev	.0104	.0001	.0070	.0015	.0045	.0018	.0010
%RSD	5.279	21.51	230.7	1.307	1.183	1237.	1312.
#1	.1959	.0005	.0028	.1152	.3781	.0022	.0012
#2	.1865	.0007	-.0109	.1139	.3766	-.0007	-.0003
#3	.2073	.0007	-.0011	.1122	.3850	-.0011	-.0007

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	3.227	9.768	.0000	.0016	.0363	.0038
SDev	.0003	.022	.149	.0020	.0013	.0099	.0001
%RSD	139.9	.6731	1.528	5802.	78.40	27.21	3.773
#1	.0005	3.212	9.938	.0023	.0030	.0468	.0039
#2	-.0000	3.219	9.658	-.0008	.0013	.0271	.0037
#3	.0002	3.252	9.707	-.0014	.0006	.0351	.0040

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0301	1320.	.0025	6.522	261.6	.0062	-.0126
SDev	.0016	13.	.0076	.011	1.1	.0133	.0244
%RSD	5.251	.9622	296.4	.1737	.4064	213.7	193.5
#1	.0319	1306.	.0110	6.510	260.4	.0215	.0155
#2	.0295	1329.	.0002	6.533	262.0	-.0002	-.0261
#3	.0290	1326.	-.0035	6.524	262.4	-.0026	-.0272

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0199	.0019	.0273	.3483	-.0052	.0162	.0505
SDev	.0083	.0053	.0040	.0003	.0213	.0008	.0037
%RSD	41.79	279.1	14.73	.0929	412.4	4.617	7.412
#1	.0294	-.0012	.0253	.3487	.0183	.0159	.0520
#2	.0141	-.0011	.0247	.3483	-.0105	.0156	.0532
#3	.0162	.0081	.0319	.3480	-.0234	.0170	.0462

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	-.0000	.1421	.4966	.0049	.1121	-.0004
SDev	.0035	.0007	.0115	.1216	.0007	.0073	.0003

%RSD	36.98	3868.	8.064	24.49	13.89	6.534	77.13
#1	.0131	.0008	.1474	.6356	.0057	.1198	-.0000
#2	.0096	-.0004	.1290	.4447	.0046	.1053	-.0005
#3	.0060	-.0005	.1500	.4096	.0045	.1113	-.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0006	-.0010
SDev	.0008	.0008
%RSD	133.5	82.10
#1	-.0002	-.0001
#2	.0006	-.0018
#3	.0014	-.0011

Analysis Report Mon 09-11-95 04:29:04 PM page

Method: ICP1 Sample Name: 95-007948-C2 @5 Operator: DRS
Run Time: 09/11/95 16:27:45
Comment: SLUDGE SAMPLE DUPLICATE @5X DIL(BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	10.24	.0384	.0454	.0003	-.0000	.0042
SDev	.0004	.06	.0057	.0011	.0001	.0000	.0038
%RSD	11.02	.5834	14.98	2.388	49.05	63.90	90.06
#1	-.0031	10.18	.0448	.0465	.0004	-.0000	.0014
#2	-.0037	10.26	.0368	.0454	.0004	-.0001	.0027
#3	-.0038	10.29	.0336	.0443	.0001	-.0000	.0084

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2000	.0000	-.0186	.0244	.0861	-.0052	-.0026
SDev	.0009	.0013	.0048	.0005	.0031	.0010	.0006
%RSD	.4631	135800.	25.97	1.985	3.638	19.43	23.65
#1	.2010	-.0005	-.0142	.0249	.0887	-.0044	-.0019
#2	.1997	-.0011	-.0238	.0243	.0826	-.0063	-.0030
#3	.1992	.0015	-.0179	.0239	.0869	-.0049	-.0030

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.9510	1.854	-.0048	-.0016	.0372	.0028
SDev	.0003	.0032	.091	.0017	.0010	.0048	.0001
%RSD	39.67	.3354	4.888	36.08	61.07	12.85	2.272
#1	-.0004	.9480	1.958	-.0029	-.0022	.0427	.0028
#2	-.0009	.9544	1.793	-.0053	-.0005	.0338	.0027
#3	-.0009	.9505	1.810	-.0062	-.0022	.0352	.0027

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	446.2	-.0156	1.471	66.97	-.0156	-.0500
SDev	.0011	6.3	.0016	.007	.14	.0077	.0122
%RSD	34.35	1.416	11.36	.4957	.2162	49.55	24.37
#1	.0021	439.1	-.0144	1.470	66.87	-.0096	-.0361
#2	.0037	448.3	-.0148	1.465	66.90	-.0129	-.0589
#3	.0043	451.3	-.0176	1.479	67.13	-.0244	-.0550

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0191	-.0089	.0015	.0444	-.0915	.0093	.0022
SDev	.0078	.0072	.0035	.0030	.0187	.0001	.0039
%RSD	40.61	80.74	232.4	6.672	20.46	.6687	177.2
#1	-.0102	-.0073	.0004	.0476	-.0700	.0093	.0051
#2	-.0234	-.0026	.0055	.0440	-.1003	.0092	.0038
#3	-.0238	-.0167	-.0013	.0417	-.1043	.0092	-.0023

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0009	.0310	-.0147	-.0010	.0136	-.0014
SDev	.0029	.0003	.0040	.0584	.0007	.0045	.0001

%RSD	742.7	32.93	12.90	396.2	71.15	33.26	10.20
#1	-.0027	-.0006	.0272	.0504	-.0002	.0108	-.0013
#2	-.0013	-.0011	.0306	-.0324	-.0015	.0111	-.0015
#3	.0029	-.0010	.0351	-.0623	-.0013	.0188	-.0015

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0020	-.0025
SDev	.0007	.0009
%RSD	33.80	34.03
#1	.0018	-.0016
#2	.0028	-.0029
#3	.0014	-.0032

Analysis Report Mon 09-11-95 04:32:39 PM page

Method: ICP1 Sample Name: 95-007948-C2 Operator: DRS
Run Time: 09/11/95 16:31:20
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0042	48.15	.2878	.2489	-.0001	-.0001	.0083
SDev	.0017	.36	.0084	.0024	.0003	.0000	.0029
%RSD	41.02	.7486	2.914	.9431	222.2	62.05	34.13
#1	-.0052	48.21	.2877	.2506	-.0003	-.0001	.0056
#2	-.0052	48.47	.2963	.2463	-.0004	-.0001	.0082
#3	-.0022	47.76	.2795	.2500	.0002	-.0000	.0112

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2434	-.0015	-.0255	.1205	.4075	-.0016	-.0036
SDev	.0033	.0012	.0073	.0008	.0030	.0012	.0014
%RSD	1.351	75.29	28.45	.6492	.7297	77.10	38.22
#1	.2464	-.0023	-.0269	.1207	.4047	-.0019	-.0039
#2	.2399	-.0021	-.0319	.1196	.4072	-.0026	-.0048
#3	.2439	-.0002	-.0176	.1211	.4106	-.0002	-.0021

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	3.630	9.828	-.0058	-.0007	.0442	.0037
SDev	.0004	.011	.161	.0022	.0010	.0053	.0001
%RSD	48.90	.3083	1.643	37.47	138.6	11.88	1.675
#1	-.0008	3.631	9.921	-.0062	-.0001	.0457	.0037
#2	-.0011	3.641	9.641	-.0077	-.0019	.0384	.0036
#3	-.0004	3.618	9.921	-.0034	-.0001	.0486	.0037

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0327	1884.	-.0218	6.801	334.3	-.0025	-.0836
SDev	.0007	25.	.0106	.011	1.6	.0123	.0136
%RSD	2.033	1.302	48.59	.1677	.4656	489.7	16.22
#1	.0333	1896.	-.0265	6.791	334.1	-.0066	-.0865
#2	.0328	1900.	-.0292	6.813	336.0	-.0123	-.0956
#3	.0320	1856.	-.0097	6.798	332.9	.0113	-.0689

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	.0058	.0604	.3603	-.0882	.0110	.0658
SDev	.0110	.0179	.0176	.0019	.0417	.0002	.0052
%RSD	144.6	311.3	29.10	.5290	47.25	2.175	7.842
#1	-.0131	-.0129	.0699	.3581	-.0837	.0112	.0669
#2	-.0148	.0073	.0401	.3618	-.1319	.0110	.0601
#3	.0051	.0229	.0713	.3610	-.0489	.0108	.0703

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0115	-.0013	.1923	.7818	.0025	.1356	-.0021
SDev	.0059	.0005	.0027	.1217	.0010	.0062	.0006

%RSD	51.35	38.80	1.401	15.57	40.98	4.588	30.05
#1	.0110	-.0013	.1893	.7383	.0022	.1327	-.0025
#2	.0059	-.0017	.1944	.6878	.0017	.1313	-.0025
#3	.0177	-.0007	.1933	.9193	.0037	.1427	-.0014

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0023	-.0044
SDev	.0005	.0008
%RSD	22.59	18.22
#1	.0017	-.0042
#2	.0026	-.0052
#3	.0025	-.0037

Analysis Report QC Standard Mon 09-11-95 04:46:59 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 16:45:40
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

FAIL 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.4448	22.72	2.391	Q1.795	.4621	Q.0859	Q22.22
SDev	.0217	1.58	.115	.113	.0338	.0053	1.33
%RSD	4.882	6.950	4.807	6.307	7.320	6.114	5.975
#1	.4580	23.65	2.463	1.863	.4829	Q.0890	23.07
#2	.4567	23.60	2.451	1.858	.4804	Q.0888	22.90
#3	Q.4198	Q20.89	2.258	Q1.665	Q.4231	Q.0798	Q20.69
Errors	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.61	Q.4462	-.0021	.9354	.9311	.9197	.0045
SDev	1.12	.0223	.0421	.0469	.0467	.0641	.0052
%RSD	4.962	4.991	1977.	5.017	5.016	6.966	115.5
#1	23.27	.4574	-.0263	.9632	.9652	.9607	.0011
#2	23.25	.4606	-.0265	.9618	.9503	.9526	.0019
#3	Q21.32	Q.4205	.0465	Q.8812	Q.8779	Q.8459	.0105
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	18.44	26.55	.0112	1.858	24.12	.4617
SDev	.0015	1.08	1.97	.0086	.193	1.40	.0250
%RSD	51.42	5.876	7.415	77.25	10.39	5.792	5.418
#1	.0019	19.09	Q27.54	.0061	1.973	24.93	.4769
#2	.0021	19.04	Q27.84	.0063	1.966	24.92	.4753
#3	.0046	Q17.19	24.29	.0212	Q1.635	22.50	Q.4328
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9345	25.03	.0322	.9695	.0581	2.393	.0424
SDev	.0511	2.61	.0329	.0512	.0413	.084	.0920
%RSD	5.469	10.44	101.9	5.285	71.10	3.510	217.1
#1	.9645	26.60	.0133	.9934	.0634	2.442	-.0146
#2	.9634	26.48	.0133	1.005	.0144	2.442	-.0067
#3	Q.8755	Q22.01	.0702	.9107	.0965	2.296	.1484
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0316	2.345	2.288	Q17.46	.0484	.4680	.0152
SDev	.0423	.120	.144	1.03	.1292	.0336	.0265
%RSD	134.0	5.117	6.315	5.885	267.0	7.188	174.7
#1	.0068	2.403	2.367	18.06	-.0394	.4884	-.0045
#2	.0075	2.424	2.376	18.04	-.0121	.4865	.0047
#3	.0804	Q2.207	Q2.121	Q16.27	.1967	Q.4292	.0453
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0432	.9051	2.308	.4670	.9147	.0453	.0019
SDev	.0042	.0568	.126	.5081	.0528	.0170	.0020
%RSD	9.652	6.278	5.478	108.8	5.769	37.46	108.5
#1	.0389	.9399	2.376	.1455	.9465	.0371	.0006
#2	.0473	.9359	2.386	.2027	.9438	.0340	.0008
#3	.0434	Q.8395	Q2.162	1.053	Q.8538	.0648	.0042
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9450	1.861
SDev	.0477	.115
%RSD	5.050	6.177
#1	.9725	1.931
#2	.9725	1.924
#3	Q.8899	Q1.729
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 04:52:30 PM page

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/11/95 16:51:11
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Fail, Bi
DRS
9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4519	22.77	2.434	1.804	.4612	Q.0867	Q22.45
SDev	.0234	1.67	.145	.128	.0358	.0058	1.50
%RSD	5.184	7.334	5.948	7.100	7.767	6.706	6.660
#1	.4717	24.21	2.551	1.911	.4917	.0917	23.75
#2	.4581	23.18	2.479	1.838	.4701	Q.0882	22.79
#3	Q.4260	Q20.94	2.272	Q1.662	Q.4217	Q.0803	Q20.82
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.06	.4592	.0248	.9550	.9499	.9180	.0082
SDev	1.28	.0244	.0339	.0531	.0586	.0660	.0047
%RSD	5.569	5.306	136.6	5.565	6.170	7.185	57.83
#1	24.16	.4810	.0004	1.000	1.003	.9743	.0043
#2	23.36	.4638	.0105	.9682	.9598	.9344	.0068
#3	Q21.65	Q.4329	.0636	Q.8965	Q.8870	Q.8454	.0135
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	18.68	26.28	.0175	1.803	24.42	.4682
SDev	.0013	1.20	1.89	.0086	.187	1.54	.0293
%RSD	32.64	6.401	7.186	49.15	10.38	6.315	6.246
#1	.0030	19.70	Q27.98	.0105	1.966	25.76	.4935
#2	.0038	18.96	26.63	.0149	1.845	24.78	.4749
#3	.0056	Q17.36	24.25	.0271	Q1.598	22.73	Q.4362
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9465	24.25	.0571	.9861	.0815	2.465	.1175
SDev	.0531	2.49	.0293	.0463	.0110	.113	.0879
%RSD	5.613	10.26	51.21	4.693	13.52	4.597	74.82
#1	.9920	26.40	.0364	1.027	.0688	2.561	.0434
#2	.9593	24.82	.0444	.9951	.0887	2.494	.0944
#3	Q.8881	Q21.52	.0906	.9359	.0871	2.340	.2145
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0632	2.375	2.313	Q17.67	.1220	.4682	.0205
SDev	.0384	.144	.142	1.12	.1152	.0361	.0178
%RSD	60.74	6.071	6.141	6.355	94.45	7.704	86.74
#1	.0338	2.494	2.439	18.64	.0379	.4987	.0068
#2	.0492	2.416	2.341	Q17.94	.0747	.4775	.0141
#3	.1067	Q2.214	Q2.159	Q16.44	.2533	Q.4284	.0406
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0452	.9120	2.337	.8363	.9262	.0445	.0035
SDev	.0037	.0628	.138	.5145	.0578	.0131	.0016
%RSD	8.086	6.884	5.901	61.53	6.240	29.37	46.49
#1	.0494	.9656	2.464	.4241	.9756	.0339	.0023
#2	.0432	.9274	2.356	.6718	.9405	.0404	.0028
#3	.0430	Q.8429	Q2.191	1.413	Q.8626	.0591	.0053
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	.9634	1.879
SDev	.0612	.125
%RSD	6.349	6.656
#1	1.017	1.986
#2	.9760	1.909
#3	Q.8969	Q1.741
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Mon 09-11-95 04:54:15 PM Page

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/11/95 16:52:56
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PKS 9/11/95 DRB

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4720	24.03	2.544	1.902	.4887	.0910	23.52
SDev	.0048	.29	.018	.015	.0062	.0010	.26
%RSD	1.013	1.188	.7172	.7825	1.261	1.083	1.117
#1	.4756	24.31	2.555	1.912	.4942	.0917	23.73
#2	.4738	24.05	2.555	1.910	.4898	.0914	23.61
#3	.4666	23.74	2.523	1.885	.4820	Q.0899	23.23
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.00	.4734	.0149	.9931	.9878	.9762	.0044
SDev	.24	.0022	.0070	.0113	.0062	.0135	.0010
%RSD	.9976	.4583	46.80	1.137	.6242	1.388	22.38
#1	24.15	.4758	.0073	1.000	.9858	.9871	.0033
#2	24.13	.4728	.0165	.9987	.9947	.9804	.0047
#3	23.72	.4716	.0211	.9801	.9829	.9610	.0051
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	19.56	27.45	.0115	1.938	25.57	.4901
SDev	.0003	.22	.76	.0008	.047	.29	.0059
%RSD	8.184	1.114	2.755	7.118	2.415	1.121	1.200
#1	.0029	19.71	Q28.32	.0113	1.992	25.77	.4934
#2	.0034	19.67	27.07	.0109	1.910	25.69	.4935
#3	.0031	19.31	26.96	.0125	1.911	25.24	.4833
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9937	26.06	.0326	1.031	.0615	2.536	.0420
SDev	.0091	.72	.0049	.014	.0027	.028	.0139
%RSD	.9153	2.750	15.15	1.355	4.411	1.092	33.16
#1	.9983	26.88	.0282	1.037	.0645	2.548	.0299
#2	.9995	25.73	.0316	1.041	.0594	2.555	.0390
#3	.9832	25.57	.0379	1.015	.0605	2.504	.0573
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0272	2.494	2.422	18.50	.0347	.4963	.0077
SDev	.0076	.022	.035	.18	.0193	.0058	.0049
%RSD	28.03	.8997	1.458	.9875	55.48	1.165	63.54
#1	.0190	2.492	2.417	18.65	.0127	.5013	.0021
#2	.0285	2.517	2.459	18.55	.0432	.4977	.0108
#3	.0340	2.472	2.389	18.30	.0483	.4900	.0103
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0474	.9600	2.440	.4541	.9717	.0390	.0018
SDev	.0083	.0114	.035	.0666	.0103	.0070	.0002
%RSD	17.43	1.184	1.429	14.67	1.065	17.99	8.724
#1	.0478	.9678	2.474	.4088	.9793	.0415	.0017
#2	.0555	.9652	2.443	.4228	.9759	.0445	.0020
#3	.0390	.9470	2.404	.5306	.9599	.0311	.0019
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.004	1.974
SDev	.014	.019
%RSD	1.436	.9623
#1	1.018	1.989
#2	1.005	1.981
#3	.9893	1.953
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

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Method: ICP1 Sample Name: SST-ICS-0 950908I100 Operator: DRS
Run Time: 09/11/95 16:57:00
Comment: SLUDGE SAMPLE DUPLICATE (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0111	97.29	.1270	-.0017	.0004	.0006	.0637
SDev	.0007	.47	.0047	.0017	.0002	.0000	.0090
%RSD	5.914	.4796	3.717	102.6	54.01	2.954	14.14
#1	-.0117	97.78	.1225	-.0025	.0003	.0006	.0729
#2	-.0104	97.23	.1319	-.0028	.0003	.0007	.0632
#3	-.0113	96.85	.1265	.0003	.0006	.0006	.0549

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0755	.0099	-.1433	.0053	.0389	.0056	-.0017
SDev	.0013	.0010	.0038	.0003	.0018	.0024	.0006
%RSD	1.751	10.36	2.634	6.328	4.637	43.12	33.42
#1	.0765	.0097	-.1433	.0049	.0392	.0081	-.0021
#2	.0740	.0090	-.1470	.0055	.0369	.0055	-.0010
#3	.0760	.0111	-.1395	.0054	.0405	.0033	-.0018

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	19.70	.3998	.0052	.0046	.2845	.0013
SDev	.0001	.04	.1069	.0014	.0007	.0007	.0004
%RSD	13.64	.2142	26.74	27.59	15.05	.2557	30.10
#1	.0009	19.74	.2903	.0042	.0039	.2845	.0009
#2	.0012	19.70	.4053	.0045	.0046	.2837	.0016
#3	.0012	19.65	.5039	.0068	.0053	.2852	.0013

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0095	.0235	-.0125	51.65	.0220	.1885	-.4577
SDev	.0005	.0085	.0043	.07	.0064	.0072	.0106
%RSD	5.686	36.03	34.47	.1302	28.93	3.814	2.315
#1	.0097	.0302	-.0169	51.72	.0171	.1803	-.4625
#2	.0089	.0263	-.0123	51.64	.0292	.1933	-.4649
#3	.0099	.0140	-.0083	51.59	.0197	.1920	-.4455

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0299	-.0033	.0163	.0407	.0613	-.0002	-.0008
SDev	.0018	.0043	.0095	.0095	.0279	.0001	.0074
%RSD	6.054	130.4	57.87	23.22	45.54	31.77	953.1
#1	-.0303	-.0083	.0112	.0359	.0350	-.0002	-.0041
#2	-.0314	-.0006	.0106	.0516	.0906	-.0001	-.0059
#3	-.0279	-.0010	.0273	.0346	.0584	-.0002	.0077

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7401	.0014	.2147	50.74	.0035	.0530	.0046
SDev	.0096	.0001	.0036	.18	.0005	.0086	.0001

%RSD	1.298	10.17	1.689	.3461	14.09	16.14	2.039
#1	.7319	.0015	.2127	50.92	.0030	.0442	.0045
#2	.7507	.0012	.2125	50.73	.0037	.0535	.0046
#3	.7378	.0015	.2189	50.57	.0040	.0613	.0046

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0288	9.931
SDev	.0012	.032
%RSD	4.262	.3192
#1	-.0299	9.960
#2	-.0275	9.935
#3	-.0290	9.897

Analysis Report QC Standard Mon 09-11-95 05:01:39 PM page

Method: ICP1 Sample Name: MCVB 950911H901 Operator: DRS
Run Time: 09/11/95 17:00:19
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

PASS DW 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	-.1563	.0117	.0022	.0006	.0003	.0045
SDev	.0004	.0018	.0062	.0015	.0001	.0000	.0008
%RSD	14.40	1.147	52.87	68.55	10.97	1.833	18.26
#1	.0026	-.1575	.0054	.0032	.0007	.0003	.0048
#2	.0029	-.1542	.0120	.0031	.0005	.0003	.0036
#3	.0035	-.1571	.0178	.0005	.0007	.0003	.0051
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0197	-.0001	2.003	.0038	.0011	.0036	2.009
SDev	.0011	.0001	.003	.0004	.0018	.0016	.003
%RSD	5.717	72.34	.1605	10.21	158.8	44.88	.1386
#1	.0184	-.0000	2.005	.0043	-.0009	.0055	2.011
#2	.0199	-.0002	1.999	.0035	.0017	.0027	2.009
#3	.0207	-.0002	2.005	.0037	.0025	.0027	2.006
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.992	.0064	.4382	2.012	.0027	.0991	.0005
SDev	.002	.0007	.0657	.002	.0009	.0057	.0003
%RSD	.1154	11.45	15.00	.1191	32.89	5.739	52.39
#1	1.993	.0065	.3724	2.010	.0018	.1046	.0007
#2	1.993	.0071	.4382	2.012	.0036	.0995	.0002
#3	1.989	.0056	.5039	2.014	.0025	.0932	.0005
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0155	1.991	.0247	.0048	.0556	2.027
SDev	.0002	.0121	.001	.0023	.0112	.0052	.012
%RSD	19.73	78.26	.0678	9.290	234.6	9.424	.5933
#1	.0010	.0225	1.991	.0258	.0088	.0557	2.026
#2	.0007	.0015	1.992	.0262	-.0079	.0504	2.039
#3	.0011	.0226	1.989	.0220	.0135	.0609	2.015
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.984	.0030	.0067	.0612	2.054	.0003	1.803
SDev	.004	.0083	.0066	.0033	.020	.0001	.010
%RSD	.2187	275.3	98.46	5.450	.9610	26.72	.5579
#1	1.984	-.0065	.0021	.0574	2.067	.0002	1.811
#2	1.988	.0069	.0037	.0624	2.032	.0002	1.805
#3	1.979	.0086	.0143	.0637	2.064	.0003	Q1.792
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.033	.0012	.0166	Q8.540	.0000	Q.4896	.9697
SDev	.012	.0003	.0113	.066	.0004	.0045	.0001
%RSD	.2423	22.80	68.39	.7754	909.8	.9280	.0149
#1	5.028	.0012	.0039	Q8.608	-.0004	Q.4905	.9699
#2	5.023	.0010	.0202	Q8.536	.0001	Q.4936	.9696
#3	5.046	.0015	.0256	Q8.476	.0004	Q.4847	.9697
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0016	-.0123
SDev	.0005	.0020
%RSD	29.08	15.89
#1	.0018	-.0115
#2	.0020	-.0109
#3	.0011	-.0145
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/11/95 17:03:46
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.0015	Q.1051	Q.0776	Q.1120	.0490	.0219	.0186
SDev	.0005	.0024	.0037	.0015	.0001	.0001	.0034
%RSD	33.94	2.252	4.815	1.316	.1417	.2648	18.43
#1	Q.0017	Q.1044	Q.0750	Q.1106	.0490	.0220	.0195
#2	Q.0009	Q.1077	Q.0760	Q.1135	.0491	.0219	.0148
#3	.0019	Q.1032	.0819	Q.1118	.0490	.0218	.0215
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q34.84	.0130	.0072	Q.0258	Q.0200	.0200	.0006
SDev	.04	.0005	.0024	.0010	.0017	.0011	.0004
%RSD	.1252	3.569	33.34	3.860	8.396	5.559	60.14
#1	Q34.89	Q.0133	.0044	Q.0254	Q.0181	.0212	.0004
#2	Q34.83	.0125	.0084	Q.0251	Q.0211	Q.0189	.0004
#3	Q34.81	Q.0133	.0088	Q.0270	Q.0208	.0200	.0010
Errors	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Pass	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	Q.1174	2.503	.0081	Q.0135	Q9.808	.0345
SDev	.0002	.0003	.119	.0004	.0002	.015	.0001
%RSD	13.75	.2816	4.749	4.937	1.455	.1508	.4080
#1	.0012	Q.1173	2.426	.0081	Q.0136	Q9.821	.0346
#2	.0012	Q.1178	2.443	.0085	Q.0136	Q9.810	.0344
#3	.0015	Q.1171	Q2.640	.0077	Q.0133	Q9.792	.0345
Errors	NOCHECK	QC Fail	QC Pass	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1037	12.48	.0157	.0672	.0255	.0356	.0070
SDev	.0008	.07	.0027	.0024	.0166	.0024	.0050
%RSD	.7344	.5752	16.82	3.506	65.29	6.764	71.60
#1	.1043	12.44	.0138	Q.0690	.0091	Q.0329	.0055
#2	.1028	Q12.56	.0147	.0645	.0250	Q.0367	.0029
#3	.1039	12.44	.0188	Q.0680	.0423	Q.0374	.0125
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0065	.0006	Q.0077	.0258	-.0041	.2614	.0009
SDev	.0017	.0014	.0035	.0024	.0124	.0009	.0027
%RSD	26.35	250.9	44.63	9.191	305.1	.3337	295.7
#1	.0048	.0002	Q.0038	.0283	.0021	.2622	.0038
#2	.0082	-.0007	Q.0103	.0237	-.0184	.2615	-.0016
#3	.0066	.0022	Q.0091	.0254	.0040	Q.2605	.0005
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0038	.0081	Q.0248	.2896	.0291	.0124	-.0011
SDev	.0042	.0005	.0048	.0403	.0006	.0080	.0002
%RSD	109.4	6.067	19.48	13.93	1.976	64.49	17.95
#1	-.0072	.0075	Q.0280	.2631	Q.0284	.0033	-.0009
#2	-.0051	.0082	Q.0192	.2696	.0295	.0155	-.0012
#3	.0009	.0085	Q.0271	.3360	.0293	.0184	-.0012
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0862	.0005
SDev	.0022	.0003
%RSD	2.519	62.14
#1	Q.0883	.0007
#2	Q.0864	.0001
#3	Q.0840	.0006
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Mon 09-11-95 05:08:20 PM page 1

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/11/95 17:07:02
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	1.880	2.021	1.900	.9809	.9586	1.888
SDev	.0000	.004	.004	.007	.0040	.0036	.011
%RSD	.6030	.2316	.1843	.3502	.4050	.3713	.5994
#1	.0035	1.875	2.021	1.907	.9838	.9623	1.898
#2	.0035	1.880	2.017	1.894	.9764	.9552	1.875
#3	.0035	1.884	2.025	1.899	.9826	.9584	1.890

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.911	.9658	.0299	1.027	.5088	1.996	.0037
SDev	.004	.0057	.0014	.003	.0015	.008	.0007
%RSD	.2027	.5932	4.827	.2799	.2884	.3905	17.88
#1	1.913	.9644	.0314	1.031	.5099	1.998	.0032
#2	1.906	.9721	.0299	1.026	.5071	1.987	.0045
#3	1.913	.9609	.0285	1.026	.5094	2.002	.0036

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	1.980	5.729	.0081	1.908	2.071	.9999
SDev	.0000	.009	.114	.0006	.016	.001	.0032
%RSD	1.757	.4611	1.987	6.886	.8587	.0589	.3179
#1	.0017	1.989	5.597	.0076	1.894	2.072	1.003
#2	.0016	1.971	5.795	.0087	1.903	2.070	.9964
#3	.0016	1.979	5.795	.0079	1.926	2.072	1.001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.971	8.241	.0262	2.090	4.707	2.050	.0624
SDev	.007	.110	.0026	.013	.042	.005	.0105
%RSD	.3543	1.329	9.769	.6229	.8941	.2308	16.83
#1	1.973	8.131	.0234	2.091	4.753	2.046	.0517
#2	1.963	8.244	.0267	2.077	4.670	2.049	.0727
#3	1.976	8.350	.0285	2.103	4.698	2.055	.0630

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0320	.0081	1.941	4.913	.0982	1.998	-.0027
SDev	.0021	.0100	.013	.009	.0211	.008	.0022
%RSD	6.585	123.6	.6757	.1883	21.52	.3824	79.55
#1	.0299	-.0029	1.938	4.911	.0757	2.004	-.0050
#2	.0341	.0104	1.929	4.904	.1177	1.990	-.0026
#3	.0322	.0166	1.955	4.923	.1011	2.001	-.0006

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0107	.0016	1.947	.4248	.9632	.0173	.0019
SDev	.0074	.0001	.015	.0702	.0036	.0081	.0000

%RSD	69.14	9.437	.7751	16.53	.3728	46.69	1.938
#1	.0132	.0016	1.932	.3834	.9660	.0265	.0019
#2	.0024	.0018	1.946	.5059	.9592	.0142	.0019
#3	.0165	.0015	1.962	.3851	.9644	.0113	.0019

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.034	.0019
SDev	.006	.0006
%RSD	.5599	34.50
#1	1.038	.0014
#2	1.027	.0026
#3	1.037	.0017

Analysis Report Mon 09-11-95 05:11:51 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/11/95 17:10:32
Comment: SLUDGE SAMPLES (BY-108 WATER LEACH)K.SILVERS
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0050	.0041	.0001	.0005	.0001	-.0007
SDev	.0000	.0022	.0019	.0003	.0002	.0000	.0015
%RSD	.6917	45.20	46.95	381.1	38.38	6.773	213.8
#1	.0022	.0029	.0023	.0004	.0004	.0001	.0010
#2	.0021	.0074	.0039	-.0002	.0007	.0001	-.0015
#3	.0021	.0046	.0061	-.0000	.0003	.0001	-.0017

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0011	.0132	.0020	.0001	.0023	.0021
SDev	.0009	.0003	.0036	.0007	.0010	.0001	.0006
%RSD	44.25	26.58	27.37	32.85	987.8	4.955	27.24
#1	.0011	-.0012	.0143	.0016	.0002	.0024	.0022
#2	.0028	-.0008	.0162	.0028	.0010	.0024	.0026
#3	.0022	-.0014	.0092	.0017	-.0010	.0022	.0015

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0007	.3505	.0034	.0012	.0104	.0001
SDev	.0002	.0005	.0934	.0013	.0007	.0032	.0001
%RSD	22.75	61.79	26.65	39.06	60.11	30.65	245.9
#1	.0005	-.0003	.3231	.0024	.0012	.0095	-.0001
#2	.0008	-.0006	.4546	.0049	.0018	.0141	.0001
#3	.0007	-.0013	.2738	.0029	.0005	.0086	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	.0151	.0122	.0075	.0006	.0126	.0305
SDev	.0007	.0105	.0044	.0020	.0066	.0043	.0110
%RSD	36.68	69.73	36.06	26.17	1062.	33.86	36.00
#1	.0011	.0164	.0090	.0052	.0065	.0077	.0266
#2	.0019	.0248	.0172	.0087	-.0065	.0154	.0429
#3	.0024	.0039	.0103	.0085	.0019	.0148	.0220

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0169	.0050	-.0058	-.0010	.0373	.0004	.0050
SDev	.0045	.0098	.0054	.0032	.0096	.0001	.0089
%RSD	26.65	197.5	94.38	314.0	25.66	15.62	176.8
#1	.0134	-.0031	-.0106	-.0026	.0265	.0004	.0081
#2	.0220	.0159	.0001	.0026	.0407	.0005	.0120
#3	.0153	.0022	-.0068	-.0030	.0446	.0004	-.0050

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	.0006	.0030	.2015	.0014	.0070	.0009
SDev	.0022	.0001	.0079	.0574	.0006	.0092	.0000

%RSD	62.73	20.03	261.9	28.48	47.10	132.4	3.910
#1	.0018	.0005	.0108	.2229	.0009	.0156	.0009
#2	.0028	.0007	.0034	.2451	.0021	-.0028	.0009
#3	.0061	.0006	-.0051	.1365	.0011	.0081	.0009

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	.0011
SDev	.0001	.0006
%RSD	22.34	50.18
#1	.0004	.0007
#2	.0004	.0018
#3	.0003	.0009

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Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 [KOH ICP ANALYSIS] [SEC 9 OF 12]

Pages: 297

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 9 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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KOH FUSION HOMOGENIZATION CHECK ICP ANALYSIS

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PROCEDURE: PNL-ALO-211 ICP ANALYSIS REPORT -- Homogenization Test Analyzed Date: 09/01/95
M&TE: JA ICP WB73520 File: m090195b
Project: TWRS
Report Page 1 of 1

Samp Log#:	95-07946-H-1T Sam	95-07946-H-2T Dup			95-07946-H-1B Sam	95-07946-H-2B Dup			95-07946-HCB Batch Blk		**Calculated**	
ICP Dil:	2.00	2.00			2.00	2.00			2.00			
Dil Fctr:	1996.0	2016.1			1792.1	2089.9			1967.1			
Run Time:	13:14	13:18			13:22	13:26			13:06			
Analyte	Top ug/g	Top-Dup ug/g	RPD	20% Flag	Bottom ug/g	Bot-Dup ug/g	RPD	20% Flag	Blank ug/g		IDL ug/mL	MDL ug/mL
Ag	ND	ND			ND	ND			ND		0.015	0.1500
Al	13,405	10,948	20%	*	11,113	11,594	4%		(1,013)		0.060	0.6000
As	(231)	(205)			(202)	(186)			(158)		0.080	0.8000
B	(275)	(307)			(235)	(318)			(226)		0.020	0.2000
Ba	630	467	30%	*	557	555	0%		ND		0.010	0.1000
Be	ND	ND			ND	ND			ND		0.005	0.0500
Bi	3,120	2,458	24%	*	2,697	2,753	2%		ND		0.100	1.0000
Ca	12,280	9,029	31%	*	10,657	11,329	6%		(366)		0.050	0.5000
Cd	(54)	(77)			(40)	ND			ND		0.015	0.1500
Ce	ND	ND			ND	ND			ND		0.100	1.0000
Co	(86)	(81)			(64)	(67)			(67)		0.010	0.1000
Cr	555	414	29%	*	452	459	2%		(74)		0.020	0.2000
Cu	(32)	ND			(19)	ND			(29)		0.010	0.1000
Dy	ND	ND			ND	ND			ND		0.050	0.5000
Eu	ND	ND			ND	ND			ND		0.100	1.0000
Fe	29,935	22,647	28%	*	25,898	27,279	5%		(375)		0.020	0.2000
K	n/a	n/a			n/a	n/a			n/a		2.000	20.0000
La	ND	ND			ND	ND			ND		0.050	0.5000
Li	(130)	(173)			(116)	(64)			ND		0.030	0.3000
Mg	(1,636)	(1,280)			(1,290)	(1,354)			ND		0.100	1.0000
Mn	817	672	19%		613	635	4%		399	>MDL	0.005	0.0500
Mo	ND	ND			ND	ND			ND		0.030	0.3000
Na	107,243	122,477	13%		97,416	104,472	7%		4,424	>MDL	0.080	0.8000
Nd	(112)	ND			(97)	ND			ND		0.050	0.5000
Ni	n/a	n/a			n/a	n/a			n/a		0.030	0.3000
P	20,774	29,818	36%	*	20,644	23,052	11%		(282)		0.100	1.0000
Pb	(1,088)	(832)			(905)	(957)			(129)		0.060	0.6000
Pd	ND	ND			ND	ND			ND		0.300	3.0000
Rh	ND	ND			ND	ND			ND		0.300	3.0000
Sb	(116)	(105)			(91)	ND			(113)		0.050	0.5000
Se	ND	ND			ND	ND			ND		0.100	1.0000
Si	(3,440)	(3,874)			(2,871)	(2,916)			ND		0.500	5.0000
Sn	ND	ND			ND	ND			ND		1.000	10.0000
Sr	27,740	19,740	34%	*	25,301	25,108	1%		ND		0.005	0.0500
Te	ND	ND			ND	ND			ND		0.500	5.0000
Th	ND	ND			ND	ND			ND		0.800	8.0000
Ti	489	433	12%		242	326	30%	*	326	>MDL	0.005	0.0500
Tl	ND	ND			ND	ND			ND		0.500	5.0000
U	61,637	47,328	26%	*	52,421	53,510	2%		ND		2.000	20.0000
V	(22)	(20)			(18)	ND			ND		0.010	0.1000
W	ND	ND			ND	ND			ND		0.500	5.0000
Y	ND	ND			ND	ND			ND		0.010	0.1000
Zn	(75)	ND			(58)	(103)			ND		0.020	0.2000
Zr	(52)	(41)			(39)	(43)			ND		0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
7) ">MDL" indicates analyte found in process blank above the MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D244a

ICP RAW DATA -- IEC Corrected

File: m090195b
Reported: 09/01/95

Raw Data
Data Page 2 of 2

Date: 09/01/95
Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m090195b

Sample ID:	95-07946-H-1T Sam	95-07946-H-2T Dup	95-07946-H-1B Sam	95-07946-H-2B Dup	95-07946-HCB Batch Blk
ICP Dil:	2.00	2.00	2.00	2.00	2.00
Run Time:	13:14	13:18	13:22	13:26	13:06
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0085	0.0070	0.0080	0.0063	0.0064
Al	6.7158	5.4300	6.2011	5.5479	0.5151
As	0.1156	0.1015	0.1128	0.0891	0.0801
B	0.1377	0.1522	0.1310	0.1522	0.1151
Ba	0.3155	0.2317	0.3107	0.2658	0.0049
Be	0.0008	0.0006	0.0007	0.0006	0.0003
Bi	1.5634	1.2192	1.5050	1.3175	0.0852
Ca	6.1524	4.4784	5.9466	5.4209	0.1863
Cd	0.0268	0.0382	0.0225	0.0149	0.0131
Ce	0.0637	0.0512	0.0682	0.0537	0.0294
Co	0.0431	0.0401	0.0357	0.0319	0.0338
Cr	0.2782	0.2055	0.2522	0.2199	0.0378
Cu	0.0159	0.0068	0.0106	-0.0087	0.0148
Dy	0.0066	0.0066	0.0062	0.0043	0.0105
Eu	0.0024	0.0018	0.0025	0.0019	0.0014
Fe	14.9974	11.2331	14.4508	13.0532	0.1906
K	4954.4751	4959.6655	4575.6855	4807.0557	4942.1851
La	0.0257	0.0235	0.0295	0.0203	0.0096
Li	0.0649	0.0856	0.0647	0.0304	0.0112
Mg	0.8196	0.6349	0.7196	0.6477	0.0570
Mn	0.4092	0.3335	0.3420	0.3038	0.2029
Mo	0.0194	0.0166	0.0167	0.0145	0.0121
Na	53.7286	60.7484	54.3582	49.9896	2.2490
Nd	0.0562	0.0474	0.0543	0.0409	0.0308
Ni	82.8636	79.1876	66.8436	50.1514	67.5081
P	10.4077	14.7898	11.5194	11.0305	0.1432
Pb	0.5453	0.4125	0.5048	0.4581	0.0656
Pd	-0.1700	-0.1147	-0.1568	-0.1555	0.1996
Rh	0.0788	0.0751	0.0777	0.0527	0.0969
Sb	0.0583	0.0522	0.0508	0.0449	0.0576
Se	0.0817	0.0724	0.0760	0.0656	0.0577
Si	1.7235	1.9213	1.6018	1.3951	0.1800
Sn	0.3123	0.2679	0.2808	0.2189	0.2788
Sr	13.8976	9.7910	14.1180	12.0143	0.0024
Te	0.0815	0.0757	0.0742	0.0729	0.0599
Th	0.5327	0.4113	0.5064	0.4328	0.0441
Ti	0.2451	0.2145	0.1349	0.1558	0.1658
Tl	0.0534	0.0505	0.0517	0.0446	0.0337
U	30.8803	23.4745	29.2510	25.6045	0.6920
V	0.0111	0.0100	0.0102	0.0087	0.0066
W	0.1103	0.0978	0.0929	0.0717	0.0815
Y	0.0085	0.0068	0.0083	0.0068	0.0020
Zn	0.0376	0.0198	0.0326	0.0491	-0.0329
Zr	0.0262	0.0203	0.0215	0.0204	0.0069

Analyzed Date: 09/01/95 Analyst: D. Sanders
Project: TWRS
Procedure: PNL-ALO-211 Reviewer: [signature] 9/4/95
MT&E: JA ICP WB73520

File: m09019
Reported: 09/01/
ICP File: 95D24
Adjusted for
Process Dil.Fctr.
Data Page 1 of 2

Sample Log#	95-07946-H-1T Sam	95-07946-H-2T Dup	95-07946-H-1B Sam	95-07946-H-2B Dup	95-07946-HCB Batch Blk
ID	Top	Top-Dup	Bottom	Bot-Dup	Blank
Prep Type	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g	0.1002	0.0992	0.1116	0.0957	0.1017
Makeup Vol-mL	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Total-mL					
Prep Factor	998.00	1008.06	896.06	1044.93	983.53
ICP Dilution	2.00	2.00	2.00	2.00	2.00
Dil Factor	1996.0	2016.1	1792.1	2089.9	1967.1
Run Time:	13:14	13:18	13:22	13:26	13:06
	ug/g	ug/g	ug/g	ug/g	ug/g
Ag	17.0	14.0	14.3	13.2	12.5
Al	13404.8	10947.7	11113.1	11594.4	1013.2
As	230.8	204.6	202.1	186.2	157.5
B	274.9	306.9	234.8	318.1	226.4
Ba	629.8	467.1	556.9	555.4	9.7
Be	1.5	1.2	1.2	1.1	0.6
Bi	3120.5	2458.0	2697.2	2753.4	167.5
Ca	12280.2	9029.1	10656.9	11328.9	366.4
Cd	53.6	77.0	40.4	31.2	25.8
Ce	127.2	103.2	122.1	112.3	57.8
Co	86.1	80.9	63.9	66.6	66.5
Cr	555.3	414.4	452.1	459.5	74.4
Cu	31.7	13.8	19.0	-18.1	29.1
Dy	13.3	13.3	11.1	9.0	20.7
Eu	4.8	3.6	4.6	3.9	2.8
Fe	29934.9	22647.4	25897.5	27279.4	374.9
K	9889171.8	9999325.6	8200153.3	**********	9721534.4
La	51.2	47.4	52.8	42.3	18.8
Li	129.5	172.6	115.9	63.6	22.0
Mg	1635.9	1279.9	1289.6	1353.6	112.1
Mn	816.8	672.3	613.0	635.0	399.1
Mo	38.7	33.4	29.9	30.2	23.8
Na	107242.7	122476.6	97416.2	104471.5	4424.0
Nd	112.1	95.6	97.3	85.5	60.6
Ni	165396.3	159652.4	119791.4	104809.5	132791.9
P	20773.8	29818.2	20644.0	23052.2	281.7
Pb	1088.4	831.6	904.6	957.4	129.0
Pd	-339.3	-231.3	-281.0	-325.0	392.7
Rh	157.3	151.4	139.3	110.1	190.6
Sb	116.3	105.2	91.1	93.8	113.3
Se	163.1	146.0	136.2	137.0	113.4
Si	3440.1	3873.5	2870.6	2915.5	354.0
Sn	623.3	540.1	503.2	457.4	548.3
Sr	27739.7	19739.9	25301.1	25108.2	4.8
Te	162.8	152.6	133.0	152.3	117.7
Th	1063.4	829.2	907.6	904.5	86.8
Ti	489.3	432.5	241.7	325.6	326.1
Tl	106.6	101.9	92.7	93.2	66.3
U	61637.3	47327.6	52421.1	53510.0	1361.2
V	22.2	20.2	18.2	18.2	13.1
W	220.2	197.2	166.4	149.8	160.2
Y	17.0	13.6	14.9	14.2	3.9
Zn	75.0	39.9	58.4	102.7	-64.8
Zr	52.4	40.8	38.5	42.6	13.5

|<-----Adjusted for Process Dilution Factor----->|

PROCEDURE: PNL-ALO-211 ICP ANALYSIS REPORT -- Homogenization Test
M&TE: JA ICP WB73520

Analyzed Date: 09/01/95
File: m090195a
Project: TWRS

Samp Log#:	95-07941-H-1T Sam	95-07941-H-2T Dup		95-07941-H-1B Sam	95-07941-H-2B Dup		95-07941-HCB Batch Blk	
ICP Dil:	2.00	2.00		2.00	2.00		2.00	
Dil Fctr:	1990.0	1949.3		1945.5	1551.6		1839.9	
Run Time:	12:44	12:47		12:51	12:55		12:33	

Analyte	Top ug/g	Top-Dup ug/g	20% RPD Flag	Bottom ug/g	Bot-Dup ug/g	20% RPD Flag	Blank ug/g		**Calculated** IDL ug/mL	MDL ug/mL
Ag	ND	ND		ND	ND		ND		0.015	0.1500
Al	138,516	133,408	4%	143,659	140,111	3%	(828)		0.060	0.6000
As	(258)	(232)		(223)	(218)		ND		0.080	0.8000
B	(269)	(306)		(312)	(190)		(275)		0.020	0.2000
Ba	(22)	ND		(27)	ND		ND		0.010	0.1000
Be	ND	ND		ND	ND		ND		0.005	0.0500
Bi	(292)	ND		(213)	ND		ND		0.100	1.0000
Ca	1,156	1,450	23% *	1,330	1,520	13%	(223)		0.050	0.5000
Cd	ND	ND		ND	ND		ND		0.015	0.1500
Ce	ND	ND		ND	ND		ND		0.100	1.0000
Co	(50)	(40)		(23)	(33)		(26)		0.010	0.1000
Cr	(149)	(156)		(146)	(133)		ND		0.020	0.2000
Cu	ND	ND		ND	(51)		ND		0.010	0.1000
Dy	ND	ND		ND	ND		ND		0.050	0.5000
Eu	ND	ND		ND	ND		ND		0.100	1.0000
Fe	1,494	972	42% *	1,805	1,179	42% *	545	>MDL	0.020	0.2000
K	n/a	n/a		n/a	n/a		n/a		2.000	20.0000
La	ND	ND		ND	ND		ND		0.050	0.5000
Li	(107)	(117)		(80)	ND		(98)		0.030	0.3000
Mg	(325)	(221)		(401)	(254)		ND		0.100	1.0000
Mn	307	271	12%	216	184	16%	176	>MDL	0.005	0.0500
Mo	ND	ND		ND	ND		ND		0.030	0.3000
Na	98,650	97,695	1%	98,950	93,886	5%	3,948	>MDL	0.080	0.8000
Nd	ND	ND		ND	ND		ND		0.050	0.5000
Ni	n/a	n/a		n/a	n/a		n/a		0.030	0.3000
P	24,562	30,291	21% *	29,282	28,382	3%	ND		0.100	1.0000
Pb	(251)	(187)		(255)	(137)		ND		0.060	0.6000
Pd	ND	ND		ND	ND		ND		0.300	3.0000
Rh	ND	ND		ND	ND		ND		0.300	3.0000
Sb	ND	ND		ND	ND		ND		0.050	0.5000
Se	ND	ND		ND	ND		ND		0.100	1.0000
Si	(5,966)	(4,071)		(5,396)	(3,997)		ND		0.500	5.0000
Sn	ND	ND		ND	ND		ND		1.000	10.0000
Sr	(27)	(21)		(31)	(25)		ND		0.005	0.0500
Te	ND	ND		ND	ND		ND		0.500	5.0000
Th	ND	ND		ND	ND		ND		0.800	8.0000
Ti	359	179	67% *	143	87	48% *	206	>MDL	0.005	0.0500
Tl	ND	ND		ND	ND		ND		0.500	5.0000
U	ND	ND		ND	ND		ND		2.000	20.0000
V	(52)	(45)		(64)	(59)		ND		0.010	0.1000
W	ND	ND		ND	ND		ND		0.500	5.0000
Y	ND	ND		ND	ND		ND		0.010	0.1000
Zn	ND	(52)		(81)	(86)		ND		0.020	0.2000
Zr	(170)	(185)		(111)	ND		(121)		0.010	0.1000

Note:
1) Above 5 times MDL, results reportable to 2 1/2 significant digits. "( )" results <MDL but =>IDL.
2) Blank is reported in ug/g "equivalence" to indicate blank effect on sample results.
3) The process "blank" has not been subtracted from the "Sample & Duplicate" results.
4) Above 5 times the MDL, precision is estimated at +/-10% and accuracy at +/-15%.
5) "ND" = Not Detected; Estimated Sample Detection Limit (ug/g) = (IDL in ug/mL) * (Dil Fctr).
6) If 20% flag = "*", Then RPD >20% and both sample results >MDL.
7) ">MDL" indicates analyte found in process blank above the MDL.
8) Data, including calibration/QC, archived File ICP-325-405-1/95D244a

WHC-SD-WM-DP-145, REV. 1

Analyzed Date: 09/01/95
Project: TWRS
Procedure: PNL-ALO-211
MT&E: JA ICP WB73520

Analyst: D. Sanders
Reviewer: MW Thu 9/14/95

File: m090195a
Reported: 09/01/95
ICP File: 95D244a
Adjusted for Process Dil.Fctr.

Sample Log#	95-07941-H-1T Sam	95-07941-H-2T Dup	95-07941-H-1B Sam	95-07941-H-2B Dup	95-07941-HCB Batch Blk
ID	Top	Top-Dup	Bottom	Bot-Dup	Blank
Prep Type	Fusion	Fusion	Fusion	Fusion	Fusion
Sample Wt-g	0.1005	0.1026	0.1028	0.1289	0.1087
Makeup Vol-mL	100.0	100.0	100.0	100.0	100.0
Dil: Smpl-mL					
Dil: Total-mL					
Prep Factor	995.02	974.66	972.76	775.80	919.96
ICP Dilution	2.00	2.00	2.00	2.00	2.00
Dil Factor	1990.0	1949.3	1945.5	1551.6	1839.9
Run Time:	12:44	12:47	12:51	12:55	12:33
	ug/g	ug/g	ug/g	ug/g	ug/g
Ag	11.5	10.9	17.4	11.1	7.0
Al	138516.3	133408.1	143658.9	140111.2	828.3
As	258.0	231.7	222.8	218.4	69.9
B	268.7	305.8	311.6	190.4	274.9
Ba	22.4	15.1	26.5	12.8	7.5
Be	0.8	0.6	0.9	0.6	0.1
Bi	292.5	101.0	213.4	43.2	46.8
Ca	1156.4	1449.7	1329.9	1519.8	223.3
Cd	27.0	28.0	23.5	6.2	19.6
Ce	59.5	51.3	98.0	62.6	22.9
Co	50.3	39.6	22.7	33.4	26.4
Cr	148.9	155.7	146.0	133.4	33.5
Cu	-20.5	-18.2	16.8	50.6	-54.2
Dy	16.7	13.1	16.4	11.7	7.0
Eu	2.2	2.3	4.2	3.0	0.9
Fe	1493.9	972.3	1804.6	1178.8	544.7
K	9814149.0	9280125.9	8932572.5	7578497.0	9226867.0
La	25.1	17.4	48.4	20.9	14.3
Li	106.5	117.0	80.4	32.5	98.2
Mg	325.0	221.4	400.6	253.7	93.6
Mn	306.8	271.3	215.7	184.1	175.8
Mo	29.1	28.5	24.2	21.8	18.3
Na	98650.1	97695.1	98950.1	93886.5	3948.4
Nd	51.5	56.3	84.7	59.8	26.3
Ni	98744.9	50597.1	25698.2	5562.0	20939.7
P	24561.8	30290.7	29281.8	28382.4	173.3
Pb	251.3	186.8	254.9	137.3	106.2
Pd	137.1	122.5	222.5	149.6	51.9
Rh	135.8	108.3	140.8	92.7	96.0
Sb	88.9	86.3	89.3	56.7	63.1
Se	108.5	104.4	79.4	65.8	80.4
Si	5965.8	4071.2	5395.7	3997.0	817.5
Sn	503.5	423.1	496.1	345.1	299.7
Sr	26.6	21.5	30.7	24.5	3.7
Te	94.3	75.2	95.0	60.6	64.5
Th	66.8	53.0	38.8	20.4	36.7
Ti	358.7	179.4	142.9	87.2	206.5
Tl	342.5	303.5	349.3	313.0	46.2
U	1235.2	1069.3	1548.3	1164.9	491.8
V	52.1	45.1	63.5	59.3	8.5
W	147.8	117.2	102.5	71.7	56.5
Y	3.3	3.5	5.9	4.1	1.8
Zn	15.1	51.7	81.3	86.4	13.7
Zr	169.6	184.7	110.9	11.9	120.8

|<-----Adjusted for Process Dilution Factor----->|

ICP RAW DATA -- IEC Corrected

File: m090195a
Reported: 09/01/95

Raw Data
Data Page 2 of 2

Date: 09/01/95
Project: TWRS
Procedure: PNL-ALO-211
M&TE: JA ICP WB73520

File: m090195a

Sample ID:	95-07941-H-1T Sam	95-07941-H-2T Dup	95-07941-H-1B Sam	95-07941-H-2B Dup	95-07941-HCB Batch Blk
ICP Dil:	2.00	2.00	2.00	2.00	2.00
Run Time:	12:44	12:47	12:51	12:55	12:33
	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Ag	0.0058	0.0056	0.0089	0.0072	0.0038
Al	69.6044	68.4384	73.8407	90.3016	0.4502
As	0.1296	0.1189	0.1145	0.1408	0.0380
B	0.1350	0.1569	0.1602	0.1227	0.1494
Ba	0.0113	0.0078	0.0136	0.0083	0.0041
Be	0.0004	0.0003	0.0005	0.0004	0.0001
Bi	0.1470	0.0518	0.1097	0.0279	0.0254
Ca	0.5811	0.7437	0.6836	0.9795	0.1214
Cd	0.0136	0.0144	0.0121	0.0040	0.0106
Ce	0.0299	0.0263	0.0504	0.0404	0.0124
Co	0.0253	0.0203	0.0117	0.0215	0.0144
Cr	0.0748	0.0799	0.0750	0.0860	0.0182
Cu	-0.0103	-0.0093	0.0087	0.0326	-0.0295
Dy	0.0084	0.0067	0.0084	0.0075	0.0038
Eu	0.0011	0.0012	0.0021	0.0020	0.0005
Fe	0.7507	0.4988	0.9276	0.7597	0.2961
K	4931.6099	4760.7046	4591.3423	4884.3413	5014.8022
La	0.0126	0.0089	0.0249	0.0135	0.0078
Li	0.0535	0.0600	0.0413	0.0210	0.0534
Mg	0.1633	0.1136	0.2059	0.1635	0.0509
Mn	0.1542	0.1392	0.1109	0.1186	0.0955
Mo	0.0146	0.0146	0.0124	0.0140	0.0099
Na	49.5717	50.1176	50.8604	60.5098	2.1459
Nd	0.0259	0.0289	0.0435	0.0385	0.0143
Ni	49.6193	25.9563	13.2089	3.5847	11.3807
P	12.3423	15.5391	15.0508	18.2925	0.0942
Pb	0.1263	0.0959	0.1310	0.0885	0.0577
Pd	0.0689	0.0628	0.1144	0.0964	0.0282
Rh	0.0682	0.0556	0.0724	0.0598	0.0522
Sb	0.0447	0.0443	0.0459	0.0366	0.0343
Se	0.0545	0.0535	0.0408	0.0424	0.0437
Si	2.9978	2.0885	2.7734	2.5761	0.4443
Sn	0.2530	0.2170	0.2550	0.2224	0.1629
Sr	0.0134	0.0110	0.0158	0.0158	0.0020
Te	0.0474	0.0386	0.0488	0.0391	0.0351
Th	0.0336	0.0272	0.0199	0.0132	0.0199
Ti	0.1802	0.0920	0.0735	0.0562	0.1122
Tl	0.1721	0.1557	0.1796	0.2017	0.0251
U	0.6207	0.5485	0.7958	0.7508	0.2673
V	0.0262	0.0231	0.0326	0.0382	0.0046
W	0.0743	0.0601	0.0527	0.0462	0.0307
Y	0.0017	0.0018	0.0030	0.0026	0.0010
Zn	0.0076	0.0265	0.0418	0.0557	0.0075
Zr	0.0852	0.0947	0.0570	0.0077	0.0657

Battelle PNL/ACL/Inorganic Analysis Group ... ICPAES

								CCV1 950713H901	CCV1 950713H901			
								95D244A	95D244A			
								9/1/95	9/1/95			
Statistical Summary for 'CCV1 950713H901'								11:00	13:47			
(HPS:CCV-1)								CONC	CONC			
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	856	901			
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)			
Ag		2	-0.002	0.001	-85			-0.001	-0.003			
Al	2.000	2	1.934	0.029	1	-0.066	-3.3	1.914	1.954			
As	2.000	2	2.051	0.022	1	0.051	2.6	2.036	2.067			
B	2.000	2	1.970	0.032	2	-0.030	-1.5	1.948	1.993			
Ba	1.000	2	1.009	0.014	1	0.009	0.9	0.999	1.018			
Be	1.000	2	0.960	0.002	0	-0.040	-4.0	0.959	0.962			
Bi	2.000	2	1.901	0.000	0	-0.099	-5.0	1.901	1.901			
Ca	2.000	2	1.952	0.009	0	-0.048	-2.4	1.945	1.959			
Cd	1.000	2	0.987	0.001	0	-0.013	-1.3	0.988	0.986			
Ce		2	-0.010	0.012	-124			-0.001	-0.019			
Co	1.000	2	1.047	0.008	1	0.047	4.7	1.042	1.053			
Cr	0.500	2	0.522	0.004	1	0.022	4.4	0.525	0.519			
Cu	2.000	2	2.045	0.019	1	0.045	2.3	2.032	2.059			
Dy		2	-0.001	0.001	-79			-0.001	-0.002			
Eu		2	0.000	0.001	-505			0.000	0.000			
Fe	2.000	2	2.037	0.012	1	0.037	1.9	2.029	2.046			
K	5.000	2	4.558	0.476	10	-0.442	-8.8	4.894	4.221			
La		2	-0.001	0.002	-188			0.000	-0.002			
Li	2.000	2	2.017	0.099	5	0.017	0.8	1.947	2.087			
Mg	2.000	2	2.093	0.018	1	0.093	4.7	2.080	2.106			
Mn	1.000	2	1.032	0.005	0	0.032	3.2	1.029	1.035			
Mo	2.000	2	2.018	0.012	1	0.018	0.9	2.009	2.026			
Na	8.100	2	8.221	0.445	5	0.121	1.5	7.907	8.536			
Nd		2	-0.005	0.009	-203			0.002	-0.011			
Ni	2.000	2	2.114	0.015	1	0.114	5.7	2.104	2.125			
P	5.000	2	4.838	0.026	1	-0.162	-3.2	4.820	4.856			
Pb	2.000	2	2.068	0.006	0	0.068	3.4	2.073	2.062			
Pd		2	-0.033	0.032	-99			-0.010	-0.056			
Rh		2	-0.006	0.013	-198			0.003	-0.016			
Sb		2	-0.012	0.003	-26			-0.009	-0.014			
Se	2.000	2	1.939	0.025	1	-0.061	-3.0	1.922	1.957			
Si	5.000	2	4.895	0.096	2	-0.105	-2.1	4.827	4.963			
Sn		2	-0.035	0.039	-113			-0.007	-0.062			
Sr	2.000	2	2.099	0.107	5	0.099	5.0	2.023	2.175			
Te		2	-0.026	0.006	-21			-0.022	-0.030			
Th		2	0.004	0.000	3			0.004	0.004			
Tl		2	0.000	0.001	-209			0.000	-0.001			
Ti	2.000	2	1.906	0.005	0	-0.094	-4.7	1.902	1.910			
U		2	-0.071	0.155	-219			0.039	-0.181			
V	1.000	2	0.974	0.006	1	-0.026	-2.6	0.970	0.978			
W		2	0.004	0.000	0			0.004	0.004			
Y		2	0.000	0.000	-65			0.000	-0.001			
Zn	1.000	2	1.050	0.020	2	0.050	5.0	1.035	1.064			
Zr		2	-0.001	0.001	-71			-0.001	-0.002			
TIME		2	10000.000	0.000	0			10000.000	10000.000			

3-1216

WHC-SD-WM-DP-145, REV. 1

Statistical Summary for 'MCVA 950728I901'

(MCVA)

	TRUE	N	Average	S.Dev	%RSD	Bias	Bias
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)
Ag	0.500	5	0.483	0.003	1	-0.017	-3.4
Al	25.000	5	25.172	0.176	1	0.172	0.7
As	2.500	5	2.636	0.017	1	0.136	5.4
B	2.000	5	2.009	0.017	1	0.009	0.4
Ba	0.500	5	0.510	0.005	1	0.010	1.9
Be	0.100	5	0.093	0.001	1	-0.007	-6.5
Bi	25.000	5	24.335	0.177	1	-0.665	-2.7
Ca	25.000	5	25.307	0.127	1	0.307	1.2
Cd	0.500	5	0.500	0.002	0	0.000	-0.1
Ce		5	-0.037	0.007	-20		
Co	1.000	5	1.043	0.005	0	0.043	4.3
Cr	1.000	5	1.035	0.008	1	0.035	3.5
Cu	1.000	5	1.019	0.009	1	0.019	1.9
Dy		5	0.000	0.001	251		
Eu		5	0.002	0.000	12		
Fe	20.000	5	20.672	0.146	1	0.672	3.4
K	25.000	5	25.432	0.323	1	0.432	1.7
La		5	0.007	0.002	36		
Li	2.000	5	1.938	0.017	1	-0.062	-3.1
Mg	25.000	5	26.674	0.158	1	1.674	6.7
Mn	0.500	5	0.519	0.003	1	0.019	3.9
Mo	1.000	5	1.042	0.006	1	0.042	4.2
Na	25.000	5	24.514	0.173	1	-0.486	-1.9
Nd		5	0.010	0.004	44		
Ni	1.000	5	1.074	0.007	1	0.074	7.4
P		5	0.081	0.014	17		
Pb	2.500	5	2.645	0.013	0	0.145	5.8
Pd		5	-0.030	0.014	-46		
Rh		5	-0.001	0.006	-907		
Sb	2.500	5	2.570	0.013	0	0.070	2.8
Se	2.500	5	2.489	0.017	1	-0.011	-0.5
Si	20.000	5	18.995	0.132	1	-1.005	-5.0
Sn		5	-0.092	0.015	-16		
Sr	0.500	5	0.523	0.010	2	0.023	4.6
Te		5	-0.009	0.003	-34		
Th		5	0.050	0.002	4		
Ti	1.000	5	1.008	0.007	1	0.008	0.8
Tl		5	2.491	0.014	1		
U		5	0.099	0.063	63		
V	1.000	5	1.005	0.006	1	0.005	0.5
W		5	0.035	0.003	10		
Y		5	0.000	0.000	4666		
Zn	1.000	5	1.042	0.013	1	0.042	4.2
Zr	2.000	5	2.077	0.016	1	0.077	3.8
TIME		5	10000.000	0.000	0		

MCVA 950728I901	MCVA 950728I901	MCVA 950728I901	MCVA 950728I901	MCVA 950728I901
95D244A	95D244A	95D244A	95D244A	95D244A
9/1/95	9/1/95	9/1/95	9/1/95	9/1/95
10:42	11:49	12:23	12:59	13:34
CONC	CONC	CONC	CONC	CONC
946	991	1036	1081	1126
(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
0.482	0.487	0.482	0.484	0.480
25.076	25.451	25.034	25.249	25.052
2.617	2.659	2.638	2.645	2.621
1.997	2.035	2.005	2.015	1.993
0.508	0.517	0.508	0.510	0.504
0.093	0.095	0.093	0.094	0.093
24.301	24.603	24.288	24.366	24.114
25.197	25.462	25.249	25.424	25.202
0.500	0.503	0.500	0.498	0.497
-0.036	-0.049	-0.030	-0.039	-0.032
1.038	1.049	1.040	1.048	1.040
1.041	1.043	1.033	1.035	1.024
1.021	1.031	1.015	1.020	1.007
0.000	-0.001	0.001	0.001	0.002
0.002	0.002	0.002	0.002	0.002
20.572	20.885	20.627	20.750	20.526
25.814	25.596	25.143	25.555	25.051
0.004	0.005	0.007	0.009	0.009
1.937	1.961	1.917	1.945	1.928
26.604	26.900	26.586	26.769	26.510
0.518	0.524	0.517	0.521	0.516
1.035	1.050	1.040	1.047	1.036
24.478	24.684	24.238	24.625	24.546
0.006	0.005	0.012	0.014	0.014
1.063	1.081	1.073	1.078	1.073
0.063	0.087	0.073	0.097	0.087
2.637	2.654	2.641	2.663	2.630
-0.035	-0.048	-0.027	-0.028	-0.011
-0.004	-0.010	0.001	0.004	0.006
2.558	2.586	2.560	2.578	2.565
2.459	2.499	2.493	2.503	2.490
18.871	19.171	18.934	19.099	18.902
-0.102	-0.112	-0.085	-0.081	-0.078
0.514	0.524	0.516	0.520	0.540
-0.010	-0.014	-0.008	-0.007	-0.006
0.049	0.050	0.046	0.051	0.051
1.002	1.018	1.005	1.012	1.002
2.477	2.506	2.488	2.502	2.478
0.066	0.016	0.107	0.124	0.183
1.002	1.015	1.002	1.008	0.998
0.031	0.033	0.039	0.038	0.035
0.000	0.000	0.000	0.000	0.000
1.021	1.044	1.042	1.053	1.050
2.056	2.095	2.073	2.089	2.070
10000.000	10000.000	10000.000	10000.000	10000.000

3-1217

REV 1

								MCVB 950830H901	MCVB 950830H901			
								95D244A	95D244A			
								9/1/95	9/1/95			
Statistical Summary for 'MCVB 950830H901'								10:46	13:39			
(MCVB)								CONC	CONC			
	TRUE	***N***	***Average***	***S.Dev***	***%RSD***	***Bias***	***Bias***	1171	1216			
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)			
Ag		2	-0.004	0.000	-2			-0.004	-0.004			
Al		2	-0.176	0.022	-13			-0.191	-0.160			
As		2	-0.002	0.004	-250			-0.005	0.001			
B		2	-0.002	0.000	-12			-0.002	-0.002			
Ba		2	0.000	0.000	0			0.000	0.000			
Be		2	0.000	0.000	13			0.000	0.000			
Bi		2	-0.002	0.000	-3			-0.002	-0.002			
Ca		2	0.050	0.006	13			0.045	0.054			
Cd		2	0.001	0.001	77			0.000	0.001			
Ce	2.000	2	2.036	0.020	1	0.036	1.8	2.022	2.051			
Co		2	0.001	0.000	44			0.001	0.001			
Cr		2	0.001	0.000	19			0.002	0.001			
Cu		2	-0.015	0.001	-4			-0.014	-0.015			
Dy	2.000	2	2.050	0.024	1	0.050	2.5	2.033	2.066			
Eu	2.000	2	2.050	0.020	1	0.050	2.5	2.036	2.064			
Fe		2	0.012	0.000	2			0.012	0.013			
K		2	-0.637	0.503	-79			-0.281	-0.992			
La	2.000	2	2.059	0.022	1	0.059	3.0	2.043	2.075			
Li		2	0.000	0.001	-372			-0.001	0.000			
Mg		2	0.095	0.012	13			0.086	0.103			
Mn		2	0.000	0.000	226			0.000	0.000			
Mo		2	-0.001	0.000	-20			-0.001	-0.001			
Na		2	0.029	0.010	34			0.022	0.036			
Nd	2.000	2	2.000	0.022	1	0.000	0.0	1.984	2.015			
Ni		2	0.004	0.002	41			0.003	0.006			
P		2	-0.009	0.012	-139			-0.018	0.000			
Pb		2	0.030	0.005	16			0.033	0.026			
Pd	2.000	2	2.082	0.097	5	0.082	4.1	2.013	2.151			
Sb		2	0.004	0.002	44			0.002	0.005			
Se		2	0.008	0.009	113			0.014	0.002			
Si		2	-0.055	0.035	-63			-0.080	-0.031			
Sn	2.000	2	2.000	0.009	0	0.000	0.0	2.006	1.993			
Sr		2	0.000	0.000	137			0.000	0.001			
Te	2.000	2	1.824	0.018	1	-0.176	-8.8	1.811	1.837			
Th	5.000	2	5.231	0.039	1	0.231	4.6	5.204	5.259			
Ti		2	0.000	0.000	22			0.000	0.000			
Tl		2	-0.013	0.005	-40			-0.009	-0.016			
U	10.000	2	8.304	0.082	1	-1.696	-17.0	8.362	8.246			
V		2	-0.003	0.001	-21			-0.002	-0.003			
W	2.000	2	1.906	0.006	0	-0.094	-4.7	1.910	1.902			
Y	1.000	2	1.021	0.005	0	0.021	2.1	1.024	1.017			
Zn		2	0.001	0.001	67			0.001	0.002			
Zr		2	-0.018	0.001	-8			-0.017	-0.019			
TIME		2	10000.000	0.000	0			10000.000	10000.000			

3-1218

PROCEDURE 145, REV

Statistical Summary for 'SRM-1643c 103668'

(NIST:SRM1643c)

	TRUE (ug/mL)	N	Average (ug/mL)	S.Dev (ug/mL)	%RSD (%)	Bias (ug/mL)	Bias (%)	SRM-1643c 103668 95D244A 9/1/95 10:55 CONC 1351 (ug/mL)	SRM-1643c 103668 95D244A 9/1/95 13:43 CONC 1396 (ug/mL)
Ag	0.002	2	-0.002	0.001	-38	-0.004	-190.2	-0.001	-0.002
Al	0.115	2	0.098	0.000	0	-0.017	-14.4	0.098	0.098
As	0.082	2	0.080	0.003	4	-0.002	-2.5	0.082	0.078
B	0.119	2	0.112	0.001	1	-0.007	-6.0	0.111	0.112
Ba	0.050	2	0.049	0.000	0	0.000	-0.4	0.049	0.050
Be	0.023	2	0.022	0.000	0	-0.001	-5.5	0.022	0.022
Bi		2	0.011	0.004	33			0.008	0.013
Ca	36.800	2	35.895	0.056	0	-0.905	-2.5	35.855	35.934
Cd	0.012	2	0.011	0.000	1	-0.001	-8.0	0.011	0.011
Ce		2	-0.026	0.002	-7			-0.024	-0.027
Co	0.024	2	0.021	0.001	2	-0.002	-9.1	0.022	0.021
Cr	0.019	2	0.021	0.002	8	0.002	10.8	0.022	0.020
Cu	0.022	2	0.018	0.001	6	-0.005	-20.2	0.019	0.017
Dy		2	-0.003	0.000	-3			-0.003	-0.003
Eu		2	0.000	0.000	-9			0.000	0.000
Fe	0.107	2	0.120	0.000	0	0.013	12.0	0.120	0.120
K	2.300	2	1.302	0.447	34	-0.998	-43.4	1.618	0.986
La		2	0.002	0.001	37			0.002	0.003
Li	0.017	2	0.011	0.001	13	-0.005	-33.2	0.010	0.012
Mg	9.450	2	10.018	0.040	0	0.568	6.0	9.990	10.046
Mn	0.035	2	0.035	0.000	0	0.000	0.9	0.036	0.035
Mo	0.104	2	0.105	0.000	0	0.001	0.6	0.105	0.105
Na	12.190	2	11.955	0.511	4	-0.235	-1.9	11.593	12.316
Nd		2	-0.011	0.002	-15			-0.009	-0.012
Ni	0.061	2	0.061	0.001	1	0.000	0.8	0.062	0.061
P		2	0.015	0.013	86			0.006	0.024
Pb	0.035	2	0.012	0.009	76	-0.024	-67.1	0.018	0.005
Pd		2	-0.068	0.020	-30			-0.053	-0.082
Rh		2	-0.026	0.006	-24			-0.022	-0.031
Sb		2	-0.011	0.007	-61			-0.016	-0.006
Se	0.013	2	0.015	0.002	17	0.002	14.2	0.016	0.013
Si		2	-0.028	0.056	-201			-0.067	0.012
Sn		2	-0.123	0.003	-3			-0.121	-0.125
Sr	0.264	2	0.274	0.012	5	0.010	3.9	0.265	0.283
Te		2	-0.012	0.005	-40			-0.016	-0.009
Th		2	-0.008	0.002	-21			-0.009	-0.007
Ti		2	0.007	0.000	4			0.007	0.007
Tl	0.008	2	0.004	0.004	100	-0.004	-52.9	0.006	0.001
U		2	-0.080	0.080	-99			-0.024	-0.136
V	0.031	2	0.026	0.000	2	-0.005	-15.7	0.027	0.026
W		2	0.008	0.009	110			0.002	0.014
Y		2	-0.003	0.000	-7			-0.003	-0.003
Zn	0.074	2	0.088	0.002	3	0.014	19.3	0.086	0.090
Zr		2	-0.002	0.000	-5			-0.002	-0.002
TIME		2	10000.000	0.000	0			10000.000	10000.000

3-1219

WHC-SD-WM-DP-145, REV. 4

								STD1-Blank 108444	STD1-Blank 108444	STD1-Blank 108444	STD1-Blank 108444	STD1-Blank 108444
								95D244A	95D244A	95D244A	95D244A	95D244A
								9/1/95	9/1/95	9/1/95	9/1/95	9/1/95
Statistical Summary for 'STD1-Blank 108444'								10:39	11:14	11:59	13:03	13:50
(STD1-Blank)								CONC	CONC	CONC	CONC	CONC
	TRUE	N	Average	S.Dev	%RSD	Bias	Bias	1486	1531	1576	1621	1666
	(ug/mL)		(ug/mL)	(ug/mL)	(%)	(ug/mL)	(%)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)	(ug/mL)
Ag		5	0.000	0.001	1271			0.000	0.001	0.001	0.000	-0.001
Al		5	0.001	0.003	289			0.001	0.002	0.003	0.004	-0.004
As		5	0.005	0.002	38			0.003	0.006	0.006	0.006	0.002
B		5	-0.001	0.001	-120			-0.002	0.000	-0.001	0.000	-0.003
Ba		5	0.000	0.000	-190			0.000	0.000	0.000	0.000	-0.001
Be		5	0.000	0.000	120			0.000	0.000	0.000	0.000	0.000
Bi		5	-0.002	0.002	-119			-0.004	-0.001	0.001	-0.001	-0.004
Ca		5	0.000	0.004	-1949			0.000	0.001	0.002	0.004	-0.008
Cd		5	0.000	0.001	178			-0.001	0.001	0.000	0.001	0.001
Ce		5	-0.002	0.007	-294			-0.005	0.001	0.004	0.001	-0.014
Co		5	0.000	0.001	1031			-0.001	0.001	0.002	0.000	-0.001
Cr		5	-0.001	0.001	-247			-0.001	-0.002	0.002	0.000	-0.001
Cu		5	0.000	0.001	-310			0.000	0.000	0.000	0.001	-0.002
Dy		5	0.001	0.001	132			0.000	0.001	0.001	0.001	0.000
Eu		5	0.000	0.000	-1059			0.000	0.000	0.000	0.000	0.000
Fe		5	0.001	0.001	207			0.000	0.001	0.001	0.002	-0.001
K		5	-0.271	0.473	-175			-0.115	0.052	0.103	-0.333	-1.061
La		5	0.001	0.002	277			-0.002	0.002	0.002	0.002	-0.001
Li		5	0.001	0.001	163			-0.001	0.001	0.001	0.001	0.000
Mg		5	0.002	0.006	309			-0.006	0.004	0.009	0.007	-0.003
Mn		5	0.000	0.000	-31			0.000	0.000	0.000	0.000	0.000
Mo		5	0.000	0.000	-192			0.000	-0.001	0.000	0.000	-0.001
Na		5	0.003	0.015	617			-0.006	0.010	0.017	0.013	-0.021
Nd		5	0.000	0.007	2153			-0.004	0.004	0.007	0.003	-0.009
Ni		5	0.001	0.001	121			0.001	-0.001	0.001	0.003	0.002
P		5	0.009	0.016	180			-0.014	0.022	0.014	0.025	-0.001
Pb		5	-0.003	0.008	-279			-0.003	0.002	0.005	-0.001	-0.017
Pd		5	-0.005	0.018	-402			-0.002	0.002	0.012	0.001	-0.036
Rh		5	-0.001	0.008	-972			-0.001	0.003	0.007	0.002	-0.015
Sb		5	0.003	0.006	167			0.006	-0.001	0.005	0.011	-0.003
Se		5	0.003	0.005	143			-0.001	0.002	0.010	-0.001	0.007
Si		5	-0.011	0.017	-155			-0.025	0.006	-0.007	0.002	-0.032
Sn		5	-0.005	0.029	-609			0.003	0.004	0.015	0.011	-0.057
Sr		5	0.000	0.000	216			0.000	0.000	0.000	0.000	0.001
Te		5	0.001	0.007	935			-0.010	0.003	0.009	0.003	-0.003
Th		5	0.003	0.003	100			0.004	0.003	0.001	0.008	0.000
Ti		5	0.000	0.000	-938			0.000	0.000	0.000	0.000	-0.001
Tl		5	-0.003	0.005	-160			-0.005	0.001	0.003	-0.006	-0.007
U		5	0.004	0.107	2576			-0.026	0.070	0.109	0.034	-0.165
V		5	0.000	0.001	505			0.000	0.001	0.001	0.001	-0.001
W		5	0.005	0.006	103			-0.003	0.013	0.004	0.006	0.007
Y		5	0.000	0.000	1190			0.000	0.000	0.000	0.000	-0.001
Zn		5	0.000	0.000	253			0.000	0.000	0.000	0.000	-0.001
Zr		5	0.000	0.000	-590			0.000	0.000	0.000	0.000	-0.001
TIME		5	10000.000	0.000	0			10000.000	10000.000	10000.000	10000.000	10000.000

3-1220

WHC-SD-WM-DP-145, REV 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1		✓	✓							Co Profile 950814I101		Silvers	K28866	950244A	ICP1	9/1/95 DKJ
	2	✓	✓		✓		✓				SPC-BLK 108444						
	3	✓	✓		✓						SPC-STD 950831I101						
	4	✓				✓	✓				STD1-Blank 108444						
	5	✓				✓					" 2 950830I102						
	6	✓				✓					" 3 3						
	7	✓				✓					" 4 4						
	8	✓				✓					" 5 5						
	9	✓				✓					" 6 6						
	10	✓				✓					" 7 7						
	11	✓				✓					" 8 8						
	12	✓				✓					" 9 9						
	13	✓				✓	✓				" 1-Blank 108444						
	14	✓				✓					" 2 950830I102						
	15	✓				✓					" 3 3						
	16	✓				✓					" 4 4						
	17	✓				✓					" 5 5						
	18	✓				✓					" 6 6						
	19	✓				✓					" 7 7						
	20	✓				✓					" 8 8						
	21	✓				✓					" 9 9						
	22	✓					✓				" 1-Blank 108444						
	23	✓							✓	PASS	MCVA 950728I901						
	24	✓							✓	PASS ⊗	MCVB 950830H901						
	25	✓							✓		SRM-1643c 103668						

[SP] System Performance [S]tandardization or calibration
[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)
Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank
[X] A solid vertical line denotes contiguous data.
M&TE # WD00560

Initial or Continuing Calibration [V]erification Standard
"ADF" = Analytical Dilution Factor (other than 1x)
file: C:\OPROV\ROGRAMS\RUNLOG.TJ2 (04-02-93)

⊗ Rh, U-N/A for Q.C. DKJ 9/1/95
use Na std @ 50 ppm for U Q.C. DKJ 9/1/95

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)-1

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	X	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓						✓			CCV1 950713H901		Silvers	K28866	950244A	ICP1	7/13/95 DMS
	2	✓					✓				STD1-Blank 108444						
	3	✓							✓	PASS	MCVA 950728I901						
	4	✓					✓				STD1-Blank 108444						
	5	✓								95-007941-HCB	HNO3/HCl Process Blank (Acid digest)						
	6	✓								95-007941-H1T	Segment 1 Top "	5X					
	7	✓								95-007941-H1T	" " " " "						
	8	✓								95-007941-H2T	" " " Duplicate "						
	9	✓								95-007946-H1T	QTR SEG 48 Top "						
	10	✓								95-007946-H2T	" " " " Duplicate "						
	11	✓							✓	PASS	MCVA 950728I901						
	12	✓					✓				STD1-Blank 108444						
	13	✓								95-007941-HCB	KOH/Ni fusion Process Blank (Ni Fusion)	2X					
	14	✓								95-007941-H1T	Segment 1 Top "	10X					
	15	✓								95-007941-H1T	" " " Rerun "	10X					
	16	✓								95-007941-H1T	" " " "	2X					
	17	✓								95-007941-H2T	" " " Duplicate "	2X					
	18	✓								95-007941-H1B	" " Bottom "	2X					
	19	✓								95-007941-H2B	" " " Duplicate "	2X					
	20	✓							✓	PASS	MCVA 950728I901						
	21	✓					✓				STD1-Blank 108444						
	22	✓								95-007946-HCB	KOH/Ni fusion Process Blank (Ni Fusion)	2X					
	23	✓								95-007946-H1T	QTR SEG 48 Top "	10X					
	24	✓								95-007946-H1T	" " " "	2X					
	25	✓								95-007946-H2T	" " " " Duplicate "	2X	↓	↓	↓	↓	↓

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verification [P]rofile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M&TE # WD00566

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OFFICE\ROOT\MSVIUM.OCL.TJ2 (04-07-93)

3-1222

SD-WM-DP-145, REV. 1

Battelle PNL/ACL/Inorganic Analysis Group

Note: Blank spaces or lines are permitted.

ICPAES RUN LOG (ICP -325-405)

[X]		Mode C	Mode I	Calibration/QC Check P	SP	S	B	V	M	ALO Log #	Sample Identification	ADF	Client Name	Client WO#	Data File Name	ICP Method	Date/ Analyst
	1	✓								95-007946-H1B	QTR SEG 4B Bottom (NaOH Fusion)	2X	Silvers	K28866	950244A	ICP1	9/11/95 ARS
	2	✓								95-007946-H2B	" " " " Duplicate "						
	3	✓								(49.31)	U @ 50 ppm (950630I106 W10X)						
	4	✓							✓	PASS	MCVA 950728E901						
	5	✓							✓	PASS ⊗	MCVB 950830H901						
	6	✓							✓		SRM-1643c 103668						
	7	✓						✓			CCV1 950713H901						
	8	✓					✓				STD 1-Blank 108444						
	9																
	10																
	11																
	12																
	13																
	14																
	15																
	16																
	17																
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	19																
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	21																
	22																
	23																
	24																

[SP] System Performance [S]tandardization or calibration

[M]id-range Calibration Verificatio [P]rofile (2 ppm Cu)

*Mode (C or I) = [C]oncentration, [I]ntensity

Initial or Continuing Calibration [B]lank

[X] A solid vertical line denotes contiguous data.

M & T E # W D 0 0 5 6 8

Initial or Continuing Calibration [V]erification Standard

*"ADF" = Analytical Dilution Factor (other than 1x)

file: C:\OFFICE\PROGRAMS\RUNLOG\LTJ2 (04-02-93)

12223

WHC-SD-WM-DP-145, REV. 1

Analysis Report Summary Fri 09-01-95 02:01:10 PM page 1

95D244A
ECP-325-405-1
9/1/95 BG

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	SPC-BLK 108444	95D244A	ICP1	09/01/95	07:58	DRS	S	INT
2	SPC-BLK 108444	95D244A	ICP1	09/01/95	07:58	DRS	S	CONC
3	SPC-STD 950831I101	95D244A	ICP1	09/01/95	08:01	DRS	S	INT
4	SPC-STD 950831I101	95D244A	ICP1	09/01/95	08:01	DRS	S	CONC
5	STD1-Blank	95D244A	ICP1	09/01/95	08:26		X	IR
6	STD2	95D244A	ICP1	09/01/95	08:28		X	IR
7	STD3	95D244A	ICP1	09/01/95	08:32		X	IR
8	STD4	95D244A	ICP1	09/01/95	08:36		X	IR
9	STD5	95D244A	ICP1	09/01/95	08:39		X	IR
10	STD6	95D244A	ICP1	09/01/95	08:43		X	IR
11	STD7	95D244A	ICP1	09/01/95	08:47		X	IR
12	STD8	95D244A	ICP1	09/01/95	08:51		X	IR
13	STD9	95D244A	ICP1	09/01/95	08:55		X	IR
14	STD1-Blank	95D244A	ICP1	09/01/95	09:57		X	IR
15	STD2	95D244A	ICP1	09/01/95	10:00		X	IR
16	STD3	95D244A	ICP1	09/01/95	10:03		X	IR
17	STD4	95D244A	ICP1	09/01/95	10:07		X	IR
18	STD5	95D244A	ICP1	09/01/95	10:11		X	IR
19	STD6	95D244A	ICP1	09/01/95	10:14		X	IR
20	STD7	95D244A	ICP1	09/01/95	10:18		X	IR
21	STD8	95D244A	ICP1	09/01/95	10:22		X	IR
22	STD9	95D244A	ICP1	09/01/95	10:26		X	IR
23	STD1-Blank 108444	95D244A	ICP1	09/01/95	10:39	DRS	S	CONC
24	MCVA 950728I901	95D244A	ICP1	09/01/95	10:42	DRS	Q	CONC
25	MCVB 950830H901	95D244A	ICP1	09/01/95	10:46	DRS	Q	CONC
26	SRM-1643c 103668	95D244A	ICP1	09/01/95	10:55	DRS	Q	CONC
27	CCV1 950713H901	95D244A	ICP1	09/01/95	11:00	DRS	S	CONC
28	STD1-Blank 108444	95D244A	ICP1	09/01/95	11:14	DRS	S	CONC
29	MCVA 950728I901	95D244A	ICP1	09/01/95	11:49	DRS	Q	CONC
30	STD1-Blank 108444	95D244A	ICP1	09/01/95	11:59	DRS	S	CONC
31	95-007941-HCB	95D244A	ICP1	09/01/95	12:02	DRS	S	CONC
32	95-007941-H1T @5	95D244A	ICP1	09/01/95	12:04	DRS	S	CONC
33	95-007941-H1T	95D244A	ICP1	09/01/95	12:08	DRS	S	CONC
34	95-007941-H2T	95D244A	ICP1	09/01/95	12:11	DRS	S	CONC
35	95-007946-H1T	95D244A	ICP1	09/01/95	12:15	DRS	S	CONC
36	95-007946-H2T	95D244A	ICP1	09/01/95	12:19	DRS	S	CONC
37	MCVA 950728I901	95D244A	ICP1	09/01/95	12:23	DRS	Q	CONC
38	STD1-Blank	95D244A	ICP1	09/01/95	12:26	DRS	S	CONC
39	95-007941-HCB @2	95D244A	ICP1	09/01/95	12:33	DRS	S	CONC
40	95-007941-H1T @10 K	95D244A	ICP1	09/01/95	12:36	DRS	S	CONC
41	95-007941-H1T @10 R	95D244A	ICP1	09/01/95	12:39	DRS	S	CONC
42	95-007941-H1T @2 KOH	95D244A	ICP1	09/01/95	12:44	DRS	S	CONC
43	95-007941-H2T @2 KOH	95D244A	ICP1	09/01/95	12:47	DRS	S	CONC
44	95-007941-H1B @2 KOH	95D244A	ICP1	09/01/95	12:51	DRS	S	CONC
45	95-007941-H2B @2 KOH	95D244A	ICP1	09/01/95	12:55	DRS	S	CONC
46	MCVA 950728I901	95D244A	ICP1	09/01/95	12:59	DRS	Q	CONC
47	STD1-Blank 108444	95D244A	ICP1	09/01/95	13:03	DRS	S	CONC
48	95-007946-HCB @2 KOH	95D244A	ICP1	09/01/95	13:06	DRS	S	CONC
49	95-007946-H1T @10 K	95D244A	ICP1	09/01/95	13:10	DRS	S	CONC
50	95-007946-H1T @2 KOH	95D244A	ICP1	09/01/95	13:14	DRS	S	CONC
51	95-007946-H2T @2 KOH	95D244A	ICP1	09/01/95	13:18	DRS	S	CONC
52	95-007946-H1B @2 KOH	95D244A	ICP1	09/01/95	13:22	DRS	S	CONC
53	95-007946-H2B @2 KOH	95D244A	ICP1	09/01/95	13:26	DRS	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	U @50 PPM	95D244A	ICP1	09/01/95	13:30	DRS	S	CONC
55	MCVA 950728I901	95D244A	ICP1	09/01/95	13:34	DRS	Q	CONC
56	MCVB 950830H901	95D244A	ICP1	09/01/95	13:39	DRS	Q	CONC
57	SRM-1643c 103668	95D244A	ICP1	09/01/95	13:43	DRS	Q	CONC
58	CCV1 950713H901	95D244A	ICP1	09/01/95	13:47	DRS	S	CONC
59	STD1-Blank 108444	95D244A	ICP1	09/01/95	13:50	DRS	S	CONC

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#	Sample Name	Ag	Al	As	B	Ba	Be
1	SPC-BLK 108444	6349.67	2014.67	1601.67	1048	294.667	167.333
2	SPC-BLK 108444	-.0075	-.0456	-.0308	-.0051	-.0017	-.0004
3	SPC-STD 9508311101	6552	2081	1696	1097.67	301.667	170.333
4	SPC-STD 9508311101	-.0020	-.0333	-.0000	-.0007	-.0009	-.0002
5	STD1-Blank	.65146	.20683	.16606	.10606	.0302	.0171
6	STD2					8.26143	
7	STD3		74.8668		51.1024		
8	STD4						
9	STD5			27.479			
10	STD6						
11	STD7						1.88193
12	STD8	30.5051					
13	STD9						
14	STD1-Blank	.64663	.20623	.1659	.10403	.03023	.01706
15	STD2					8.32413	
16	STD3		74.9354		51.0151		
17	STD4						
18	STD5			27.3238			
19	STD6						
20	STD7						1.92043
21	STD8	30.9648					
22	STD9						
23	STD1-Blank 108444	-.0005	.0012	.0033	-.0024	-.0003	.0000
24	MCVA 950728I901	.4819	25.08	2.617	1.997	.5085	.0934
25	MCVB 950830H901	-.0037	-.1913	-.0046	-.0016	-.0003	.0002
26	SRM-1643c 103668	@-.0014	@.0979	.0821	@.1113	.0492	.0220
27	CCV1 950713H901	-.0006	1.914	2.036	1.948	.9990	.9585
28	STD1-Blank 108444	.0011	.0017	.0056	-.0002	.0000	.0000
29	MCVA 950728I901	.4868	25.45	2.659	2.035	.5170	.0945
30	STD1-Blank 108444	.0008	.0025	.0056	-.0005	.0001	.0000
31	95-007941-HCB	.0056	.0283	.0111	.0499	.0011	.0001
32	95-007941-H1T @5	.0003	48.07	.0387	.0313	.0019	.0001
33	95-007941-H1T	.0029	243.1	.2233	.1591	.0101	.0006
34	95-007941-H2T	.0064	320.8	.2904	.1832	.0136	.0008
35	95-007946-H1T	.0066	.0393	.0114	-.0023	.0014	.0001
36	95-007946-H2T	.0048	.0209	.0017	-.0017	.0010	.0001
37	MCVA 950728I901	.4815	25.03	2.638	2.005	.5081	.0933
38	STD1-Blank	.0001	.0004	-.0008	-.0009	-.0001	-.0000
39	95-007941-HCB @2 KOH	.0038	.4502	.0380	.1494	.0041	.0001
40	95-007941-H1T @10 K	.0027	14.87	.0360	.0282	.0028	.0001
41	95-007941-H1T @10 Rerun	.0030	14.72	.0337	.0266	.0028	.0001
42	95-007941-H1T @2 KOH	.0058	69.60	.1296	.1350	.0113	.0004
43	95-007941-H2T @2 KOH	.0056	68.44	.1189	.1569	.0078	.0003
44	95-007941-H1B @2 KOH	.0089	73.84	.1145	.1602	.0136	.0005
45	95-007941-H2B @2 KOH	.0072	90.30	.1408	.1227	.0083	.0004
46	MCVA 950728I901	.4845	25.25	2.645	2.015	.5105	.0937
47	STD1-Blank 108444	.0004	.0044	.0062	.0001	-.0000	.0000
48	95-007946-HCB @2 KOH	.0064	.5151	.0801	.1151	.0049	.0003
49	95-007946-H1T @10 K	.0007	1.432	.0188	.0262	.0702	.0001
50	95-007946-H1T @2 KOH	.0085	6.716	.1156	.1377	.3155	.0008
51	95-007946-H2T @2 KOH	.0070	5.430	.1015	.1522	.2317	.0006
52	95-007946-H1B @2 KOH	.0080	6.201	.1128	.1310	.3107	.0007
53	95-007946-H2B @2 KOH	.0063	5.548	.0891	.1522	.2658	.0006

ALO-129 Acid Ext

ALO-115

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#	Sample Name	Ag	Al	As	B	Ba	Be
54	U @50 PPM	.0012	-.0723	.0165	-.0093	.0002	.0004
55	MCVA 950728I901	.4805	25.05	2.621	1.993	.5044	.0925
56	MCVB 950830H901	-.0036	-.1600	.0013	-.0019	-.0003	.0002
57	SRM-1643c 103668	Q-.0024	Q.0983	Q.0780	Q.1125	.0496	.0219
58	CCV1 950713H901	-.0025	1.954	2.067	1.993	1.018	.9615
59	STD1-Blank 108444	-.0015	-.0042	.0021	-.0031	-.0006	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	SPC-BLK 108444	1360.33	1227	415	6102	1363	435
2	SPC-BLK 108444	-.0271	-.0299	-.0041	-.0425	-.0078	-.0051
3	SPC-STD 950831I101	1672.33	1220	446.333	6216.67	1396.67	479.333
4	SPC-STD 950831I101	-.0124	-.0332	-.0013	-.0229	-.0043	.0016
5	STD1-Blank	.1411	.12606	.04523	.62503	.13959	.0452
6	STD2					17.6366	12.7087
7	STD3		80.1821	10.0366			
8	STD4						
9	STD5				25.494		
10	STD6						
11	STD7						
12	STD8	27.2894					
13	STD9						
14	STD1-Blank	.14156	.12523	.04419	.61923	.13963	.04659
15	STD2					17.6225	12.6539
16	STD3		79.469	9.9561			
17	STD4						
18	STD5				25.5161		
19	STD6						
20	STD7						
21	STD8	27.7138					
22	STD9						
23	STD1-Blank 108444	-.0043	.0005	-.0008	-.0047	-.0006	-.0013
24	MCVA 950728I901	24.30	25.20	.4998	-.0357	1.038	1.041
25	MCVB 950830H901	-.0021	.0453	.0004	2.022	.0014	.0017
26	SRM-1643c 103668	.0084	35.85	Q.0111	-.0244	Q.0217	Q.0223
27	CCV1 950713H901	1.901	1.945	.9882	-.0013	1.042	.5249
28	STD1-Blank 108444	-.0005	.0008	.0007	.0013	.0006	-.0016
29	MCVA 950728I901	24.60	25.46	.5026	-.0487	1.049	1.043
30	STD1-Blank 108444	.0009	.0016	.0004	.0042	.0015	.0015
31	95-007941-HCB	.0048	-.0090	.0021	.0354	.0037	.0008
32	95-007941-H1T @5	.0059	.1094	.0018	.0010	.0018	.1744
33	95-007941-H1T	.0298	.2624	.0061	.0169	.0113	.8806
34	95-007941-H2T	.0612	.4269	.0116	.0227	.0266	4.570
35	95-007946-H1T	.0118	-.0147	.0020	.0411	.0040	.0008
36	95-007946-H2T	.0061	-.0144	.0016	.0403	.0033	.0023
37	MCVA 950728I901	24.29	25.25	.4996	-.0296	1.040	1.033
38	STD1-Blank	-.0007	.0031	.0021	-.0028	-.0001	-.0020
39	95-007941-HCB @2 KOH	.0254	.1214	.0106	.0124	.0144	.0182
40	95-007941-H1T @10 KOH	.0338	.1017	.0053	.0155	.0068	.0148
41	95-007941-H1T @10 Reanr	.0315	.0584	.0048	.0187	.0067	.0165
42	95-007941-H1T @2 KOH	.1470	.5811	.0136	.0299	.0253	.0748
43	95-007941-H2T @2 KOH	.0518	.7437	.0144	.0263	.0203	.0799
44	95-007941-H1B @2 KOH	.1097	.6836	.0121	.0504	.0117	.0750

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
45	95-007941-H2B @2 KOH	.0279	.9795	.0040	.0403	.0215	.0860
46	MCVA 950728I901	24.37	25.42	.4985	-.0392	1.048	1.035
47	STD1-Blank 108444	-.0014	.0037	.0006	.0008	.0002	.0000
48	95-007946-HCB @2 KOH	.0852	.1863	.0131	.0294	.0338	.0378
49	95-007946-H1T @10 K	.3263	1.273	.0068	-.0016	.0075	.0610
50	95-007946-H1T @2 KOH	1.563	6.152	.0268	.0637	.0431	.2782
51	95-007946-H2T @2 KOH	1.219	4.478	.0382	.0512	.0401	.2055
52	95-007946-H1B @2 KOH	1.505	5.947	.0225	.0682	.0357	.2522
53	95-007946-H2B @2 KOH	1.317	5.421	.0149	.0537	.0319	.2199
54	U @50 PPM	-.0168	.0412	.0001	.0173	.0035	-.0006
55	MCVA 950728I901	24.11	25.20	.4972	-.0322	1.040	1.024
56	MCVB 950830H901	-.0022	.0542	.0014	2.051	.0007	.0013
57	SRM-1643c 103668	.0134	35.93	.0113	-.0271	0.0210	0.0198
58	CCV1 950713H901	1.901	1.959	.9863	-.0188	1.053	.5193
59	STD1-Blank 108444	-.0036	-.0078	.0008	-.0135	-.0012	-.0014

#	Sample Name	Cu	Dy	Eu	Fe	K	La
1	SPC-BLK 108444	452	1877.67	327.667	546.333	2101.67	958
2	SPC-BLK 108444	-.0092	-.0069	-.0022	-.0068	-1.105	-.0119
3	SPC-STD 950831I101	24156	2147.67	334	613	2141.67	980
4	SPC-STD 950831I101	9.922	-.0076	-.0013	-.0051	-.4320	-.0059
5	STD1-Blank	.04646	.19296	.0335	.05646	.21456	.09806
6	STD2	4.74696			76.4156		
7	STD3					3.05193	
8	STD4		49.4982	11.4435			6.26586
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank	.04656	.19169	.03346	.05586	.21279	.0978
15	STD2	4.78639			76.1746		
16	STD3					3.11676	
17	STD4		49.4862	11.4503			6.2783
18	STD5						
19	STD6						
20	STD7						
21	STD8						
22	STD9						
23	STD1-Blank 108444	.0005	.0000	-.0000	-.0000	-.1148	-.0017
24	MCVA 950728I901	1.021	-.0003	.0020	20.57	25.81	.0037
25	MCVB 950830H901	-.0143	2.033	2.036	.0122	-.2811	2.043
26	SRM-1643c 103668	0.0186	-.0032	-.0001	0.1196	01.618	.0018
27	CCV1 950713H901	2.032	-.0005	.0003	2.029	4.894	.0004
28	STD1-Blank 108444	-.0005	.0006	.0001	.0010	.0516	.0018
29	MCVA 950728I901	1.031	-.0009	.0017	20.89	25.60	.0051
30	STD1-Blank 108444	-.0002	.0015	.0002	.0005	.1032	.0024
31	95-007941-HCB	.0032	.0057	.0015	.0061	1.124	.0113
32	95-007941-H1T @5	.0096	.0007	.0000	.9413	.0516	.0024
33	95-007941-H1T	.0529	.0030	.0009	4.708	.9750	.0080
34	95-007941-H2T	.0694	.0036	.0025	18.79	1.067	.0119
35	95-007946-H1T	.0048	.0073	.0020	.0045	1.422	.0132

Acid

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#	Sample Name	Cu	Dy	Eu	Fe	K	La
36	95-007946-H2T	.0024	.0054	.0014	.0028	1.044	.0101
37	MCVA 950728I901	1.015	.0005	.0020	20.63	25.14	.0066
38	STD1-Blank	-.0015	.0006	-.0002	.0024	-.1319	.0018
39	95-007941-HCB @2 KOH	-.0295	.0038	.0005	.2961	5015.	.0078
40	95-007941-H1T @10 KOH	-.0019	.0042	.0007	.1641	1125.	.0064
41	95-007941-H1T @10 Rerun	-.0025	.0040	.0007	.1620	1114.	.0070
42	95-007941-H1T @2 KOH	-.0103	.0084	.0011	.7507	4932.	.0126
43	95-007941-H2T @2 KOH	-.0093	.0067	.0012	.4988	4761.	.0089
44	95-007941-H1B @2 KOH	.0087	.0084	.0022	.9276	4591.	.0249
45	95-007941-H2B @2 KOH	.0326	.0075	.0020	.7597	4884.	.0135
46	MCVA 950728I901	1.020	.0009	.0022	20.75	25.56	.0088
47	STD1-Blank 108444	.0006	.0013	.0001	.0020	-.3326	.0022
48	95-007946-HCB @2 KOH	.0148	.0105	.0014	.1906	4942.	.0096
49	95-007946-H1T @10 K	-.0001	.0004	-.0001	3.280	1142.	.0042
50	95-007946-H1T @2 KOH	.0159	.0066	.0024	15.00	4954.	.0257
51	95-007946-H2T @2 KOH	.0068	.0066	.0018	11.23	4960.	.0235
52	95-007946-H1B @2 KOH	.0106	.0062	.0025	14.45	4576.	.0295
53	95-007946-H2B @2 KOH	-.0087	.0043	.0019	13.05	4807.	.0203
54	U @50 PPM	-.0264	-.0063	-.0008	.0056	.0000	.0069
55	MCVA 950728I901	1.007	.0017	.0023	20.53	25.05	.0093
56	MCVB 950830H901	-.0152	2.066	2.064	.0126	-.9922	2.075
57	SRM-1643c 103668	0.0170	-.0033	-.0001	0.1199	0.9864	.0030
58	CCV1 950713H901	2.059	-.0019	-.0005	2.046	4.221	-.0025
59	STD1-Blank 108444	-.0022	-.0004	-.0005	-.0009	-1.061	-.0012

#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	SPC-BLK 108444	401.667	2300.33	187.667	770.333	394.667	3564.33
2	SPC-BLK 108444	-.0049	-.0347	-.0013	-.0077	-.0706	-.0415
3	SPC-STD 950831I101	28108	2445.33	71435.3	811.333	406.667	3642.67
4	SPC-STD 950831I101	9.979	-.0140	9.853	-.0070	-.0204	-.0208
5	STD1-Blank	.04083	.23543	.01926	.079	.04076	.36553
6	STD2		46.2825		12.1261	5.85166	
7	STD3	13.6141		7.16656			
8	STD4						17.066
9	STD5						
10	STD6						
11	STD7						
12	STD8						
13	STD9						
14	STD1-Blank	.0408	.23536	.01936	.07903	.0406	.36283
15	STD2		46.2793		12.1377	5.98116	
16	STD3	13.8778		7.11236			
17	STD4						17.1414
18	STD5						
19	STD6						
20	STD7						
21	STD8						
22	STD9						
23	STD1-Blank 108444	-.0007	-.0059	-.0001	.0002	-.0056	-.0039
24	MCVA 950728I901	1.937	26.60	.5177	1.035	24.48	.0063
25	MCVB 950830H901	-.0011	.0864	.0001	-.0011	.0222	1.984
26	SRM-1643c 103668	Q.0100	Q9.990	.0355	.1051	Q11.59	-.0094

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#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
27	CCV1 950713H901	1.947	2.080	1.029	2.009	7.907	.0020
28	STD1-Blank 108444	.0013	.0038	-.0002	-.0007	.0097	.0044
29	MCVA 9507281901	1.961	26.90	.5242	1.050	24.68	.0046
30	STD1-Blank 108444	.0007	.0085	-.0002	.0001	.0167	.0072
31	95-007941-HCB	.0040	.0242	.0005	.0020	.1465	.0319
32	95-007941-H1T @5	.0141	.0431	.0196	.0035	37.43	.0019
33	95-007941-H1T	.0683	.1904	.0990	.0189	183.7	.0156
34	95-007941-H2T	.0238	.3219	.4234	.0350	118.2	.0275
35	95-007946-H1T	.0063	.0257	.0004	.0023	.0958	.0435
36	95-007946-H2T	.0052	.0182	.0001	.0012	.0820	.0332
37	MCVA 9507281901	1.917	26.59	.5173	1.040	24.24	.0117
38	STD1-Blank	.0007	.0053	-.0001	.0002	.0155	-.0010
39	95-007941-HCB @2 KOH	.0534	.0509	.0955	.0099	2.146	.0143
40	95-007941-H1T @10 KOH	.0135	.0457	.0336	.0032	10.93	.0167
41	95-007941-H1T @10 Rerun	.0132	.0500	.0335	.0043	10.82	.0172
42	95-007941-H1T @2 KOH	.0535	.1633	.1542	.0146	49.57	.0259
43	95-007941-H2T @2 KOH	.0600	.1136	.1392	.0146	50.12	.0289
44	95-007941-H1B @2 KOH	.0413	.2059	.1109	.0124	50.86	.0435
45	95-007941-H2B @2 KOH	.0210	.1635	.1186	.0140	50.51	.0385
46	MCVA 9507281901	1.945	26.77	.5212	1.047	24.63	.0137
47	STD1-Blank 108444	.0011	.0073	-.0002	-.0000	.0125	.0026
48	95-007946-HCB @2 KOH	.0112	.0570	.2029	.0121	2.249	.0308
49	95-007946-H1T @10 K	.0126	.1721	.0884	.0032	11.95	.0042
50	95-007946-H1T @2 KOH	.0649	.8196	.4092	.0194	53.73	.0562
51	95-007946-H2T @2 KOH	.0856	.6349	.3335	.0166	60.75	.0474
52	95-007946-H1B @2 KOH	.0647	.7196	.3420	.0167	54.36	.0543
53	95-007946-H2B @2 KOH	.0304	.6477	.3038	.0145	49.99	.0409
54	U @50 PPM	.0053	.3304	.0007	-.0010	.0146	-.0145
55	MCVA 9507281901	1.928	26.51	.5163	1.036	24.55	.0144
56	MCVB 950830H901	.0005	.1035	-.0000	-.0008	.0361	2.015
57	SRM-1643c 103668	0.0120	010.05	.0353	.1047	12.32	-.0116
58	CCV1 950713H901	2.087	2.106	1.035	2.026	8.536	-.0111
59	STD1-Blank 108444	.0001	-.0033	-.0001	-.0008	-.0208	-.0088

#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
1	SPC-BLK 108444	444	1230.33	12883.7	14724.7	14703.7	2476
2	SPC-BLK 108444	-.0096	-.0478	-.0630	-.1301	-.0611	-.0581
3	SPC-STD 950831I101	464	1434	134313	15065.3	15032.7	2649.67
4	SPC-STD 950831I101	-.0034	-.0243	9.805	-.0745	-.0334	-.0088
5	STD1-Blank	.04643	.12829	1.32196	1.50849	1.51056	.2547
6	STD2	6.07599		60.0062			
7	STD3		14.104				
8	STD4						36.4954
9	STD5						
10	STD6						
11	STD7						
12	STD8				21.1194	50.4712	
13	STD9				1.50606	1.50163	.25703
14	STD1-Blank	.04606	.1261	1.31973			
15	STD2	6.09833		59.6687			
16	STD3		13.9647				
17	STD4						

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#	Sample Name	Ni	P	Pb	Pd	Rh	Sb
18	STD5						36.383
19	STD6						
20	STD7						
21	STD8						
22	STD9				21.3371	51.1529	
23	STD1-Blank 108444	.0008	-.0136	-.0032	-.0023	-.0010	.0055
24	MCVA 950728I901	1.063	.0629	2.637	-.0352	-.0041	2.558
25	MCVB 950830H901	.0031	-.0176	.0332	2.013	0.1286	.0025
26	SRM-1643c 103668	.0615	.0058	0.0179	-.0533	-.0220	-.0157
27	CCV1 950713H901	2.104	4.820	2.073	-.0097	.0026	-.0094
28	STD1-Blank 108444	-.0006	.0215	.0017	.0024	.0028	-.0013
29	MCVA 950728I901	1.081	.0866	2.654	-.0483	-.0098	2.588
30	STD1-Blank 108444	.0008	.0138	.0046	.0121	.0067	.0052
31	95-007941-HCB	.0045	.0409	.0267	.0860	.0416	.0196
32	95-007941-H1T @5	.1714	10.92	.0180	-.0014	.0010	-.0089
33	95-007941-H1T	.8513	55.48	.1458	.0348	.0182	-.0301
34	95-007941-H2T	2.952	30.23	.1748	.0439	.0262	-.0513
35	95-007946-H1T	.0054	.0455	.0278	.1139	.0552	.0214
36	95-007946-H2T	.0040	.0298	.0201	.0821	.0408	.0120
37	MCVA 950728I901	1.073	.0726	2.641	-.0271	.0009	2.560
38	STD1-Blank	.0021	.0156	-.0095	-.0082	-.0004	.0079
39	95-007941-HCB @2	11.38	.0942	.0577	.0282	.0522	.0343
40	95-007941-H1T @10 K	10.87	2.613	.0350	.0468	.0311	.0183
41	95-007941-H1T @10 R	10.78	2.595	.0366	.0421	.0322	.0164
42	95-007941-H1T @2 KOH	49.62	12.34	.1263	.0689	.0682	.0447
43	95-007941-H2T @2 KOH	25.96	15.54	.0959	.0628	.0556	.0443
44	95-007941-H1B @2 KOH	13.21	15.05	.1310	.1144	.0724	.0459
45	95-007941-H2B @2 KOH	3.585	18.29	.0885	.0964	.0598	.0366
46	MCVA 950728I901	1.078	.0974	2.663	-.0276	.0038	2.578
47	STD1-Blank 108444	.0034	.0250	-.0011	.0009	.0022	.0106
48	95-007946-HCB @2 KOH	67.51	.1432	.0656	.1996	.0969	.0576
49	95-007946-H1T @10 K	18.14	2.177	.1062	-.0711	.0046	.0089
50	95-007946-H1T @2 KOH	82.86	10.41	.5453	-.1700	.0788	.0583
51	95-007946-H2T @2 KOH	79.19	14.79	.4125	-.1147	.0751	.0522
52	95-007946-H1B @2 KOH	66.84	11.52	.5048	-.1568	.0777	.0508
53	95-007946-H2B @2 KOH	50.15	11.03	.4581	-.1555	.0527	.0449
54	U @50 PPM	.0099	.0480	.1861	-.4727	-.0464	-.0125
55	MCVA 950728I901	1.073	.0874	2.630	-.0106	.0057	2.565
56	MCVB 950830H901	.0055	-.0002	.0264	2.151	0.1349	.0047
57	SRM-1643c 103668	.0607	.0237	0.0054	-.0821	-.0309	-.0062
58	CCV1 950713H901	2.125	4.856	2.062	-.0556	-.0156	-.0137
59	STD1-Blank 108444	.0016	-.0015	-.0172	-.0358	-.0150	-.0032

#	Sample Name	Se	Si	Sn	Sr	Te	Th
1	SPC-BLK 108444	1479.33	4944.33	6567.67	139	9441	2263.33
2	SPC-BLK 108444	-.0432	.1373	-.2242	-.0008	-.0612	-.0128
3	SPC-STD 950831I101	1518.67	5020.67	6798	141.333	10358	2336.33
4	SPC-STD 950831I101	-.0239	.1491	-.1267	-.0005	-.0450	-.0019
5	STD1-Blank	.15103	.43783	.67653	.0142	.97503	.23416
6	STD2				8.6484		
7	STD3						
8	STD4						12.1256

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#	Sample Name	Se	Si	Sn	Sr	Te	Th
9	STD5						
10	STD6						
11	STD7		77.9695			55.1037	
12	STD8	3.93456					
13	STD9			8.50863			
14	STD1-Blank	.15313	.41606	.6722	.01429	.97233	.23156
15	STD2				8.80953		
16	STD3						12.0734
17	STD4						
18	STD5						
19	STD6						
20	STD7		79.2417			56.3482	
21	STD8	4.0184					
22	STD9			8.57206			
23	STD1-Blank 108444	-.0006	-.0254	.0034	-.0000	-.0096	.0036
24	MCVA 950728I901	2.459	18.87	-.1023	.5139	-.0104	.0492
25	MCVB 950830H901	.0137	-.0797	2.006	.0000	1.811	5.204
26	SRM-1643c 103668	0.0162	-.0671	-.1208	.2651	-.0158	-.0094
27	CCV1 950713H901	1.921	4.827	-.0070	2.023	-.0224	.0042
28	STD1-Blank 108444	.0023	.0075	.0036	.0000	.0034	.0033
29	MCVA 950728I901	2.499	19.17	-.1123	.5244	-.0138	.0500
30	STD1-Blank 108444	.0103	-.0071	.0148	.0000	.0095	.0007
31	95-007941-HCB	.0168	.0394	.0899	.0004	.0185	.0030
32	95-007941-H1T @5	-.0048	.3137	.0031	.0051	-.0096	.0006
33	95-007941-H1T	-.0153	1.634	.0218	.0252	-.0327	.0146
34	95-007941-H2T	-.0042	1.784	-.0114	.0486	-.0449	.0359
35	95-007946-H1T	.0215	-.0087	.1338	.0005	.0192	.0022
36	95-007946-H2T	.0157	-.0104	.1055	.0003	.0158	.0070
37	MCVA 950728I901	2.493	18.93	-.0853	.5160	-.0082	.0463
38	STD1-Blank	.0025	.0087	-.0228	-.0000	-.0021	.0029
39	95-007941-HCB @2 KOH	.0437	.4443	.1629	.0020	.0351	.0199
40	95-007941-H1T @10 KOH	.0263	.6454	.1212	.0030	.0131	.0057
41	95-007941-H1T @10 Rerun	.0232	.6597	.1129	.0029	.0219	.0115
42	95-007941-H1T @2 KOH	.0545	2.998	.2630	.0134	.0474	.0336
43	95-007941-H2T @2 KOH	.0535	2.089	.2170	.0110	.0386	.0272
44	95-007941-H1B @2 KOH	.0408	2.773	.2550	.0158	.0468	.0199
45	95-007941-H2B @2 KOH	.0424	2.576	.2224	.0158	.0391	.0132
46	MCVA 950728I901	2.503	19.10	-.0808	.5196	-.0070	.0508
47	STD1-Blank 108444	-.0014	.0017	.0108	.0000	.0031	.0082
48	95-007946-HCB @2 KOH	.0577	.1800	.2788	.0024	.0599	.0441
49	95-007946-H1T @10 K	.0193	.3524	.0228	3.051	.0142	.1127
50	95-007946-H1T @2 KOH	.0817	1.724	.3123	13.90	.0815	.5327
51	95-007946-H2T @2 KOH	.0724	1.921	.2679	9.791	.0757	.4113
52	95-007946-H1B @2 KOH	.0760	1.602	.2808	14.12	.0742	.5064
53	95-007946-H2B @2 KOH	.0656	1.395	.2189	12.01	.0729	.4328
54	U @50 PPM	.0048	.0025	.0746	.0010	-.0052	.7212
55	MCVA 950728I901	2.490	18.90	-.0776	.5400	-.0060	.0515
56	MCVB 950830H901	.0015	-.0307	1.993	.0007	1.837	5.259
57	SRM-1643c 103668	.0128	.0117	-.1252	0.2827	-.0088	-.0069
58	CCV1 950713H901	1.957	4.963	-.0623	2.175	-.0305	.0041
59	STD1-Blank 108444	.0067	-.0321	-.0567	.0007	-.0025	.0001

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#	Sample Name	Ti	Tl	U	V	W	Y
1	SPC-BLK 108444	631	349.667	16626.3	943.333	295.667	248.333
2	SPC-BLK 108444	-.0030	-.0152	-.7743	-.0057	-.0273	-.0024
3	SPC-STD 950831I101	646.667	380.333	17024.7	969	312.333	252.667
4	SPC-STD 950831I101	-.0013	.0330	-.4038	-.0025	-.0174	-.0014
5	STD1-Blank	.0645	.03536	1.70519	.09703	.03003	.02539
6	STD2	15.3532					
7	STD3						
8	STD4						
9	STD5				12.4769		3.25416
10	STD6			51.8043			
11	STD7						
12	STD8		1.24406				
13	STD9					3.29106	
14	STD1-Blank	.06409	.03523	1.69633	.09633	.03053	.0252
15	STD2	15.3894					
16	STD3						
17	STD4						
18	STD5				12.3725		3.20813
19	STD6			52.6533			
20	STD7						
21	STD8		1.26736				
22	STD9					3.30099	
23	STD1-Blank 108444	.0000	-.0052	-.0262	-.0002	-.0025	.0000
24	MCVA 950728I901	1.002	2.477	.0657	1.002	.0308	-.0001
25	MCVB 950830H901	.0002	-.0092	08.362	-.0021	1.910	1.024
26	SRM-1643c 103668	.0070	.0064	-.0238	0.0268	.0017	-.0027
27	CCV1 950713H901	.0002	1.902	.0388	.9697	.0038	-.0002
28	STD1-Blank 108444	.0002	.0014	.0695	.0008	.0132	.0004
29	MCVA 950728I901	1.018	2.508	.0159	1.015	.0327	-.0003
30	STD1-Blank 108444	.0003	.0028	.1087	.0007	.0044	.0004
31	95-007941-HCB	.0021	.0011	.5314	.0046	.0201	.0020
32	95-007941-H1T @5	.0079	.0833	.0861	.0159	.0060	.0001
33	95-007941-H1T	.0392	.4786	.3737	.0808	.0346	.0014
34	95-007941-H2T	.0794	.6521	.5662	.0590	.0546	.0023
35	95-007946-H1T	.0026	.0037	.6589	.0050	.0182	.0025
36	95-007946-H2T	.0020	.0034	.4791	.0039	.0078	.0020
37	MCVA 950728I901	1.005	2.488	.1073	1.002	.0389	-.0001
38	STD1-Blank	.0001	-.0061	-.0300	-.0002	.0052	-.0001
39	95-007941-HCB @2 KOH	.1122	.0251	.2673	.0046	.0307	.0010
40	95-007941-H1T @10 KOH	.0394	.0351	.3713	.0074	.0227	.0008
41	95-007941-H1T @10 Rerun	.0394	.0342	.2950	.0072	.0217	.0010
42	95-007941-H1T @2 KOH	.1803	.1721	.6207	.0262	.0743	.0017
43	95-007941-H2T @2 KOH	.0920	.1557	.5486	.0231	.0601	.0018
44	95-007941-H1B @2 KOH	.0735	.1796	.7958	.0326	.0527	.0030
45	95-007941-H2B @2 KOH	.0562	.2017	.7508	.0382	.0462	.0026
46	MCVA 950728I901	1.012	2.502	.1243	1.008	.0377	.0001
47	STD1-Blank 108444	.0001	-.0063	.0340	.0008	.0056	.0002
48	95-007946-HCB @2 KOH	.1658	.0337	.6920	.0066	.0815	.0020
49	95-007946-H1T @10 K	.0527	.0049	6.849	.0011	.0303	.0012
50	95-007946-H1T @2 KOH	.2451	.0534	30.88	.0111	.1103	.0085
51	95-007946-H2T @2 KOH	.2145	.0505	23.47	.0100	.0978	.0068
52	95-007946-H1B @2 KOH	.1349	.0517	29.25	.0102	.0929	.0083
53	95-007946-H2B @2 KOH	.1558	.0446	25.60	.0087	.0717	.0068

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#	Sample Name	Ti	Tl	U	V	W	Y
54	U @50 PPM	.0011	-.0029	49.33	.0016	.0006	.0037
55	MCVA 950728I901	1.002	2.478	.1828	.9981	.0347	.0004
56	MCVB 950830H901	.0002	-.0163	08.246	-.0029	1.902	1.017
57	SRM-1643c 103668	.0067	0.0011	-.1365	0.0261	.0139	-.0030
58	CCV1 950713H901	-.0008	1.910	-.1806	.9776	.0039	-.0006
59	STD1-Blank 108444	-.0009	-.0070	-.1653	-.0012	.0067	-.0007

#	Sample Name	Zn	Zr
1	SPC-BLK 108444	323.333	782.333
2	SPC-BLK 108444	-.0008	-.0046
3	SPC-STD 950831I101	149107	801
4	SPC-STD 950831I101	9.806	-.0023
5	STD1-Blank	.03193	.08023
6	STD2	29.6181	26.0988
7	STD3		
8	STD4		
9	STD5		
10	STD6		
11	STD7		
12	STD8		
13	STD9		
14	STD1-Blank	.0333	.07963
15	STD2	29.8336	26.0397
16	STD3		
17	STD4		
18	STD5		
19	STD6		
20	STD7		
21	STD8		
22	STD9		
23	STD1-Blank 108444	.0001	-.0002
24	MCVA 950728I901	1.021	2.056
25	MCVB 950830H901	.0007	-.0170
26	SRM-1643c 103668	0.0864	-.0020
27	CCV1 950713H901	1.035	-.0007
28	STD1-Blank 108444	.0004	.0001
29	MCVA 950728I901	1.044	2.095
30	STD1-Blank 108444	.0003	.0004
31	95-007941-HCB	.0026	.0043
32	95-007941-H1T @5	.0147	.0004
33	95-007941-H1T	.0621	.0036
34	95-007941-H2T	.0782	.0039
35	95-007946-H1T	.0003	.0053
36	95-007946-H2T	-.0001	.0035
37	MCVA 950728I901	1.042	2.073
38	STD1-Blank	.0004	.0002
39	95-007941-HCB @2 KOH	.0075	.0657
40	95-007941-H1T @10 KOH	.0022	.0198
41	95-007941-H1T @10 Rerun	.0015	.0191
42	95-007941-H1T @2 KOH	.0076	.0852
43	95-007941-H2T @2 KOH	.0265	.0947
44	95-007941-H1B @2 KOH	.0418	.0570

KOH fusion

3-12:34

Analysis Report Averages Fri 09-01-95 02:01:10 PM page 12

#	Sample Name	Zn	Zr
45	95-007941-H2B @2 KOH	.0557	.0077
46	MCVA 950728I901	1.053	2.089
47	STD1-Blank 108444	.0005	.0001
48	95-007946-HCB @2 KOH	-.0329	.0069
49	95-007946-H1T @10 K	.0055	.0052
50	95-007946-H1T @2 KOH	.0376	.0262
51	95-007946-H2T @2 KOH	.0198	.0203
52	95-007946-H1B @2 KOH	.0326	.0215
53	95-007946-H2B @2 KOH	.0491	.0204
54	U @50 PPM	-.0001	-.0509
55	MCVA 950728I901	1.050	2.070
56	MCVB 950830H901	.0019	-.0191
57	SRM-1643c 103668	0.0898	-.0022
58	CCV1 950713H901	1.064	-.0021
59	STD1-Blank 108444	-.0005	-.0008

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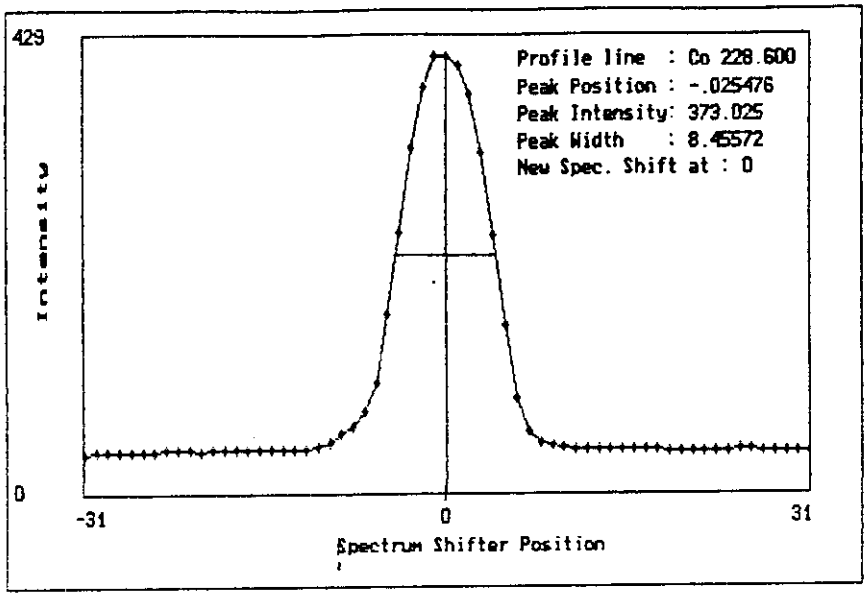
ICP-325-405-1
9/1/95 DKJ



Analysis Report Fri 09-01-95 07:59:42 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/01/95 07:58:24
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6350	2015	1602	1048	295	167	1360
SDev	15	4	11	10	1	1	10
%RSD	.2359	.1743	.7018	.9962	.1959	.3450	.7436
#1	6362	2015	1614	1060	295	168	1354
#2	6354	2011	1599	1043	295	167	1372
#3	6333	2018	1592	1041	294	167	1355

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1227	415	6102	1363	435	452	1878
SDev	2	15	22	5	10	1	8
%RSD	.1630	3.646	.3526	.3668	2.264	.2212	.4305
#1	1229	432	6081	1363	424	451	1885
#2	1227	410	6124	1368	438	452	1879
#3	1225	403	6101	1358	443	453	1869

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	328	546	2102	958	402	2300	188
SDev	1	2	3	3	2	6	1
%RSD	.1762	.2796	.1374	.2762	.5183	.2795	.6153
#1	328	548	2105	961	400	2293	189
#2	328	546	2100	957	401	2305	187
#3	327	545	2100	956	404	2303	187

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	770	395	3564	444	1230	12880	14720
SDev	3	2	8	2	13	17	42
%RSD	.3747	.3870	.2268	.3901	1.029	.1356	.2850
#1	772	396	3563	443	1228	12900	14770
#2	767	393	3573	443	1219	12870	14710
#3	772	395	3557	446	1244	12880	14690

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	14700	2476	1479	4944	6568	139	9441
SDev	32	6	5	29	41	0	13
%RSD	.2157	.2457	.3195	.5870	.6170	.0000	.1401
#1	14730	2473	1483	4976	6594	139	9436
#2	14710	2483	1481	4938	6588	139	9431
#3	14670	2472	1474	4919	6521	139	9456

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2263	631	350	16630	943	296	248
SDev	13	3	3	44	3	2	1
%RSD	.5766	.4193	.7197	.2626	.3408	.5166	.2325
#1	2251	632	347	16680	947	296	248
#2	2277	633	352	16610	941	297	249
#3	2262	628	350	16590	942	294	248

Elem	Zn	Zr
Avge	323	782
SDev	2	1
%RSD	.4724	.0738
#1	323	783
#2	322	782
#3	325	782

Analysis Report Fri 09-01-95 08:00:22 AM page 1

Method: ICP1 Sample Name: SPC-BLK 108444 Operator: DRS
Run Time: 09/01/95 07:58:24
Comment: SPC-BLK FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0075	-.0456	-.0308	-.0051	-.0017	-.0004	-.0271
SDev	.0004	.0029	.0037	.0010	.0001	.0000	.0038
%RSD	5.206	6.338	12.09	18.89	4.038	7.124	13.86
#1	-.0073	-.0457	-.0268	-.0040	-.0017	-.0003	-.0295
#2	-.0074	-.0484	-.0317	-.0056	-.0017	-.0004	-.0228
#3	-.0080	-.0426	-.0341	-.0058	-.0018	-.0004	-.0290

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0299	-.0041	-.0425	-.0078	-.0051	-.0092	-.0069
SDev	.0005	.0015	.0044	.0005	.0015	.0005	.0007
%RSD	1.631	35.44	10.39	6.954	29.57	5.669	10.88
#1	-.0294	-.0025	-.0469	-.0078	-.0067	-.0098	-.0062
#2	-.0299	-.0046	-.0381	-.0072	-.0046	-.0092	-.0068
#3	-.0304	-.0053	-.0425	-.0083	-.0038	-.0087	-.0077

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0022	-.0068	-1.105	-.0119	-.0049	-.0347	-.0013
SDev	.0001	.0003	.049	.0003	.0008	.0049	.0001
%RSD	3.699	4.790	4.396	6.328	15.26	14.03	11.40
#1	-.0022	-.0064	-1.049	-.0111	-.0055	-.0404	-.0011
#2	-.0022	-.0068	-1.133	-.0122	-.0052	-.0316	-.0014
#3	-.0023	-.0071	-1.133	-.0125	-.0041	-.0323	-.0014

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0077	-.0706	-.0415	-.0096	-.0478	-.0630	-.1301
SDev	.0005	.0065	.0023	.0006	.0091	.0014	.0129
%RSD	6.019	9.144	5.660	5.896	19.13	2.243	9.881
#1	-.0074	-.0650	-.0421	-.0100	-.0495	-.0615	-.1153
#2	-.0082	-.0777	-.0389	-.0100	-.0559	-.0642	-.1380
#3	-.0074	-.0691	-.0434	-.0090	-.0379	-.0634	-.1371

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0611	-.0581	-.0432	.1373	-.2242	-.0008	-.0612
SDev	.0028	.0018	.0023	.0067	.0264	.0000	.0013
%RSD	4.509	3.019	5.422	4.878	11.76	.5111	2.129
#1	-.0586	-.0590	-.0415	.1446	-.2080	-.0008	-.0619
#2	-.0607	-.0561	-.0423	.1359	-.2100	-.0008	-.0621
#3	-.0641	-.0592	-.0459	.1314	-.2546	-.0008	-.0597

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0128	-.0030	-.0152	-.7743	-.0057	-.0273	-.0024
SDev	.0071	.0003	.0041	.0477	.0004	.0021	.0002

%RSD	55.62	10.62	26.85	6.164	7.619	7.773	7.153
#1	-.0203	-.0029	-.0197	-.7195	-.0052	-.0270	-.0026
#2	-.0062	-.0028	-.0116	-.7972	-.0060	-.0254	-.0022
#3	-.0118	-.0034	-.0145	-.8063	-.0059	-.0296	-.0025

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0008	-.0047
SDev	.0001	.0006
%RSD	11.77	12.44
#1	-.0009	-.0040
#2	-.0009	-.0052
#3	-.0007	-.0048

Analysis Report Fri 09-01-95 08:02:35 AM page 1

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/01/95 08:01:17
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: INT Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	6552	2081	1696	1098	302	170	1672
SDev	34	6	18	9	1	1	6
%RSD	.5169	.2923	1.073	.7960	.1914	.3390	.3604
#1	6574	2085	1685	1088	302	170	1678
#2	6569	2084	1717	1105	302	171	1666
#3	6513	2074	1686	1100	301	170	1673

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	1220	446	6217	1397	479	24160	2148
SDev	5	4	28	7	6	72	9
%RSD	.3756	.7868	.4462	.5080	1.275	.2976	.4068
#1	1219	443	6240	1403	486	24110	2150
#2	1225	450	6224	1398	474	24120	2155
#3	1216	446	6186	1389	478	24240	2138

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	334	613	2142	980	28110	2445	71440
SDev	2	4	9	6	782	13	72
%RSD	.5186	.5882	.3971	.6372	2.784	.5274	.1012
#1	335	614	2145	982	27680	2456	71470
#2	335	616	2148	985	27630	2449	71480
#3	332	609	2132	973	29010	2431	71350

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	811	407	3643	464	1434	134300	15070
SDev	6	3	15	4	39	189	73
%RSD	.7531	.7905	.4220	.7771	2.722	.1407	.4873
#1	810	409	3653	467	1436	134500	15100
#2	818	408	3650	465	1394	134100	15120
#3	806	403	3625	460	1472	134300	14980

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	15030	2650	1519	5021	6798	141	10360
SDev	66	8	23	22	16	1	40
%RSD	.4416	.3027	1.502	.4283	.2354	.4085	.3857
#1	15080	2649	1506	4997	6814	141	10380
#2	15060	2642	1545	5026	6798	142	10380
#3	14960	2658	1505	5039	6782	141	10310

Elem	Th	Ti	Tl	U	V	W	Y
Avge	2336	647	380	17020	969	312	253
SDev	8	3	5	43	3	6	1
%RSD	.3213	.4971	1.186	.2499	.3096	1.821	.2265
#1	2332	649	380	17030	972	306	253
#2	2345	648	385	17070	969	314	253
#3	2332	643	376	16980	966	317	252

Elem	Zn	Zr
Avge	149100	801
SDev	176	3
%RSD	.1180	.3303
#1	148900	803
#2	149200	802
#3	149200	798

Analysis Report Fri 09-01-95 08:03:38 AM page 1

Method: ICP1 Sample Name: SPC-STD 950831I101 Operator: DRS
Run Time: 09/01/95 08:01:17
Comment: SPC-STD FOR Mn/Cu RATIO
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	-.0333	-.0000	-.0007	-.0009	-.0002	-.0124
SDev	.0010	.0032	.0061	.0008	.0001	.0000	.0023
%RSD	51.40	9.694	18010.	128.2	7.838	11.22	18.29
#1	-.0013	-.0304	-.0039	-.0016	-.0008	-.0003	-.0101
#2	-.0015	-.0326	.0070	.0000	-.0008	-.0002	-.0146
#3	-.0031	-.0368	-.0032	-.0004	-.0009	-.0003	-.0124

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0332	-.0013	-.0229	-.0043	.0016	9.922	-.0076
SDev	.0013	.0003	.0051	.0008	.0009	.030	.0008
%RSD	3.828	21.86	22.28	17.80	59.43	.3046	9.912
#1	-.0335	-.0016	-.0185	-.0036	.0026	9.904	-.0074
#2	-.0318	-.0010	-.0218	-.0042	.0007	9.905	-.0069
#3	-.0343	-.0013	-.0285	-.0052	.0014	9.957	-.0084

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	-.0051	-.4320	-.0059	9.979	-.0140	9.853
SDev	.0003	.0009	.1432	.0019	.282	.0059	.010
%RSD	19.56	16.70	33.14	31.85	2.826	42.33	.1013
#1	-.0012	-.0049	-.3759	-.0052	9.826	-.0094	9.859
#2	-.0012	-.0044	-.3254	-.0044	9.807	-.0134	9.860
#3	-.0017	-.0061	-.5947	-.0080	10.30	-.0202	9.842

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0070	-.0204	-.0208	-.0034	-.0243	9.805	-.0745
SDev	.0010	.0136	.0043	.0011	.0276	.015	.0151
%RSD	13.69	66.49	20.40	33.15	113.8	.1570	20.25
#1	-.0072	-.0105	-.0179	-.0025	-.0224	9.821	-.0661
#2	-.0060	-.0148	-.0189	-.0031	-.0528	9.790	-.0655
#3	-.0079	-.0359	-.0257	-.0047	.0024	9.806	-.0919

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0334	-.0088	-.0239	.1491	-.1267	-.0005	-.0450
SDev	.0060	.0024	.0118	.0053	.0104	.0001	.0036
%RSD	18.03	27.35	49.27	3.585	8.217	11.76	7.987
#1	-.0284	-.0090	-.0305	.1434	-.1156	-.0006	-.0426
#2	-.0317	-.0111	-.0103	.1497	-.1281	-.0005	-.0434
#3	-.0401	-.0063	-.0309	.1541	-.1363	-.0006	-.0492

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	-.0013	.0330	-.4038	-.0025	-.0174	-.0014
SDev	.0017	.0004	.0073	.0405	.0004	.0083	.0001

%RSD	91.89	28.74	22.07	10.03	16.67	47.35	10.15
#1	-.0038	-.0010	.0329	-.4025	-.0020	-.0266	-.0013
#2	-.0003	-.0012	.0404	-.3640	-.0026	-.0151	-.0013
#3	-.0016	-.0018	.0258	-.4450	-.0029	-.0106	-.0016

Elem	Zn	Zr
Units	ppm	ppm
Avge	9.806	-.0023
SDev	.012	.0005
%RSD	.1183	23.12
#1	9.792	-.0018
#2	9.811	-.0022
#3	9.814	-.0028

Standardization Rot. Fri 09-01-95 08:28:16 AM page 1

Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6515	.2068	.1661	.1061	.0302	.0171	.1411
SDev	.0024	.0003	.0007	.0012	.0001	.0000	.0015
%RSD	.3663	.1554	.4439	1.093	.3311	.0000	1.044
#1	.6504	.2066	.1655	.1055	.0301	.0171	.1420
#2	.6542	.2067	.1669	.1074	.0303	.0171	.1419
#3	.6498	.2072	.1658	.1053	.0302	.0171	.1394

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1261	.0452	.6250	.1396	.0452	.0465	.1930
SDev	.0003	.0016	.0031	.0005	.0007	.0001	.0004
%RSD	.2423	3.540	.4919	.3283	1.549	.3287	.2337
#1	.1260	.0436	.6215	.1391	.0459	.0463	.1925
#2	.1258	.0453	.6271	.1397	.0452	.0465	.1934
#3	.1264	.0468	.6265	.1400	.0445	.0466	.1930

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0335	.0565	.2146	.0981	.0408	.2354	.0193
SDev	.0000	.0002	.0003	.0003	.0001	.0003	.0001
%RSD	.0000	.3687	.1424	.2944	.3741	.1298	.7928
#1	.0336	.0563	.2145	.0979	.0408	.2357	.0194
#2	.0335	.0564	.2143	.0984	.0407	.2355	.0191
#3	.0335	.0567	.2149	.0979	.0410	.2351	.0193

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0790	.0408	.3655	.0464	.1283	1.322	1.508
SDev	.0007	.0004	.0007	.0003	.0010	.007	.004
%RSD	.8861	1.106	.1862	.6923	.8212	.5361	.2406
#1	.0785	.0403	.3650	.0468	.1272	1.319	1.504
#2	.0787	.0412	.3663	.0463	.1293	1.317	1.510
#3	.0798	.0408	.3653	.0462	.1284	1.330	1.511

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.511	.2547	.1510	.4378	.6765	.0142	.9750
SDev	.002	.0046	.0003	.0015	.0021	.0000	.0022
%RSD	.1201	1.794	.2023	.3390	.3161	.0000	.2308
#1	1.509	.2499	.1507	.4362	.6752	.0142	.9768
#2	1.513	.2590	.1513	.4382	.6754	.0142	.9725
#3	1.510	.2552	.1511	.4391	.6790	.0142	.9758

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2342	.0645	.0354	1.705	.0970	.0300	.0254
SDev	.0007	.0002	.0004	.001	.0001	.0003	.0001
%RSD	.2843	.2685	1.070	.0713	.1190	.8379	.3937
#1	.2349	.0644	.0358	1.705	.0971	.0300	.0254
#2	.2336	.0647	.0351	1.707	.0969	.0303	.0253
#3	.2340	.0644	.0352	1.704	.0971	.0298	.0255

Elem	Zn	Zr
Avge	.0319	.0802
SDev	.0005	.0001

%RSD	1.545	.1904
#1	.0316	.0804
#2	.0317	.0801
#3	.0325	.0802

Standardization Rpt. Fri 09-01-95 08:30:00 AM page 1

Method: ICF1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.261	17.64	12.71	4.747	76.42	46.28	12.13
SDev	.069	.09	.07	.033	.42	.26	.07
%RSD	.8335	.5117	.5241	.7053	.5495	.5564	.5807
#1	8.234	17.59	12.68	4.733	76.25	46.19	12.08
#2	8.340	17.74	12.79	4.785	76.89	46.57	12.21
#3	8.211	17.58	12.66	4.723	76.10	46.08	12.09

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.852	6.080	60.01	8.648	15.35	29.62	26.10
SDev	.055	.031	.20	.070	.11	.17	.19
%RSD	.9436	.5172	.3260	.8103	.6868	.5583	.7297
#1	5.863	6.061	59.96	8.604	15.31	29.53	26.03
#2	5.900	6.116	60.22	8.729	15.47	29.81	26.31
#3	5.792	6.063	59.84	8.612	15.28	29.52	25.95

Standardization Rpt. Fri 09-01-95 08:33:42 AM page 1

Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	74.87	51.10	80.18	10.04	3.052	13.61	7.167
SDev	.23	.14	.09	.02	.009	.04	.011
%RSD	.3121	.2825	.1095	.2383	.3061	.3221	.1598
#1	75.04	51.21	80.21	10.04	3.060	13.64	7.172
#2	74.60	50.94	80.08	10.01	3.042	13.56	7.153
#3	74.96	51.16	80.25	10.06	3.054	13.64	7.174

Elem	P
Avge	14.10
SDev	.00
%RSD	.0308
#1	14.11
#2	14.10
#3	14.11

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Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	49.50	11.44	6.266	17.07	12.13
SDev	.17	.04	.021	.08	.03
%RSD	.3477	.3921	.3349	.4442	.2773
#1	49.44	11.42	6.256	17.02	12.13
#2	49.37	11.41	6.251	17.03	12.09
#3	49.69	11.49	6.290	17.15	12.16

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.48	25.49	36.50	12.48	3.254
SDev	.02	.03	.04	.01	.001
%RSD	.0778	.1267	.1144	.0683	.0233
#1	27.47	25.48	36.53	12.48	3.254
#2	27.47	25.47	36.45	12.47	3.253
#3	27.50	25.53	36.50	12.49	3.255

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Method: ICP1 Standard: STD6

Elem	U
Avge	51.80
SDev	.48
%RSD	.9341
#1	51.30
#2	51.85
#3	52.26

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.882	77.97	55.10
SDev	.009	.27	.25
%RSD	.4566	.3449	.4528
#1	1.888	78.12	55.32
#2	1.872	77.66	54.83
#3	1.886	78.13	55.17

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.51	27.29	3.935	1.244
SDev	.11	.07	.016	.003
%RSD	.3546	.2492	.3942	.2584
#1	30.63	27.37	3.950	1.246
#2	30.47	27.25	3.934	1.240
#3	30.42	27.25	3.919	1.245

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.12	50.47	8.509	3.291
SDev	.12	.26	.042	.028
%RSD	.5833	.5171	.4931	.8426
#1	21.21	50.69	8.547	3.319
#2	20.98	50.18	8.464	3.264
#3	21.17	50.54	8.515	3.290

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Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.334968	-.218220	09/01/95 08:55:11
Al	308.215	STD3	STD1-Blank	6.69703	-1.38517	09/01/95 08:55:11
As	193.600	STD5	STD1-Blank	3.66126	-.608014	09/01/95 08:55:11
B	249.600	STD3	STD1-Blank	.980462	-.103994	09/01/95 08:55:11
Ba	493.400	STD2	STD1-Blank	1.21488	-.036690	09/01/95 08:55:11
Be	313.042	STD7	STD1-Blank	.536241	-.009170	09/01/95 08:55:11
Bi	223.061	STD8	STD1-Blank	3.68347	-.519738	09/01/95 08:55:11
Ca	317.900	STD3	STD1-Blank	3.12281	-.393683	09/01/95 08:55:11
Cd	228.800	STD3	STD1-Blank	1.00086	-.045272	09/01/95 08:55:11
Ce	418.659	STD5	STD1-Blank	2.01054	-1.25665	09/01/95 08:55:11
Co	228.600	STD2	STD1-Blank	1.14305	-.159570	09/01/95 08:55:11
Cr	205.500	STD2	STD1-Blank	1.57934	-.071386	09/01/95 08:55:11
Cu	324.700	STD2	STD1-Blank	4.25487	-.197709	09/01/95 08:55:11
Dy	353.170	STD4	STD1-Blank	1.01409	-.195686	09/01/95 08:55:11
Eu	381.900	STD4	STD1-Blank	1.75285	-.058720	09/01/95 08:55:11
Fe	259.900	STD2	STD1-Blank	2.61920	-.147898	09/01/95 08:55:11
K	766.500	STD3	STD1-Blank	176.220	-37.8109	09/01/95 08:55:11
La	398.852	STD4	STD1-Blank	3.24265	-.317996	09/01/95 08:55:11
Li	670.700	STD3	STD1-Blank	3.68371	-.150418	09/01/95 08:55:11
Mg	279.078	STD2	STD1-Blank	5.42923	-1.27822	09/01/95 08:55:11
Mn	257.600	STD3	STD1-Blank	1.39913	-.026957	09/01/95 08:55:11
Mo	202.000	STD2	STD1-Blank	1.66015	-.131152	09/01/95 08:55:11
Na	588.900	STD2	STD1-Blank	43.0226	-1.75389	09/01/95 08:55:11
Nd	406.106	STD4	STD1-Blank	2.99392	-1.09438	09/01/95 08:55:11
Ni	231.600	STD2	STD1-Blank	3.31479	-.153917	09/01/95 08:55:11
P	214.900	STD3	STD1-Blank	7.15526	-.918020	09/01/95 08:55:11
Pb	220.300	STD2	STD1-Blank	.852017	-1.12634	09/01/95 08:55:
Pd	360.959	STD9	STD1-Blank	2.54961	-3.84608	09/01/95 08:55:
Rh	343.489	STD9	STD1-Blank	1.02123	-1.54263	09/01/95 08:55:11
Sb	206.838	STD5	STD1-Blank	2.75933	-.702802	09/01/95 08:55:11
Se	196.026	STD6	STD1-Blank	5.28606	-.798372	09/01/95 08:55:11
Si	288.100	STD7	STD1-Blank	2.57959	-1.12943	09/01/95 08:55:11
Sn	242.950	STD9	STD1-Blank	7.33864	-4.96483	09/01/95 08:55:11
Sr	421.500	STD2	STD1-Blank	1.15818	-.016446	09/01/95 08:55:11
Te	214.275	STD7	STD1-Blank	.923725	-.900663	09/01/95 08:55:11
Th	283.730	STD4	STD1-Blank	4.20471	-.984602	09/01/95 08:55:11
Ti	334.900	STD2	STD1-Blank	1.30816	-.084376	09/01/95 08:55:11
Tl	190.864	STD8	STD1-Blank	16.5467	-.585202	09/01/95 08:55:11
U	378.280	STD6	STD1-Blank	9.98023	-17.0183	09/01/95 08:55:11
V	292.402	STD5	STD1-Blank	1.61553	-.156760	09/01/95 08:55:11
W	224.875	STD9	STD1-Blank	15.5371	-.466630	09/01/95 08:55:11
Y	371.030	STD5	STD1-Blank	3.09716	-.078668	09/01/95 08:55:11
Zn	213.800	STD2	STD1-Blank	.675992	-.021587	09/01/95 08:55:11
Zr	339.100	STD2	STD1-Blank	1.92170	-.154185	09/01/95 08:55:11

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	2.98536	.218220	09/01/95 08:55:11
Al	308.215	STD3	STD1-Blank	.149320	1.38517	09/01/95 08:55:11
As	193.600	STD5	STD1-Blank	.273130	.608014	09/01/95 08:55:11
B	249.600	STD3	STD1-Blank	1.01993	.103994	09/01/95 08:55:11
Ba	493.400	STD2	STD1-Blank	.823123	.036690	09/01/95 08:55:11
Be	313.042	STD7	STD1-Blank	1.86483	.009170	09/01/95 08:55:11
Bi	223.061	STD8	STD1-Blank	.271483	.519738	09/01/95 08:55:11
Ca	317.900	STD3	STD1-Blank	.320224	.393683	09/01/95 08:55:11
Cd	228.800	STD3	STD1-Blank	.999137	.045272	09/01/95 08:55:11
Ce	418.659	STD5	STD1-Blank	.497380	1.25665	09/01/95 08:55:11
Co	228.600	STD2	STD1-Blank	.874852	.159570	09/01/95 08:55:11
Cr	205.500	STD2	STD1-Blank	.633175	.071386	09/01/95 08:55:11
Cu	324.700	STD2	STD1-Blank	.235025	.197709	09/01/95 08:55:11
Dy	353.170	STD4	STD1-Blank	.986105	.195686	09/01/95 08:55:11
Eu	381.900	STD4	STD1-Blank	.570500	.058720	09/01/95 08:55:11
Fe	259.900	STD2	STD1-Blank	.381796	.147898	09/01/95 08:55:11
K	766.500	STD3	STD1-Blank	.005675	37.8109	09/01/95 08:55:11
La	398.852	STD4	STD1-Blank	.308390	.317996	09/01/95 08:55:11
Li	670.700	STD3	STD1-Blank	.271465	.150418	09/01/95 08:55:11
Mg	279.078	STD2	STD1-Blank	.184188	1.27822	09/01/95 08:55:11
Mn	257.600	STD3	STD1-Blank	.714730	.026957	09/01/95 08:55:11
Mo	202.000	STD2	STD1-Blank	.602355	.131152	09/01/95 08:55:11
Na	588.900	STD2	STD1-Blank	.023244	1.75389	09/01/95 08:55:11
Nd	406.106	STD4	STD1-Blank	.334010	1.09438	09/01/95 08:55:11
Ni	231.600	STD2	STD1-Blank	.301678	.153917	09/01/95 08:55:11
P	214.900	STD3	STD1-Blank	.139757	.918020	09/01/95 08:55:11
Pb	220.300	STD2	STD1-Blank	1.17369	1.12634	09/01/95 08:55:11
Pd	360.959	STD9	STD1-Blank	.392217	3.84608	09/01/95 08:55:11
Rh	343.489	STD9	STD1-Blank	.979213	1.54263	09/01/95 08:55:11
Sb	206.838	STD5	STD1-Blank	.362407	.702802	09/01/95 08:55:11
Se	196.026	STD8	STD1-Blank	.189177	.798372	09/01/95 08:55:11
Si	288.100	STD7	STD1-Blank	.387658	1.12943	09/01/95 08:55:11
Sn	242.950	STD9	STD1-Blank	.136265	4.96483	09/01/95 08:55:11
Sr	421.500	STD2	STD1-Blank	.863420	.016446	09/01/95 08:55:11
Te	214.275	STD7	STD1-Blank	1.08257	.900663	09/01/95 08:55:11
Th	283.730	STD4	STD1-Blank	.237829	.984602	09/01/95 08:55:11
Ti	334.900	STD2	STD1-Blank	.764435	.084376	09/01/95 08:55:11
Tl	190.864	STD8	STD1-Blank	.060435	.585202	09/01/95 08:55:11
U	378.280	STD6	STD1-Blank	.100198	17.0183	09/01/95 08:55:11
V	292.402	STD5	STD1-Blank	.618992	.156760	09/01/95 08:55:11
W	224.875	STD9	STD1-Blank	.064362	.466630	09/01/95 08:55:11
Y	371.030	STD5	STD1-Blank	.322877	.078668	09/01/95 08:55:11
Zn	213.800	STD2	STD1-Blank	1.47931	.021587	09/01/95 08:55:11
Zr	339.100	STD2	STD1-Blank	.520371	.154185	09/01/95 08:55:11

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	-.000000	.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	-.000000	.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	.000000	-.000000
		STD7	1.00000	1.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	.000000	-.000000
		STD3	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	.000000	-.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	205.500	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.700	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000002
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Dy	353.170	STD1-Blank	.000000	.000000	-.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Eu	381.900	STD1-Blank	.000000	.000000	-.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	259.900	STD1-Blank	.000000	-.000000	.000000
		STD2	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.500	STD1-Blank	.000000	-.000001	.000001
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
La	398.852	STD1-Blank	.000000	-.000000	.000000
		STD4	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Li	670.700	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.600	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.000	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	568.900	STD1-Blank	.000000	-.000000	.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	.000000	-.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	.000000	-.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	-.000000	.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	.000000	-.000000
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	-.000000	.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	-.000000	.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Standard: STD1-Blank

Elem	Ag	Al	As	B	Ba	Be	Bi
Avge	.6466	.2062	.1659	.1040	.0302	.0171	.1416
SDev	.0027	.0008	.0019	.0006	.0001	.0001	.0012
%RSD	.4127	.3949	1.116	.6105	.3819	.3383	.8718
#1	.6438	.2053	.1638	.1033	.0301	.0170	.1402
#2	.6491	.2066	.1673	.1044	.0303	.0171	.1419
#3	.6470	.2068	.1666	.1044	.0303	.0171	.1426

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Avge	.1252	.0442	.6192	.1396	.0466	.0466	.1917
SDev	.0005	.0003	.0024	.0010	.0016	.0003	.0009
%RSD	.3774	.5986	.3788	.7245	3.546	.6561	.4976
#1	.1247	.0440	.6172	.1390	.0449	.0463	.1906
#2	.1256	.0445	.6218	.1408	.0467	.0469	.1923
#3	.1254	.0441	.6187	.1391	.0482	.0465	.1922

Elem	Eu	Fe	K	La	Li	Mg	Mn
Avge	.0335	.0559	.2128	.0978	.0408	.2354	.0194
SDev	.0001	.0001	.0005	.0004	.0002	.0006	.0002
%RSD	.4564	.2067	.2442	.4457	.4902	.2416	1.192
#1	.0333	.0558	.2122	.0973	.0408	.2349	.0191
#2	.0336	.0560	.2131	.0981	.0406	.2360	.0195
#3	.0335	.0558	.2131	.0980	.0410	.2352	.0195

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Avge	.0790	.0406	.3628	.0461	.1261	1.320	1.506
SDev	.0006	.0003	.0018	.0005	.0013	.008	.004
%RSD	.8135	.7389	.4816	1.026	1.040	.6209	.2961
#1	.0783	.0406	.3609	.0459	.1259	1.311	1.501
#2	.0793	.0409	.3643	.0466	.1275	1.321	1.509
#3	.0795	.0403	.3633	.0457	.1249	1.327	1.508

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Avge	1.502	.2570	.1531	.4161	.6722	.0143	.9723
SDev	.007	.0016	.0013	.0015	.0005	.0000	.0124
%RSD	.4873	.6420	.8523	.3608	.0682	.0000	1.271
#1	1.493	.2575	.1519	.4146	.6727	.0143	.9622
#2	1.505	.2552	.1530	.4176	.6718	.0143	.9687
#3	1.506	.2584	.1545	.4160	.6721	.0143	.9861

Elem	Th	Ti	Tl	U	V	W	Y
Avge	.2316	.0641	.0352	1.696	.0963	.0305	.0252
SDev	.0007	.0002	.0002	.005	.0004	.0001	.0002
%RSD	.3033	.3120	.5908	.3153	.3930	.3782	.6873
#1	.2309	.0639	.0350	1.692	.0959	.0304	.0250
#2	.2315	.0641	.0353	1.694	.0966	.0306	.0253
#3	.2323	.0643	.0354	1.702	.0965	.0306	.0253

Elem	Zn	Zr
Avge	.0333	.0796
SDev	.0002	.0004

%RSD	.6006	.5663
#1	.0331	.0792
#2	.0335	.0796
#3	.0333	.0801

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Method: ICP1 Standard: STD2

Elem	Ba	Co	Cr	Cu	Fe	Mg	Mo
Avge	8.324	17.62	12.65	4.786	76.17	46.28	12.14
SDev	.046	.03	.01	.024	.14	.10	.02
%RSD	.5520	.1763	.1113	.5022	.1878	.2131	.1866
#1	8.362	17.61	12.66	4.807	76.27	46.35	12.13
#2	8.273	17.60	12.64	4.760	76.01	46.17	12.12
#3	8.338	17.66	12.66	4.793	76.24	46.32	12.16

Elem	Na	Ni	Pb	Sr	Ti	Zn	Zr
Avge	5.981	6.098	59.67	8.810	15.39	29.83	26.04
SDev	.056	.003	.08	.045	.06	.04	.10
%RSD	.9337	.0526	.1360	.5126	.3668	.1190	.3786
#1	6.043	6.099	59.58	8.833	15.43	29.85	26.12
#2	5.935	6.095	59.68	8.757	15.33	29.79	25.93
#3	5.965	6.101	59.74	8.839	15.41	29.86	26.08

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Method: ICP1 Standard: STD3

Elem	Al	B	Ca	Cd	K	Li	Mn
Avge	74.94	51.02	79.47	9.956	3.117	13.88	7.112
SDev	.29	.20	.10	.034	.028	.13	.012
%RSD	.3866	.3923	.1250	.3419	.8871	.9606	.1750
#1	74.88	50.97	79.36	9.934	3.112	13.86	7.103
#2	74.68	50.84	79.51	9.939	3.092	13.76	7.107
#3	75.25	51.23	79.54	9.995	3.147	14.02	7.127

Elem	P
Avge	13.96
SDev	.03
%RSD	.2261
#1	13.93
#2	13.99
#3	13.98

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Method: ICP1 Standard: STD4

Elem	Dy	Eu	La	Nd	Th
Avge	49.49	11.45	6.278	17.14	12.07
SDev	.29	.06	.031	.09	.05
%RSD	.5782	.5303	.4891	.5205	.4425
#1	49.30	11.40	6.248	17.07	12.03
#2	49.82	11.52	6.309	17.24	12.13
#3	49.34	11.43	6.278	17.12	12.06

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Method: ICP1 Standard: STD5

Elem	As	Ce	Sb	V	Y
Avge	27.32	25.52	36.38	12.37	3.208
SDev	.08	.10	.12	.04	.013
%RSD	.3049	.4063	.3253	.3561	.4191
#1	27.23	25.40	36.26	12.33	3.193
#2	27.39	25.60	36.49	12.41	3.217
#3	27.35	25.55	36.39	12.38	3.214

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Method: ICP1 Standard: STD6

Elem	U
Avge	52.65
SDev	.24
%RSD	.4613
#1	52.92
#2	52.44
#3	52.61

Standardization Rpt.

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Method: ICP1 Standard: STD7

Elem	Be	Si	Te
Avge	1.920	79.24	56.35
SDev	.011	.30	.32
%RSD	.5888	.3739	.5642
#1	1.908	78.90	55.98
#2	1.923	79.41	56.52
#3	1.931	79.42	56.55

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Method: ICP1 Standard: STD8

Elem	Ag	Bi	Se	Tl
Avge	30.96	27.71	4.018	1.267
SDev	.25	.23	.033	.009
%RSD	.8124	.8447	.8243	.6820
#1	30.68	27.44	3.983	1.258
#2	31.15	27.86	4.049	1.271
#3	31.07	27.83	4.023	1.274

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Method: ICP1 Standard: STD9

Elem	Pd	Rh	Sn	W
Avge	21.34	51.15	8.572	3.301
SDev	.09	.23	.025	.008
%RSD	.4106	.4577	.2932	.2451
#1	21.26	50.95	8.553	3.294
#2	21.33	51.10	8.562	3.300
#3	21.43	51.41	8.601	3.310

Standardization Report Fri 09-01-95 10:28:23 AM page 1

Method: ICP1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag	328.068	STD8	STD1-Blank	.329835	-.213282	09/01/95 10:26:34
Al	308.215	STD3	STD1-Blank	6.69083	-1.37987	09/01/95 10:26:34
As	193.600	STD5	STD1-Blank	3.68217	-.610872	09/01/95 10:26:34
B	249.600	STD3	STD1-Blank	.982105	-.102172	09/01/95 10:26:34
Ba	493.400	STD2	STD1-Blank	1.20571	-.036452	09/01/95 10:26:34
Be	313.042	STD7	STD1-Blank	.525385	-.008967	09/01/95 10:26:34
Bi	223.061	STD8	STD1-Blank	3.62683	-.513439	09/01/95 10:26:34
Ca	317.900	STD3	STD1-Blank	3.15085	-.394591	09/01/95 10:26:34
Cd	228.800	STD3	STD1-Blank	1.00889	-.044593	09/01/95 10:26:34
Ce	418.659	STD5	STD1-Blank	2.00828	-1.24360	09/01/95 10:26:34
Co	228.600	STD2	STD1-Blank	1.14397	-.159737	09/01/95 10:26:34
Cr	205.500	STD2	STD1-Blank	1.58638	-.073925	09/01/95 10:26:34
Cu	324.700	STD2	STD1-Blank	4.21956	-.196491	09/01/95 10:26:34
Dy	353.170	STD4	STD1-Blank	1.01431	-.194444	09/01/95 10:26:34
Eu	381.900	STD4	STD1-Blank	1.75179	-.058627	09/01/95 10:26:34
Fe	259.900	STD2	STD1-Blank	2.62747	-.146788	09/01/95 10:26:34
K	766.500	STD3	STD1-Blank	172.178	-36.6395	09/01/95 10:26:34
La	398.852	STD4	STD1-Blank	3.23598	-.316479	09/01/95 10:26:34
Li	670.700	STD3	STD1-Blank	3.61349	-.147430	09/01/95 10:26:34
Mg	279.078	STD2	STD1-Blank	5.42959	-1.27795	09/01/95 10:26:34
Mn	257.600	STD3	STD1-Blank	1.40984	-.027304	09/01/95 10:26:34
Mo	202.000	STD2	STD1-Blank	1.65855	-.131081	09/01/95 10:26:34
Na	588.900	STD2	STD1-Blank	42.0835	-1.70859	09/01/95 10:26:34
Nd	406.106	STD4	STD1-Blank	2.97999	-1.08124	09/01/95 10:26:34
Ni	231.600	STD2	STD1-Blank	3.30455	-.152229	09/01/95 10:26:34
P	214.900	STD3	STD1-Blank	7.22615	-.911217	09/01/95 10:26:[illegible]
Pb	220.300	STD2	STD1-Blank	.856913	-1.13090	09/01/95 10:26:
Pd	360.959	STD9	STD1-Blank	2.52130	-3.79724	09/01/95 10:26:[illegible]
Rh	343.489	STD9	STD1-Blank	1.00702	-1.51218	09/01/95 10:26:34
Sb	206.838	STD5	STD1-Blank	2.76809	-.711493	09/01/95 10:26:34
Se	196.026	STD8	STD1-Blank	5.17429	-.792356	09/01/95 10:26:34
Si	288.100	STD7	STD1-Blank	2.53725	-1.05566	09/01/95 10:26:34
Sn	242.950	STD9	STD1-Blank	7.27569	-4.89072	09/01/95 10:26:34
Sr	421.500	STD2	STD1-Blank	1.13698	-.016259	09/01/95 10:26:34
Te	214.275	STD7	STD1-Blank	.902920	-.877939	09/01/95 10:26:34
Th	283.730	STD4	STD1-Blank	4.22232	-.977748	09/01/95 10:26:34
Ti	334.900	STD2	STD1-Blank	1.30503	-.083652	09/01/95 10:26:34
Tl	190.864	STD8	STD1-Blank	16.2320	-.571908	09/01/95 10:26:34
U	378.280	STD6	STD1-Blank	9.81221	-16.6448	09/01/95 10:26:34
V	292.402	STD5	STD1-Blank	1.62917	-.156943	09/01/95 10:26:34
W	224.875	STD9	STD1-Blank	15.4923	-.473030	09/01/95 10:26:34
Y	371.030	STD5	STD1-Blank	3.14176	-.079172	09/01/95 10:26:34
Zn	213.800	STD2	STD1-Blank	.671135	-.022349	09/01/95 10:26:34
Zr	339.100	STD2	STD1-Blank	1.92604	-.153377	09/01/95 10:26:34

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Method: ICP1 Slope = IR/Conc(SIR)

Element	Wavelen	High std	Low std	Slope	BEC	Date Standardized
Ag	328.068	STD8	STD1-Blank	3.03182	.213282	09/01/95 10:26:34
Al	308.215	STD3	STD1-Blank	.149458	1.37987	09/01/95 10:26:34
As	193.600	STD5	STD1-Blank	.271579	.610872	09/01/95 10:26:34
B	249.600	STD3	STD1-Blank	1.01822	.102172	09/01/95 10:26:34
Ba	493.400	STD2	STD1-Blank	.829390	.036452	09/01/95 10:26:34
Be	313.042	STD7	STD1-Blank	1.90337	.008967	09/01/95 10:26:34
Bi	223.061	STD8	STD1-Blank	.275723	.513439	09/01/95 10:26:34
Ca	317.900	STD3	STD1-Blank	.317375	.394591	09/01/95 10:26:34
Cd	228.800	STD3	STD1-Blank	.991190	.044593	09/01/95 10:26:34
Ce	418.659	STD5	STD1-Blank	.497938	1.24360	09/01/95 10:26:34
Co	228.600	STD2	STD1-Blank	.874145	.159737	09/01/95 10:26:34
Cr	205.500	STD2	STD1-Blank	.630365	.073925	09/01/95 10:26:34
Cu	324.700	STD2	STD1-Blank	.236992	.196491	09/01/95 10:26:34
Dy	353.170	STD4	STD1-Blank	.985889	.194444	09/01/95 10:26:34
Eu	381.900	STD4	STD1-Blank	.570843	.058627	09/01/95 10:26:34
Fe	259.900	STD2	STD1-Blank	.380594	.146768	09/01/95 10:26:34
K	766.500	STD3	STD1-Blank	.005808	36.6395	09/01/95 10:26:34
La	398.852	STD4	STD1-Blank	.309025	.316479	09/01/95 10:26:34
Li	670.700	STD3	STD1-Blank	.276741	.147430	09/01/95 10:26:34
Mg	279.078	STD2	STD1-Blank	.184176	1.27795	09/01/95 10:26:34
Mn	257.600	STD3	STD1-Blank	.709300	.027304	09/01/95 10:26:34
Mo	202.000	STD2	STD1-Blank	.602935	.131081	09/01/95 10:26:34
Na	588.900	STD2	STD1-Blank	.023762	1.70859	09/01/95 10:26:34
Nd	406.106	STD4	STD1-Blank	.335572	1.08124	09/01/95 10:26:34
Ni	231.600	STD2	STD1-Blank	.302613	.152229	09/01/95 10:26:34
P	214.900	STD3	STD1-Blank	.138386	.911217	09/01/95 10:26:34
Pb	220.300	STD2	STD1-Blank	1.16698	1.13090	09/01/95 10:26:34
Pd	360.959	STD9	STD1-Blank	.396621	3.79724	09/01/95 10:26:34
Rh	343.489	STD9	STD1-Blank	.993025	1.51218	09/01/95 10:26:34
Sb	206.838	STD5	STD1-Blank	.361259	.711493	09/01/95 10:26:34
Se	196.026	STD8	STD1-Blank	.193263	.792356	09/01/95 10:26:34
Si	288.100	STD7	STD1-Blank	.394128	1.05566	09/01/95 10:26:34
Sn	242.950	STD9	STD1-Blank	.137444	4.89072	09/01/95 10:26:34
Sr	421.500	STD2	STD1-Blank	.879523	.016259	09/01/95 10:26:34
Te	214.275	STD7	STD1-Blank	1.10752	.877939	09/01/95 10:26:34
Th	283.730	STD4	STD1-Blank	.236837	.977748	09/01/95 10:26:34
Ti	334.900	STD2	STD1-Blank	.766267	.083652	09/01/95 10:26:34
Tl	190.864	STD8	STD1-Blank	.061607	.571908	09/01/95 10:26:34
U	378.280	STD6	STD1-Blank	.101914	16.6448	09/01/95 10:26:34
V	292.402	STD5	STD1-Blank	.613810	.156943	09/01/95 10:26:34
W	224.875	STD9	STD1-Blank	.064548	.473030	09/01/95 10:26:34
Y	371.030	STD5	STD1-Blank	.318293	.079172	09/01/95 10:26:34
Zn	213.800	STD2	STD1-Blank	1.49001	.022349	09/01/95 10:26:34
Zr	339.100	STD2	STD1-Blank	.519201	.153377	09/01/95 10:26:34

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Method: ICP1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	STD1-Blank	.000000	.000000	-.000000
		STD8	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD1-Blank	.000000	.000000	-.000000
		STD3	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	193.600	STD1-Blank	.000000	.000000	-.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.600	STD1-Blank	.000000	.000000	-.000000
		STD3	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.400	STD1-Blank	.000000	-.000000	.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD1-Blank	.000000	.000000	-.000000
		STD7	1.00000	1.00000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	223.061	STD1-Blank	.000000	.000000	-.000000
		STD8	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.900	STD1-Blank	.000000	-.000000	.000000
		STD3	250.000	250.000	-.000015
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	228.800	STD1-Blank	.000000	-.000000	.000000
		STD3	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ce	418.659	STD1-Blank	.000000	-.000000	.000000
		STD5	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000

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			Known Concentration	Measured Concentration	Residual Concentration
Element Cr	Wavelength 205.500	Standard	.000000	.000000	-.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD2			
Element Cu	Wavelength 324.700	Standard	.000000	-.000000	.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD2			
Element Dy	Wavelength 353.170	Standard	.000000	-.000000	.000000
		STD1-Blank	50.0000	50.0000	.000000
		STD4			
Element Eu	Wavelength 381.900	Standard	.000000	-.000000	.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD4			
Element Fe	Wavelength 259.900	Standard	.000000	.000000	-.000000
		STD1-Blank	200.000	200.000	.000000
		STD2			
Element K	Wavelength 766.500	Standard	.000000	.000000	-.000000
		STD1-Blank	500.000	500.000	.000000
		STD3			
Element La	Wavelength 398.852	Standard	.000000	.000000	-.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD4			
Element Li	Wavelength 670.700	Standard	.000000	.000000	-.000000
		STD1-Blank	50.0000	50.0000	.000000
		STD3			
Element Mg	Wavelength 279.078	Standard	.000000	-.000000	.000000
		STD1-Blank	250.000	250.000	.000015
		STD2			
Element Mn	Wavelength 257.600	Standard	.000000	-.000000	.000000
		STD1-Blank	10.0000	10.0000	.000000
		STD3			
Element Mo	Wavelength 202.000	Standard	.000000	-.000000	.000000
		STD1-Blank	20.0000	20.0000	.000000
		STD2			

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.900	STD1-Blank	.000000	.000000	-.000000
		STD2	250.000	250.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Nd	406.106	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.600	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P	214.900	STD1-Blank	.000000	-.000000	.000000
		STD3	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.300	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pd	360.959	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Rh	343.489	STD1-Blank	.000000	.000000	-.000000
		STD9	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD1-Blank	.000000	-.000000	.000000
		STD5	100.000	100.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Si	288.100	STD1-Blank	.000000	.000000	-.000000
		STD7	200.000	200.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	242.950	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	57.4769	-7.47695

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Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr	421.500	STD1-Blank	.000000	.000000	-.000000
		STD2	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Te	214.275	STD1-Blank	.000000	-.000000	.000000
		STD7	50.0000	50.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Th	283.730	STD1-Blank	.000000	-.000000	.000000
		STD4	50.0000	50.0000	.000004
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.900	STD1-Blank	.000000	.000000	-.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD1-Blank	.000000	.000000	-.000000
		STD8	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
U	378.280	STD1-Blank	.000000	.000000	-.000000
		STD6	500.000	500.000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD1-Blank	.000000	-.000000	.000000
		STD5	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
W	224.875	STD1-Blank	.000000	-.000000	.000000
		STD9	50.0000	50.6669	-.666901
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Y	371.030	STD1-Blank	.000000	-.000000	.000000
		STD5	10.0000	10.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.800	STD1-Blank	.000000	-.000000	.000000
		STD2	20.0000	20.0000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zr	339.100	STD1-Blank	.000000	.000000	-.000000
		STD2	50.0000	50.0000	.000000

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/01/95 10:39:16
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0012	.0033	-.0024	-.0003	.0000	-.0043
SDev	.0006	.0053	.0044	.0016	.0002	.0001	.0028
%RSD	139.2	459.5	134.5	69.36	65.20	131.3	64.14
#1	-.0008	-.0014	.0051	-.0012	-.0004	.0000	-.0056
#2	-.0008	-.0024	.0066	-.0017	-.0003	-.0000	-.0061
#3	.0003	.0073	-.0017	-.0042	-.0001	.0001	-.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	-.0008	-.0047	-.0006	-.0013	.0005	.0000
SDev	.0005	.0008	.0019	.0003	.0008	.0015	.0004
%RSD	96.69	102.9	41.72	44.71	67.17	304.4	2144.
#1	-.0000	-.0001	-.0067	-.0008	-.0006	.0008	-.0004
#2	.0007	-.0016	-.0046	-.0008	-.0010	-.0011	.0000
#3	.0009	-.0006	-.0028	-.0003	-.0022	.0018	.0004

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0000	-.1148	-.0017	-.0007	-.0059	-.0001
SDev	.0003	.0004	.1433	.0009	.0015	.0105	.0002
%RSD	759.2	845.7	124.9	53.00	202.3	179.4	237.0
#1	-.0004	-.0002	-.2754	-.0027	-.0023	-.0085	-.0003
#2	.0001	-.0003	-.0689	-.0015	-.0005	-.0148	-.0001
#3	.0001	.0004	.0000	-.0009	.0006	.0057	.0001

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0056	-.0039	.0008	-.0136	-.0032	-.0023
SDev	.0004	.0048	.0052	.0030	.0181	.0039	.0118
%RSD	191.5	86.09	131.5	378.8	132.9	120.1	504.5
#1	.0008	-.0111	-.0070	.0027	.0025	-.0020	-.0123
#2	-.0001	-.0028	-.0068	.0023	-.0102	-.0076	-.0054
#3	.0001	-.0028	.0020	-.0027	-.0333	-.0002	.0106

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0055	-.0006	-.0254	.0034	-.0000	-.0096
SDev	.0048	.0073	.0048	.0070	.0131	.0001	.0053
%RSD	479.1	132.6	815.7	27.73	387.6	173.2	55.39
#1	-.0010	.0061	-.0057	-.0178	-.0070	-.0001	-.0142
#2	-.0058	-.0021	.0039	-.0265	-.0009	.0000	-.0106
#3	.0038	.0125	.0001	-.0317	.0181	-.0000	-.0038

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036	.0000	-.0052	-.0262	-.0002	-.0025	.0000
SDev	.0050	.0002	.0056	.0526	.0001	.0023	.0005

%RSD	137.9	1130.	106.7	200.8	26.26	89.76	2596.
#1	.0094	-.0002	-.0104	-.0863	-.0002	-.0050	-.0003
#2	.0012	-.0001	.0007	-.0043	-.0003	-.0019	-.0003
#3	.0003	.0003	-.0059	.0119	-.0002	-.0006	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0001	-.0002
SDev	.0004	.0004
%RSD	420.6	158.1
#1	.0005	-.0007
#2	.0000	.0001
#3	-.0002	-.0001

Analysis Report QC Standard Fri 09-01-95 10:43:43 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/01/95 10:42:24
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS KD 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4819	25.08	2.617	1.997	.5085	.0934	24.30
SDev	.0034	.25	.025	.019	.0060	.0009	.22
%RSD	.7064	1.013	.9416	.9373	1.190	.9466	.8910
#1	.4853	25.32	2.644	2.019	.5148	.0944	24.54
#2	.4817	25.10	2.612	1.985	.5079	.0932	24.26
#3	.4785	24.81	2.596	1.988	.5027	.0926	24.11
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.20	.4998	-.0357	1.038	1.041	1.021	-.0003
SDev	.19	.0020	.0079	.008	.007	.008	.0014
%RSD	.7446	.4041	22.23	.7407	.6687	.8059	487.1
#1	25.41	.4974	-.0436	1.047	1.048	1.027	-.0015
#2	25.14	.5008	-.0358	1.036	1.042	1.023	-.0006
#3	25.05	.5011	-.0277	1.032	1.034	1.012	.0013
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	20.57	25.81	.0037	1.937	26.60	.5177
SDev	.0003	.18	.64	.0015	.034	.20	.0040
%RSD	15.58	.8934	2.497	39.58	1.749	.7569	.7654
#1	.0017	20.77	25.27	.0031	1.940	26.82	.5218
#2	.0018	20.54	26.53	.0026	1.970	26.58	.5176
#3	.0023	20.41	25.65	.0053	1.902	26.42	.5139
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.035	24.48	.0063	1.063	.0629	2.637	-.0352
SDev	.009	.39	.0062	.007	.0177	.022	.0210
%RSD	.8284	1.578	99.32	.6750	28.14	.8451	59.65
#1	1.045	24.45	.0000	1.071	.0425	2.663	-.0570
#2	1.030	24.88	.0064	1.057	.0727	2.625	-.0336
#3	1.030	24.11	.0125	1.062	.0736	2.623	-.0151
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Fri 09-01-95 10:43:43 AM page 2

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0041	2.558	2.459	18.87	-.1023	.5139	-.0104
SDev	.0084	.009	.026	.14	.0241	.0058	.0081
%RSD	207.0	.3679	1.069	.7573	23.59	1.125	77.35
#1	-.0119	2.569	2.483	19.02	-.1271	.5199	-.0197
#2	-.0051	2.551	2.462	18.87	-.1009	.5132	-.0059
#3	.0048	2.554	2.431	18.73	-.0789	.5084	-.0056
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	
Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0492	1.002	2.477	.0657	1.002	.0308	-.0001
SDev	.0028	.010	.019	.1207	.008	.0032	.0005
%RSD	5.751	1.008	.7646	183.7	.7943	10.25	372.0
#1	.0518	1.013	2.498	-.0466	1.011	.0308	-.0004
#2	.0462	1.0000	2.474	.0504	1.001	.0340	-.0004
#3	.0495	.9931	2.461	.1934	.9950	.0276	.0004
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.021	2.056
SDev	.006	.024
%RSD	.6194	1.147
#1	1.028	2.080
#2	1.018	2.054
#3	1.016	2.033
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report QC Standard Fri 09-01-95 10:47:55 AM page 1

Method: ICP1 Sample Name: MCVB 950830H901 Operator: DRS
Run Time: 09/01/95 10:46:35
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS ⊕ 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0037	-.1913	-.0046	-.0016	-.0003	.0002	-.0021
SDev	.0011	.0067	.0057	.0020	.0003	.0000	.0046
%RSD	29.05	3.521	123.8	127.6	104.9	13.46	223.0
#1	-.0025	-.1836	-.0082	-.0012	.0000	.0003	.0018
#2	-.0045	-.1943	.0020	-.0038	-.0003	.0002	-.0008
#3	-.0042	-.1961	-.0076	.0002	-.0006	.0002	-.0072
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0453	.0004	2.022	.0014	.0017	-.0143	2.033
SDev	.0010	.0010	.015	.0014	.0015	.0016	.022
%RSD	2.181	241.9	.7438	98.95	91.49	11.29	1.094
#1	.0458	.0015	2.005	.0023	.0023	-.0131	2.007
#2	.0459	-.0006	2.028	.0020	-.0001	-.0138	2.042
#3	.0442	.0003	2.033	-.0002	.0028	-.0162	2.049
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.036	.0122	-.2811	2.043	-.0011	.0864	.0001
SDev	.024	.0006	.1402	.022	.0006	.0130	.0002
%RSD	1.182	5.333	49.86	1.097	51.32	15.05	167.6
#1	2.008	.0127	-.1205	2.018	-.0005	.1013	.0002
#2	2.045	.0124	-.3787	2.051	-.0012	.0780	-.0001
#3	2.054	.0115	-.3443	2.061	-.0016	.0798	.0003
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	.0222	1.984	.0031	-.0176	.0332	2.013
SDev	.0011	.0134	.015	.0022	.0164	.0038	.006
%RSD	106.5	60.63	.7720	70.85	93.64	11.43	.3014
#1	.0002	.0168	1.967	.0011	.0008	.0374	2.009
#2	-.0013	.0375	1.991	.0054	-.0226	.0321	2.020
#3	-.0021	.0122	1.995	.0028	-.0309	.0301	2.010
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.1286	.0025	.0137	-.0797	2.006	.0000	1.811
SDev	.0078	.0066	.0017	.0096	.016	.0001	.021
%RSD	6.090	266.4	12.58	12.08	.8190	1024.	1.153
#1	Q.1377	.0075	.0156	-.0690	2.025	.0002	Q1.787
#2	Q.1235	-.0050	.0132	-.0822	1.995	-.0001	1.824
#3	Q.1248	.0050	.0123	-.0878	1.998	-.0001	1.822
Errors	QC Fail	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.204	.0002	-.0092	Q8.362	-.0021	1.910	1.024
SDev	.054	.0005	.0105	.056	.0007	.038	.011
%RSD	1.043	298.7	114.6	.6744	34.45	1.991	1.072
#1	5.143	.0007	.0028	Q8.391	-.0014	1.867	1.012
#2	5.224	-.0004	-.0134	Q8.398	-.0029	1.927	1.030
#3	5.245	.0002	-.0170	Q8.297	-.0021	1.937	1.031
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0007	-.0170
SDev	.0007	.0005
%RSD	105.6	2.837
#1	.0001	-.0166
#2	.0005	-.0170
#3	.0015	-.0175
Errors	NOCHECK	NOCHECK
Value		
Range		

Analysis Report QC Standard Fri 09-01-95 10:57:02 AM page 1

Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/01/95 10:55:43
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	0-.0014	0.0979	.0821	0.1113	.0492	.0220	.0084
SDev	.0012	.0050	.0049	.0010	.0001	.0000	.0027
%RSD	84.48	5.060	6.004	.9165	.1424	.0280	32.60
#1	0-.0001	0.1035	0.0841	0.1110	.0492	.0220	.0081
#2	0-.0019	0.0960	0.0857	0.1104	.0493	.0220	.0058
#3	0-.0022	0.0941	0.0764	0.1124	.0492	.0220	.0112
Errors	QC Fail	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.85	0.0111	-.0244	0.0217	0.0223	0.0186	-.0032
SDev	.04	.0009	.0027	.0004	.0005	.0004	.0009
%RSD	.1200	8.143	11.24	1.804	2.057	2.410	29.97
#1	35.90	.0119	-.0212	0.0220	0.0225	0.0187	-.0021
#2	35.82	.0115	-.0257	0.0213	0.0225	0.0181	-.0039
#3	35.84	0.0101	-.0262	0.0219	0.0217	0.0189	-.0035
Errors	QC Pass	QC Fail	NOCHECK	QC Fail	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	0.1196	01.618	.0018	0.0100	09.990	.0355
SDev	.0002	.0011	.124	.0002	.0004	.020	.0002
%RSD	214.8	.9532	7.671	12.29	3.587	.2033	.4372
#1	.0001	0.1209	01.756	.0019	0.0104	09.967	.0354
#2	-.0002	0.1189	01.515	.0019	0.0096	010.00	.0357
#3	-.0002	0.1189	01.584	.0015	0.0100	09.999	.0355
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1051	011.59	-.0094	.0615	.0058	0.0179	-.0533
SDev	.0011	.13	.0052	.0042	.0049	.0062	.0147
%RSD	1.094	1.085	55.15	6.888	83.60	34.54	27.65
#1	.1042	011.45	-.0034	.0587	.0113	0.0227	-.0367
#2	.1047	011.63	-.0122	.0594	.0042	0.0109	-.0650
#3	0.1064	011.70	-.0125	.0664	.0020	0.0201	-.0582
Errors	QC Pass	QC Fail	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0220	-.0157	0.0162	-.0671	-.1208	.2651	-.0158
SDev	.0077	.0032	.0080	.0089	.0185	.0009	.0079
%RSD	35.04	20.66	49.46	13.25	15.32	.3511	50.02
#1	-.0133	-.0120	0.0168	-.0568	-.1093	.2640	-.0071
#2	-.0245	-.0178	0.0079	-.0727	-.1421	.2657	-.0226
#3	-.0281	-.0173	0.0239	-.0717	-.1108	.2655	-.0177
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0094	.0070	.0064	-.0238	0.0268	.0017	-.0027
SDev	.0042	.0002	.0085	.0473	.0005	.0034	.0005
%RSD	44.85	2.329	134.1	198.7	1.962	193.6	18.98
#1	-.0124	.0072	0-.0010	.0308	0.0271	.0056	-.0021
#2	-.0046	.0070	0.0157	-.0533	0.0272	-.0002	-.0030
#3	-.0111	.0069	.0043	-.0489	0.0262	-.0002	-.0030
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	0.0864	-.0020
SDev	.0016	.0009
%RSD	1.911	45.56
#1	0.0883	-.0010
#2	0.0860	-.0029
#3	0.0851	-.0022
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Fri 09-01-95 11:01:44 AM page 1

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/01/95 11:00:25
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	1.914	2.036	1.948	.9990	.9585	1.901
SDev	.0004	.012	.013	.014	.0091	.0068	.013
%RSD	61.10	.6518	.6268	.7011	.9086	.7135	.6936
#1	-.0002	1.899	2.025	1.932	.9888	.9509	1.886
#2	-.0007	1.921	2.033	1.957	1.002	.9604	1.908
#3	-.0010	1.921	2.050	1.954	1.006	.9642	1.909

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.945	.9882	-.0013	1.042	.5249	2.032	-.0005
SDev	.012	.0019	.0063	.007	.0027	.014	.0009
%RSD	.6003	.1942	497.0	.6301	.5144	.6812	157.1
#1	1.932	.9861	.0051	1.034	.5222	2.017	.0004
#2	1.951	.9888	-.0075	1.044	.5276	2.034	-.0011
#3	1.953	.9898	-.0013	1.047	.5250	2.044	-.0010

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	2.029	4.894	.0004	1.947	2.080	1.029
SDev	.0001	.012	.112	.0006	.026	.021	.007
%RSD	45.40	.5728	2.288	182.3	1.357	1.000	.6969
#1	.0004	2.017	5.009	.0005	1.916	2.058	1.021
#2	.0003	2.030	4.889	.0009	1.965	2.083	1.030
#3	.0001	2.040	4.785	-.0004	1.958	2.100	1.035

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.009	7.907	.0020	2.104	4.820	2.073	-.0097
SDev	.016	.160	.0050	.009	.032	.007	.0137
%RSD	.8147	2.025	253.2	.4320	.6653	.3200	141.5
#1	1.991	7.746	.0068	2.094	4.803	2.067	.0058
#2	2.015	8.067	.0024	2.107	4.799	2.073	-.0203
#3	2.022	7.907	-.0032	2.112	4.857	2.080	-.0145

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	-.0094	1.922	4.827	-.0070	2.023	-.0224
SDev	.0060	.0093	.026	.030	.0285	.019	.0054
%RSD	228.7	98.66	1.370	.6221	404.7	.9305	24.09
#1	.0080	-.0051	1.891	4.793	.0086	2.002	-.0182
#2	.0035	-.0200	1.937	4.839	.0102	2.029	-.0285
#3	-.0038	-.0030	1.936	4.849	-.0400	2.039	-.0206

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0042	.0002	1.902	.0388	.9697	.0038	-.0002
SDev	.0039	.0004	.014	.1120	.0050	.0020	.0003

%RSD	91.77	237.6	.7243	288.7	.5209	51.01	124.5
#1	.0033	.0005	1.888	.1677	.9644	.0016	.0001
#2	.0085	.0002	1.904	-.0162	.9703	.0049	-.0004
#3	.0009	-.0003	1.915	-.0351	.9744	.0050	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.035	-.0007
SDev	.003	.0009
%RSD	.2936	123.7
#1	1.033	.0003
#2	1.039	-.0013
#3	1.035	-.0011

Analysis Report Fri 09-01-95 11:16:06 AM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/01/95 11:14:47
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0017	.0056	-.0002	-.0000	-.0000	-.0005
SDev	.0007	.0007	.0063	.0011	.0002	.0000	.0049
%RSD	62.79	42.46	113.3	647.3	7831.	292.7	922.5
#1	.0005	.0018	.0040	.0010	.0002	-.0000	.0001
#2	.0019	.0022	.0126	-.0004	-.0002	.0000	.0040
#3	.0009	.0009	.0002	-.0011	-.0000	.0000	-.0057

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0007	.0013	.0006	-.0016	-.0005	.0006
SDev	.0004	.0011	.0016	.0009	.0002	.0008	.0004
%RSD	57.24	143.4	119.5	145.1	14.93	162.7	64.35
#1	.0005	.0008	.0000	-.0004	-.0018	-.0007	.0003
#2	.0013	-.0003	.0031	.0014	-.0014	.0004	.0010
#3	.0005	.0018	.0008	.0009	-.0015	-.0011	.0005

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0010	.0516	.0018	.0013	.0038	-.0002
SDev	.0001	.0001	.0695	.0008	.0004	.0020	.0003
%RSD	117.9	13.08	134.7	45.94	27.27	52.60	171.9
#1	.0000	.0011	-.0115	.0010	.0010	.0016	-.0004
#2	.0002	.0011	.1262	.0018	.0013	.0054	-.0003
#3	.0000	.0009	.0401	.0026	.0017	.0044	.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	.0097	.0044	-.0006	.0215	.0017	.0024
SDev	.0010	.0025	.0003	.0009	.0175	.0075	.0038
%RSD	134.7	25.44	7.411	147.7	81.20	435.1	156.6
#1	-.0016	.0125	.0048	-.0016	.0043	.0097	.0013
#2	.0004	.0082	.0042	-.0003	.0393	-.0051	-.0007
#3	-.0010	.0083	.0042	.0001	.0210	.0005	.0066

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	-.0013	.0023	.0075	.0036	.0000	.0034
SDev	.0006	.0064	.0083	.0043	.0119	.0000	.0016
%RSD	21.87	479.9	363.0	56.85	329.8	7.577	47.87
#1	.0034	-.0080	-.0073	.0050	-.0048	.0000	.0016
#2	.0029	.0049	.0075	.0125	-.0016	.0000	.0046
#3	.0022	-.0009	.0066	.0051	.0172	.0000	.0041

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0033	.0002	.0014	.0695	.0008	.0132	.0004
SDev	.0022	.0001	.0068	.0283	.0003	.0053	.0002

%RSD	65.42	88.75	492.8	40.74	38.53	40.24	46.14
#1	.0035	-.0000	-.0064	.0551	.0007	.0071	.0002
#2	.0054	.0002	.0044	.1021	.0005	.0162	.0005
#3	.0011	.0003	.0061	.0513	.0011	.0164	.0005

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	.0001
SDev	.0004	.0004
%RSD	96.68	266.1
#1	.0007	-.0002
#2	.0006	.0005
#3	-.0000	.0001

Analysis Report QC Standard Fri 09-01-95 11:51:03 AM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/01/95 11:49:43
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS BY 9/1/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4868	25.45	2.659	2.035	.5170	.0945	24.60
SDev	.0026	.21	.002	.015	.0049	.0006	.15
%RSD	.5311	.8229	.0597	.7219	.9430	.6792	.6239
#1	.4855	25.31	2.657	2.026	.5142	.0942	24.54
#2	.4897	25.69	2.660	2.052	.5226	.0953	24.78
#3	.4850	25.35	2.660	2.027	.5142	.0941	24.49
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.46	.5026	-.0487	1.049	1.043	1.031	-.0009
SDev	.11	.0046	.0109	.004	.008	.006	.0009
%RSD	.4289	.9216	22.28	.4199	.7529	.5698	102.5
#1	25.44	.4973	-.0396	1.047	1.045	1.027	.0001
#2	25.58	.5059	-.0607	1.054	1.049	1.038	-.0017
#3	25.37	.5047	-.0459	1.045	1.034	1.028	-.0010
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	20.89	25.60	.0051	1.961	26.90	.5242
SDev	.0005	.12	.28	.0017	.028	.17	.0028
%RSD	27.15	.5952	1.080	33.77	1.451	.6217	.5353
#1	.0019	20.83	25.28	.0071	1.934	26.81	.5232
#2	.0012	21.03	25.80	.0043	1.991	27.09	.5273
#3	.0020	20.79	25.71	.0039	1.959	26.80	.5219
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.050	24.68	.0047	1.081	.0866	2.654	-.0483
SDev	.007	.32	.0079	.004	.0244	.013	.0137
%RSD	.6495	1.308	168.9	.3846	28.13	.4988	28.37
#1	1.048	24.37	.0119	1.085	.0594	2.659	-.0352
#2	1.057	25.02	-.0037	1.080	.0940	2.665	-.0625
#3	1.044	24.66	.0058	1.077	.1064	2.639	-.0472
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0098	2.588	2.499	19.17	-.1123	.5244	-.0138
SDev	.0082	.007	.028	.13	.0282	.0046	.0034
%RSD	83.39	.2550	1.111	.6564	25.14	.8841	24.28
#1	-.0064	2.580	2.480	19.08	-.0826	.5218	-.0150
#2	-.0191	2.590	2.530	19.31	-.1388	.5297	-.0100
#3	-.0039	2.593	2.485	19.11	-.1156	.5217	-.0164
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0500	1.018	2.508	.0159	1.015	.0327	-.0003
SDev	.0040	.008	.024	.0795	.006	.0024	.0004
%RSD	7.985	.7429	.9614	499.9	.5635	7.181	132.1
#1	.0461	1.014	2.519	.0718	1.011	.0321	.0001
#2	.0498	1.027	2.524	-.0751	1.021	.0307	-.0008
#3	.0541	1.014	2.480	.0510	1.012	.0352	-.0002
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.044	2.095
SDev	.003	.016
%RSD	.2989	.7546
#1	1.040	2.088
#2	1.046	2.113
#3	1.045	2.084
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Fri 09-01-95 12:00:31 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/01/95 11:59:11
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0025	.0056	-.0005	.0002	.0000	.0009
SDev	.0006	.0015	.0073	.0013	.0001	.0000	.0078
%RSD	71.18	58.26	130.0	248.2	88.12	106.7	910.6
#1	.0011	.0019	.0044	-.0018	.0003	-.0000	.0040
#2	.0011	.0042	-.0010	-.0006	.0001	.0000	.0066
#3	.0001	.0015	.0134	.0008	.0001	.0000	-.0080

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0004	.0042	.0015	.0015	-.0002	.0015
SDev	.0014	.0002	.0021	.0005	.0004	.0002	.0005
%RSD	86.87	45.11	50.90	35.35	27.53	113.7	37.18
#1	.0032	.0003	.0056	.0015	.0020	-.0001	.0018
#2	.0014	.0003	.0053	.0020	.0014	-.0004	.0017
#3	.0003	.0007	.0017	.0010	.0012	-.0000	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0005	.1032	.0024	.0007	.0085	-.0002
SDev	.0002	.0008	.1146	.0016	.0009	.0046	.0001
%RSD	86.53	145.5	111.0	68.51	126.0	54.41	47.44
#1	.0003	.0013	.1778	.0041	.0017	.0129	-.0001
#2	.0004	.0006	.1606	.0022	.0006	.0090	-.0001
#3	.0000	-.0003	-.0287	.0008	-.0001	.0037	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0167	.0072	.0008	.0138	.0046	.0121
SDev	.0003	.0193	.0036	.0008	.0072	.0031	.0103
%RSD	389.7	115.7	49.51	100.8	52.12	66.66	84.65
#1	-.0002	.0377	.0083	.0017	.0196	.0081	.0235
#2	.0003	-.0002	.0100	.0007	.0162	.0024	.0034
#3	.0000	.0124	.0032	.0000	.0057	.0033	.0095

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0067	.0052	.0103	-.0071	.0148	.0000	.0095
SDev	.0073	.0018	.0056	.0019	.0136	.0001	.0055
%RSD	110.3	35.50	53.97	26.66	91.77	414.4	58.37
#1	.0141	.0042	.0158	-.0049	.0305	.0000	.0138
#2	.0065	.0040	.0046	-.0077	.0057	.0001	.0113
#3	-.0006	.0073	.0107	-.0085	.0083	-.0001	.0032

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0003	.0028	.1087	.0007	.0044	.0004
SDev	.0080	.0001	.0008	.0301	.0005	.0032	.0002

%RSD	1128.	47.29	26.54	27.74	69.95	72.69	52.74
#1	.0043	.0002	.0032	.1209	.0013	.0068	.0004
#2	.0062	.0002	.0020	.0744	.0003	.0008	.0005
#3	-.0084	.0005	.0033	.1309	.0005	.0055	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	.0004
SDev	.0007	.0003
%RSD	205.4	97.16
#1	.0010	.0002
#2	.0004	.0001
#3	-.0004	.0008

Analysis Report Fri 09-01-95 12:03:25 PM page

Method: ICP1 Sample Name: 95-007941-HCB Operator: DRS
Run Time: 09/01/95 12:02:05
Comment: HNO3/HCL PROCESS BLANK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	.0283	.0111	.0499	.0011	.0001	.0048
SDev	.0008	.0027	.0105	.0020	.0001	.0001	.0049
%RSD	15.19	9.464	95.00	3.978	12.33	60.22	101.7
#1	.0064	.0290	.0231	.0517	.0013	.0001	.0104
#2	.0056	.0306	.0036	.0502	.0010	.0000	.0030
#3	.0047	.0254	.0066	.0478	.0010	.0001	.0011

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0090	.0021	.0354	.0037	.0008	.0032	.0057
SDev	.0012	.0009	.0085	.0008	.0005	.0013	.0008
%RSD	13.22	40.28	24.01	20.27	61.69	39.75	13.05
#1	-.0076	.0012	.0447	.0046	.0003	.0040	.0066
#2	-.0096	.0029	.0336	.0036	.0009	.0017	.0052
#3	-.0098	.0022	.0280	.0031	.0013	.0037	.0054

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	.0061	1.124	.0113	.0040	.0242	.0005
SDev	.0003	.0005	.226	.0008	.0016	.0029	.0004
%RSD	19.89	7.724	20.07	6.979	41.04	12.07	77.05
#1	.0018	.0066	1.365	.0122	.0057	.0238	.0002
#2	.0015	.0056	1.090	.0111	.0038	.0215	.0003
#3	.0012	.0061	.9176	.0107	.0024	.0273	.0009

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.1465	.0319	.0045	.0409	.0267	.0860
SDev	.0008	.0150	.0044	.0017	.0105	.0074	.0096
%RSD	41.59	10.25	13.84	38.12	25.68	27.71	11.21
#1	.0030	.1590	.0369	.0064	.0352	.0342	.0940
#2	.0015	.1508	.0296	.0038	.0530	.0264	.0886
#3	.0015	.1299	.0291	.0032	.0345	.0194	.0753

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0416	.0196	.0168	.0394	.0899	.0004	.0185
SDev	.0110	.0101	.0032	.0056	.0108	.0001	.0023
%RSD	26.43	51.40	19.38	14.13	12.01	23.60	12.37
#1	.0542	.0208	.0192	.0457	.1009	.0005	.0211
#2	.0336	.0290	.0180	.0354	.0895	.0004	.0169
#3	.0371	.0090	.0131	.0369	.0793	.0003	.0176

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0021	.0011	.5314	.0046	.0201	.0020
SDev	.0066	.0003	.0026	.1018	.0007	.0092	.0004

%RSD	217.6	13.20	229.9	19.15	14.88	45.50	21.22
#1	.0077	.0024	.0010	.6197	.0053	.0286	.0023
#2	-.0045	.0020	.0038	.5545	.0044	.0104	.0021
#3	.0058	.0019	-.0014	.4201	.0040	.0214	.0015

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0026	.0043
SDev	.0003	.0007
%RSD	10.26	16.49
#1	.0024	.0047
#2	.0025	.0047
#3	.0029	.0035

Analysis Report Fri 09-01-95 12:06:03 PM page

Method: ICP1 Sample Name: 95-007941-H1T @5 Operator: DRS
Run Time: 09/01/95 12:04:44
Comment: SEGMENT 1 TOP @5X DIL
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	48.07	.0387	.0313	.0019	.0001	.0059
SDev	.0006	.34	.0060	.0011	.0001	.0000	.0043
%RSD	205.4	.6993	15.54	3.423	3.528	33.04	72.46
#1	-.0002	48.35	.0415	.0325	.0019	.0001	.0055
#2	.0001	48.17	.0318	.0305	.0019	.0001	.0018
#3	.0010	47.70	.0429	.0308	.0020	.0001	.0103

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1094	.0018	.0010	.0018	.1744	.0096	.0007
SDev	.0024	.0010	.0032	.0015	.0022	.0011	.0011
%RSD	2.227	55.41	305.1	84.60	1.284	11.90	151.0
#1	.1074	.0029	-.0017	.0015	.1719	.0086	-.0001
#2	.1086	.0015	.0002	.0004	.1757	.0094	.0003
#3	.1121	.0010	.0045	.0034	.1758	.0109	.0019

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.9413	.0516	.0024	.0141	.0431	.0196
SDev	.0003	.0047	.2179	.0015	.0006	.0064	.0003
%RSD	1550.	.5033	422.1	62.85	3.927	14.89	1.447
#1	.0000	.9444	-.0287	.0009	.0147	.0376	.0193
#2	-.0003	.9436	-.1147	.0025	.0136	.0415	.0197
#3	.0003	.9358	.2982	.0039	.0140	.0501	.0198

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0035	37.43	.0019	.1714	10.92	.0180	-.0014
SDev	.0012	.60	.0038	.0009	.02	.0043	.0176
%RSD	34.96	1.602	198.2	.5266	.2044	23.83	1293.
#1	.0030	38.09	.0001	.1724	10.90	.0131	-.0158
#2	.0049	37.25	-.0006	.1711	10.94	.0195	-.0065
#3	.0026	36.94	.0063	.1707	10.92	.0213	.0182

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	-.0089	-.0048	.3137	.0031	.0051	-.0096
SDev	.0086	.0021	.0168	.0055	.0047	.0001	.0012
%RSD	852.3	23.80	348.8	1.743	151.7	1.183	12.53
#1	-.0071	-.0070	.0106	.3196	.0059	.0050	-.0110
#2	.0001	-.0085	-.0226	.3088	-.0023	.0050	-.0089
#3	.0101	-.0112	-.0024	.3125	.0057	.0051	-.0089

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0079	.0833	.0861	.0159	.0060	.0001
SDev	.0056	.0003	.0086	.0628	.0005	.0057	.0002

%RSD	988.1	3.794	10.30	72.88	3.302	94.12	336.2
#1	.0068	.0078	.0751	.0434	.0156	-.0005	.0002
#2	-.0009	.0076	.0827	.0568	.0157	.0087	-.0001
#3	-.0042	.0082	.0922	.1581	.0165	.0099	.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0147	.0004
SDev	.0006	.0004
%RSD	3.931	122.9
#1	.0142	-.0001
#2	.0153	.0004
#3	.0147	.0008

Analysis Report Fri 09-01-95 12:09:35 PM page 1

Method: ICP1 Sample Name: 95-007941-H1T Operator: DRS
Run Time: 09/01/95 12:08:16
Comment: SEGMENT 1 TOP
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	243.1	.2233	.1591	.0101	.0006	.0298
SDev	.0003	1.6	.0110	.0015	.0001	.0000	.0039
%RSD	11.48	.6693	4.918	.9486	1.175	5.084	13.12
#1	.0029	244.8	.2272	.1601	.0100	.0006	.0254
#2	.0026	243.0	.2319	.1599	.0101	.0007	.0329
#3	.0032	241.5	.2109	.1574	.0102	.0006	.0313

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2624	.0061	.0169	.0113	.8806	.0529	.0030
SDev	.0011	.0005	.0050	.0007	.0041	.0006	.0001
%RSD	.4041	8.094	29.32	5.927	.4616	1.226	4.436
#1	.2617	.0066	.0158	.0109	.8809	.0523	.0029
#2	.2637	.0057	.0127	.0109	.8764	.0529	.0031
#3	.2619	.0060	.0224	.0121	.8846	.0535	.0030

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	4.708	.9750	.0080	.0683	.1904	.0990
SDev	.0001	.022	.1221	.0008	.0009	.0075	.0005
%RSD	13.80	.4660	12.52	10.50	1.333	3.940	.5239
#1	.0008	4.731	.8660	.0071	.0692	.1881	.0994
#2	.0009	4.707	.9520	.0082	.0682	.1987	.0993
#3	.0011	4.687	1.107	.0087	.0674	.1843	.0984

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0189	183.7	.0156	.8513	55.48	.1458	.0348
SDev	.0011	1.3	.0072	.0050	.26	.0042	.0097
%RSD	5.719	.7164	46.51	.5860	.4705	2.890	27.82
#1	.0187	185.1	.0073	.8515	55.74	.1418	.0282
#2	.0200	183.4	.0185	.8561	55.49	.1502	.0303
#3	.0179	182.5	.0209	.8462	55.21	.1455	.0459

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0182	-.0301	-.0153	1.634	.0218	.0252	-.0327
SDev	.0066	.0010	.0063	.008	.0177	.0001	.0111
%RSD	36.21	3.430	41.33	.4982	81.49	.4773	34.04
#1	.0118	-.0289	-.0090	1.643	.0109	.0254	-.0456
#2	.0178	-.0309	-.0217	1.627	.0122	.0252	-.0261
#3	.0249	-.0304	-.0152	1.632	.0422	.0251	-.0265

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0146	.0392	.4786	.3737	.0808	.0346	.0014
SDev	.0013	.0001	.0068	.0741	.0005	.0020	.0001

%RSD	8.966	.2711	1.428	19.84	.5706	5.666	9.889
#1	.0157	.0392	.4863	.2947	.0803	.0358	.0013
#2	.0132	.0394	.4764	.3847	.0808	.0357	.0015
#3	.0149	.0392	.4732	.4417	.0812	.0324	.0015

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0621	.0036
SDev	.0003	.0003
%RSD	.5424	8.357
#1	.0623	.0035
#2	.0617	.0040
#3	.0622	.0034

Analysis Report Fri 09-01-95 12:13:16 PM page 1

Method: ICP1 Sample Name: 95-007941-H2T Operator: DRS
Run Time: 09/01/95 12:11:56
Comment: SEGMENT 1 TOP DUPLICATE
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	320.8	.2904	.1832	.0136	.0008	.0612
SDev	.0006	2.0	.0217	.0021	.0001	.0000	.0015
%RSD	8.824	.6170	7.485	1.120	.5139	5.770	2.508
#1	.0069	319.9	.2828	.1831	.0137	.0008	.0625
#2	.0058	323.0	.2735	.1853	.0137	.0007	.0595
#3	.0065	319.4	.3149	.1812	.0136	.0008	.0615

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4269	.0116	.0227	.0266	4.570	.0694	.0036
SDev	.0020	.0021	.0058	.0006	.019	.0005	.0006
%RSD	.4683	17.79	25.74	2.239	.4076	.7133	15.82
#1	.4277	.0096	.0283	.0270	4.565	.0689	.0043
#2	.4283	.0137	.0167	.0259	4.591	.0696	.0033
#3	.4246	.0115	.0230	.0268	4.554	.0698	.0033

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	18.79	1.067	.0119	.0238	.3219	.4234
SDev	.0002	.10	.207	.0009	.0012	.0093	.0028
%RSD	9.354	.5529	19.44	7.272	4.894	2.877	.6663
#1	.0026	18.74	1.262	.0127	.0229	.3315	.4216
#2	.0023	18.91	.8488	.0110	.0233	.3213	.4266
#3	.0028	18.72	1.090	.0121	.0251	.3130	.4219

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0350	118.2	.0275	2.952	30.23	.1748	.0439
SDev	.0007	.3	.0052	.013	.17	.0067	.0112
%RSD	2.107	.2867	18.85	.4478	.5669	3.833	25.39
#1	.0342	117.9	.0318	2.945	30.24	.1810	.0506
#2	.0352	118.6	.0217	2.967	30.40	.1677	.0310
#3	.0356	118.1	.0290	2.943	30.06	.1757	.0501

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0262	-.0513	-.0042	1.784	-.0114	.0486	-.0449
SDev	.0045	.0028	.0045	.005	.0320	.0003	.0044
%RSD	17.15	5.470	107.4	.2642	281.9	.6874	9.802
#1	.0301	-.0545	-.0044	1.782	-.0412	.0484	-.0492
#2	.0213	-.0495	.0004	1.789	-.0153	.0490	-.0450
#3	.0272	-.0498	-.0086	1.780	.0225	.0484	-.0404

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0359	.0794	.6521	.5662	.0590	.0546	.0023
SDev	.0041	.0005	.0152	.0666	.0004	.0025	.0001

%RSD	11.47	.6249	2.323	11.77	.6555	4.629	6.233
#1	.0331	.0791	.6565	.6190	.0594	.0519	.0023
#2	.0406	.0799	.6646	.4914	.0589	.0569	.0021
#3	.0339	.0791	.6352	.5882	.0586	.0551	.0024

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0782	.0039
SDev	.0013	.0009
%RSD	1.710	23.58
#1	.0793	.0050
#2	.0785	.0032
#3	.0767	.0036

Analysis Report Fri 09-01-95 12:17:06 PM page 1

Method: ICP1 Sample Name: 95-007946-H1T Operator: DRS
Run Time: 09/01/95 12:15:46
Comment: QTR SEG 4B TOP HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0066	.0393	.0114	-.0023	.0014	.0001	.0118
SDev	.0009	.0018	.0061	.0009	.0000	.0000	.0069
%RSD	13.72	4.541	53.43	39.29	.1480	24.29	58.76
#1	.0070	.0375	.0179	-.0023	.0014	.0001	.0041
#2	.0071	.0411	.0058	-.0014	.0014	.0001	.0176
#3	.0055	.0392	.0107	-.0033	.0014	.0001	.0138

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0147	.0020	.0411	.0040	.0008	.0048	.0073
SDev	.0011	.0003	.0055	.0011	.0022	.0005	.0013
%RSD	7.549	15.28	13.38	26.87	267.9	11.33	17.11
#1	-.0158	.0022	.0450	.0038	.0031	.0051	.0080
#2	-.0136	.0022	.0435	.0051	.0004	.0051	.0080
#3	-.0147	.0017	.0348	.0030	-.0011	.0042	.0059

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.0045	1.422	.0132	.0063	.0257	.0004
SDev	.0003	.0004	.199	.0019	.0006	.0059	.0001
%RSD	13.46	9.828	13.97	14.65	8.818	22.78	33.16
#1	.0021	.0046	1.537	.0143	.0067	.0325	.0004
#2	.0021	.0049	1.537	.0144	.0057	.0219	.0005
#3	.0017	.0040	1.193	.0110	.0064	.0227	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0958	.0435	.0054	.0455	.0278	.1139
SDev	.0009	.0218	.0045	.0031	.0074	.0078	.0211
%RSD	37.96	22.73	10.28	57.62	16.24	28.18	18.52
#1	.0019	.1083	.0475	.0074	.0448	.0361	.1210
#2	.0033	.1084	.0443	.0071	.0532	.0267	.1306
#3	.0016	.0706	.0387	.0018	.0385	.0205	.0902

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0552	.0214	.0215	-.0087	.1338	.0005	.0192
SDev	.0104	.0009	.0076	.0056	.0222	.0001	.0031
%RSD	18.88	4.143	35.15	63.96	16.59	11.63	16.01
#1	.0616	.0205	.0257	-.0032	.1504	.0005	.0227
#2	.0609	.0214	.0128	-.0087	.1424	.0005	.0172
#3	.0432	.0223	.0261	-.0143	.1086	.0004	.0176

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0026	.0037	.6589	.0050	.0182	.0025
SDev	.0047	.0005	.0103	.0735	.0009	.0046	.0008

%RSD	218.4	21.03	280.8	11.15	18.24	25.42	29.80
#1	.0021	.0031	.0094	.7052	.0057	.0206	.0026
#2	-.0025	.0025	.0098	.6973	.0052	.0128	.0032
#3	.0070	.0021	-.0082	.5742	.0040	.0211	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0003	.0053
SDev	.0005	.0013
%RSD	153.0	24.20
#1	.0009	.0060
#2	.0001	.0061
#3	-.0000	.0038

Analysis Report Fri 09-01-95 12:20:24 PM page 1

Method: ICP1 Sample Name: 95-007946-H2T Operator: DRS
Run Time: 09/01/95 12:19:04
Comment: QTR SEG 4B TOP DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0048	.0209	.0017	-.0017	.0010	.0001	.0061
SDev	.0003	.0014	.0067	.0003	.0000	.0000	.0036
%RSD	5.550	6.600	399.3	20.48	.0138	35.55	59.10
#1	.0047	.0223	.0046	-.0019	.0010	.0001	.0049
#2	.0046	.0196	-.0060	-.0013	.0010	.0001	.0032
#3	.0051	.0208	.0065	-.0019	.0010	.0001	.0101

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0144	.0016	.0403	.0033	.0023	.0024	.0054
SDev	.0015	.0010	.0039	.0004	.0013	.0005	.0004
%RSD	10.30	60.12	9.709	12.75	56.00	20.39	8.327
#1	-.0160	.0023	.0381	.0029	.0010	.0027	.0055
#2	-.0131	.0005	.0380	.0032	.0024	.0019	.0050
#3	-.0141	.0020	.0448	.0037	.0035	.0027	.0059

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.0028	1.044	.0101	.0052	.0182	.0002
SDev	.0002	.0006	.043	.0004	.0006	.0049	.0001
%RSD	12.60	20.42	4.148	3.637	10.66	27.09	90.64
#1	.0014	.0025	1.038	.0105	.0046	.0166	.0002
#2	.0012	.0023	1.004	.0099	.0057	.0238	.0000
#3	.0015	.0034	1.090	.0099	.0053	.0144	.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0820	.0332	.0040	.0298	.0201	.0821
SDev	.0006	.0064	.0024	.0007	.0125	.0004	.0053
%RSD	50.65	7.846	7.116	17.33	41.77	2.066	6.427
#1	.0017	.0750	.0340	.0042	.0157	.0205	.0872
#2	.0014	.0834	.0305	.0045	.0347	.0197	.0767
#3	.0005	.0876	.0351	.0032	.0391	.0200	.0825

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0408	.0120	.0157	-.0104	.1055	.0003	.0158
SDev	.0059	.0051	.0008	.0046	.0130	.0000	.0032
%RSD	14.36	42.27	5.441	44.22	12.36	.4839	20.00
#1	.0442	.0164	.0166	-.0051	.1007	.0003	.0179
#2	.0340	.0064	.0152	-.0135	.0955	.0003	.0174
#3	.0441	.0133	.0151	-.0126	.1202	.0003	.0122

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	.0020	.0034	.4791	.0039	.0078	.0020
SDev	.0081	.0003	.0065	.0198	.0004	.0024	.0002

%RSD	116.6	14.18	188.1	4.133	10.71	30.11	8.848
#1	-.0023	.0019	.0024	.5007	.0039	.0057	.0021
#2	.0130	.0017	-.0025	.4748	.0034	.0074	.0018
#3	.0102	.0023	.0104	.4618	.0043	.0104	.0021

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	.0035
SDev	.0002	.0008
%RSD	146.7	21.47
#1	-.0000	.0044
#2	-.0003	.0029
#3	-.0000	.0033

Analysis Report QC Standard Fri 09-01-95 12:24:27 PM page 1

Method: ICP1 Sample Name: MCVA 9507281901 Operator: DRS
Run Time: 09/01/95 12:23:08
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS RM 9/11/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4815	25.03	2.638	2.005	.5081	.0933	24.29
SDev	.0026	.19	.021	.020	.0044	.0006	.13
%RSD	.5358	.7718	.7845	1.022	.8760	.6807	.5526
#1	.4806	24.98	2.615	1.995	.5070	.0931	24.24
#2	.4844	25.25	2.655	2.028	.5130	.0940	24.44
#3	.4795	24.87	2.643	1.991	.5043	.0928	24.18
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.25	.4996	-.0296	1.040	1.033	1.015	.0005
SDev	.11	.0036	.0077	.005	.006	.008	.0009
%RSD	.4498	.7176	25.97	.4860	.5856	.7993	162.6
#1	25.20	.4955	-.0259	1.037	1.039	1.014	.0009
#2	25.33	.5023	-.0384	1.046	1.033	1.024	-.0005
#3	25.17	.5009	-.0244	1.037	1.027	1.008	.0012
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	20.63	25.14	.0066	1.917	26.59	.5173
SDev	.0001	.11	.34	.0008	.024	.16	.0039
%RSD	3.153	.5411	1.346	12.67	1.250	.5933	.7516
#1	.0021	20.59	25.19	.0070	1.914	26.55	.5148
#2	.0020	20.75	25.45	.0056	1.943	26.76	.5218
#3	.0021	20.54	24.78	.0072	1.895	26.45	.5155
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.040	24.24	.0117	1.073	.0726	2.641	-.0271
SDev	.005	.32	.0063	.010	.0318	.010	.0085
%RSD	.4967	1.321	54.19	.8913	43.78	.3648	31.26
#1	1.037	24.23	.0126	1.074	.0947	2.641	-.0227
#2	1.046	24.56	.0049	1.081	.0871	2.651	-.0369
#3	1.038	23.92	.0175	1.062	.0362	2.632	-.0218
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Analysis Report QC Standard Fri 09-01-95 12:24:27 PM page 2

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	2.560	2.493	18.93	-.0853	.5160	-.0082
SDev	.0054	.009	.018	.12	.0282	.0043	.0062
%RSD	608.2	.3681	.7208	.6172	33.09	.8359	76.15
#1	.0042	2.549	2.482	18.88	-.0740	.5147	-.0040
#2	-.0054	2.567	2.513	19.07	-.1175	.5209	-.0153
#3	.0038	2.565	2.483	18.85	-.0645	.5125	-.0052
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0463	1.005	2.488	.1073	1.002	.0389	-.0001
SDev	.0019	.006	.037	.0801	.005	.0018	.0004
%RSD	4.049	.6259	1.475	74.59	.5160	4.625	662.2
#1	.0448	1.003	2.465	.0983	1.001	.0400	.0000
#2	.0457	1.012	2.530	.0322	1.008	.0369	-.0006
#3	.0484	1.0000	2.468	.1916	.9977	.0400	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.042	2.073
SDev	.002	.015
%RSD	.2261	.7247
#1	1.042	2.065
#2	1.044	2.090
#3	1.040	2.064
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Fri 09-01-95 12:28:11 PM page 1

Method: ICP1 Sample Name: STD1-Blank Operator: DRS
Run Time: 09/01/95 12:26:52
Comment: QTR SEG 4B TOP DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0004	-.0008	-.0009	-.0001	-.0000	-.0007
SDev	.0001	.0041	.0086	.0011	.0001	.0000	.0040
%RSD	90.52	1044.	1125.	134.2	86.40	11.75	610.0
#1	-.0000	.0050	-.0002	-.0019	-.0000	-.0000	-.0037
#2	.0002	-.0008	.0076	.0004	-.0000	-.0000	.0039
#3	.0002	-.0029	-.0097	-.0011	-.0002	-.0000	-.0022

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0021	-.0028	-.0001	-.0020	-.0015	.0006
SDev	.0014	.0024	.0041	.0010	.0014	.0007	.0005
%RSD	43.78	111.1	144.7	644.0	69.15	44.32	85.62
#1	.0046	-.0006	-.0011	.0004	-.0016	-.0010	.0011
#2	.0029	.0035	-.0075	.0005	-.0036	-.0022	.0003
#3	.0019	.0035	.0001	-.0012	-.0008	-.0013	.0002

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0024	-.1319	.0018	.0007	.0053	-.0001
SDev	.0001	.0001	.0788	.0004	.0010	.0029	.0002
%RSD	69.94	5.531	59.77	20.42	144.3	54.48	120.6
#1	-.0003	.0023	-.0631	.0018	.0013	.0029	.0001
#2	-.0001	.0026	-.1147	.0015	-.0005	.0044	-.0002
#3	-.0001	.0024	-.2179	.0022	.0013	.0085	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0155	-.0010	.0021	.0156	-.0095	-.0082
SDev	.0010	.0190	.0028	.0018	.0020	.0017	.0062
%RSD	570.7	122.8	275.4	86.83	12.71	18.04	75.05
#1	-.0008	.0337	.0019	.0038	.0172	-.0109	-.0015
#2	.0012	-.0042	-.0038	.0024	.0162	-.0076	-.0136
#3	.0001	.0169	-.0012	.0001	.0134	-.0101	-.0097

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	.0079	.0025	.0087	-.0228	-.0000	-.0021
SDev	.0018	.0003	.0056	.0036	.0127	.0001	.0018
%RSD	499.3	3.956	227.0	40.62	55.89	182.9	88.70
#1	-.0019	.0082	.0054	.0119	-.0173	.0000	-.0033
#2	-.0008	.0077	-.0040	.0049	-.0373	-.0001	.0000
#3	.0016	.0077	.0060	.0095	-.0137	-.0001	-.0030

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0029	.0002	-.0061	-.0300	-.0002	.0052	-.0001
SDev	.0019	.0001	.0029	.0229	.0005	.0064	.0003

%RSD	65.66	93.70	47.84	76.34	262.8	123.7	350.8
#1	.0050	.0003	-.0091	-.0193	.0000	-.0020	-.0001
#2	.0026	.0001	-.0032	-.0144	.0002	.0103	.0002
#3	.0012	.0001	-.0062	-.0563	-.0007	.0073	-.0004

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0004	.0002
SDev	.0006	.0001
%RSD	155.5	76.17
#1	-.0002	.0003
#2	.0004	.0003
#3	.0010	.0000

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Method: ICP1 Sample Name: 95-007941-HCB @2 Operator: DRS
Run Time: 09/01/95 12:33:33
Comment: KOH/Ni FUSION PROCESS BLANK @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	.4502	.0380	.1494	.0041	.0001	.0254
SDev	.0014	.0048	.0075	.0019	.0003	.0001	.0016
%RSD	37.78	1.057	19.66	1.264	7.352	73.31	6.317
#1	.0034	.4515	.0312	.1494	.0041	.0000	.0238
#2	.0026	.4449	.0460	.1475	.0038	.0001	.0270
#3	.0054	.4542	.0367	.1513	.0044	.0002	.0255

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1214	.0106	.0124	.0144	.0182	-.0295	.0038
SDev	.0027	.0009	.0080	.0005	.0019	.0015	.0009
%RSD	2.218	8.526	64.45	3.478	10.47	4.995	24.26
#1	.1197	.0114	.0066	.0139	.0198	-.0301	.0032
#2	.1200	.0096	.0092	.0143	.0161	-.0305	.0033
#3	.1245	.0109	.0216	.0149	.0187	-.0278	.0049

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.2961	5015.	.0078	.0534	.0509	.0955
SDev	.0003	.0027	52.	.0024	.0016	.0055	.0008
%RSD	69.66	.9301	1.038	31.45	3.101	10.76	.8455
#1	.0003	.2958	5026.	.0064	.0530	.0497	.0949
#2	.0003	.2989	5060.	.0063	.0519	.0461	.0965
#3	.0009	.2935	4958.	.0106	.0552	.0569	.0953

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0099	2.146	.0143	11.38	.0942	.0577	.0282
SDev	.0009	.012	.0074	.09	.0178	.0141	.0249
%RSD	9.113	.5704	51.97	.8113	18.86	24.49	88.29
#1	.0092	2.139	.0112	11.39	.0968	.0477	.0116
#2	.0097	2.160	.0089	11.47	.0753	.0516	.0162
#3	.0109	2.139	.0228	11.28	.1105	.0739	.0569

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0522	.0343	.0437	.4443	.1629	.0020	.0351
SDev	.0100	.0073	.0047	.0022	.0340	.0001	.0051
%RSD	19.21	21.13	10.75	.5000	20.89	6.064	14.46
#1	.0463	.0335	.0425	.4424	.1383	.0020	.0314
#2	.0464	.0275	.0398	.4438	.1487	.0020	.0329
#3	.0637	.0419	.0489	.4468	.2017	.0022	.0408

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0199	.1122	.0251	.2673	.0046	.0307	.0010
SDev	.0024	.0011	.0092	.0927	.0014	.0094	.0003

%RSD	11.88	.9671	36.65	34.69	29.29	30.43	27.80
#1	.0194	.1126	.0191	.2011	.0038	.0232	.0010
#2	.0179	.1131	.0205	.2276	.0038	.0278	.0007
#3	.0225	.1110	.0357	.3733	.0062	.0412	.0012

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0075	.0657
SDev	.0012	.0006
%RSD	16.21	.9003
#1	.0073	.0651
#2	.0063	.0656
#3	.0087	.0663

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Method: ICP1 Sample Name: 95-007941-H1T @10 K Operator: DRS
Run Time: 09/01/95 12:36:12
Comment: SEGMENT 1 TOF @10X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	14.87	.0360	.0282	.0028	.0001	.0338
SDev	.0005	.01	.0083	.0008	.0001	.0000	.0037
%RSD	16.61	.0828	22.96	2.784	4.956	45.06	11.08
#1	.0028	14.86	.0384	.0283	.0030	.0001	.0363
#2	.0032	14.87	.0428	.0273	.0027	.0001	.0295
#3	.0023	14.88	.0268	.0288	.0027	.0001	.0356

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1017	.0053	.0155	.0068	.0148	-.0019	.0042
SDev	.0005	.0006	.0013	.0006	.0013	.0011	.0004
%RSD	.4594	12.10	8.575	9.042	8.914	55.89	8.663
#1	.1015	.0045	.0156	.0062	.0142	-.0008	.0045
#2	.1014	.0057	.0167	.0066	.0139	-.0020	.0043
#3	.1022	.0056	.0141	.0074	.0163	-.0030	.0038

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.1641	1125.	.0064	.0135	.0457	.0336
SDev	.0001	.0008	4.	.0014	.0002	.0019	.0004
%RSD	15.39	.5007	.3644	22.48	1.549	4.225	1.073
#1	.0007	.1643	1121.	.0074	.0132	.0460	.0333
#2	.0008	.1649	1127.	.0071	.0136	.0474	.0337
#3	.0006	.1633	1128.	.0048	.0136	.0436	.0340

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	10.93	.0167	10.87	2.613	.0350	.0468
SDev	.0018	.07	.0005	.03	.035	.0022	.0052
%RSD	54.81	.6454	3.074	.2824	1.351	6.346	11.19
#1	.0026	10.85	.0161	10.87	2.583	.0367	.0505
#2	.0052	10.97	.0170	10.90	2.604	.0357	.0492
#3	.0019	10.97	.0171	10.83	2.652	.0324	.0408

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0311	.0183	.0263	.6454	.1212	.0030	.0131
SDev	.0026	.0142	.0064	.0054	.0297	.0000	.0061
%RSD	8.486	77.76	24.21	.8410	24.53	.0674	46.49
#1	.0287	.0326	.0337	.6513	.1387	.0030	.0202
#2	.0339	.0182	.0229	.6407	.1379	.0030	.0094
#3	.0309	.0041	.0224	.6442	.0868	.0030	.0099

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	.0394	.0351	.3713	.0074	.0227	.0008
SDev	.0046	.0001	.0034	.0249	.0002	.0076	.0004

%RSD	81.13	.3632	9.536	6.705	3.230	33.63	43.70
#1	.0053	.0394	.0370	.3892	.0076	.0279	.0012
#2	.0105	.0396	.0371	.3429	.0075	.0263	.0006
#3	.0013	.0393	.0313	.3820	.0072	.0139	.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0022	.0198
SDev	.0015	.0002
%RSD	67.75	.9271
#1	.0038	.0201
#2	.0015	.0197
#3	.0012	.0198

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Method: ICP1 Sample Name: 95-007941-H1T @10 R Operator: DRS
Run Time: 09/01/95 12:39:36
Comment: SEGMENT 1 TOP @10X DIL RERUN HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	14.72	.0337	.0266	.0028	.0001	.0315
SDev	.0016	.17	.0060	.0007	.0003	.0000	.0115
%RSD	51.91	1.170	17.68	2.628	8.928	14.36	36.46
#1	.0030	14.62	.0400	.0274	.0028	.0001	.0321
#2	.0015	14.92	.0282	.0260	.0025	.0001	.0198
#3	.0046	14.62	.0330	.0265	.0030	.0001	.0428

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0584	.0048	.0187	.0067	.0165	-.0025	.0040
SDev	.0024	.0018	.0097	.0019	.0017	.0003	.0011
%RSD	4.063	38.23	52.07	28.16	10.60	11.05	28.02
#1	.0585	.0068	.0195	.0067	.0167	-.0023	.0041
#2	.0560	.0044	.0085	.0048	.0181	-.0028	.0028
#3	.0608	.0032	.0279	.0085	.0146	-.0024	.0050

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.1620	1114.	.0070	.0132	.0500	.0335
SDev	.0004	.0008	15.	.0021	.0006	.0049	.0004
%RSD	51.22	.5041	1.347	29.20	4.715	9.846	1.197
#1	.0008	.1612	1106.	.0065	.0129	.0533	.0334
#2	.0003	.1628	1131.	.0053	.0129	.0444	.0339
#3	.0011	.1619	1105.	.0093	.0140	.0524	.0331

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0043	10.82	.0172	10.78	2.595	.0366	.0421
SDev	.0006	.13	.0083	.10	.060	.0123	.0207
%RSD	13.47	1.231	48.55	.9062	2.299	33.50	49.12
#1	.0045	10.77	.0187	10.73	2.555	.0341	.0518
#2	.0036	10.97	.0082	10.89	2.664	.0258	.0184
#3	.0046	10.72	.0247	10.72	2.567	.0500	.0562

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0322	.0164	.0232	.6597	.1129	.0029	.0219
SDev	.0099	.0034	.0036	.0144	.0193	.0001	.0034
%RSD	30.85	20.62	15.64	2.180	17.09	1.829	15.66
#1	.0356	.0188	.0238	.6432	.1302	.0030	.0180
#2	.0210	.0125	.0265	.6697	.1163	.0029	.0233
#3	.0400	.0179	.0193	.6661	.0921	.0030	.0243

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0115	.0394	.0342	.2950	.0072	.0217	.0010
SDev	.0034	.0002	.0110	.1373	.0011	.0095	.0009

%RSD	29.29	.6108	32.16	46.54	15.07	43.59	89.96
#1	.0099	.0392	.0215	.3451	.0072	.0139	.0009
#2	.0092	.0394	.0411	.1397	.0062	.0191	.0001
#3	.0153	.0397	.0400	.4003	.0084	.0322	.0018

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0015	.0191
SDev	.0007	.0011
%RSD	44.11	5.573
#1	.0013	.0194
#2	.0022	.0179
#3	.0010	.0199

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Method: ICP1 Sample Name: 95-007941-H1T @2 KOH Operator: DRS
Run Time: 09/01/95 12:44:08
Comment: SEGMENT 1 TOP @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0058	69.60	.1296	.1350	.0113	.0004	.1470
SDev	.0006	.48	.0156	.0028	.0001	.0000	.0071
%RSD	10.11	.6920	12.07	2.084	1.058	5.893	4.841
#1	.0051	69.99	.1116	.1320	.0113	.0004	.1401
#2	.0062	69.07	.1400	.1355	.0114	.0004	.1543
#3	.0060	69.75	.1373	.1376	.0112	.0004	.1465

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5811	.0136	.0299	.0253	.0748	-.0103	.0084
SDev	.0021	.0013	.0092	.0013	.0016	.0015	.0010
%RSD	.3606	9.784	30.87	4.937	2.197	14.27	11.65
#1	.5807	.0141	.0194	.0245	.0738	-.0119	.0075
#2	.5793	.0146	.0336	.0267	.0767	-.0090	.0094
#3	.5834	.0121	.0368	.0245	.0739	-.0100	.0081

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.7507	4932.	.0126	.0535	.1633	.1542
SDev	.0002	.0040	35.	.0014	.0008	.0058	.0004
%RSD	20.61	.5388	.7052	11.24	1.410	3.574	.2760
#1	.0008	.7540	4963.	.0110	.0544	.1566	.1546
#2	.0013	.7462	4894.	.0133	.0529	.1669	.1541
#3	.0012	.7519	4937.	.0135	.0533	.1665	.1537

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0146	49.57	.0259	49.62	12.34	.1263	.0689
SDev	.0011	.32	.0064	.23	.10	.0033	.0167
%RSD	7.227	.6524	24.75	.4703	.7753	2.607	24.22
#1	.0137	49.88	.0188	49.76	12.43	.1231	.0549
#2	.0144	49.23	.0311	49.35	12.35	.1296	.0874
#3	.0158	49.60	.0278	49.75	12.24	.1262	.0644

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0682	.0447	.0545	2.998	.2530	.0134	.0474
SDev	.0044	.0054	.0015	.013	.0353	.0001	.0056
%RSD	6.512	12.14	2.774	.4393	13.95	.8374	11.88
#1	.0631	.0388	.0528	2.999	.2199	.0133	.0414
#2	.0704	.0459	.0553	2.984	.2901	.0134	.0482
#3	.0712	.0494	.0555	3.010	.2490	.0135	.0526

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0336	.1803	.1721	.6207	.0262	.0743	.0017
SDev	.0032	.0010	.0105	.0714	.0005	.0037	.0006

%RSD	9.633	.5537	6.095	11.51	2.075	5.008	35.13
#1	.0371	.1811	.1727	.5666	.0256	.0765	.0011
#2	.0308	.1791	.1614	.7017	.0265	.0700	.0022
#3	.0328	.1805	.1823	.5938	.0265	.0763	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0076	.0852
SDev	.0024	.0004
%RSD	32.34	.5270
#1	.0064	.0851
#2	.0059	.0849
#3	.0104	.0857

Analysis Report Fri 09-01-95 12:49:15 PM page 1

Method: ICP1 Sample Name: 95-007941-H2T @2 KOH Operator: DRS
Run Time: 09/01/95 12:47:56
Comment: SEGMENT 1 TOP @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	68.44	.1189	.1569	.0078	.0003	.0518
SDev	.0010	.49	.0005	.0013	.0002	.0000	.0058
%RSD	18.72	.7109	.3880	.8510	2.667	9.429	11.16
#1	.0068	67.91	.1193	.1581	.0079	.0003	.0467
#2	.0049	68.87	.1184	.1570	.0075	.0003	.0581
#3	.0051	68.53	.1190	.1555	.0079	.0003	.0507

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7437	.0144	.0263	.0203	.0799	-.0093	.0067
SDev	.0020	.0014	.0008	.0008	.0024	.0012	.0004
%RSD	.2645	9.898	2.914	3.995	3.018	13.09	5.859
#1	.7429	.0159	.0262	.0212	.0826	-.0081	.0071
#2	.7460	.0142	.0256	.0196	.0790	-.0105	.0063
#3	.7423	.0130	.0271	.0203	.0781	-.0094	.0068

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.4988	4761.	.0089	.0600	.1136	.1392
SDev	.0001	.0022	27.	.0013	.0006	.0040	.0008
%RSD	12.34	.4450	.5661	13.95	.9196	3.522	.5551
#1	.0013	.4962	4730.	.0101	.0602	.1093	.1383
#2	.0010	.5000	4781.	.0076	.0605	.1172	.1397
#3	.0012	.5001	4771.	.0091	.0594	.1143	.1395

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0146	50.12	.0289	25.96	15.54	.0959	.0628
SDev	.0011	.29	.0069	.13	.07	.0062	.0136
%RSD	7.373	.5844	23.84	.5031	.4550	6.465	21.60
#1	.0155	49.78	.0355	25.81	15.46	.0888	.0764
#2	.0134	50.32	.0217	26.07	15.58	.0985	.0492
#3	.0149	50.25	.0294	25.99	15.58	.1003	.0629

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0556	.0443	.0535	2.089	.2170	.0110	.0386
SDev	.0027	.0096	.0131	.010	.0035	.0000	.0069
%RSD	4.792	21.66	24.45	.4611	1.603	.0350	17.98
#1	.0577	.0429	.0475	2.079	.2164	.0110	.0465
#2	.0526	.0354	.0686	2.098	.2208	.0110	.0337
#3	.0565	.0545	.0446	2.088	.2139	.0110	.0356

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0272	.0920	.1557	.5486	.0231	.0601	.0018
SDev	.0045	.0003	.0023	.0379	.0006	.0017	.0002

%RSD	16.54	.2837	1.490	6.905	2.808	2.775	9.653
#1	.0320	.0917	.1578	.5605	.0236	.0610	.0020
#2	.0263	.0921	.1532	.5061	.0224	.0582	.0017
#3	.0232	.0923	.1562	.5790	.0234	.0611	.0017

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0265	.0947
SDev	.0026	.0006
%RSD	9.928	.6490
#1	.0293	.0941
#2	.0241	.0953
#3	.0262	.0949

Analysis Report Fri 09-01-95 12:52:52 PM page 1

Method: ICP1 Sample Name: 95-007941-H1B @2 KOH Operator: DRS
Run Time: 09/01/95 12:51:33
Comment: SEGMENT 1 BOTTOM @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0089	73.84	.1145	.1602	.0136	.0005	.1097
SDev	.0015	1.28	.0234	.0031	.0002	.0001	.0052
%RSD	17.33	1.727	20.46	1.905	1.316	14.35	4.739
#1	.0072	75.31	.0888	.1636	.0134	.0004	.1049
#2	.0094	73.16	.1200	.1578	.0138	.0005	.1089
#3	.0102	73.05	.1347	.1590	.0137	.0005	.1152

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6836	.0121	.0504	.0117	.0750	.0087	.0084
SDev	.0049	.0014	.0119	.0012	.0008	.0009	.0015
%RSD	.7154	11.15	23.58	10.47	1.004	9.961	17.62
#1	.6892	.0125	.0368	.0105	.0755	.0077	.0067
#2	.6807	.0106	.0554	.0116	.0754	.0091	.0093
#3	.6808	.0132	.0590	.0130	.0742	.0093	.0092

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.9276	4591.	.0249	.0413	.2059	.1109
SDev	.0004	.0122	81.	.0025	.0010	.0025	.0013
%RSD	19.65	1.319	1.760	10.13	2.312	1.235	1.137
#1	.0017	.9417	4685.	.0220	.0406	.2065	.1122
#2	.0024	.9202	4548.	.0266	.0424	.2031	.1098
#3	.0024	.9208	4542.	.0260	.0410	.2081	.1105

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	50.86	.0435	13.21	15.05	.1310	.1144
SDev	.0008	.93	.0092	.15	.21	.0098	.0232
%RSD	6.118	1.834	21.24	1.159	1.378	7.455	20.32
#1	.0121	51.93	.0334	13.39	15.28	.1286	.0877
#2	.0133	50.38	.0458	13.12	14.88	.1227	.1251
#3	.0119	50.26	.0514	13.13	14.99	.1417	.1303

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0724	.0459	.0408	2.773	.2550	.0158	.0488
SDev	.0126	.0037	.0077	.041	.0148	.0002	.0145
%RSD	17.44	8.047	18.75	1.493	5.789	1.188	29.70
#1	.0585	.0417	.0459	2.821	.2381	.0160	.0321
#2	.0754	.0473	.0445	2.753	.2652	.0156	.0566
#3	.0832	.0487	.0320	2.746	.2617	.0158	.0578

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0199	.0735	.1796	.7959	.0326	.0527	.0030
SDev	.0021	.0003	.0008	.1592	.0013	.0063	.0007

%RSD	10.58	.4422	.4170	20.00	4.003	11.98	23.47
#1	.0175	.0738	.1797	.6148	.0311	.0455	.0023
#2	.0209	.0732	.1802	.9140	.0333	.0571	.0031
#3	.0214	.0734	.1787	.8588	.0335	.0555	.0037

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0418	.0570
SDev	.0012	.0005
%RSD	2.967	.9396
#1	.0417	.0565
#2	.0431	.0570
#3	.0406	.0575

Analysis Report Fri 09-01-95 12:56:45 PM page 1

Method: ICP1 Sample Name: 95-007941-H2B @2 KOH Operator: DRS
Run Time: 09/01/95 12:55:25
Comment: SEGMENT 1 BOTTOM @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	90.30	.1408	.1227	.0083	.0004	.0279
SDev	.0011	1.27	.0106	.0025	.0000	.0000	.0076
%RSD	15.10	1.402	7.510	2.045	.0503	8.917	27.28
#1	.0070	90.15	.1333	.1208	.0083	.0004	.0229
#2	.0083	89.12	.1529	.1219	.0083	.0005	.0366
#3	.0062	91.64	.1362	.1256	.0083	.0004	.0241

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9795	.0040	.0404	.0215	.0860	.0326	.0075
SDev	.0072	.0010	.0105	.0011	.0011	.0013	.0014
%RSD	.7359	25.50	26.03	5.259	1.297	4.116	18.19
#1	.9753	.0051	.0358	.0213	.0865	.0311	.0077
#2	.9754	.0031	.0524	.0228	.0868	.0333	.0088
#3	.9878	.0038	.0329	.0206	.0847	.0336	.0061

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0020	.7597	4884.	.0135	.0210	.1635	.1186
SDev	.0004	.0086	65.	.0021	.0010	.0026	.0011
%RSD	20.11	1.128	1.335	15.74	4.974	1.582	.9500
#1	.0018	.7560	4880.	.0142	.0204	.1665	.1182
#2	.0024	.7537	4821.	.0151	.0222	.1622	.1178
#3	.0017	.7695	4952.	.0111	.0204	.1619	.1199

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0140	60.51	.0385	3.585	18.29	.0885	.0964
SDev	.0020	.99	.0099	.040	.24	.0022	.0181
%RSD	13.97	1.630	25.68	1.113	1.318	2.537	18.75
#1	.0158	60.52	.0403	3.575	18.32	.0883	.1012
#2	.0144	59.52	.0474	3.551	18.04	.0909	.1117
#3	.0119	61.49	.0279	3.629	18.52	.0864	.0765

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0598	.0366	.0424	2.576	.2224	.0158	.0391
SDev	.0107	.0064	.0150	.022	.0300	.0002	.0095
%RSD	17.87	17.53	35.41	.8496	13.50	1.167	24.33
#1	.0618	.0309	.0433	2.575	.2245	.0158	.0345
#2	.0693	.0435	.0570	2.555	.2513	.0156	.0500
#3	.0482	.0353	.0270	2.598	.1914	.0160	.0327

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0132	.0562	.2017	.7508	.0382	.0462	.0026
SDev	.0063	.0004	.0072	.1273	.0005	.0012	.0004

%RSD	47.62	.6362	3.574	16.96	1.375	2.666	15.13
#1	.0075	.0559	.1942	.7167	.0382	.0468	.0025
#2	.0199	.0562	.2085	.8917	.0388	.0448	.0031
#3	.0121	.0566	.2025	.6440	.0377	.0471	.0023

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0557	.0077
SDev	.0009	.0009
%RSD	1.673	11.78
#1	.0559	.0082
#2	.0546	.0081
#3	.0564	.0066

Analysis Report QC Standard Fri 09-01-95 01:00:25 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/01/95 12:59:06
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS DRS 9/1/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4845	25.25	2.645	2.015	.5105	.0937	24.37
SDev	.0018	.07	.010	.014	.0017	.0002	.05
%RSD	.3779	.2647	.3957	.6797	.3277	.2461	.2085
#1	.4834	25.23	2.636	2.026	.5109	.0937	24.32
#2	.4866	25.32	2.656	2.021	.5119	.0940	24.42
#3	.4835	25.19	2.642	2.000	.5086	.0935	24.36
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.42	.4985	-.0392	1.048	1.035	1.020	.0009
SDev	.05	.0026	.0032	.003	.005	.004	.0006
%RSD	.1852	.5242	8.122	.3136	.4921	.3943	64.78
#1	25.38	.4971	-.0380	1.045	1.030	1.021	.0003
#2	25.48	.4968	-.0429	1.049	1.036	1.023	.0010
#3	25.41	.5015	-.0369	1.051	1.040	1.015	.0015
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	20.75	25.56	.0088	1.945	26.77	.5212
SDev	.0002	.05	.27	.0007	.015	.06	.0017
%RSD	8.263	.2337	1.045	8.173	.7733	.2318	.3311
#1	.0021	20.74	25.57	.0082	1.943	26.74	.5205
#2	.0021	20.80	25.81	.0096	1.960	26.84	.5232
#3	.0024	20.71	25.28	.0086	1.930	26.73	.5199
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	24.63	.0137	1.078	.0974	2.663	-.0276
SDev	.003	.17	.0027	.002	.0113	.009	.0056
%RSD	.3025	.7056	19.91	.2253	11.59	.3232	20.46
#1	1.044	24.65	.0147	1.077	.0844	2.653	-.0333
#2	1.050	24.79	.0106	1.076	.1040	2.667	-.0220
#3	1.048	24.44	.0158	1.081	.1039	2.668	-.0274
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0038	2.578	2.503	19.10	-.0808	.5196	-.0070
SDev	.0010	.015	.017	.05	.0115	.0015	.0020
%RSD	27.66	.5691	.6856	.2554	14.21	.2958	28.14
#1	.0029	2.562	2.498	19.08	-.0746	.5196	-.0050
#2	.0036	2.581	2.522	19.15	-.0737	.5212	-.0089
#3	.0049	2.591	2.489	19.06	-.0941	.5181	-.0070
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0508	1.012	2.502	.1243	1.008	.0377	.0001
SDev	.0023	.002	.005	.0631	.003	.0062	.0003
%RSD	4.477	.2301	.2108	50.73	.2954	16.40	261.1
#1	.0526	1.012	2.496	.0535	1.007	.0322	-.0003
#2	.0482	1.015	2.503	.1449	1.012	.0365	.0003
#3	.0515	1.010	2.507	.1745	1.007	.0443	.0003
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.053	2.089
SDev	.004	.004
%RSD	.3423	.2101
#1	1.049	2.087
#2	1.056	2.094
#3	1.055	2.086
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

Analysis Report Fri 09-01-95 01:04:45 PM page 1

Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/01/95 13:03:26
Comment: SEGMENT 1 BOTTOM @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0044	.0062	.0001	-.0000	.0000	-.0014
SDev	.0002	.0011	.0076	.0014	.0000	.0000	.0076
%RSD	58.86	24.40	122.2	1054.	1.711	27.44	530.0
#1	.0003	.0037	.0084	-.0014	-.0000	.0000	-.0028
#2	.0007	.0038	-.0022	.0010	-.0000	.0000	.0067
#3	.0003	.0056	.0124	.0008	-.0000	.0000	-.0082

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037	.0006	.0008	.0002	.0000	.0006	.0013
SDev	.0009	.0007	.0022	.0001	.0014	.0012	.0003
%RSD	23.20	121.6	285.3	52.32	3629.	207.7	22.28
#1	.0028	.0007	-.0003	.0003	.0001	.0001	.0010
#2	.0045	-.0002	-.0007	.0001	.0014	.0019	.0013
#3	.0040	.0013	.0032	.0002	-.0013	-.0003	.0016

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0020	-.3326	.0022	.0011	.0073	-.0002
SDev	.0001	.0002	.0099	.0011	.0011	.0027	.0001
%RSD	112.4	11.29	2.986	51.89	101.9	36.66	44.61
#1	.0000	.0019	-.3212	.0010	-.0001	.0062	-.0003
#2	.0002	.0017	-.3384	.0024	.0020	.0103	-.0001
#3	.0000	.0022	-.3384	.0033	.0013	.0053	-.0003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0125	.0026	.0034	.0250	-.0011	.0009
SDev	.0007	.0168	.0019	.0023	.0134	.0018	.0067
%RSD	3620.	134.1	74.72	68.31	53.69	170.8	788.2
#1	-.0006	-.0043	.0004	.0051	.0383	.0009	-.0048
#2	-.0001	.0126	.0039	.0044	.0251	-.0013	.0083
#3	.0007	.0294	.0036	.0007	.0115	-.0027	-.0009

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0106	-.0014	.0017	.0108	-.0000	.0031
SDev	.0018	.0068	.0106	.0056	.0132	.0001	.0008
%RSD	80.26	64.61	778.5	329.0	122.0	2040.	24.51
#1	.0007	.0094	.0026	-.0036	-.0027	-.0001	.0035
#2	.0018	.0044	-.0134	.0011	.0237	.0000	.0022
#3	.0042	.0179	.0067	.0076	.0115	.0000	.0034

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082	.0001	-.0063	.0340	.0008	.0056	.0002
SDev	.0016	.0002	.0040	.0281	.0001	.0041	.0003

%RSD	19.18	170.1	64.14	82.59	8.370	72.73	177.4
#1	.0064	.0003	-.0078	.0450	.0007	.0040	.0002
#2	.0089	.0003	-.0094	.0021	.0008	.0025	.0005
#3	.0094	-.0001	-.0017	.0549	.0009	.0102	-.0001

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0005	.0001
SDev	.0004	.0002
%RSD	90.83	164.0
#1	.0003	-.0001
#2	.0010	.0004
#3	.0002	.0001

Analysis Report Fri 09-01-95 01:08:14 PM page 1

Method: ICP1 Sample Name: 95-007946-HCB @2 KOH Operator: DRS
Run Time: 09/01/95 13:06:55
Comment: KOH/Ni FUSION PROCESS BLANK @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0064	.5151	.0801	.1151	.0049	.0003	.0852
SDev	.0005	.0003	.0014	.0006	.0003	.0000	.0043
%RSD	8.283	.0672	1.800	.4830	6.095	5.938	5.087
#1	.0058	.5155	.0816	.1146	.0046	.0003	.0839
#2	.0066	.5149	.0800	.1157	.0049	.0003	.0816
#3	.0067	.5150	.0787	.1151	.0052	.0003	.0900

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1863	.0131	.0294	.0338	.0378	.0148	.0105
SDev	.0010	.0010	.0032	.0010	.0027	.0008	.0006
%RSD	.5501	7.701	10.76	2.824	7.185	5.144	5.650
#1	.1851	.0142	.0259	.0327	.0407	.0143	.0101
#2	.1868	.0122	.0300	.0345	.0354	.0157	.0103
#3	.1869	.0130	.0322	.0343	.0374	.0144	.0112

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.1906	4942.	.0096	.0112	.0570	.2029
SDev	.0001	.0016	37.	.0021	.0006	.0046	.0023
%RSD	10.69	.8650	.7476	21.69	4.950	8.130	1.128
#1	.0013	.1921	4977.	.0077	.0118	.0537	.2044
#2	.0013	.1909	4946.	.0092	.0107	.0623	.2040
#3	.0016	.1888	4903.	.0118	.0111	.0550	.2003

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0121	2.249	.0308	67.51	.1432	.0656	.1996
SDev	.0014	.024	.0030	.33	.0042	.0116	.0164
%RSD	11.15	1.061	9.695	.4860	2.937	17.67	8.203
#1	.0106	2.223	.0282	67.72	.1444	.0523	.1828
#2	.0133	2.269	.0302	67.67	.1467	.0734	.2006
#3	.0124	2.256	.0341	67.13	.1386	.0711	.2155

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0969	.0576	.0577	.1800	.2788	.0024	.0599
SDev	.0069	.0017	.0061	.0077	.0223	.0001	.0036
%RSD	7.074	2.931	10.64	4.255	7.998	2.402	5.986
#1	.0927	.0582	.0622	.1730	.2736	.0024	.0597
#2	.0932	.0557	.0507	.1788	.2595	.0025	.0635
#3	.1048	.0590	.0602	.1882	.3032	.0025	.0563

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0441	.1658	.0337	.6920	.0066	.0815	.0020
SDev	.0058	.0011	.0079	.1258	.0008	.0096	.0003

%RSD	13.22	.6921	23.43	18.18	12.02	11.78	13.75
#1	.0402	.1665	.0388	.5888	.0057	.0915	.0020
#2	.0508	.1664	.0246	.6552	.0071	.0805	.0017
#3	.0413	.1644	.0377	.8321	.0072	.0724	.0022

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0329	.0069
SDev	.0010	.0009
%RSD	2.900	13.17
#1	-.0340	.0067
#2	-.0324	.0061
#3	-.0324	.0079

Analysis Report Fri 09-01-95 01:11:42 PM page 1

Method: ICP1 Sample Name: 95-007946-H1T @10 K Operator: DRS
Run Time: 09/01/95 13:10:23
Comment: QTR SEG 4B TOP @10X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	1.432	.0188	.0262	.0702	.0001	.3263
SDev	.0011	.012	.0006	.0012	.0003	.0000	.0154
%RSD	164.9	.8695	2.938	4.588	.4296	33.78	4.710
#1	.0012	1.428	.0185	.0256	.0699	.0001	.3388
#2	-.0006	1.446	.0185	.0254	.0705	.0001	.3309
#3	.0014	1.422	.0195	.0276	.0701	.0001	.3091

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.273	.0068	-.0016	.0075	.0610	-.0001	.0004
SDev	.003	.0003	.0078	.0006	.0013	.0011	.0008
%RSD	.2352	5.214	483.9	8.177	2.117	1301.	190.1
#1	1.273	.0072	.0032	.0082	.0598	.0011	.0010
#2	1.276	.0065	-.0106	.0070	.0608	-.0012	-.0005
#3	1.270	.0068	.0026	.0074	.0623	-.0002	.0008

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	3.280	1142.	.0042	.0126	.1721	.0884
SDev	.0004	.017	12.	.0016	.0015	.0108	.0006
%RSD	564.8	.5301	1.052	37.91	11.57	6.281	.6493
#1	.0003	3.271	1134.	.0058	.0124	.1841	.0879
#2	-.0005	3.300	1156.	.0026	.0113	.1632	.0891
#3	-.0000	3.269	1137.	.0042	.0142	.1690	.0884

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032	11.95	.0042	18.14	2.177	.1062	-.0711
SDev	.0010	.21	.0061	.08	.022	.0079	.0142
%RSD	32.61	1.750	146.2	.4315	.9915	7.416	19.95
#1	.0038	11.83	.0086	18.10	2.152	.1151	-.0609
#2	.0020	12.19	-.0028	18.23	2.189	.1001	-.0873
#3	.0038	11.82	.0067	18.09	2.191	.1034	-.0651

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0046	.0089	.0193	.3524	.0228	3.051	.0142
SDev	.0076	.0039	.0108	.0010	.0288	.023	.0069
%RSD	164.1	43.02	55.91	.2837	126.4	.7503	48.41
#1	.0106	.0045	.0073	.3522	.0515	3.037	.0151
#2	-.0039	.0107	.0282	.3514	-.0061	3.077	.0069
#3	.0071	.0116	.0225	.3534	.0229	3.038	.0205

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1127	.0527	.0049	6.849	.0011	.0303	.0012
SDev	.0129	.0001	.0079	.014	.0007	.0072	.0003

%RSD	11.47	.2495	160.5	.2013	64.87	23.91	28.84
#1	.1164	.0527	.0082	6.855	.0010	.0384	.0016
#2	.0983	.0526	-.0041	6.860	.0004	.0279	.0010
#3	.1234	.0528	.0106	6.834	.0018	.0246	.0010

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0055	.0052
SDev	.0019	.0008
%RSD	34.60	15.18
#1	.0036	.0048
#2	.0075	.0061
#3	.0056	.0047

Analysis Report Fri 09-01-95 01:15:21 PM page

Method: ICP1 Sample Name: 95-007946-H1T @2 KOH Operator: DRS
Run Time: 09/01/95 13:14:01
Comment: QTR SEG 4B TOP @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0085	6.716	.1156	.1377	.3155	.0008	1.563
SDev	.0009	.072	.0091	.0007	.0035	.0001	.015
%RSD	11.18	1.076	7.871	.4959	1.118	6.370	.9498
#1	.0081	6.755	.1052	.1381	.3178	.0007	1.566
#2	.0096	6.632	.1200	.1369	.3115	.0008	1.547
#3	.0078	6.760	.1217	.1381	.3173	.0008	1.577

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.152	.0268	.0637	.0431	.2782	.0159	.0066
SDev	.017	.0013	.0095	.0016	.0036	.0014	.0015
%RSD	.2784	4.757	14.94	3.743	1.295	8.822	22.27
#1	6.163	.0283	.0596	.0434	.2752	.0145	.0062
#2	6.133	.0259	.0746	.0446	.2772	.0173	.0083
#3	6.162	.0263	.0570	.0414	.2822	.0158	.0054

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	15.00	4954.	.0257	.0649	.8196	.4092
SDev	.0004	.10	70.	.0027	.0010	.0037	.0022
%RSD	16.17	.6862	1.410	10.68	1.474	.4467	.5246
#1	.0021	15.06	4999.	.0246	.0645	.8231	.4100
#2	.0029	14.88	4874.	.0288	.0642	.8158	.4068
#3	.0022	15.06	4991.	.0236	.0660	.8199	.4109

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0194	53.73	.0562	82.86	10.41	.5453	-.1700
SDev	.0014	.97	.0090	.40	.09	.0055	.0335
%RSD	6.955	1.808	16.07	.4816	.9056	1.011	19.69
#1	.0191	54.35	.0527	83.08	10.45	.5479	-.1943
#2	.0209	52.61	.0664	82.40	10.30	.5490	-.1318
#3	.0183	54.23	.0494	83.11	10.48	.5390	-.1838

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0788	.0583	.0817	1.724	.3123	13.90	.0815
SDev	.0135	.0105	.0148	.007	.0360	.17	.0062
%RSD	17.14	18.06	18.15	.3800	11.52	1.212	7.614
#1	.0699	.0517	.0725	1.731	.2986	13.97	.0815
#2	.0944	.0704	.0988	1.718	.3531	13.70	.0878
#3	.0722	.0526	.0738	1.721	.2851	14.02	.0753

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5328	.2451	.0534	30.88	.0111	.1103	.0085
SDev	.0048	.0016	.0105	.30	.0015	.0144	.0006

%RSD	.9051	.6374	19.60	.9845	13.93	13.10	7.309
#1	.5380	.2462	.0421	31.12	.0101	.1019	.0080
#2	.5284	.2433	.0628	30.54	.0129	.1270	.0092
#3	.5318	.2459	.0553	30.98	.0103	.1021	.0084

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0376	.0262
SDev	.0019	.0012
%RSD	5.146	4.595
#1	.0386	.0249
#2	.0387	.0273
#3	.0353	.0265

Analysis Report Fri 09-01-95 01:19:30 PM page 1

Method: ICP1 Sample Name: 95-007946-H2T @2 KOH Operator: DRS
Run Time: 09/01/95 13:18:10
Comment: QTR SEG 4B TOP @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0070	5.430	.1015	.1522	.2317	.0006	1.219
SDev	.0005	.045	.0099	.0015	.0022	.0000	.007
%RSD	7.332	.8272	9.718	.9805	.9295	1.832	.6100
#1	.0066	5.386	.1127	.1510	.2295	.0006	1.214
#2	.0075	5.428	.0944	.1518	.2318	.0006	1.228
#3	.0068	5.476	.0974	.1539	.2338	.0006	1.216

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.478	.0382	.0512	.0401	.2055	.0068	.0066
SDev	.033	.0001	.0028	.0004	.0043	.0008	.0009
%RSD	.7319	.3697	5.524	1.130	2.102	12.44	13.85
#1	4.443	.0381	.0526	.0406	.2094	.0071	.0074
#2	4.483	.0381	.0530	.0397	.2064	.0059	.0069
#3	4.508	.0383	.0479	.0401	.2008	.0075	.0056

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0018	11.23	4960.	.0235	.0856	.6349	.3335
SDev	.0002	.10	28.	.0004	.0008	.0104	.0027
%RSD	10.62	.8468	.5578	1.902	.8765	1.642	.8144
#1	.0019	11.13	4932.	.0236	.0854	.6231	.3309
#2	.0020	11.25	4960.	.0238	.0850	.6384	.3331
#3	.0016	11.32	4987.	.0230	.0864	.6430	.3363

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0166	60.75	.0474	79.19	14.79	.4125	-.1147
SDev	.0001	.36	.0027	.59	.19	.0073	.0086
%RSD	.7895	.5867	5.641	.7436	1.284	1.757	7.469
#1	.0167	60.38	.0490	78.57	14.58	.4163	-.1051
#2	.0166	60.78	.0489	79.25	14.84	.4170	-.1174
#3	.0164	61.09	.0443	79.74	14.95	.4041	-.1216

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0751	.0522	.0724	1.921	.2679	9.791	.0757
SDev	.0076	.0003	.0049	.016	.0134	.103	.0027
%RSD	10.15	.5377	6.797	.8130	4.993	1.048	3.518
#1	.0829	.0520	.0671	1.905	.2729	9.688	.0777
#2	.0747	.0525	.0734	1.923	.2527	9.791	.0767
#3	.0677	.0520	.0768	1.936	.2780	9.894	.0727

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4113	.2145	.0505	23.47	.0100	.0978	.0068
SDev	.0032	.0018	.0042	.15	.0005	.0068	.0004

%RSD	.7721	.8366	8.282	.6323	5.384	6.964	6.146
#1	.4080	.2125	.0549	23.31	.0105	.1026	.0064
#2	.4143	.2151	.0465	23.51	.0101	.1008	.0067
#3	.4116	.2160	.0502	23.60	.0095	.0900	.0072

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0198	.0203
SDev	.0024	.0002
%RSD	11.85	1.203
#1	.0162	.0205
#2	.0225	.0203
#3	.0187	.0200

Analysis Report Fri 09-01-95 01:24:12 PM page 1

Method: ICP1 Sample Name: 95-007946-H1B @2 KOH Operator: DRS
Run Time: 09/01/95 13:22:52
Comment: QTR SEG 4B BOTTOM @2X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0080	6.201	.1128	.1310	.3107	.0007	1.505
SDev	.0014	.047	.0068	.0009	.0027	.0000	.019
%RSD	17.65	.7644	6.011	.6980	.8798	4.403	1.239
#1	.0068	6.236	.1066	.1301	.3128	.0006	1.518
#2	.0095	6.147	.1200	.1311	.3076	.0007	1.484
#3	.0076	6.220	.1117	.1319	.3118	.0007	1.513

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.947	.0225	.0682	.0357	.2523	.0106	.0062
SDev	.031	.0008	.0044	.0017	.0009	.0016	.0010
%RSD	.5201	3.511	6.410	4.691	.3605	15.41	15.89
#1	5.968	.0218	.0678	.0345	.2526	.0124	.0052
#2	5.911	.0224	.0727	.0376	.2530	.0103	.0072
#3	5.961	.0234	.0640	.0349	.2512	.0091	.0062

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	14.45	4576.	.0295	.0647	.7196	.3420
SDev	.0003	.10	39.	.0001	.0020	.0056	.0026
%RSD	13.13	.6610	.8420	.3804	3.081	.7716	.7503
#1	.0023	14.52	4599.	.0294	.0628	.7132	.3434
#2	.0029	14.34	4531.	.0296	.0668	.7221	.3391
#3	.0025	14.49	4597.	.0295	.0646	.7235	.3436

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0167	54.36	.0543	66.84	11.52	.5048	-.1568
SDev	.0011	.47	.0061	.44	.07	.0022	.0133
%RSD	6.842	.8656	11.24	.6611	.5906	.4317	8.504
#1	.0168	54.66	.0490	67.17	11.59	.5033	-.1684
#2	.0178	53.82	.0610	66.34	11.45	.5073	-.1422
#3	.0155	54.60	.0529	67.02	11.52	.5038	-.1598

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0777	.0508	.0760	1.602	.2808	14.12	.0742
SDev	.0059	.0004	.0031	.011	.0125	.13	.0035
%RSD	7.599	.8897	4.031	.6974	4.445	.9417	4.710
#1	.0749	.0503	.0761	1.610	.2673	14.20	.0718
#2	.0845	.0509	.0791	1.589	.2918	13.96	.0782
#3	.0738	.0512	.0729	1.607	.2833	14.19	.0726

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5064	.1349	.0517	29.25	.0102	.0929	.0083
SDev	.0021	.0006	.0067	.23	.0010	.0088	.0001

%RSD	.4137	.4652	12.92	.7807	9.694	9.480	1.323
#1	.5057	.1353	.0448	29.41	.0095	.0855	.0082
#2	.5048	.1342	.0582	28.99	.0113	.0904	.0084
#3	.5088	.1352	.0522	29.35	.0096	.1026	.0083

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0326	.0215
SDev	.0014	.0015
%RSD	4.372	6.974
#1	.0339	.0227
#2	.0311	.0220
#3	.0328	.0198

Analysis Report Fri 09-01-95 01:28:02 PM page 1

Method: ICP1 Sample Name: 95-007946-H28 @2 KOH Operator: DRS
Run Time: 09/01/95 13:26:43
Comment: QTR SEG 4B BOTTOM @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0063	5.548	.0891	.1522	.2658	.0006	1.317
SDev	.0006	.039	.0004	.0017	.0018	.0000	.007
%RSD	9.299	.6988	.5005	1.116	.6625	6.183	.4957
#1	.0070	5.503	.0894	.1502	.2638	.0006	1.319
#2	.0058	5.566	.0894	.1531	.2667	.0005	1.310
#3	.0062	5.574	.0886	.1533	.2669	.0006	1.323

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.421	.0149	.0537	.0319	.2199	-.0087	.0043
SDev	.022	.0006	.0058	.0009	.0015	.0009	.0007
%RSD	.3996	4.345	10.86	2.872	.6779	10.18	15.24
#1	5.398	.0149	.0604	.0329	.2216	-.0082	.0051
#2	5.424	.0156	.0513	.0310	.2193	-.0097	.0039
#3	5.441	.0143	.0495	.0317	.2188	-.0082	.0040

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019	13.05	4807.	.0203	.0304	.6477	.3038
SDev	.0003	.07	36.	.0010	.0015	.0092	.0012
%RSD	15.47	.5505	.7433	5.016	4.805	1.422	.4095
#1	.0021	12.97	4766.	.0214	.0321	.6540	.3026
#2	.0016	13.09	4833.	.0194	.0296	.6371	.3039
#3	.0019	13.10	4822.	.0201	.0296	.6520	.3050

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0145	49.99	.0409	50.15	11.03	.4581	-.1555
SDev	.0015	.37	.0054	.22	.10	.0033	.0108
%RSD	10.35	.7432	13.21	.4364	.9233	.7134	6.913
#1	.0144	49.57	.0468	49.90	10.92	.4613	-.1535
#2	.0160	50.28	.0361	50.23	11.04	.4584	-.1671
#3	.0130	50.11	.0399	50.32	11.13	.4547	-.1459

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0527	.0449	.0656	1.395	.2189	12.01	.0729
SDev	.0024	.0056	.0046	.010	.0256	.10	.0080
%RSD	4.475	12.41	7.018	.7452	11.72	.8256	10.95
#1	.0553	.0472	.0604	1.383	.2468	11.90	.0781
#2	.0520	.0385	.0671	1.402	.2136	12.06	.0637
#3	.0507	.0489	.0692	1.400	.1963	12.08	.0769

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4328	.1558	.0446	25.60	.0087	.0717	.0068
SDev	.0092	.0008	.0058	.11	.0009	.0009	.0001

%RSD	2.137	.4839	13.09	.4186	10.01	1.252	.6687
#1	.4423	.1550	.0501	25.49	.0097	.0723	.0068
#2	.4238	.1560	.0385	25.69	.0080	.0721	.0068
#3	.4323	.1565	.0452	25.63	.0085	.0707	.0068

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0491	.0204
SDev	.0033	.0006
%RSD	6.740	2.989
#1	.0464	.0197
#2	.0482	.0208
#3	.0528	.0206

Analysis Report

Fri 09-01-95 01:32:01 PM

Method: ICP1 Sample Name: U @50 PPM Operator: DRS
Run Time: 09/01/95 13:30:41
Comment: 950830I106 @10X DIL HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	-.0723	.0165	-.0093	.0002	.0004	-.0168
SDev	.0011	.0040	.0091	.0008	.0001	.0000	.0068
%RSD	93.66	5.527	54.77	8.892	87.60	5.120	40.65
#1	.0001	-.0762	.0075	-.0086	.0001	.0004	-.0169
#2	.0011	-.0682	.0165	-.0102	.0001	.0005	-.0099
#3	.0024	-.0727	.0256	-.0091	.0003	.0005	-.0235

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0412	.0001	.0173	.0035	-.0006	-.0264	-.0063
SDev	.0010	.0016	.0031	.0006	.0027	.0016	.0004
%RSD	2.491	1234.	17.97	18.53	472.8	5.926	6.034
#1	.0400	-.0002	.0138	.0028	-.0032	-.0282	-.0067
#2	.0415	.0019	.0198	.0034	-.0006	-.0259	-.0064
#3	.0420	-.0013	.0182	.0041	.0021	-.0252	-.0059

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0056	-.0000	.0069	.0053	.3304	.0007
SDev	.0003	.0007	.1221	.0014	.0011	.0073	.0001
%RSD	31.31	12.42	7647000.	19.91	20.62	2.223	23.39
#1	-.0011	.0052	-.1319	.0062	.0042	.3253	.0006
#2	-.0008	.0053	.0229	.0061	.0063	.3271	.0005
#3	-.0006	.0065	.1090	.0085	.0053	.3338	.0008

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0146	-.0145	.0099	.0480	.1861	-.4727
SDev	.0019	.0152	.0025	.0025	.0127	.0026	.0174
%RSD	184.5	104.0	17.56	24.81	26.55	1.375	3.672
#1	-.0031	.0184	-.0170	.0086	.0334	.1875	-.4927
#2	-.0004	-.0021	-.0119	.0084	.0564	.1831	-.4613
#3	.0005	.0275	-.0145	.0128	.0543	.1876	-.4641

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0464	-.0125	.0048	.0025	.0746	.0010	-.0052
SDev	.0050	.0017	.0140	.0069	.0426	.0001	.0020
%RSD	10.87	13.73	291.5	283.0	57.12	7.724	38.89
#1	-.0514	-.0122	-.0112	-.0055	.0261	.0009	-.0070
#2	-.0466	-.0144	.0143	.0068	.1062	.0011	-.0056
#3	-.0413	-.0110	.0113	.0061	.0913	.0010	-.0030

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7212	.0011	-.0029	49.33	.0016	.0006	.0037
SDev	.0011	.0002	.0190	.26	.0002	.0037	.0009

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%RSD	.1561	15.86	664.0	.5319	11.58	662.7	23.02
#1	.7221	.0010	-.0240	49.63	.0014	.0044	.0027
#2	.7215	.0011	.0126	49.22	.0015	-.0029	.0042
#3	.7199	.0013	.0028	49.14	.0018	.0001	.0042

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0001	-.0509
SDev	.0005	.0004
%RSD	519.2	.7083
#1	-.0006	-.0512
#2	.0004	-.0509
#3	-.0001	-.0505

Analysis Report QC Standard Fri 09-01-95 01:36:06 PM page 1

Method: ICP1 Sample Name: MCVA 950728I901 Operator: DRS
Run Time: 09/01/95 13:34:47
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS DW 9/1/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4805	25.05	2.621	1.993	.5045	.0925	24.11
SDev	.0020	.22	.011	.011	.0048	.0007	.24
%RSD	.4074	.8977	.4222	.5643	.9581	.7728	1.001
#1	.4825	25.26	2.631	2.004	.5091	.0933	24.35
#2	.4803	25.04	2.624	1.992	.5048	.0925	24.13
#3	.4786	24.83	2.609	1.982	.4995	.0918	23.86
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	25.00	2.500	2.000	.5000	.1000	25.00
Range	.0500	2.500	.2500	.2000	.0500	.0100	2.500

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.20	.4972	-.0322	1.040	1.024	1.007	.0017
SDev	.14	.0033	.0039	.004	.007	.010	.0006
%RSD	.5493	.6711	12.17	.4136	.6731	.9892	32.31
#1	25.33	.5005	-.0366	1.044	1.030	1.017	.0014
#2	25.22	.4972	-.0309	1.041	1.025	1.006	.0014
#3	25.05	.4938	-.0291	1.035	1.016	.9966	.0024
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK
Value	25.00	.5000		1.000	1.000	1.000	
Range	2.500	.0500		.1000	.1000	.1000	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	20.53	25.05	.0093	1.928	26.51	.5163
SDev	.0001	.14	.20	.0022	.022	.19	.0031
%RSD	6.618	.6578	.8049	23.50	1.152	.7212	.6041
#1	.0021	20.65	25.28	.0069	1.951	26.70	.5193
#2	.0024	20.54	24.90	.0100	1.927	26.50	.5167
#3	.0024	20.38	24.97	.0111	1.906	26.32	.5131
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		20.00	25.00		2.000	25.00	.5000
Range		2.000	2.500		.2000	2.500	.0500

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.036	24.55	.0144	1.073	.0874	2.630	-.0106
SDev	.004	.28	.0070	.010	.0192	.005	.0173
%RSD	.3994	1.132	48.26	.9437	22.03	.2036	163.1
#1	1.041	24.85	.0070	1.082	.0825	2.632	-.0290
#2	1.035	24.47	.0155	1.076	.1086	2.635	-.0082
#3	1.033	24.32	.0208	1.062	.0710	2.624	.0054
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	1.000	25.00		1.000		2.500	

Range	.1000	2.500		.1000		.2500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0057	2.565	2.490	18.90	-.0776	.5400	-.0060
SDev	.0093	.021	.020	.12	.0069	.0054	.0076
%RSD	163.0	.8072	.8094	.6187	8.863	.9972	126.6
#1	-.0029	2.579	2.512	19.02	-.0832	.5448	-.0145
#2	.0045	2.574	2.486	18.90	-.0797	.5409	-.0038
#3	.0156	2.541	2.472	18.79	-.0699	.5342	.0002
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value		2.500	2.500	20.00		.5000	
Range		.2500	.2500	2.000		.0500	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0515	1.002	2.478	.1828	.9981	.0347	.0004
SDev	.0049	.007	.014	.0858	.0069	.0060	.0004
%RSD	9.472	.6512	.5657	46.95	.6897	17.15	106.9
#1	.0508	1.008	2.462	.0840	1.004	.0415	.0001
#2	.0470	1.002	2.488	.2252	.9997	.0321	.0003
#3	.0567	.9952	2.483	.2392	.9906	.0305	.0009
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value		1.000	2.500		1.000		
Range		.1000	.2500		.1000		

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.050	2.070
SDev	.007	.017
%RSD	.6349	.8093
#1	1.057	2.086
#2	1.046	2.072
#3	1.046	2.052
Errors	QC Pass	QC Pass
Value	1.000	2.000
Range	.1000	.2000

WHC-SD-WM-DP- 145, REV. 1

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Method: ICP1 Sample Name: MCVB 950830H901 Operator: DRS
Run Time: 09/01/95 13:39:19
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

PASS (+) Rh+W N/A for G... 9/1/95

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	-.1600	.0013	-.0019	-.0003	.0002	-.0022
SDev	.0009	.0067	.0021	.0013	.0002	.0000	.0035
%RSD	25.96	4.179	165.4	69.45	82.04	1.507	163.1
#1	-.0026	-.1535	-.0012	-.0007	-.0001	.0002	-.0006
#2	-.0043	-.1597	.0024	-.0033	-.0005	.0002	.0003
#3	-.0040	-.1669	.0025	-.0016	-.0003	.0002	-.0062
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0542	.0014	2.051	.0007	.0013	-.0152	2.066
SDev	.0024	.0017	.011	.0006	.0021	.0015	.022
%RSD	4.478	119.6	.5310	82.33	166.7	9.646	1.042
#1	.0570	.0032	2.038	.0013	-.0002	-.0137	2.043
#2	.0526	-.0001	2.058	.0007	.0037	-.0167	2.086
#3	.0530	.0010	2.056	.0001	.0003	-.0153	2.069
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000
Range			10.00				10.00

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.064	.0126	-.9922	2.075	.0005	.1035	-.0000
SDev	.020	.0010	.2384	.014	.0006	.0090	.0002
%RSD	.9518	8.241	24.03	.6755	115.0	8.698	446.7
#1	2.043	.0136	-.7169	2.059	.0006	.1124	.0001
#2	2.082	.0115	-1.130	2.086	-.0001	.1036	-.0002
#3	2.066	.0126	-1.130	2.080	.0010	.0944	-.0000
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	2.000			2.000			
Range	10.00			10.00			

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	.0361	2.015	.0055	-.0002	.0264	2.151
SDev	.0005	.0153	.014	.0020	.0174	.0063	.019
%RSD	55.86	42.40	.6983	36.06	9945.	23.94	.8725
#1	-.0004	.0531	2.000	.0078	.0196	.0331	2.145
#2	-.0007	.0234	2.028	.0042	-.0131	.0257	2.172
#3	-.0013	.0319	2.017	.0046	-.0071	.0205	2.136
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value			2.000				2.000

Range			10.00				10.00
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	0.1350	.0047	.0015	-.0307	1.993	.0007	1.837
SDev	.0095	.0012	.0106	.0048	.021	.0001	.009
%RSD	7.041	25.15	700.9	15.69	1.043	9.247	.4732
#1	0.1459	.0035	.0137	-.0255	2.005	.0008	1.829
#2	0.1294	.0059	-.0055	-.0350	2.006	.0007	1.846
#3	0.1295	.0048	-.0037	-.0315	1.969	.0007	1.835
Errors	QC Fail	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value	2.000				2.000		2.000
Range	10.00				10.00		10.00

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.259	.0002	-.0163	08.246	-.0029	1.902	1.017
SDev	.031	.0007	.0081	.034	.0013	.022	.010
%RSD	.5814	309.4	49.75	.4092	43.59	1.142	.9560
#1	5.223	.0010	-.0123	08.285	-.0014	1.877	1.007
#2	5.276	-.0002	-.0110	08.227	-.0035	1.913	1.026
#3	5.277	-.0002	-.0257	08.227	-.0037	1.916	1.019
Errors	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Pass	QC Pass
Value	5.000			10.00		2.000	1.000
Range	10.00			10.00		10.00	10.00

Elem	Zn	Zr
Units	ppm	ppm
Avge	.0019	-.0191
SDev	.0003	.0010
%RSD	17.89	5.166
#1	.0017	-.0190
#2	.0023	-.0181
#3	.0017	-.0201
Errors	NOCHECK	NOCHECK
Value		
Range		

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Method: ICP1 Sample Name: SRM-1643c 103668 Operator: DRS
Run Time: 09/01/95 13:43:03
Comment: (CORE HOMOGENIZATION CHECK RUN)
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	0-.0024	0.0983	0.0780	0.1125	.0496	.0219	.0134
SDev	.0004	.0013	.0058	.0014	.0003	.0001	.0048
%RSD	17.30	1.282	7.473	1.234	.5080	.5097	35.77
#1	0-.0028	0.0969	.0817	0.1134	.0498	.0220	.0085
#2	0-.0024	0.0994	.0810	0.1132	.0495	.0218	.0184
#3	0-.0020	0.0985	0.0713	0.1109	.0494	.0218	.0131
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK
Value	.0022	.1146	.0821	.1190	.0496	.0232	
Range	13.60	4.500	1.500	1.200	6.250	9.500	

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	35.93	.0113	-.0271	0.0210	0.0198	0.0170	-.0033
SDev	.11	.0018	.0028	.0010	.0018	.0009	.0002
%RSD	.3094	15.67	10.18	4.627	8.860	5.266	6.074
#1	36.06	0.0094	-.0297	0.0207	0.0217	0.0164	-.0036
#2	35.84	.0130	-.0272	0.0202	0.0196	0.0166	-.0032
#3	35.90	.0116	-.0242	0.0221	0.0182	0.0181	-.0032
Errors	QC Pass	QC Pass	NOCHECK	QC Fail	QC Fail	QC Fail	NOCHECK
Value	36.80	.0122		.0235	.0190	.0223	
Range	3.800	8.200		3.400	3.200	12.60	

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	0.1199	0.9864	.0030	0.0120	010.05	.0353
SDev	.0001	.0008	.1694	.0013	.0009	.04	.0003
%RSD	93.21	.6712	17.18	43.85	7.498	.3998	.7123
#1	-.0002	0.1207	0.7972	.0022	0.0121	010.09	.0352
#2	-.0001	0.1200	01.124	.0045	0.0111	010.01	.0352
#3	-.0000	0.1191	01.038	.0023	0.0129	010.04	.0356
Errors	NOCHECK	QC Fail	QC Fail	NOCHECK	QC Fail	QC Fail	QC Pass
Value		.1069	2.300		.0165	9.450	.0351
Range		2.800	10.00		6.100	2.850	6.300

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1047	12.32	-.0116	.0607	.0237	0.0054	-.0821
SDev	.0006	.13	.0023	.0025	.0072	.0028	.0092
%RSD	.5331	1.030	20.11	4.061	30.27	51.78	11.23
#1	.1044	12.19	-.0140	.0626	.0320	0.0062	-.0872
#2	.1054	12.45	-.0116	.0579	.0189	0.0023	-.0715
#3	.1044	12.31	-.0093	.0616	.0203	0.0076	-.0877
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK	QC Fail	NOCHECK
Value	.1043	12.19		.0606		.0353	

Range	1.800	2.950		12.00		2.500	
Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0309	-.0062	.0128	.0117	-.1252	Q.2827	-.0088
SDev	.0025	.0063	.0063	.0033	.0170	.0014	.0075
%RSD	7.952	102.6	48.82	28.03	13.54	.5108	84.55
#1	-.0318	-.0130	Q.0101	.0079	-.1446	Q.2843	-.0174
#2	-.0281	-.0004	Q.0084	.0132	-.1179	Q.2815	-.0057
#3	-.0327	-.0052	Q.0200	.0140	-.1132	Q.2825	-.0035
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Fail	NOCHECK
Value			.0127			.2636	
Range			5.500			1.000	

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0069	.0067	Q.0011	-.1365	Q.0261	.0139	-.0030
SDev	.0052	.0002	.0008	.0596	.0002	.0042	.0005
%RSD	75.74	3.296	75.18	43.64	.7511	30.08	15.44
#1	-.0098	.0065	Q.0020	-.1785	Q.0264	.0187	-.0034
#2	-.0101	.0069	Q.0006	-.0683	Q.0261	.0107	-.0025
#3	-.0009	.0067	Q.0006	-.1627	Q.0260	.0124	-.0031
Errors	NOCHECK	NOCHECK	QC Fail	NOCHECK	QC Fail	NOCHECK	NOCHECK
Value			.0079		.0314		
Range			63.30		8.900		

Elem	Zn	Zr
Units	ppm	ppm
Avge	Q.0898	-.0022
SDev	.0012	.0004
%RSD	1.341	18.22
#1	Q.0891	-.0023
#2	Q.0892	-.0018
#3	Q.0912	-.0025
Errors	QC Fail	NOCHECK
Value	.0739	
Range	1.200	

Analysis Report Fri 09-01-95 01:48:24 PM page

Method: ICP1 Sample Name: CCV1 950713H901 Operator: DRS
Run Time: 09/01/95 13:47:05
Comment: QTR SEG 4B BOTTON @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	1.954	2.067	1.993	1.018	.9615	1.901
SDev	.0007	.009	.013	.015	.006	.0050	.004
%RSD	28.01	.4651	.6181	.7744	.6132	.5216	.1962
#1	-.0030	1.959	2.057	2.005	1.021	.9633	1.898
#2	-.0028	1.960	2.081	1.997	1.023	.9654	1.900
#3	-.0017	1.944	2.062	1.975	1.011	.9559	1.905

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.959	.9863	-.0188	1.053	.5193	2.059	-.0019
SDev	.006	.0079	.0035	.005	.0027	.009	.0004
%RSD	.3122	.8006	18.64	.5070	.5215	.4405	18.94
#1	1.961	.9943	-.0192	1.053	.5223	2.063	-.0021
#2	1.963	.9860	-.0221	1.058	.5185	2.064	-.0021
#3	1.952	.9785	-.0151	1.047	.5171	2.048	-.0015

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	2.046	4.221	-.0025	2.087	2.106	1.035
SDev	.0001	.009	.091	.0009	.019	.013	.005
%RSD	15.07	.4291	2.157	37.94	.9184	.6406	.5166
#1	-.0005	2.051	4.187	-.0026	2.104	2.115	1.034
#2	-.0005	2.051	4.152	-.0033	2.092	2.113	1.041
#3	-.0004	2.036	4.324	-.0015	2.066	2.090	1.030

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.026	8.536	-.0111	2.125	4.856	2.062	-.0556
SDev	.010	.073	.0047	.014	.013	.004	.0141
%RSD	.4804	.8604	42.30	.6813	.2647	.1942	25.41
#1	2.030	8.570	-.0122	2.130	4.865	2.058	-.0495
#2	2.033	8.587	-.0152	2.136	4.861	2.065	-.0718
#3	2.015	8.452	-.0060	2.108	4.841	2.064	-.0455

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0156	-.0137	1.957	4.963	-.0623	2.175	-.0305
SDev	.0040	.0071	.009	.023	.0102	.014	.0026
%RSD	25.88	52.15	.4472	.4584	16.42	.6225	8.622
#1	-.0163	-.0217	1.958	4.982	-.0526	2.180	-.0298
#2	-.0191	-.0081	1.964	4.970	-.0614	2.186	-.0334
#3	-.0112	-.0112	1.947	4.938	-.0730	2.160	-.0283

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0041	-.0008	1.910	-.1806	.9776	.0039	-.0006
SDev	.0063	.0005	.015	.0405	.0035	.0040	.0002

%RSD	153.9	55.48	.8071	22.41	.3598	104.6	32.17
#1	.0022	-.0012	1.910	-.1974	.9791	-.0007	-.0007
#2	.0110	-.0010	1.926	-.2101	.9802	.0055	-.0004
#3	-.0010	-.0003	1.895	-.1345	.9736	.0068	-.0008

Elem	Zn	Zr
Units	ppm	ppm
Avge	1.064	-.0021
SDev	.009	.0008
%RSD	.8688	37.63
#1	1.070	-.0021
#2	1.069	-.0029
#3	1.053	-.0013

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Method: ICP1 Sample Name: STD1-Blank 108444 Operator: DRS
Run Time: 09/01/95 13:50:36
Comment: QTR SEG 4B BOTTON @2X DIL DUPLICATE HOMOGENIZATION CHECK
Mode: CONC Corr. Factor: 1

Elem	Ag	Al	As	B	Ba	Be	Bi
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0015	-.0042	.0021	-.0031	-.0006	.0001	-.0036
SDev	.0004	.0039	.0013	.0015	.0001	.0000	.0017
%RSD	25.48	93.56	62.16	48.33	11.59	53.09	45.81
#1	-.0016	-.0082	.0034	-.0049	-.0006	.0001	-.0037
#2	-.0010	-.0038	.0008	-.0025	-.0006	.0000	-.0019
#3	-.0018	-.0005	.0021	-.0020	-.0005	.0000	-.0052

Elem	Ca	Cd	Ce	Co	Cr	Cu	Dy
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0078	.0008	-.0135	-.0012	-.0014	-.0022	-.0004
SDev	.0005	.0017	.0015	.0009	.0012	.0008	.0005
%RSD	5.887	216.8	11.00	75.15	89.79	37.30	131.1
#1	-.0082	-.0011	-.0142	-.0016	-.0000	-.0022	-.0004
#2	-.0079	.0020	-.0145	-.0017	-.0016	-.0031	-.0009
#3	-.0073	.0014	-.0118	-.0002	-.0024	-.0014	.0001

Elem	Eu	Fe	K	La	Li	Mg	Mn
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0009	-1.061	-.0012	.0001	-.0033	-.0001
SDev	.0001	.0007	.030	.0009	.0006	.0032	.0001
%RSD	18.28	77.42	2.809	73.76	445.5	96.01	62.96
#1	-.0005	-.0011	-1.078	-.0015	.0006	-.0050	-.0002
#2	-.0006	-.0014	-1.078	-.0018	-.0005	.0004	-.0000
#3	-.0004	-.0001	-1.027	-.0002	.0002	-.0054	-.0002

Elem	Mo	Na	Nd	Ni	P	Pb	Pd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0008	-.0208	-.0088	.0016	-.0015	-.0172	-.0358
SDev	.0007	.0042	.0036	.0040	.0057	.0046	.0025
%RSD	90.49	20.35	40.76	244.3	384.1	27.03	7.002
#1	-.0002	-.0166	-.0125	.0019	.0048	-.0172	-.0385
#2	-.0005	-.0208	-.0084	-.0025	-.0030	-.0125	-.0336
#3	-.0016	-.0250	-.0054	.0055	-.0063	-.0218	-.0353

Elem	Rh	Sb	Se	Si	Sn	Sr	Te
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0150	-.0032	.0067	-.0321	-.0567	.0007	-.0025
SDev	.0044	.0104	.0053	.0034	.0171	.0001	.0037
%RSD	29.58	323.4	78.91	10.49	30.10	9.975	146.4
#1	-.0198	-.0134	.0006	-.0348	-.0666	.0006	-.0034
#2	-.0142	-.0036	.0090	-.0332	-.0666	.0007	-.0057
#3	-.0110	.0074	.0104	-.0283	-.0370	.0006	.0015

Elem	Th	Ti	Tl	U	V	W	Y
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0009	-.0070	-.1653	-.0012	.0067	-.0007
SDev	.0042	.0001	.0066	.0050	.0002	.0045	.0002

%RSD	2807.	14.46	93.90	3.034	15.40	67.16	24.12
#1	.0046	-.0010	-.0142	-.1699	-.0010	.0094	-.0009
#2	-.0037	-.0009	-.0057	-.1659	-.0014	.0015	-.0006
#3	-.0005	-.0007	-.0012	-.1600	-.0011	.0092	-.0006

Elem	Zn	Zr
Units	ppm	ppm
Avge	-.0005	-.0008
SDev	.0003	.0006
%RSD	50.81	80.06
#1	-.0006	-.0015
#2	-.0002	-.0005
#3	-.0007	-.0003

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HC-CD-VM-DR 145, REV. 1

C3 - IC ANALYSIS

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DATE TO QC: 09/29/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - ION CHROMOTOGRAPHY

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07932-C1	95-07932-C2	95-07932-C4
95-07932-C5	95-07941-C1	95-07941-C2
95-07941-C4	95-07943-C1	95-07943-C2
95-07944-C1	95-07944-C2	95-07945-C1
95-07945-C2	95-07946-C1	95-07946-C2
95-07948-C1	95-07948-C2	95-07935-C1
95-07935-C2	95-07942-C1	95-07942-C2
95-07947-C2		

PNL ACL Quality Representative

9/28/95
Date

Ion Chromatography

The samples in this group, derived from Tank BY-108, Core 99, were extracted using procedure PNL-ALO-110 and were analyzed for fluoride, chloride, nitrite, nitrate, phosphate, and sulfate (commonly referred to as anions) using PNL-ALO-212, a procedure adapted from EPA Method 300.0. The sample preparation and analysis were performed in the 325 building in the 300 area by staff members of the Analytical Chemistry Laboratory - Inorganic Analysis Group (ACL-I) at Battelle-PNL.

Two drainable liquids, 95-07932/Segment 2 and 95-07935/Segment 3, and eight solid samples derived from the four quarter segments have been analyzed. The quarter segment samples are 95-07941/QS1, 95-07942/QS2A, 95-07943/QS2D, 95-07944/QS3A, 95-07945/QS4A, 95-07946/QS4B, 95-07947/QS4C, and 95-07948/QS4D.

Accuracy and Precision in IC results

The IC anions analysis system was calibrated with six calibration standards ranging from 0.5 - 7.5 ppm for the halides (F, Cl) and from 0.5 - 30 ppm for the oxy-anions (NO_2, NO_3, PO_4, SO_4). The accuracy of the calibration was checked by analyzing three independently derived verification standards at approximately 17%, 50%, and 75% of the calibration range maximum.

The accuracy of reported values between 20-80% of the calibration maximum has been estimated to be ±10%, unless otherwise noted in the Discussion section of this report. This level of accuracy may be considered achievable throughout the calibration range unless otherwise stated in this narrative. The accuracy decreases and errors increase for lower analyte levels and may be 100% at the method detection limit, which is defined as the analyte level in the lowest calibration standard.

Quality Control

The current TWRS criterion for acceptance of data, that the spiked blank values for the anions of interest are quantitated within ±10%, has been satisfied except for chloride (95-07932-C5: 120%) and nitrite (95-07932-C5: 88% and 95-07941-C5: 86%). Further details are to be found in the Discussion section.

The current TWRS criterion for acceptance of data, that the spiked sample values for the anions of interest are quantitated within ±10%, has not been satisfied except for sulfate (95-07932-C4). Further details are included in the Discussion section.

The current TWRS criterion for acceptance of data, that the RPD values for the anions of interest should be within ±10%, has not been satisfied for all of the seven anions. In some cases, the RPD values exceed the ACL limit of 20%. This subject is included in the Discussion section.

The continuing calibration verifications (CCV) for NO_2, SO_4 indicate a bias of about 10% and a bias of 12-13% for PO_4. This issue is discussed in greater detail in the Discussion section.

Discussion of the data

1. Bias in quantitation

   The chromatographic columns used in this work (Dionex AG4A/AS4A) have demonstrated erratic behavior in quantitation during the analysis of these BY-108 samples. The cause of the problem has not been determined, primarily due to the occasional manifestation of out-of-control responses.

   However, multiple analyses over a period of weeks have led us to believe that the performance of this system has degraded from the nominal acceptance window of ±10% to a level no greater than ±15%. This phenomenon, which may potentially be caused by insoluble sample matrix components which were deposited on the column, is currently under investigation and is expected to be resolved in the near future.

   The bias observed in the quantitation of nitrite, phosphate, and sulfate is also attributed to this condition of the column. An analytical strategy to clean the column and to prevent the recurrence of this behavior is currently being discussed with Dionex.

2. Fluoride

   The presence of organic anions has complicated the quantitation of fluoride and all results should be considered to be overestimated. This problem can be resolved by using a gradient elution method which will separate organic species such as formate and acetate from fluoride.

   Most BY-108 samples do not contain detectable levels of free fluoride and spike recovery calculations, especially following rounding, are to be evaluated in the light of this information. Sample detection limits approach the spike level used in both spiked samples.

   The sample which shows the greatest variation of fluoride, 95-07945, is derived from the heel of the tank - a region expected to be heterogeneous. All other samples show RPD values within 20%.

3. Chloride

   Free chloride levels are low in the tank (<0.1%) and the measurement of spike recoveries is likely be affected when quantitating at these low levels. RPD values and spike recoveries are within 20% for this analyte and there is no special hypothesis which need to be considered to explain this data.

4. Nitrite

   RPD values and spike recoveries are within 20% for this analyte and there is no special hypothesis which need to be considered to explain this data.

5. Nitrate

   Two samples, 95-07944 and 07945, show significant RPD values for this analyte. Reanalysis of the extracts, on two separate days, confirms the quantitation within 10%. The variation is considered to be real and is attributed to sample heterogeneity.

   All other RPD values fall within the 20% window and spike recoveries associated with sample and the blank are 11% or lower. System performance is considered to be acceptable for this analyte.

6. Phosphate

   Phosphate levels show the greatest variation in 95-07944, 95-07945 and 95-07946 but these values are supported by the ICP results. As with the low spike recovery for 95-07932 (76%), these observations are attributed to sample heterogeneity and not due to failures of the instrumentation.

7. Sulfate

   The two samples which high variations are 95-07945 and 95-07948 - both derived from QS4, which is derived from the heel of the tank. Since insoluble sulfates are expected in this tank, the possibility of sample heterogeneity is considered a reasonable explanation for the data. Reanalysis of sample replicates yields values within 15% of reported values. Sample spike recoveries are quite acceptable at 93 and 87% and the spiked blanks are also recovered at acceptable levels (95%, 97%).

8. Criteria for selection of ±10% window (RPD and spike recoveries)

   The ±10% window selected as the acceptance criterion for this work has been apparently been chosen without any serious consideration of the statistical basis of variation in analyzing tank wastes. However, if this arbitrary value is to be considered a realistic criterion for future work, tank samples need to be homogenized and sub-sampled in a statistically controlled manner to avoid contributions to analytical variance due to sampling errors.

   Replicate (20-30) analysis, by each analytical technique to be used at Hanford, will also be needed to establish matrix dependent statistical parameters such as variance (standard deviation) and confidence intervals. Without this level of attention, the arbitrary selection of a ±10% range as a data acceptance criterion is without technical merit.

Data presentation (see data summary sheet)

The reported data is presented, by analyte, in six tables. This format has been used to allow flexibility in handling sample sets of different sizes. Each line in a page contains the QC information associated with a particular sample.

The labels "1", "2", "3", "4", and "5" have been used to identify the sample, duplicate, spiked sample, spiked blank and blank, respectively.

A density of 1.00 g/mL is assumed for all diluents and solutions used in these analyses. A nominal 1.00 g sample wight has been assumed for calculations involving the spiked blank. Complete dissolution of the sample, nominally assigned a density of 1.00 g/ml, has also been assumed.

Sample dilutions have been made so as to match the diluent with the eluant as closely as possible for these analyses. The reported results have been rounded by an order of magnitude reflecting the dilution of samples prior to analysis. " < " values reflect analyte levels lower than the calculated detection limit.

The following terms and equations may be used to compute the rounding operations carried out in the summary data sheets.

SDF: Sample Dilution Factor
EDF: Extraction Dilution factor
ADF: Analytical Dilution factor
SDL: Sample Detection Limit (μg/g)
MDL: Method Detection Limit (μg/mL)
RF(x): Rounding factor for "x": $(10^{RF(x)} < SDL < 10^{RF(x)+1})$
"x": Numeric Label used to identify sample, duplicate, etc.
RF(sp): Rounding factor for added spike

EQUATIONS USED

SDF(x) = EDF(x) * ADF(x); "x" = 1, 2, 3, 4, 5

SDL(x) = MDL * SDF(x)

RF(x) = INT (LOG(SDL(x))); integer component of LOG(SDL(x))

2 < SDL(1)/RF(1) < 6; sample detection limits can range from two to six times the rounding factor

RF(1) = RF(2) = RF(3); sample, duplicate and sample spike have the same rounding factor

RF(sp) = RF(4); spike added and the blank spike have the same rounding factor

**** ION CHROMATOGRAPHY REPORT ****

FLUORIDE

SAMPLE VALUES ARE IN ug/g — TANK BY-108, CORE 99

SAMPLE ID	SMPL 1	DUP 2	RPD	BLANK 3	<--- SAMPLE SPIKE ---> 4	EXPECT	% REC	SPIKE CONTROL 5	% REC
95-07932-C	< 300	< 300		< 5	300	400	75%	500	100%
95-07935-C	< 400	< 400							
95-07941-C	6600	5400	20%	< 10	8000	500	***	500	100%
95-07942-C	< 500	< 500							
95-07943-C	3900	3800	3%						
95-07944-C	5600	4800	15%						
95-07945-C	8300	5200	46%						
95-07946-C	< 600	< 500							
95-07947-C	< 600	< 500							
95-07948-C	< 500	< 400							
								TRUE= 500 ug/mL	

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "***" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL values.
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

3-1357

WHC-SD-WM-DP-145, REV.1

**** ION CHROMATOGRAPHY REPORT ****

CHLORIDE

SAMPLE VALUES ARE IN ug/g

TANK BY-108, CORE 99

	SMPL	DUP		BLANK	<--- SAMPLE SPIKE --->			SPIKE CONTROL	
SAMPLE ID	1	2	RPD	3	4	EXPECT	% REC	5	% REC
95-07932-C	2300	2300	0%	< 5	2600	400	***	500	100%
95-07935-C	2400	2400	0%						
95-07941-C	700	700	0%	40	1100	500	80%	600	120%
95-07942-C	800	800	0%						
95-07943-C	1200	1100	9%						
95-07944-C	1200	1100	9%						
95-07945-C	1400	1200	15%						
95-07946-C	1600	1400	13%						
95-07947-C	1400	1300	7%						
95-07948-C	1300	1100	17%						
								TRUE= 500	ug/mL

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "***" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL values.
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY REPORT ****

NITRITE

SAMPLE VALUES ARE IN ug/g — TANK BY-108, CORE 99

	SMPL	DUP		BLANK	<--- SAMPLE SPIKE --->			SPIKE CONTROL	
SAMPLE ID	1	2	RPD	3	4	EXPECT	% REC	5	% REC
95-07932-C	39900	39400	1%	< 10	42700	3500	***	4400	88%
95-07935-C	42300	42700	1%						
95-07941-C	8000	8200	2%	< 30	12400	5200	85%	4300	86%
95-07942-C	12400	11300	9%						
95-07943-C	20800	19300	7%						
95-07944-C	20300	17700	14%						
95-07945-C	35000	31000	12%						
95-07946-C	48000	44000	9%						
95-07947-C	42000	43000	2%						
95-07948-C	40000	34000	16%						
								TRUE= 5000 ug/mL	

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "***" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL values.
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

WHC-SD-WM-DP-145, REV.1

**** ION CHROMATOGRAPHY REPORT ****

NITRATE

SAMPLE VALUES ARE IN ug/g

TANK BY-108, CORE 99

SAMPLE ID	SMPL 1	DUP 2	RPD	BLANK 3	<--- SAMPLE SPIKE ---> 4	EXPECT	% REC	SPIKE CONTROL 5	% REC
95-07932-C	161000	165000	2%	16	167000	14100	***	20500	103%
95-07935-C	143000	158000	10%						
95-07941-C	55000	67000	20%	80	78000	20800	111%	20100	101%
95-07942-C	590000	610000	3%						
95-07943-C	247000	254000	3%						
95-07944-C	235000	329000	33%						
95-07945-C	101000	197000	64%						
95-07946-C	69000	65000	6%						
95-07947-C	54000	53000	2%						
95-07948-C	50000	42000	17%						
								TRUE=20000 ug/mL	

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "***" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

3-136U

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY REPORT ****

PHOSPHATE

SAMPLE VALUES ARE IN ug/g — TANK BY-108, CORE 99

SAMPLE ID	SMPL 1	DUP 2	RPD	BLANK 3	<--- SAMPLE SPIKE ---> 4	EXPECT	% REC	SPIKE CONTROL 5	% REC
95-07932-C	500	500	0%	< 10	2400	2500	76%	3300	94%
95-07935-C	900	900	0%						
95-07941-C	63000	52000	19%	< 30	80000	3600	***	3200	91%
95-07942-C	2200	2100	5%						
95-07943-C	14100	13500	4%						
95-07944-C	7600	9700	24%						
95-07945-C	19700	13400	38%						
95-07946-C	32000	46000	36%						
95-07947-C	60000	67000	11%						
95-07948-C	79000	78000	1%						
								TRUE= 3500 ug/mL	

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "****" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL values.
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

3-136.1

**** ION CHROMATOGRAPHY REPORT ****

SULFATE

SAMPLE VALUES ARE IN ug/g — **TANK BY-108, CORE 99**

SAMPLE ID	SMPL 1	DUP 2	RPD	BLANK 3	<--- SAMPLE SPIKE ---> 4	EXPECT	% REC	SPIKE CONTROL 5	% REC
95-07932-C	800	700	13%	12	10700	10600	93%	14300	95%
95-07935-C	1100	1100	0%						
95-07941-C	700	700	0%	60	15000	15600	92%	14500	97%
95-07942-C	900	900	0%						
95-07943-C	9800	9500	3%						
95-07944-C	19600	15400	24%						
95-07945-C	57800	21400	92%						
95-07946-C	6000	4000	40%						
95-07947-C	15000	17000	13%						
95-07948-C	21000	9000	80%						
								TRUE=15000 ug/mL	

NOTES:

1. THIS DATA SUMMARY SHEET INFORMATION IS NOT COMPLETE WITHOUT THE RUN NARRATIVE.
2. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank; 4 = Sample spike ; 5 = Blank.
3. Calculate sample values: analyte in sample extract x (sample wt. + diluent wt.)/ sample wt.
4. Calculate spike recovery: ("4" - "1")/"EXPECT" or, "4"/"EXPECT" if "1" < sample det. lim. ; "****" indicates "1"/"EXPE
5. Calculate spike control recovery: (spike control) / true value for analyte in stock spike.
6. 95-07932 & 95-07935(density ~1.43 g/mL); multiply ug/g analyte values by 1.43 to generate ug/mL values.
7. Divide C3 values by 0.3 or 0.5 to estimate contribution of sample blank to analyte levels in 95-07932 and 95-07941, re

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 FLUORIDE TANK BY-108, CORE 99

<---- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm ---->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1	2	DIL 3	3	DIL 4	4	DIL 5	5
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	20	3.8	4.2	1	0.1	20	4.1	10	4.6
95-07935-C	0.2889	20.02	0.2796	20.44							20	3.8	3.8						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	20	66.5	52.7	1	0.2	20	75.8	10	4.6
95-07942-C	0.5152	50.34	0.5051	51.18							20	4.7	4.5						
95-07943-C	0.5738	53.26	0.6160	50.82							20	42.0	45.4						
95-07944-C	0.5242	51.28	0.4823	51.33							20	56.8	44.6						
95-07945-C	0.4889	51.55	0.6035	50.02							20	77.6	61.6						
95-07946-C	0.3985	50.00	0.5613	51.05							20	2.9	2.8						
95-07947-C	0.4616	50.54	0.5202	50.26							20	2.4	2.4						
95-07948-C	0.4951	51.79	0.6615	51.83							20	2.7	3.8						

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

3-1363

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 CHLORIDE TANK BY-108, CORE 99

<---------- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm ---------->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1.0	2.0	DIL 3	3.0	DIL 4	4.0	DIL 5	5.0
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	20	34.4	32.7	1	0.2	20	36.9	10	5.1
95-07935-C	0.2889	20.02	0.2796	20.44							20	34.2	32.8						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	20	6.7	6.5	1	0.7	20	10.3	10	5.7
95-07942-C	0.5152	50.34	0.5051	51.18							20	8.2	7.6						
95-07943-C	0.5738	53.26	0.6160	50.82							20	12.7	13.7						
95-07944-C	0.5242	51.28	0.4823	51.33							20	12.3	10.2						
95-07945-C	0.4889	51.55	0.6035	50.02							20	12.8	13.8						
95-07946-C	0.3985	50.00	0.5613	51.05							20	12.7	15.5						
95-07947-C	0.4616	50.54	0.5202	50.26							20	12.4	13.8						
95-07948-C	0.4951	51.79	0.6615	51.83							20	12.0	13.3						

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 NITRITE TANK BY-108, CORE 99

<---- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm ---->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1.0	2.0	DIL 3	3.0	DIL 4	4.0	DIL 5	5.0
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	20	588.6	564.4	1	0.3	20	609.3	10	41.7
95-07935-C	0.2889	20.02	0.2796	20.44							20	601.3	576.2						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	20	81.5	80.3	1	0.2	20	118.1	10	43.8
95-07942-C	0.5152	50.34	0.5051	51.18							20	125.2	110.3						
95-07943-C	0.5738	53.26	0.6160	50.82							20	221.2	231.6						
95-07944-C	0.5242	51.28	0.4823	51.33							20	205.7	164.5						
95-07945-C	0.4889	51.55	0.6035	50.02							20	330.5	364.6						
95-07946-C	0.3985	50.00	0.5613	51.05							20	382.4	475.0						
95-07947-C	0.4616	50.54	0.5202	50.26							20	382.5	436.7						
95-07948-C	0.4951	51.79	0.6615	51.83							20	381.9	428.9						

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

3-1365

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 NITRATE TANK BY-108, CORE 99

<-------- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm ------->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1.0	2.0	DIL 3	3.0	DIL 4	4.0	DIL 5	5.0
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	100	2377.8	2365.7	1	0.8	20	2387.6	10	195.7
95-07935-C	0.2889	20.02	0.2796	20.44							100	2037.1	2126.6						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	50	554.3	657.9	1	1.5	50	738.0	10	203.5
95-07942-C	0.5152	50.34	0.5051	51.18							500	5970.4	6003.8						
95-07943-C	0.5738	53.26	0.6160	50.82							100	2635.5	3044.7						
95-07944-C	0.5242	51.28	0.4823	51.33							100	2379.9	3059.7						
95-07945-C	0.4889	51.55	0.6035	50.02							100	949.6	2351.7						
95-07946-C	0.3985	50.00	0.5613	51.05							20	548.9	703.2						
95-07947-C	0.4616	50.54	0.5202	50.26							20	485.9	542.7						
95-07948-C	0.4951	51.79	0.6615	51.83							20	471.6	525.0						

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

3-1366

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 PHOSPHATE TANK BY-108, CORE 99

<-------- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm ------->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1.0	2.0	DIL 3	3.0	DIL 4	4.0	DIL 5	5.0
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	10	8.1	7.5	1	0.3	10	34.8	10	31.6
95-07935-C	0.2889	20.02	0.2796	20.44							20	12.8	12.1						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	50	638.9	517.1	1	0.3	50	763.1	10	32.7
95-07942-C	0.5152	50.34	0.5051	51.18							20	21.9	20.7						
95-07943-C	0.5738	53.26	0.6160	50.82							20	150.4	161.5						
95-07944-C	0.5242	51.28	0.4823	51.33							20	76.5	90.4						
95-07945-C	0.4889	51.55	0.6035	50.02							10	185.1	159.9						
95-07946-C	0.3985	50.00	0.5613	51.05							20	251.4	500.5						
95-07947-C	0.4616	50.54	0.5202	50.26							20	546.0	681.3						
95-07948-C	0.4951	51.79	0.6615	51.83							100	743.8	988.3						

3-1367

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

WHC-SD-WM-DP-145, REV. 1

**** ION CHROMATOGRAPHY INPUT DATA ****

EXTRACTION DATE(S): 9/7/95 to 9/7/95 ANALYSIS DATE(S): 9/8/95 to 9/28/95 SULFATE TANK BY-108, CORE 99

<-------- UNITS FOR MEASURED VALUES IN HOT CELL EXTRACT: ug/ml, ppm -------->

SAMPLE ID	WT(gm)1	VOL(ml)1	WT(gm)2	VOL(ml)2	VOL(ml)3	WT(gm)4	VOL(ml)4	VOL(ml)5	4: SPK (ml)	5: SPK (ml)	DIL 1&2	1.0	2.0	DIL 3	3.0	DIL 4	4.0	DIL 5	5.0
95-07932-C	0.2855	19.08	0.2952	20.30	19.84	0.2832	19.55	20.66	0.1996	0.1996	10	11.2	10.3	1	0.6	10	153.5	10	136.7
95-07935-C	0.2889	20.02	0.2796	20.44							20	16.2	15.4						
95-07941-C	0.5139	50.18	0.4972	49.98	50.48	0.4973	51.91	50.75	0.5177	0.5183	20	7.2	7.2	1	1.2	20	142.3	10	146.7
95-07942-C	0.5152	50.34	0.5051	51.18							20	9.3	8.4						
95-07943-C	0.5738	53.26	0.6160	50.82							20	104.4	114.1						
95-07944-C	0.5242	51.28	0.4823	51.33							20	198.2	143.0						
95-07945-C	0.4889	51.55	0.6035	50.02							10	542.7	255.6						
95-07946-C	0.3985	50.00	0.5613	51.05							20	48.0	41.9						
95-07947-C	0.4616	50.54	0.5202	50.26							20	138.3	175.8						
95-07948-C	0.4951	51.79	0.6615	51.83							100	202.6	107.6						

NOTES:

1. Nomenclature used for this data set: 1 = Sample; 2 = Duplicate; 3 = Blank ; 4 = Sample Spike; 5 = Spike Control.
2. Diluent volumes have been rounded to the nearest 10 mg in these calculations.
3. Volumes of SST-IC 1(spike standard) used for the spiked sample and the spike control have been assigned a density of 1g/ml.
4. All calculations assume total dissolution of the sample; sample solution density has been assigned a value of 1g/ml.
5. Samples 95-07932 and 95-07935 are drainable liquids, the rest are solids.

SAMPLES ANALYZED AT BATTELLE-PNL, ACL-INORGANIC IC LAB, ROOM 400, 325 BLDG ANALYST: M. M. O'Neill

M & TE ID: WA83665 (for PNL-ALO-212 & for PNL-ALO-271); System 1 ID: WC28133, System 2 ID: WC28134

3-1368

WHC-SD-WM-DP-145, REV. 1

AI-450 AS3500 Editor - 09282SCH.AS3

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Template (.PRP)
1	A04	5	1	A950609V1/LO	2anions2	95092821	1	1	
2	A04	15	1	A950609V2/MID	2anions2	95092821	1	1	
3	A04	25	1	A950609V3/HI	2anions2	95092821	1	1	
4	A01	100	1	A9509282B1	2anions2	95092821	1	1	
5	A04	5	1	A950609V1/LO	2anions2	95092821	1	1	
6	A09	10	1	95-7932-C1/SEG2	2anions2	95092821	1	1	
7	A10	10	1	95-7932-C2/SEG2	2anions2	95092821	1	1	
8	A11	10	1	95-7932-C4/SEG2	2anions2	95092821	1	1	
9	A12	10	1	95-7932-C5/SEG2	2anions2	95092821	1	1	
10	A13	100	1	95-7932-C4/SEG2	2anions2	95092821	50	1	
11	A14	100	1	95-7941-C1/SEG1	2anions2	95092821	50	1	
12	A15	100	1	95-7941-C2/SEG1	2anions2	95092821	50	1	
13	A16	100	1	95-7941-C4/SEG1	2anions2	95092821	50	1	
14	A17	10	1	95-7941-C5/SEG1	2anions2	95092821	1	1	
15	A18	100	1	95-7943-C1/QS2D	2anions2	95092821	200	1	
16	A04	5	1	A950609V1/LO	2anions2	95092821	1	1	
17	A04	15	1	A950609V2/MID	2anions2	95092821	1	1	
18	A04	25	1	A950609V3/HI	2anions2	95092821	1	1	
19	A02	100	1	A9509282B2	2anions2	95092821	1	1	
20	A19	100	1	95-7943-C2/QS2D	2anions2	95092821	200	1	
21	A20	100	1	95-7944-C1/QS3A	2anions2	95092821	200	1	
22	A21	100	1	95-7944-C2/QS3A	2anions2	95092821	200	1	
23	A22	10	1	95-7945-C1/QS4A	2anions2	95092821	1	1	
24	A23	10	1	95-7945-C2/QS4A	2anions2	95092821	1	1	
25	A22	5	1	95-7945-C1/QS4A	2anions2	95092821	1	1	
26	A23	5	1	95-7945-C2/QS4A	2anions2	95092821	1	1	
27	A24	100	1	95-7945-C1/QS4A	2anions2	95092821	100	1	
28	A25	100	1	95-7945-C2/QS4A	2anions2	95092821	100	1	
29	A26	10	1	95-7946-C1/QS4B	2anions2	95092821	1	1	
30	A04	5	1	A950609V1/LO	2anions2	95092821	1	1	
31	A04	15	1	A950609V2/MID	2anions2	95092821	1	1	
32	A04	25	1	A950609V3/HI	2anions2	95092821	1	1	
33	A03	100	1	A9509282B3	2anions2	95092821	1	1	
34	A27	10	1	95-7946-C2/QS4B	2anions2	95092821	1	1	
35	A28	10	1	95-7948-C1/QS4D	2anions2	95092821	1	1	
36	A29	10	1	95-7948-C2/QS4D	2anions2	95092821	1	1	
37	A04	5	1	A950609V1/LO	2anions2	95092821	1	1	
38	A04	15	1	A950609V2/MID	2anions2	95092821	1	1	
39	A04	25	1	A950609V3/HI	2anions2	95092821	1	1	
40	A03	100	1	A9509282B4	2anions2	95092821	1	1	
41	A09	10	1	95-7932-C1/SEG2	2anions2	95092821	1	1	
42	A05	5	1	A950609V1/LO	2anions2	95092821	1	1	
43	A05	15	1	A950609V2/MID	2anions2	95092821	1	1	
44	A12	10	1	95-7932-C5/SEG2	2anions2	95092821	1	1	
45	A13	100	1	95-7932-C4/SEG2	2anions2	95092821	50	1	
46	A05	5	1	A950609V1/LO	2anions2	95092821	1	1	
47	A05	15	1	A950609V2/MID	2anions2	95092821	1	1	
48	A05	25	1	A950609V3/HI	2anions2	95092821	1	1	
49	A03	100	1	A9509282B5	2anions2	95092821	1	1	
50	A39	100	2	DDI	2anions2	95092821	1	1	
51	A40	100	1	NO RUN	2shutdn	95092821	1	1	

1	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
2	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
3	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
4	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
5	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
6	A09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
7	A10	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
8	A11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
9	A12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
10	A13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
11	A14	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
12	A15	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
13	A16	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
14	A17	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
15	A18	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
16	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
17	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
18	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
19	A02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
20	A19	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
21	A20	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
22	A21	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
23	A22	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
24	A23	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
25	A22	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
26	A23	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
27	A24	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
28	A25	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
29	A26	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
30	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
31	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
32	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
33	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
34	A27	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
35	A28	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
36	A29	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
37	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
38	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
39	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
40	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
41	A09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
42	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
43	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
44	A12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
45	A13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
46	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
47	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
48	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
49	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
50	A39	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
51	A40	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

Comment:

More Run Parameters

Vial	Oven	Oven.Cool	Cool	Cycle	Flush	Visc	Prep	Inj	Needle

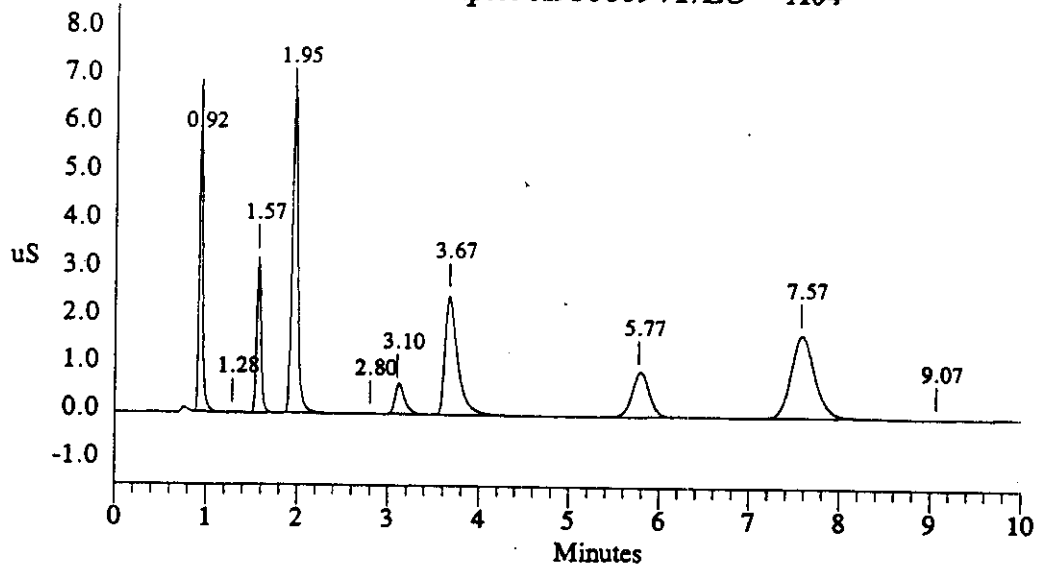
Sample Name: A950609V1/LO - A04 Date: 09/28/1995 12:05:11
Data File : C:\DX\DATA\9509282\95092821.D01
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 1 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	9.254	5121059	18003443	1	-2.81
2	1.28		0.000	26211	183238	1	
3	1.57	CHLORIDE	9.511	3248408	11064950	1	0.00
4	1.95	NITRITE	34.964	6507667	30227832	1	-0.83
5	2.80		0.000	12301	182551	1	
6	3.10	BROMIDE	9.533	564434	4790092	1	4.26
7	3.67	NITRATE	36.192	2486173	24501314	1	0.00
8	5.77	PHOSPHATE	37.079	905182	12602913	1	-4.35
9	7.57	SULFATE	36.516	1723410	32242992	1	0.00
10	9.07		0.000	9511	132227	1	
		Totals	173.049	20604357	133931552		

File: 95092821.D01 Sample: A950609V1/LO - A04



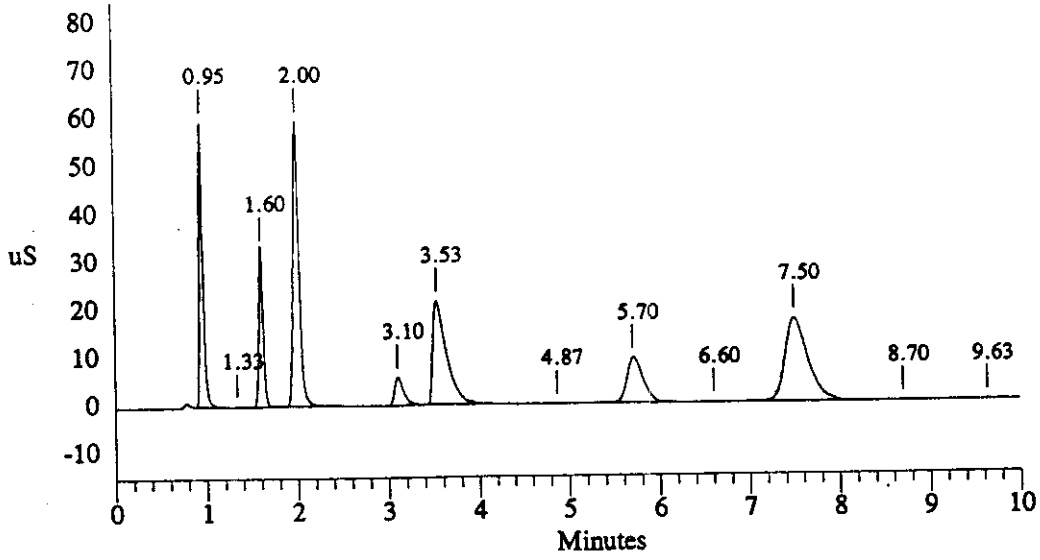
Sample Name: A950609V2/MID - A04 Date: 09/28/1995 12:18:14
Data File : C:\DX\DATA\9509282\95092821.D02
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 2 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	24.755	59504064	172983784	1	-1.38
2	1.33		0.000	133079	740658	1	
3	1.60	CHLORIDE	24.546	32973141	111150751	1	0.00
4	2.00	NITRITE	97.418	59560874	281689712	1	-0.41
5	3.10	BROMIDE	24.827	5908608	41144213	1	2.08
6	3.53	NITRATE	96.550	21707911	233618416	1	0.00
7	4.87		0.000	23909	329307	1	
8	5.70	PHOSPHATE	99.989	9405132	120309619	1	-1.89
9	6.60		0.000	172554	1154318	1	
10	7.50	SULFATE	102.142	17516287	316268245	1	0.00
11	8.70		0.000	21416	333861	1	
12	9.63		0.000	159504	1316211	1	
		Totals	470.226	207086479	1281039094		

File: 95092821.D02 Sample: A950609V2/MID - A04



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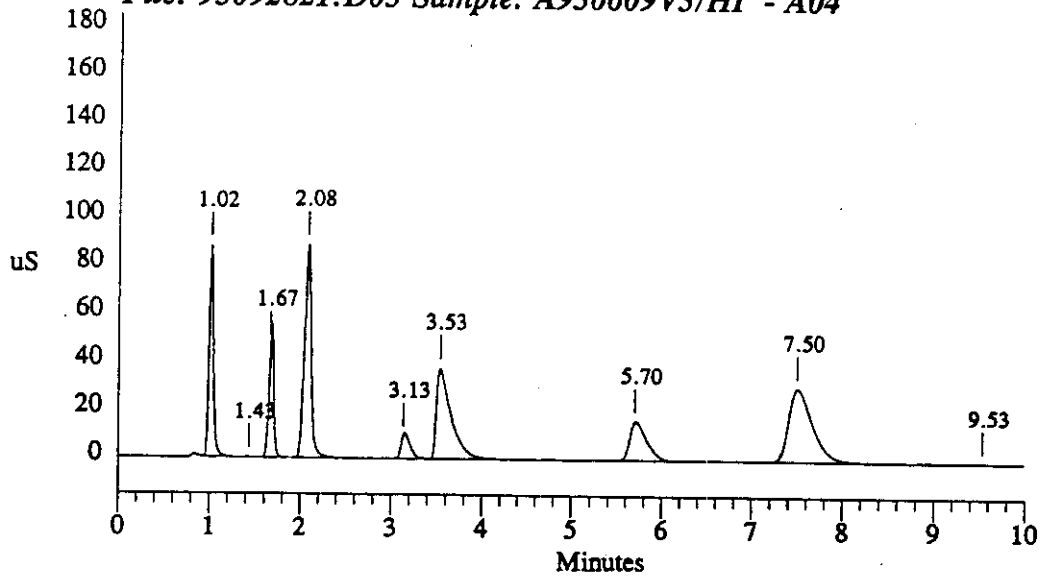
Sample Name: A950609V3/HI  - A04              Date: 09/28/1995 12:31:40
Data File  : C:\DX\DATA\9509282\95092821.D03
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 3   Vial:A04          Detector:PED-Cond.
Analyst    : MMO             Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	24.938	87804579	294988282	1	1.32
2	1.43		0.000	198345	1113348	1	
3	1.67	CHLORIDE	24.712	47001029	201209586	1	0.00
4	2.08	NITRITE	97.879	88817594	476510239	1	-0.41
5	3.13	BROMIDE	25.401	9710754	74016536	1	-0.95
6	3.53	NITRATE	99.751	37891667	433648128	1	0.00
7	5.70	PHOSPHATE	99.488	16358786	214642043	1	-1.89
8	7.50	SULFATE	102.270	30775818	569332253	1	0.00
9	9.53		0.000	195780	885550	1	
		Totals	474.439	318754352	2266345965		

File: 95092821.D03 Sample: A950609V3/HI - A04



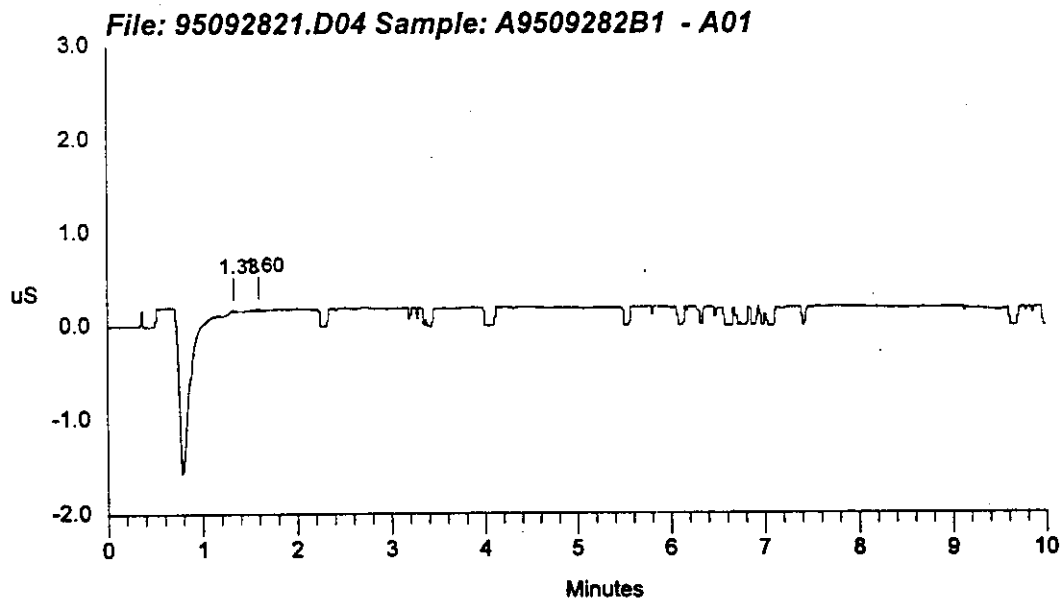
Data Reprocessed On 09/28/1995 21:24:09

Sample Name: A9509282B1 - A01		Date: 09/28/1995 12:48:08	
Data File : C:\DX\DATA\9509282\95092821.D04			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 4 Vial:A01			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33		0.000	17044	70301	1	
2	1.60	CHLORIDE	0.097	22631	113214	1	0.00
		Totals	0.097	39675	183515		

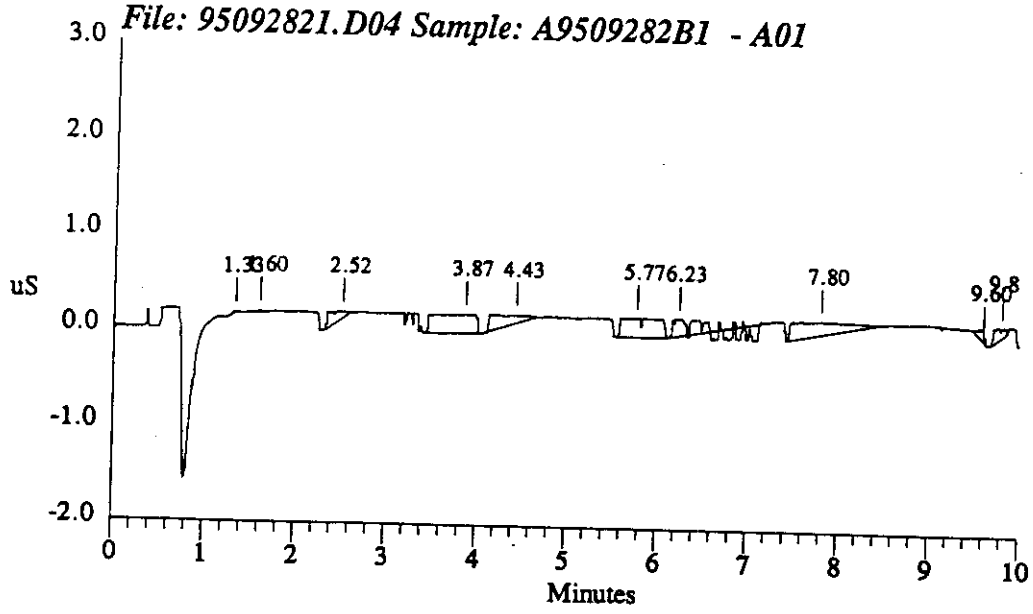


Sample Name: A9509282B1 - A01 Date: 09/28/1995 12:48:08
Data File : C:\DX\DATA\9509282\95092821.D04
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 4 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33		0.000	17044	70301	1	
2	1.60	CHLORIDE	0.097	22631	113214	1	0.00
3	2.52		0.000	63796	1452622	1	
4	3.87		0.000	193340	6196807	1	
5	4.43		0.000	81373	2980389	1	
6	5.77	PHOSPHATE	0.966	199101	5872770	1	1.17
7	6.23		0.000	174473	858579	1	
8	7.80	SULFATE	0.481	135542	6164838	1	0.00
9	9.60		0.000	45560	583420	1	
10	9.80		0.000	98274	1047796	1	
		Totals	1.544	1031135	25340736		



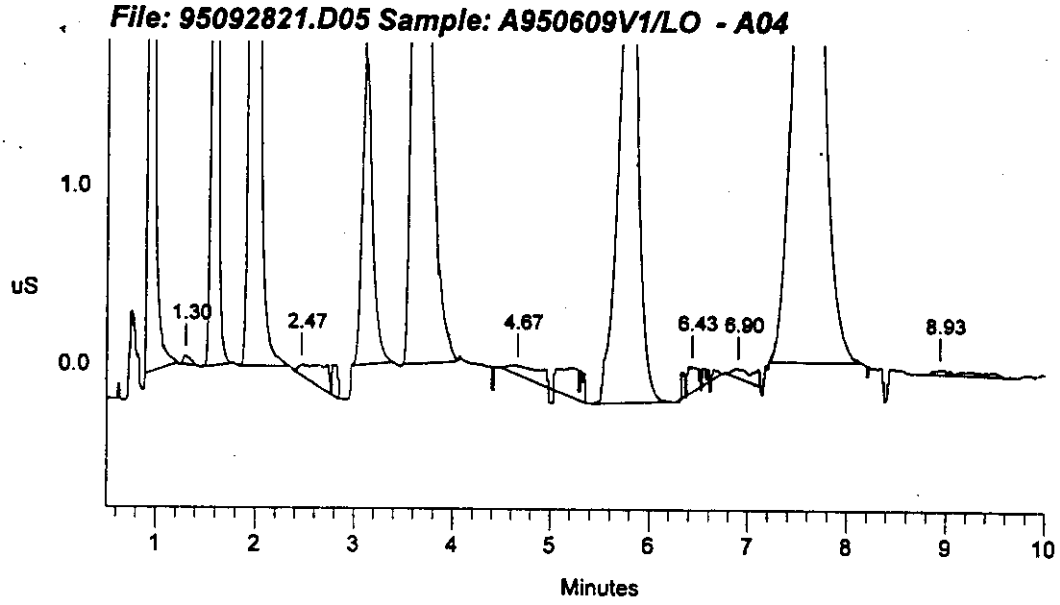
Data Reprocessed On 09/28/1995 21:22:08

Sample Name: A950609V1/LO - A04		Date: 09/28/1995 13:00:44	
Data File : C:\DX\DATA\9509282\95092821.D05			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 5	Vial:A04	Detector:PED-Cond.	
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.51	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	23.590	20016014	51962723	1	-1.05
2	1.30		0.000	48795	243951	1	
3	1.57	CHLORIDE	22.927	8022026	30876758	1	0.00
4	1.97	NITRITE	90.978	19639419	84708458	1	0.02
5	2.47		0.000	58177	2591031	1	
6	3.10	BROMIDE	23.635	1622099	12351341	1	4.26
7	3.60	NITRATE	87.888	6348897	64864663	1	0.00
8	4.67		0.000	48751	3919754	1	
9	5.77	PHOSPHATE	101.863	2815313	37685353	1	-2.58
10	6.43		0.000	140812	1703632	1	
11	6.90		0.000	50499	964993	1	
12	7.57	SULFATE	88.735	4782627	83887959	1	0.00
13	8.93		0.000	26856	817260	1	
		Totals	439.616	63620285	376577875		


File: 95092821.D05 Sample: A950609V1/LO - A04
1.0
uS
0.0
1.30
2.47
4.67
6.43
6.90
8.93
1
2
3
4
5
6
7
8
9
10
Minutes

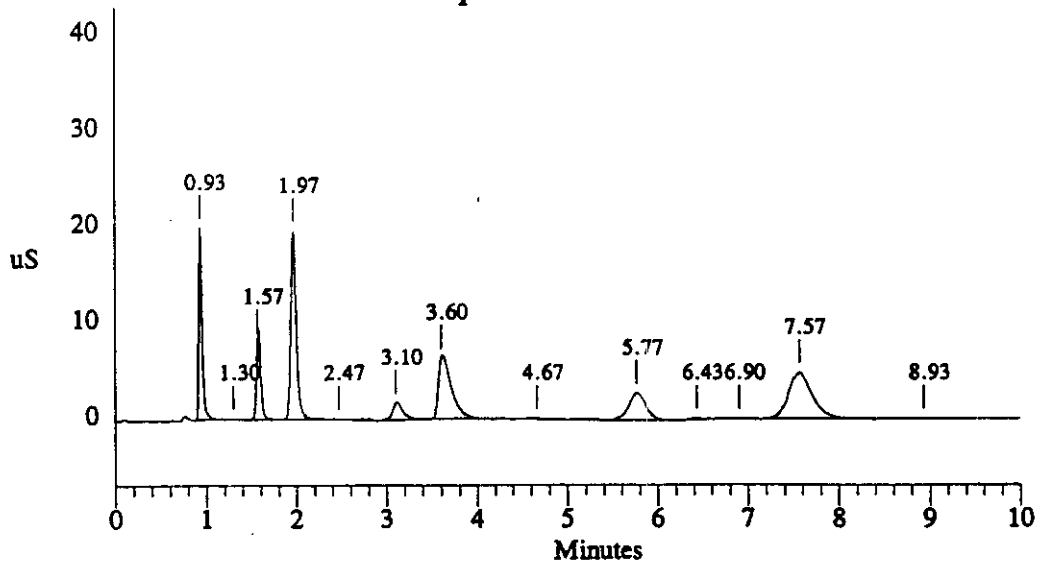
```
Sample Name: A950609V1/LO  - A04            Date: 09/28/1995 13:00:44
Data File  : C:\DX\DATA\9509282\95092821.D05
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 5   Vial:A04        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	23.848	20022178	52574448	3	-1.05
2	1.30		0.000	68558	482037	4	
3	1.57	CHLORIDE	23.097	8033886	31130296	2	0.00
4	1.97	NITRITE	91.281	19643668	85003323	1	0.02
5	2.47		0.000	58177	2591031	1	
6	3.10	BROMIDE	29.417	1764907	15501268	1	4.26
7	3.60	NITRATE	88.752	6353600	65548177	1	0.00
8	4.67		0.000	48751	3919754	1	
9	5.77	PHOSPHATE	101.863	2815313	37685353	1	-2.58
10	6.43		0.000	140812	1703632	1	
11	6.90		0.000	50499	964993	1	
12	7.57	SULFATE	93.918	4866554	89090433	1	0.00
13	8.93		0.000	26856	817260	1	
		Totals	452.175	63893760	387012005		

File: 95092821.D05 Sample: A950609V1/LO - A04



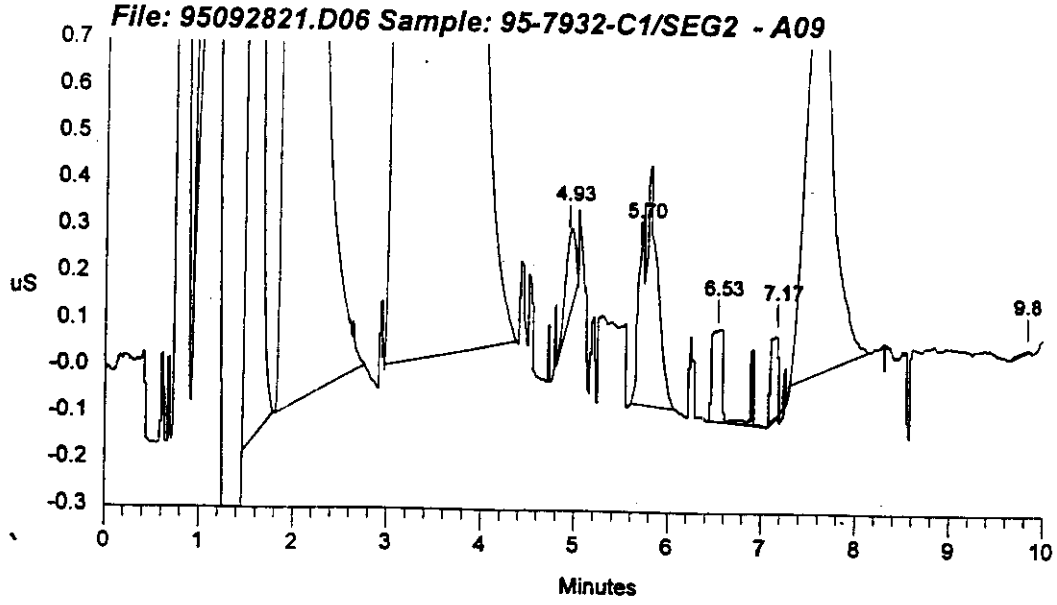
Data Reprocessed On 09/28/1995 19:16:40

Sample Name:	95-7932-C1/SEG2 - A09	Date:	09/28/1995 13:13:34
Data File :	C:\DX\DATA\9509282\95092821.D06		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 6 Vial:A09	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.577	1303373	3589564	1	5.73
2	1.08		0.000	7766655	29766195	1	
3	1.55	CHLORIDE	31.124	17298255	92289755	1	0.00
4	2.02	NITRITE	531.748	134464953	1055012227	1	3.66
5	3.13	NITRATE	-2249.882	536954671	5314579867	1	0.00
6	4.93		0.000	172963	1252976	1	
7	5.70	PHOSPHATE	9.649	324087	5861678	1	0.00
8	6.53		0.000	193577	1956002	1	
9	7.17		0.000	173259	1003539	1	
10	7.50	SULFATE	10.724	758040	17591421	1	0.00
11	9.83		0.000	4732	54352	1	
		Totals	-1665.061	699414565	6522957577		



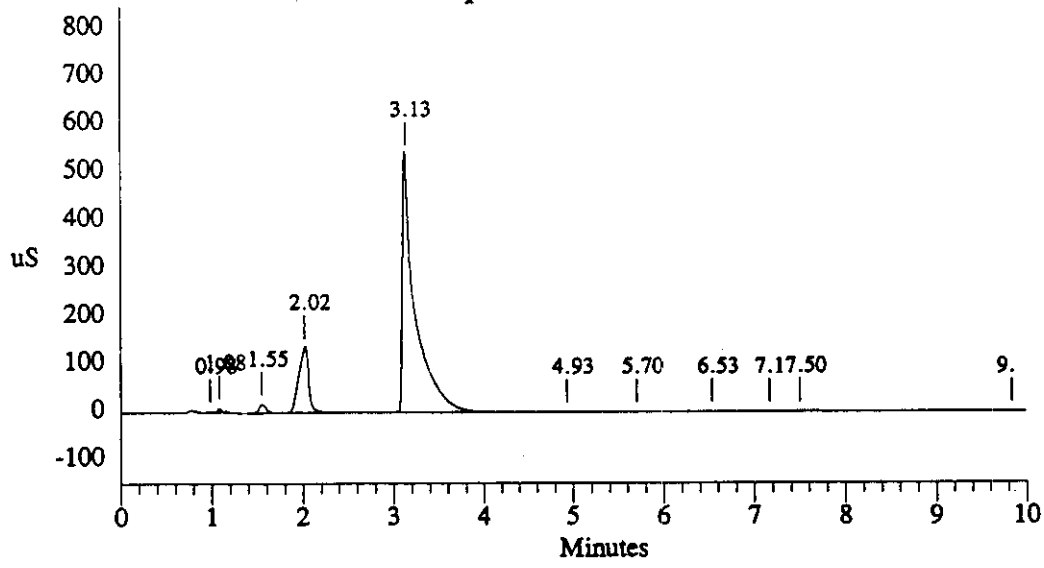
Sample Name: 95-7932-C1/SEG2 - A09 Date: 09/28/1995 13:13:34
Data File : C:\DX\DATA\9509282\95092821.D06
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 6 Vial:A09 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.212	1945623	6590794	2	5.38
2	1.08		0.000	8344190	33927850	2	
3	1.55	CHLORIDE	34.028	17812204	101840787	1	0.00
4	2.02	NITRITE	531.780	134466259	1055077600	1	3.66
5	3.13	BROMIDE	-33260.905	536694055	5304603658	1	6.51
6	4.93	PHOSPHATE	10.511	254962	6512569	1	-4.24
7	5.70		0.000	325796	6548619	1	
8	6.53		0.000	193577	1956002	1	
9	7.17		0.000	173259	1003539	1	
10	7.50	SULFATE	10.724	758040	17591421	1	0.00
11	9.83		0.000	4732	54352	1	
		Totals	-32671.650	700972698	6535707190		

File: 95092821.D06 Sample: 95-7932-C1/SEG2 - A09



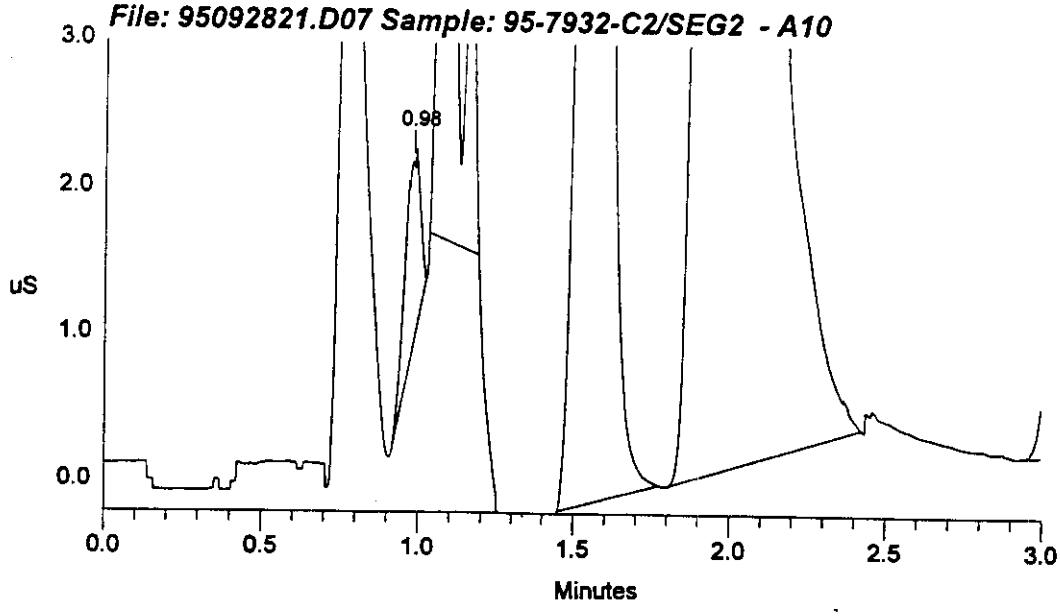
Data Reprocessed On 09/29/1995 00:44:43

Sample Name:	95-7932-C2/SEG2 - A10	Date:	09/28/1995 13:26:24
Data File :	A:\95092821.D07		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 7 Vial:A10	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	3.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.733	1233265	4329617	1	5.73
2	1.08		0.000	7020087	26825843	1	
3	1.55	CHLORIDE	30.360	16832514	89796042	1	0.00
4	2.02	NITRITE	513.335	135784256	1017385771	1	3.66
5	3.10	NITRATE	-2039.673	337302278	5172264353	1	0.00
6	4.93		0.000	316196	3551579	1	
7	5.80	PHOSPHATE	7.458	350021	4209104	1	1.75
8	7.53	SULFATE	10.285	892119	16741259	1	0.0(
		Totals	-1476.503	499730736	6335103568		



Data Reprocessed On 09/28/1995 19:17:28

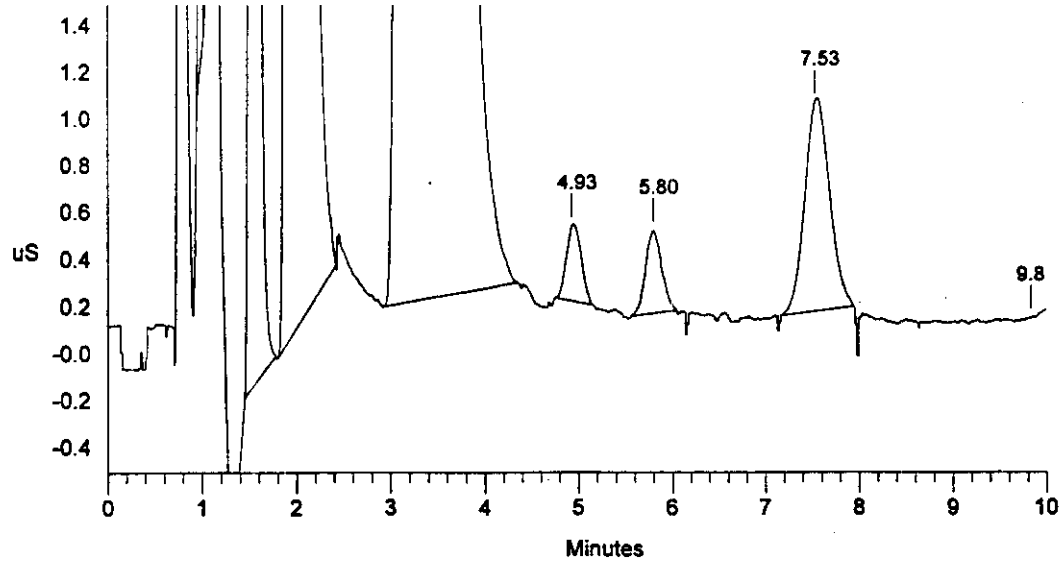
Sample Name: 95-7932-C2/SEG2 - A10		Date: 09/28/1995 13:26:24	
Data File : C:\DX\DATA\9509282\95092821.D07			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 7	Vial:A10		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.401	957560	2763008	1	5.73
2	1.08		0.000	7020087	26825843	1	
3	1.55	CHLORIDE	30.360	16832514	89796042	1	0.00
4	2.02	NITRITE	513.335	135784256	1017385771	1	3.66
5	3.10	NITRATE	-2039.673	337302278	5172264353	1	0.00
6	4.93		0.000	316196	3551579	1	
7	5.80	PHOSPHATE	7.458	350021	4209104	1	1.75
8	7.53	SULFATE	10.285	892119	16741259	1	0.00
		Totals	-1476.835	499455031	6333536960		

File: 95092821.D07 Sample: 95-7932-C2/SEG2 - A10



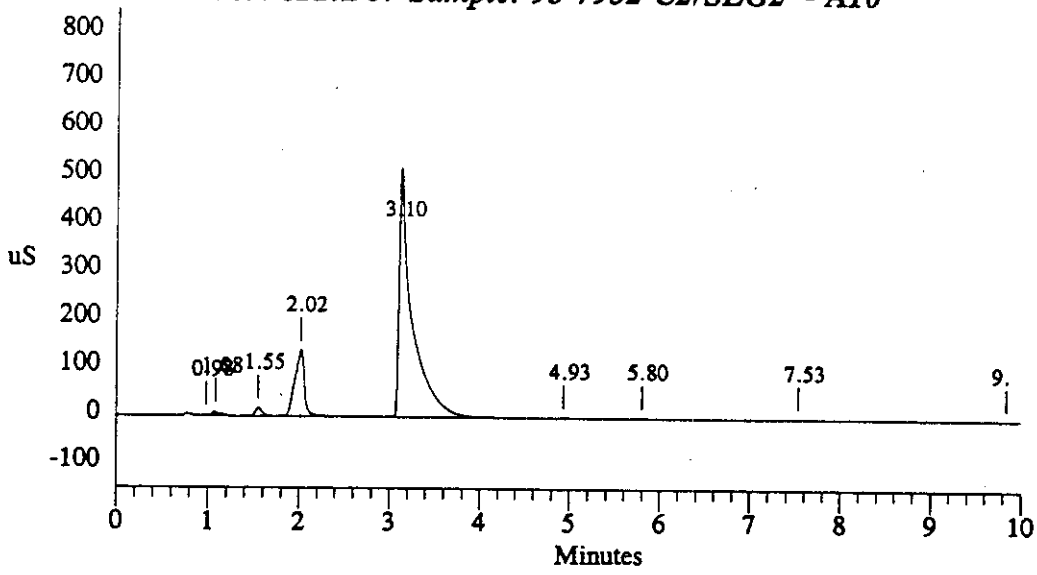
Sample Name: 95-7932-C2/SEG2 - A10 Date: 09/28/1995 13:26:24
Data File : C:\DX\DATA\9509282\95092821.D07
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 7 Vial:A10 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.136	1647371	6231344	2	5.38
2	1.08		0.000	7644440	31247151	2	
3	1.55	CHLORIDE	32.732	17217886	97562035	1	0.00
4	2.02	NITRITE	518.090	135876896	1027096479	1	3.66
5	3.10	BROMIDE	-31559.512	337313168	5176893704	1	5.38
6	4.93		0.000	337696	4420203	1	
7	5.80	PHOSPHATE	8.821	366026	5236785	1	1.75
8	7.53	SULFATE	12.452	967609	20942848	1	0.00
		Totals	-30985.280	501371092	6369630549		

File: 95092821.D07 Sample: 95-7932-C2/SEG2 - A10



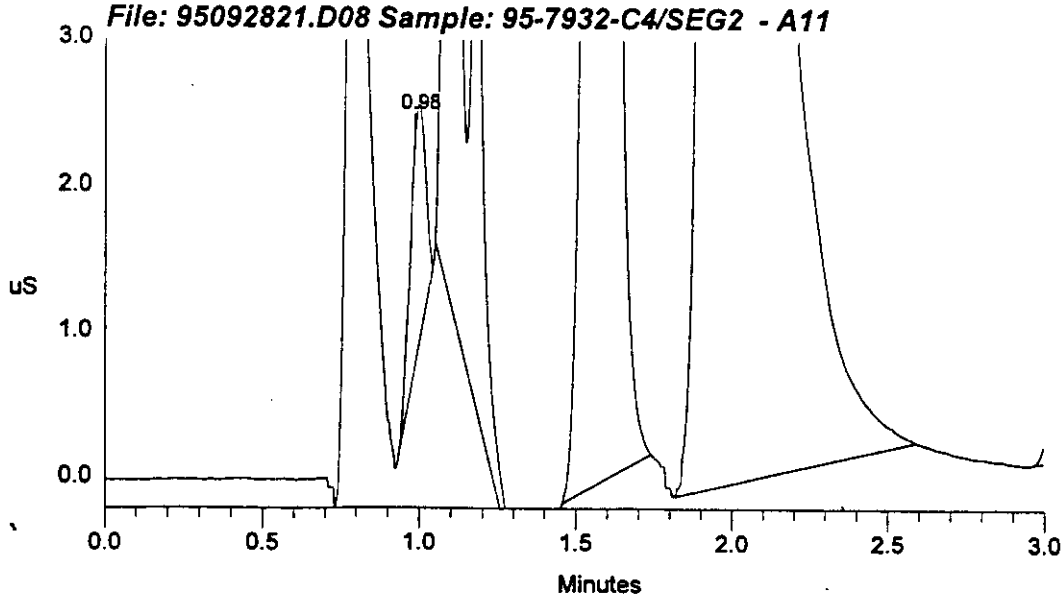
Data Reprocessed On 09/29/1995 00:45:47

Sample Name: 95-7932-C4/SEG2 - A11		Date: 09/28/1995 13:39:13	
Data File : A:\95092821.D08			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 8	Vial:A11		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	3.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.970	1538213	5446932	1	4.61
2	1.10		0.000	7493684	35358097	1	
3	1.57	CHLORIDE	34.860	20080677	104601981	1	0.00
4	2.03	NITRITE	553.618	140138275	1099797858	1	3.41
5	3.13	NITRATE	-2671.175	563372398	5584464248	1	0.00
6	4.57		0.000	119328	944409	1	
7	4.83		0.000	14584	52037	1	
8	5.00		0.000	213086	1315347	1	
9	5.80	PHOSPHATE	34.845	1960971	25124172	1	0.00
10	7.47	SULFATE	153.542	16958058	317019061	1	0.00
11	9.17		0.000	129964	1108820	1	
		Totals	-1892.340	752019239	7175232962		



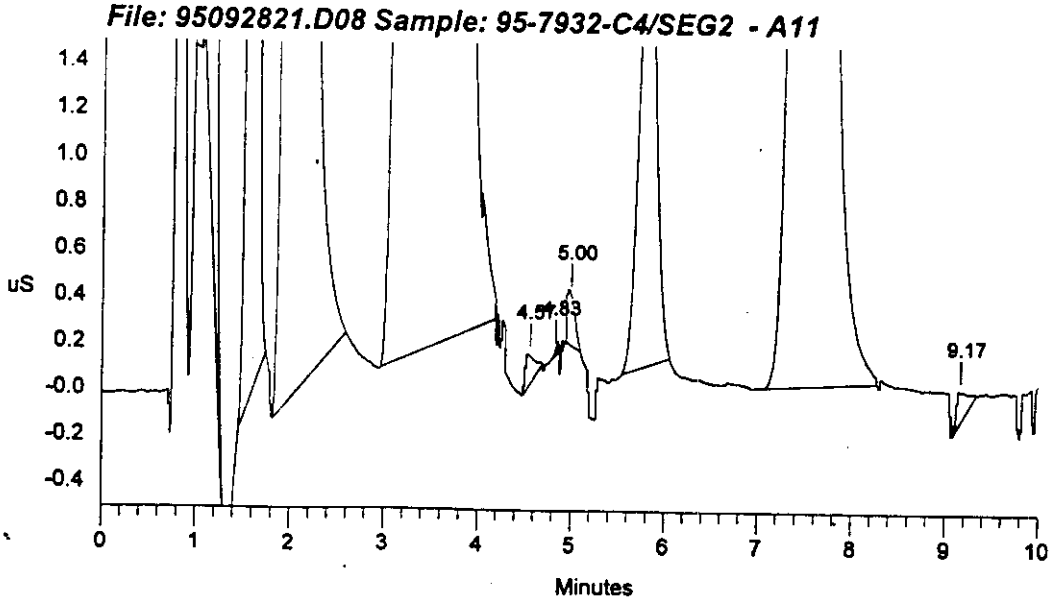
Data Reprocessed On 09/28/1995 19:18:08

Sample Name: 95-7932-C4/SEG2 - A11		Date: 09/28/1995 13:39:13	
Data File : C:\DX\DATA\9509282\95092821.D08			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 8 Vial:A11			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.380	794700	2660365	1	4.61
2	1.10		0.000	7493684	35358097	1	
3	1.57	CHLORIDE	34.860	20080677	104601981	1	0.00
4	2.03	NITRITE	553.618	140138275	1099797858	1	3.41
5	3.13	NITRATE	-2671.175	563372398	5584464248	1	0.00
6	4.57		0.000	119328	944409	1	
7	4.83		0.000	14584	52037	1	
8	5.00		0.000	213086	1315347	1	
9	5.80	PHOSPHATE	34.845	1960971	25124172	1	0.0
10	7.47	SULFATE	153.542	16958058	317019061	1	0.00
11	9.17		0.000	129964	1108820	1	
		Totals	-1892.930	751275725	7172446394		



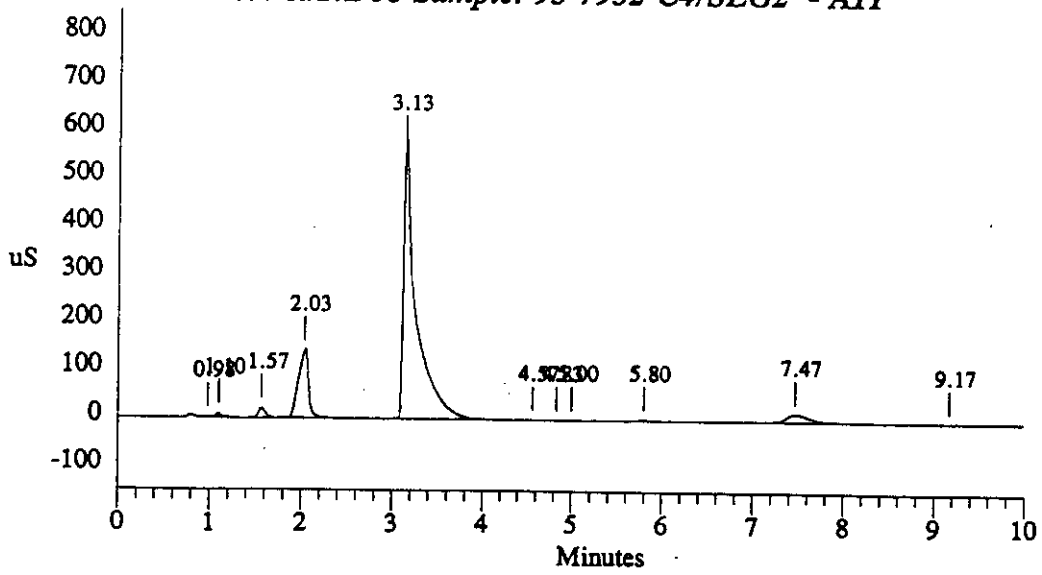
Sample Name: 95-7932-C4/SEG2 - A11 Date: 09/28/1995 13:39:13
Data File : C:\DX\DATA\9509282\95092821.D08
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 8 Vial:A11 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.326	768947	2405197	1	4.26
2	1.10		0.000	7493684	35358097	1	
3	1.57	CHLORIDE	38.070	20575955	115367445	1	0.00
4	2.03	NITRITE	557.036	140198980	1106805146	1	3.41
5	3.13	BROMIDE	-37327.731	563412872	5597286514	1	5.38
6	4.57		0.000	119328	944409	1	
7	4.83		0.000	14584	52037	1	
8	5.00	PHOSPHATE	2.939	253079	812711	1	-2.95
9	5.80		0.000	2040041	29093336	1	
10	7.47	SULFATE	154.248	16968307	318631674	1	0.00
11	9.17		0.000	129964	1108821	1	
		Totals	-36574.113	751975741	7207865386		

File: 95092821.D08 Sample: 95-7932-C4/SEG2 - A11



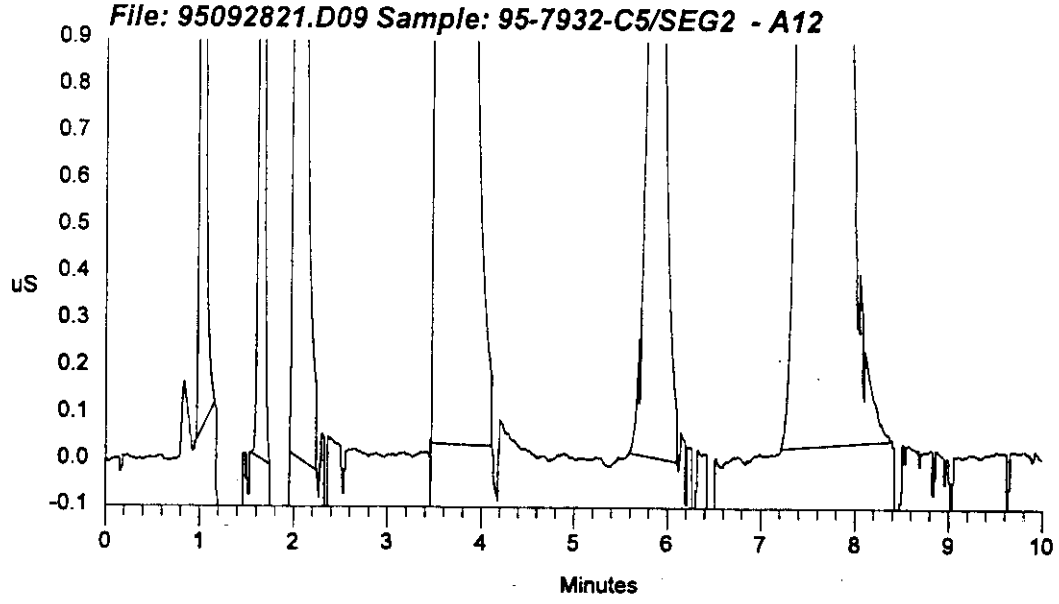
Data Reprocessed On 09/28/1995 18:57:39

Sample Name: 95-7932-C5/SEG2 - A12		Date: 09/28/1995 13:52:02	
Data File : C:\DX\DATA\9509282\95092821.D09			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 9	Vial:A12		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	3.910	3831875	14614132	1	1.69
2	1.63	CHLORIDE	4.871	2765153	11402596	1	0.00
3	2.03	NITRITE	41.209	17063237	76373708	1	-0.81
4	3.53	NITRATE	193.637	25089699	323149805	1	0.00
5	5.83	PHOSPHATE	30.609	1653204	21851127	1	0.41
6	7.57	SULFATE	140.498	16275650	287484637	1	0.00
		Totals	414.733	66678818	734876006		



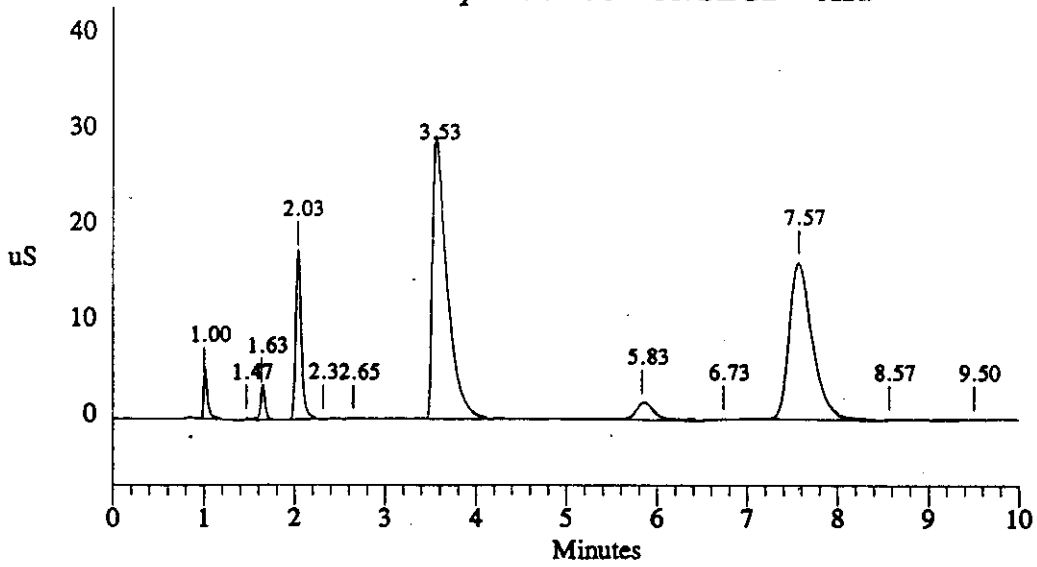
Sample Name: 95-7932-C5/SEG2 - A12 Date: 09/28/1995 13:52:02
Data File : C:\DX\DATA\9509282\95092821.D09
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 9 Vial:A12 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	4.228	3893574	16116835	1	1.69
2	1.47		0.000	222358	1179218	2	
3	1.63	CHLORIDE	5.679	2962576	13763132	2	0.00
4	2.03	NITRITE	42.042	17190981	77995383	1	-0.81
5	2.32		0.000	125050	893711	1	
6	2.65		0.000	76686	1127271	1	
7	3.53	NITRATE	194.637	25120057	325050517	1	0.00
8	5.83	PHOSPHATE	38.362	1743662	27852676	1	0.41
9	6.73		0.000	71724	1852730	1	
10	7.57	SULFATE	143.925	16347865	295194758	1	0.00
11	8.57		0.000	154634	2451286	1	
12	9.50		0.000	90855	4528682	1	
		Totals	428.874	68000019	768006200		

File: 95092821.D09 Sample: 95-7932-C5/SEG2 - A12



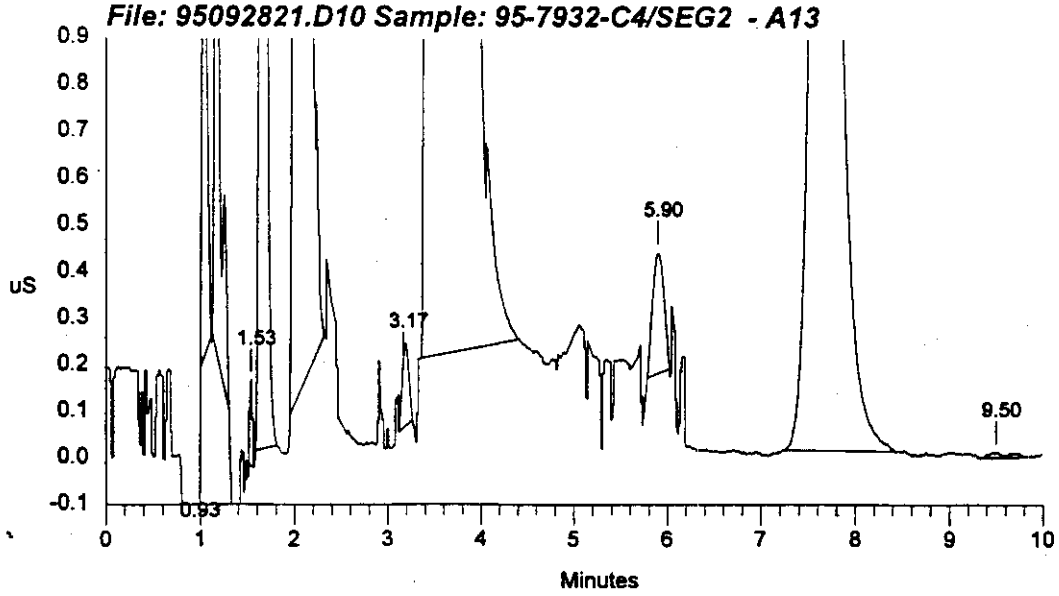
Data Reprocessed On 09/28/1995 19:02:54

Sample Name: 95-7932-C4/SEG2 - A13		Date: 09/28/1995 14:08:30	
Data File : C:\DX\DATA\9509282\95092821.D10			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 10 Vial:A13			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93		0.000	53859	112162	1	
2	1.03	FLUORIDE	8.337	1133812	4018966	1	4.02
3	1.18		0.000	1201480	5592593	1	
4	1.53		0.000	182045	363402	1	
5	1.65	CHLORIDE	35.620	3773232	18000517	1	0.00
6	2.05	NITRITE	579.989	40672335	222516406	1	-1.01
7	3.17	BROMIDE	5.167	137163	852695	1	1.12
8	3.47	NITRATE	2182.661	73528602	923263013	1	0.00
9	5.90	PHOSPHATE	23.892	258022	2193261	1	3.51
10	7.67	SULFATE	149.726	2992366	55190130	1	0.00
11	9.50		0.000	9955	199506	1	
		Totals	2985.393	123942870	1232302651		



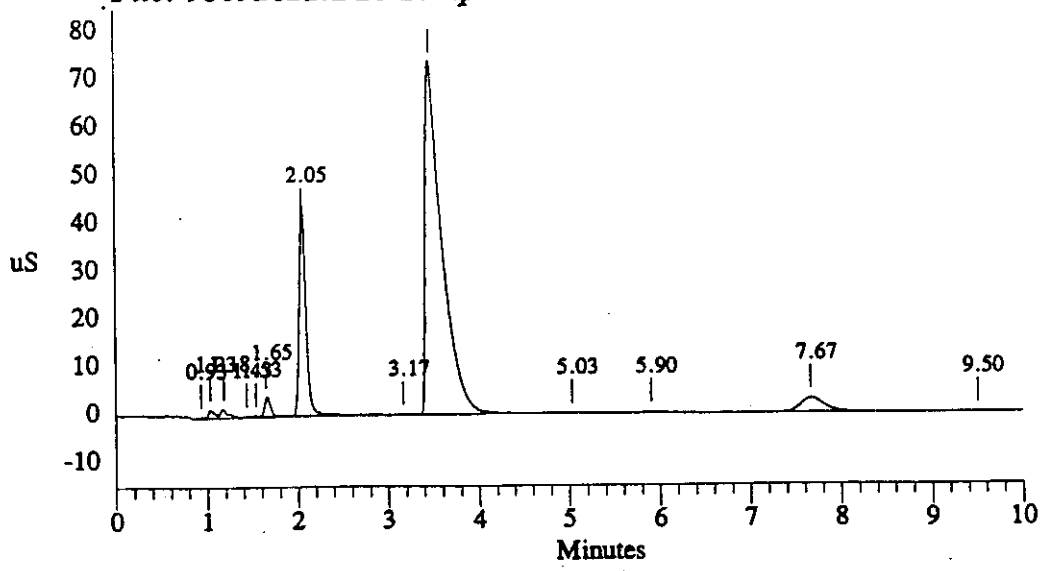
Sample Name: 95-7932-C4/SEG2 - A13 Date: 09/28/1995 14:08:30
Data File : C:\DX\DATA\9509282\95092821.D10
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 10 Vial:A13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93		0.000	234480	966693	2	
2	1.03	FLUORIDE	12.794	1740125	8228771	2	4.02
3	1.18		0.000	1742277	11174018	2	
4	1.43		0.000	219473	613757	2	
5	1.53		0.000	325039	1116028	2	
6	1.65	CHLORIDE	38.312	3898184	19585855	2	0.00
7	2.05	NITRITE	599.266	40800397	230078855	1	-1.01
8	3.17	BROMIDE	6.500	148577	1132349	1	1.12
9	3.47	NITRATE	2196.326	73696941	933004713	1	0.00
10	5.03		0.000	85675	3547027	1	
11	5.90	PHOSPHATE	24.904	322301	2345304	1	3.51
12	7.67	SULFATE	151.948	3002752	56068297	1	0.00
13	9.50		0.000	9955	199506	1	
		Totals	3030.051	126226175	1268061175		

File: 95092821.D10 Sample: 95-7932-C4/SEG2 - A13



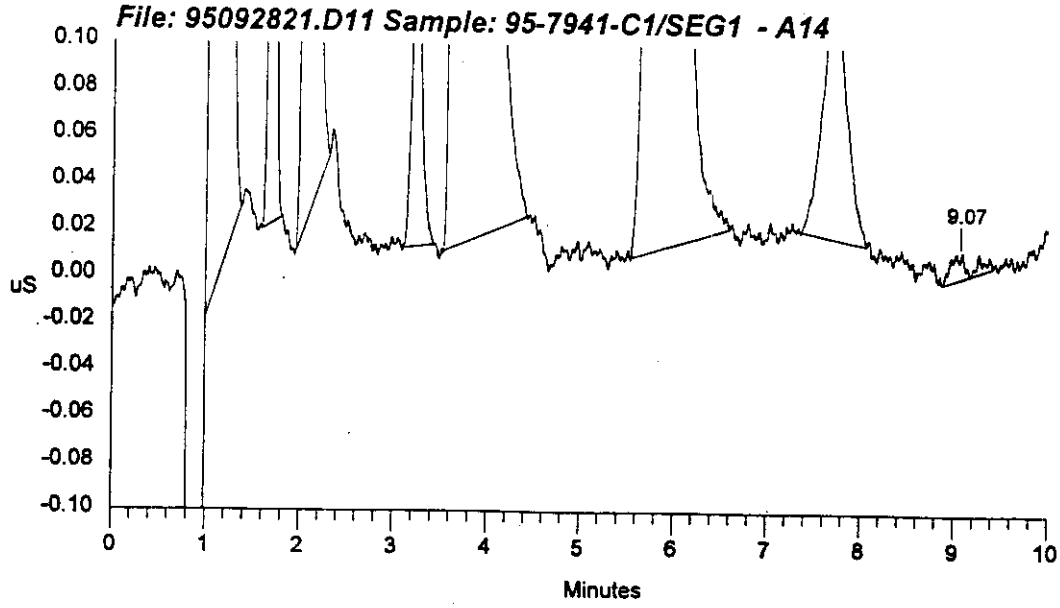
Data Reprocessed On 09/28/1995 19:05:00

Sample Name: 95-7941-C1/SEG1 - A14		Date: 09/28/1995 14:24:58	
Data File : C:\DX\DATA\9509282\95092821.D11			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 11 Vial:A14			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.03	FLUORIDE	59.271	14729774	52242550	1	2.98
2	1.67	CHLORIDE	9.465	689527	2767831	1	0.00
3	2.05	NITRITE	77.952	5124488	26553563	1	-2.00
4	3.20	BROMIDE	5.867	127230	999533	1	1.16
5	3.63	NITRATE	554.265	15119969	174583948	1	0.00
6	5.80	PHOSPHATE	638.854	7526457	100900750	1	-2.91
7	7.67	SULFATE	13.082	105564	1946332	1	0.00
8	9.07		0.000	8956	163320	1	
		Totals	1358.757	43431965	360157828		



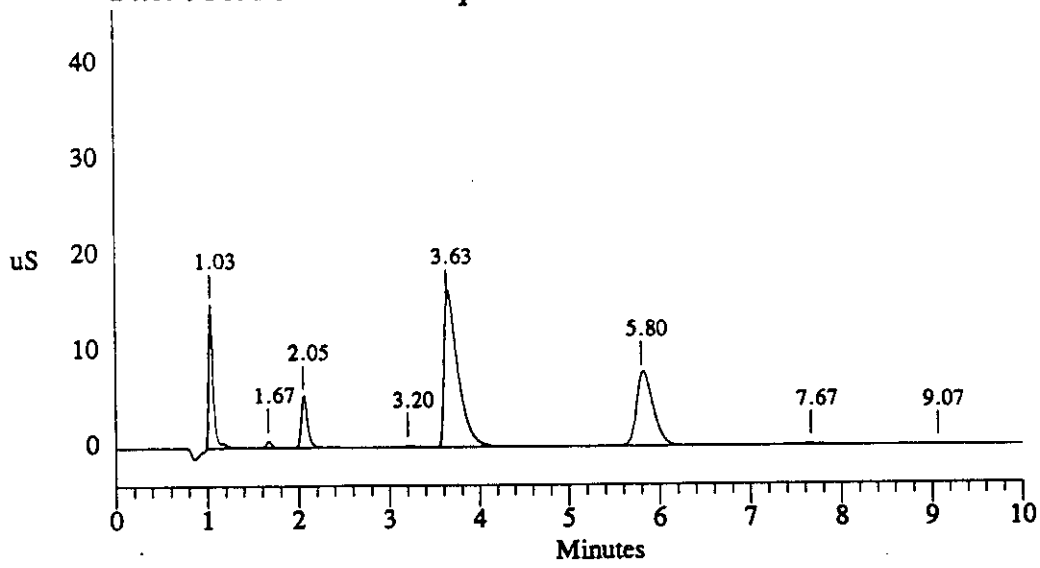
Sample Name: 95-7941-C1/SEG1 - A14 Date: 09/28/1995 14:24:58
Data File : C:\DX\DATA\9509282\95092821.D11
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 11 Vial:A14 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.03	FLUORIDE	59.271	14729774	52242550	1	2.98
2	1.67	CHLORIDE	9.665	694022	2882961	1	0.00
3	2.05	NITRITE	80.211	5136054	27431049	1	-2.00
4	3.20	BROMIDE	6.224	129840	1074289	1	1.16
5	3.63	NITRATE	556.155	15122521	175227465	1	0.00
6	5.80	PHOSPHATE	640.539	7528689	101191023	1	-2.91
7	7.67	SULFATE	13.248	106455	2009904	1	0.00
8	9.07		0.000	8956	163320	1	
		Totals	1365.311	43456312	362222560		

File: 95092821.D11 Sample: 95-7941-C1/SEG1 - A14



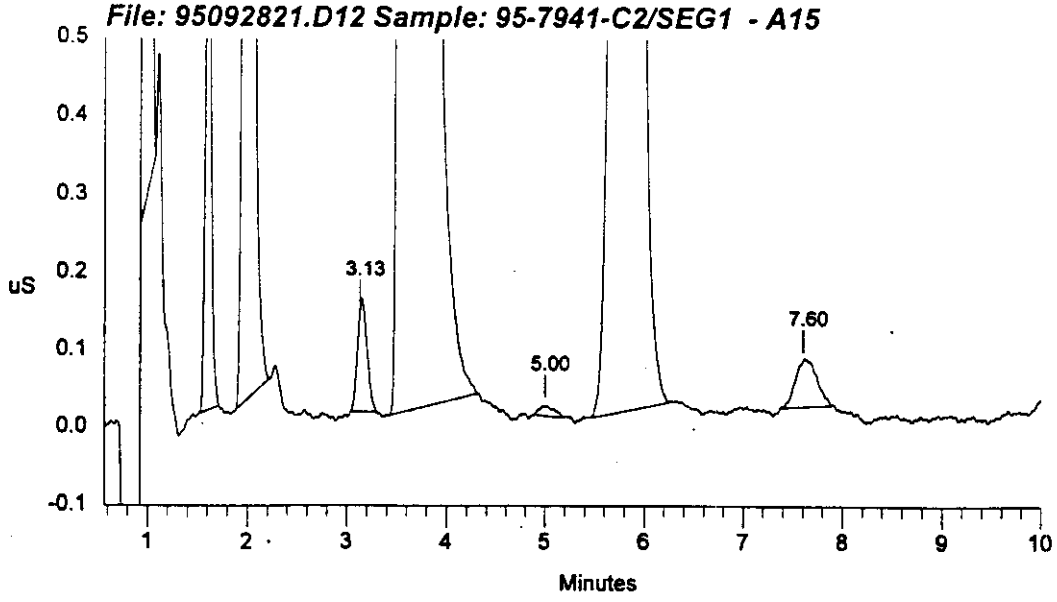
Data Reprocessed On 09/28/1995 19:05:53

Sample Name: 95-7941-C2/SEG1 - A15		Date: 09/28/1995 14:41:25	
Data File : C:\DX\DATA\9509282\95092821.D12			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 12 Vial:A15			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.57	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	44.101	11564523	37853802	1	0.35
2	1.60	CHLORIDE	9.552	690208	2818176	1	0.00
3	1.98	NITRITE	77.945	5149198	26550938	1	-1.24
4	3.13	BROMIDE	5.684	128798	961028	1	3.18
5	3.57	NITRATE	657.866	19585681	210296097	1	0.00
6	5.00		0.000	11534	137048	1	
7	5.77	PHOSPHATE	517.111	6253173	80247509	1	-1.67
8	7.60	SULFATE	10.446	58509	933200	1	0.00
		Totals	1322.706	43441623	359797796		



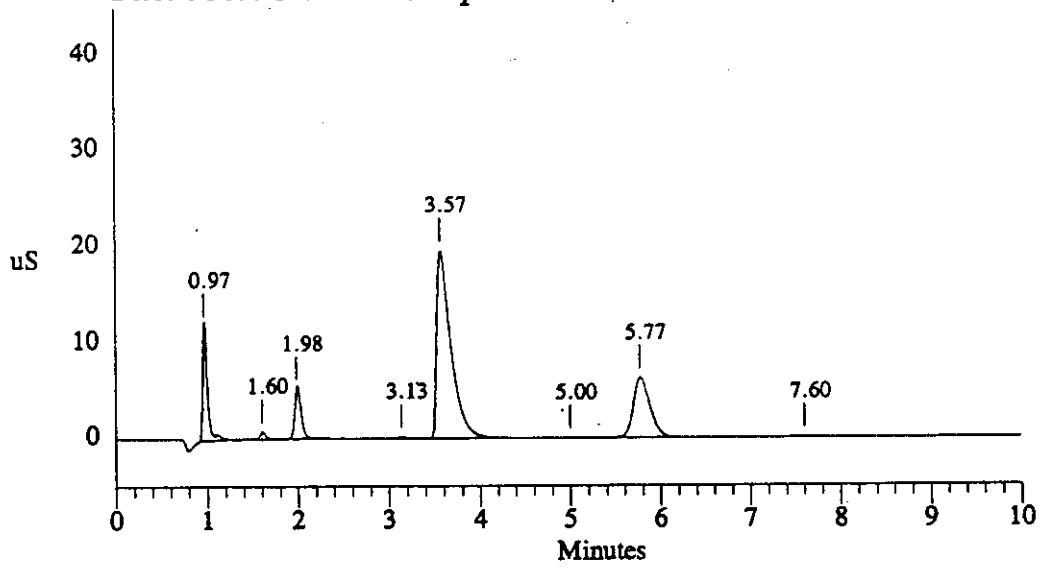
Sample Name: 95-7941-C2/SEG1 - A15 Date: 09/28/1995 14:41:25
Data File : C:\DX\DATA\9509282\95092821.D12
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 12 Vial:A15 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	52.335	11990103	45660993	2	0.35
2	1.60	CHLORIDE	11.958	738093	4206597	2	0.00
3	1.98	NITRITE	77.945	5149198	26550938	1	-1.24
4	3.13	BROMIDE	6.302	135897	1090673	1	3.18
5	3.57	NITRATE	661.497	19591764	211564260	1	0.00
6	5.00		0.000	17814	300048	1	
7	5.77	PHOSPHATE	521.178	6261303	80927540	1	-1.67
8	7.60	SULFATE	12.270	72592	1633985	1	0.00
		Totals	1343.485	43956763	371935034		

File: 95092821.D12 Sample: 95-7941-C2/SEG1 - A15



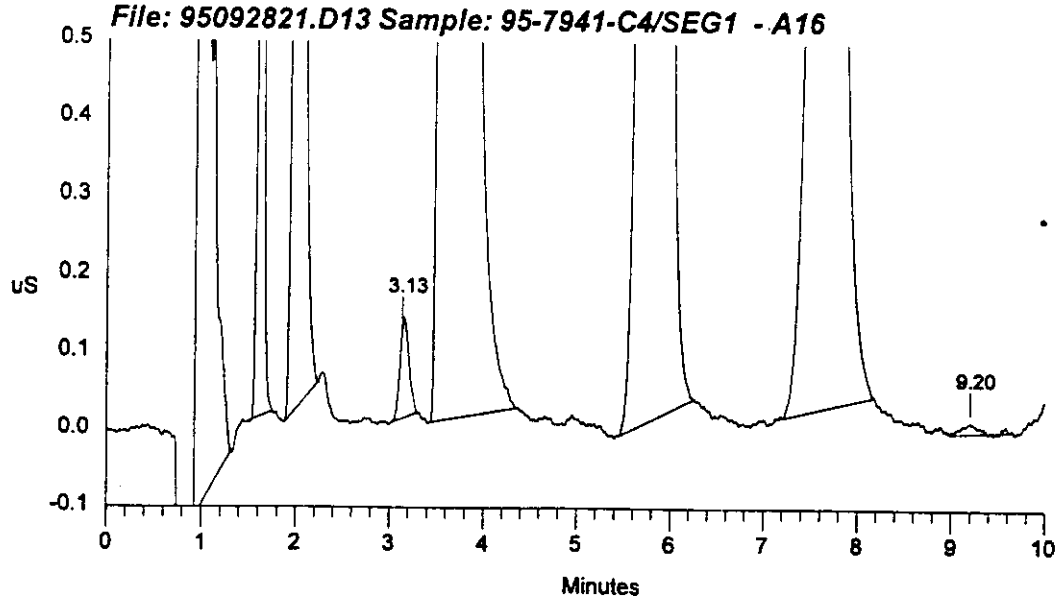
Data Reprocessed On 09/28/1995 19:10:47

Sample Name:	95-7941-C4/SEG1 - A16	Date:	09/28/1995 14:57:54
Data File :	C:\DX\DATA\9509282\95092821.D13		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 13 Vial:A16	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	75.708	15664909	67857404	1	0.35
2	1.60	CHLORIDE	13.129	1083522	4883510	1	0.00
3	2.00	NITRITE	115.308	8495072	41069905	1	-0.41
4	3.13	BROMIDE	5.169	114932	853080	1	3.18
5	3.57	NITRATE	738.023	22005519	238561405	1	0.00
6	5.73	PHOSPHATE	763.136	9399723	122657796	1	-2.24
7	7.60	SULFATE	141.139	2820689	51801131	1	0.00
8	9.20		0.000	12702	191051	1	
		Totals	1851.612	59597069	527875282		



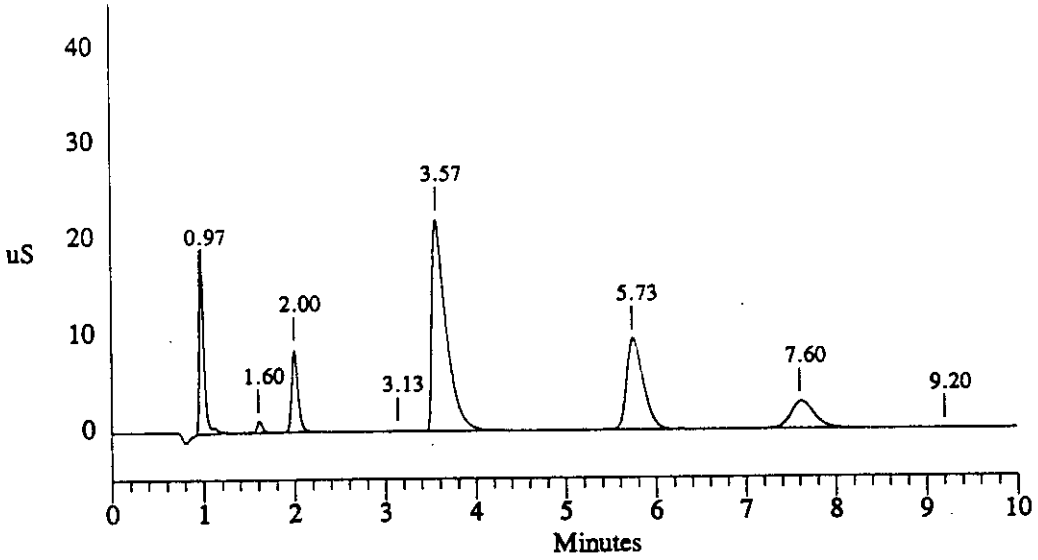
Sample Name: 95-7941-C4/SEG1 - A16 Date: 09/28/1995 14:57:54
Data File : C:\DX\DATA\9509282\95092821.D13
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 13 Vial:A16 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	76.126	15668396	68254949	2	0.35
2	1.60	CHLORIDE	15.224	1125330	6095551	2	0.00
3	2.00	NITRITE	115.308	8495072	41069905	1	-0.41
4	3.13	BROMIDE	6.033	121983	1034343	1	3.18
5	3.57	NITRATE	739.721	22008083	239166585	1	0.00
6	5.73	PHOSPHATE	772.402	9416063	124308922	1	-2.24
7	7.60	SULFATE	144.077	2833593	52960278	1	0.00
8	9.20		0.000	12702	191051	1	
		Totals	1868.891	59681222	533081584		

File: 95092821.D13 Sample: 95-7941-C4/SEG1 - A16



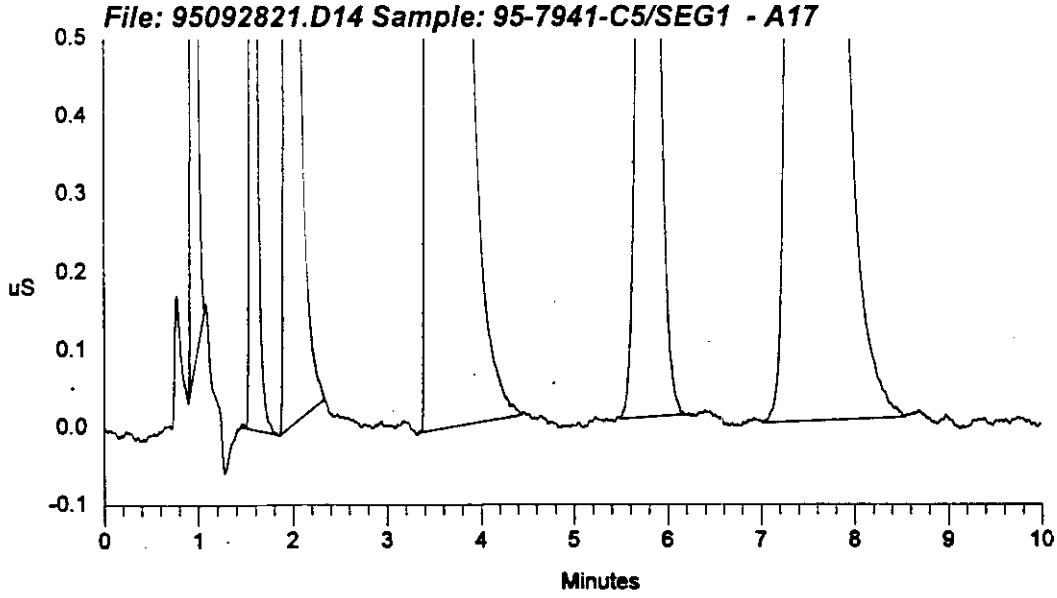
Data Reprocessed On 09/28/1995 19:11:16

Sample Name: 95-7941-C5/SEG1 - A17		Date: 09/28/1995 15:10:43	
Data File : C:\DX\DATA\9509282\95092821.D14			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 14 Vial:A17			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	4.631	6744942	18025113	1	-0.34
2	1.58	CHLORIDE	5.749	3978156	13966641	1	0.00
3	1.97	NITRITE	43.764	17207697	81349563	1	-1.04
4	3.47	NITRATE	203.533	27878043	342068269	1	0.00
5	5.77	PHOSPHATE	32.652	1729354	23428013	1	1.17
6	7.50	SULFATE	146.675	16872771	301407698	1	0.00
		Totals	437.005	74410962	780245297		



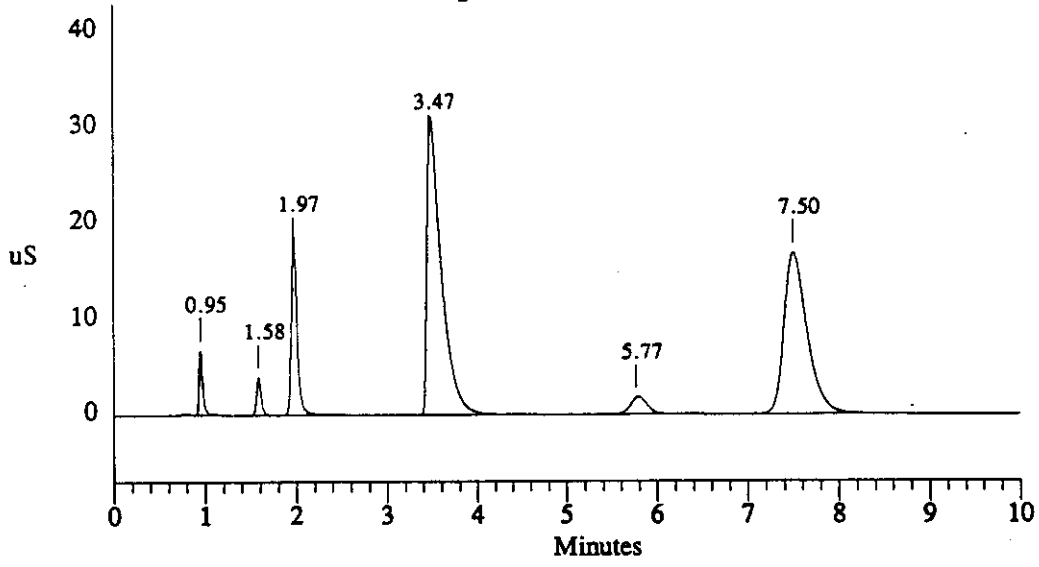
Sample Name: 95-7941-C5/SEG1 - A17 Date: 09/28/1995 15:10:43
Data File : C:\DX\DATA\9509282\95092821.D14
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 14 Vial:A17 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	4.834	6779394	18982296	1	-0.34
2	1.58	CHLORIDE	6.034	4007972	14800091	1	0.00
3	1.97	NITRITE	44.295	17217730	82382778	1	-1.04
4	3.47	NITRATE	204.050	27883247	343064504	1	0.00
5	5.77	PHOSPHATE	33.119	1734522	23789038	1	1.17
6	7.50	SULFATE	146.675	16872771	301407698	1	0.00
		Totals	439.007	74495637	784426404		

File: 95092821.D14 Sample: 95-7941-C5/SEG1 - A17



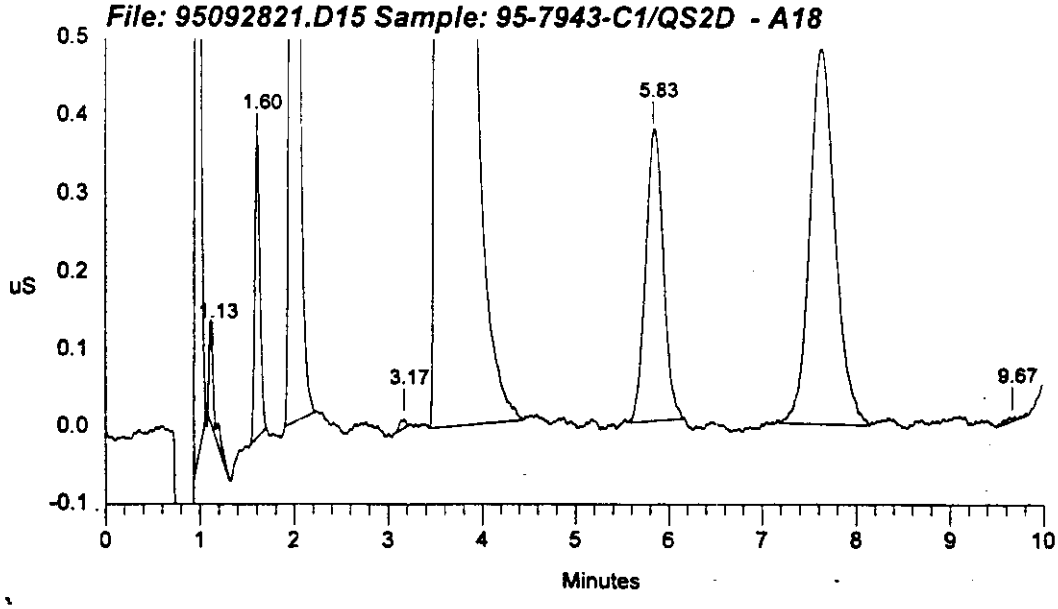
Data Reprocessed On 09/28/1995 19:11:39

Sample Name:	95-7943-C1/QS2D - A18	Date:	09/28/1995 15:27:11
Data File :	C:\DX\DATA\9509282\95092821.D15		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 15 Vial:A18	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	44.996	2102379	6769223	1	0.35
2	1.13		0.000	95198	487674	1	
3	1.60	CHLORIDE	28.958	376598	1485580	1	0.00
4	1.98	NITRITE	212.639	3237568	16924907	1	-1.24
5	3.17	BROMIDE	5.448	9955	55411	1	4.28
6	3.57	NITRATE	2635.533	19594426	210651146	1	0.00
7	5.83	PHOSPHATE	169.848	370161	4988866	1	-0.53
8	7.63	SULFATE	126.544	484181	9091912	1	0.00
9	9.67		0.000	2777	57494	1	
		Totals	3223.966	26273244	250512213		



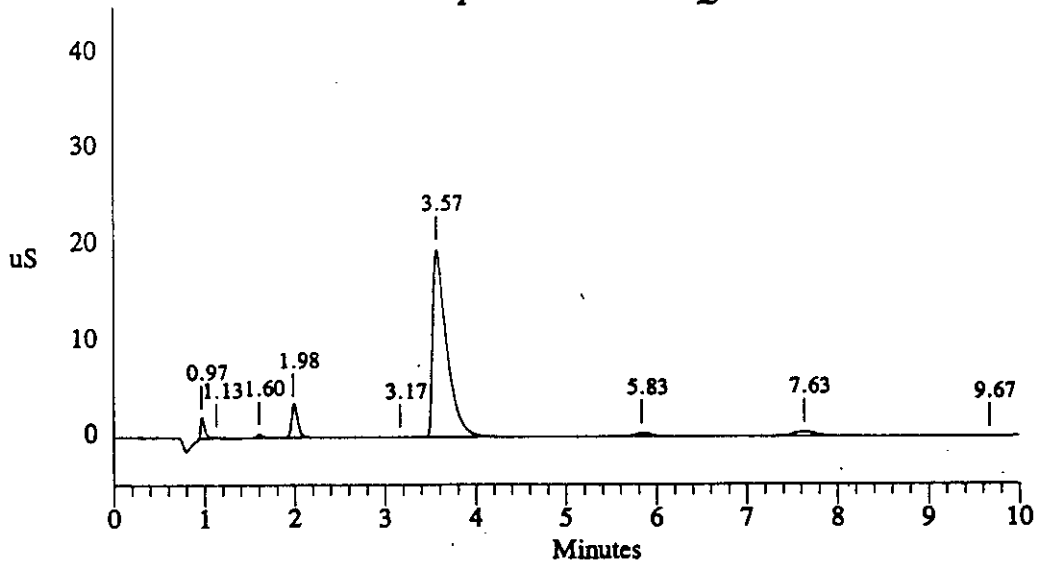
Sample Name: 95-7943-C1/QS2D - A18 Date: 09/28/1995 15:27:11
Data File : C:\DX\DATA\9509282\95092821.D15
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 15 Vial:A18 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	46.679	2121378	7166723	3	0.35
2	1.13		0.000	156655	1030357	4	
3	1.60	CHLORIDE	33.327	401997	2114613	1	0.00
4	1.98	NITRITE	220.488	3255297	17686856	1	-1.24
5	3.17	BROMIDE	7.235	16287	148918	1	4.28
6	3.57	NITRATE	2639.685	19595318	211013691	1	0.00
7	5.83	PHOSPHATE	175.548	375070	5203814	1	-0.53
8	7.63	SULFATE	126.544	484181	9091912	1	0.00
9	9.67		0.000	2777	57494	1	
		Totals	3249.507	26408960	253514378		

File: 95092821.D15 Sample: 95-7943-C1/QS2D - A18



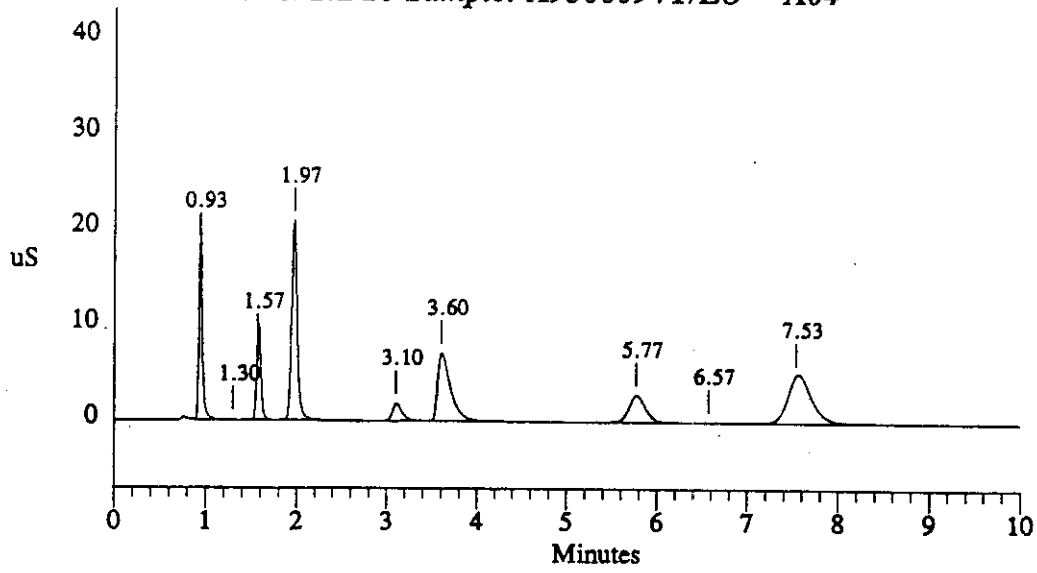
Sample Name: A950609V1/LO - A04 Date: 09/28/1995 15:39:48
Data File : C:\DX\DATA\9509282\95092821.D16
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 16 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	23.572	18088478	51919668	2	-1.05
2	1.30		0.000	56756	315214	2	
3	1.57	CHLORIDE	23.913	7640666	32353663	1	0.00
4	1.97	NITRITE	97.460	20794638	91022504	1	0.02
5	3.10	BROMIDE	25.715	1816386	13481302	1	4.26
6	3.60	NITRATE	95.054	7071567	70542707	1	0.00
7	5.77	PHOSPHATE	97.765	2794145	36073469	1	-2.58
8	6.57		0.000	9937	163189	1	
9	7.53	SULFATE	98.075	4965423	93274395	1	0.00
		Totals	461.555	63237996	389146112		

File: 95092821.D16 Sample: A950609V1/LO - A04



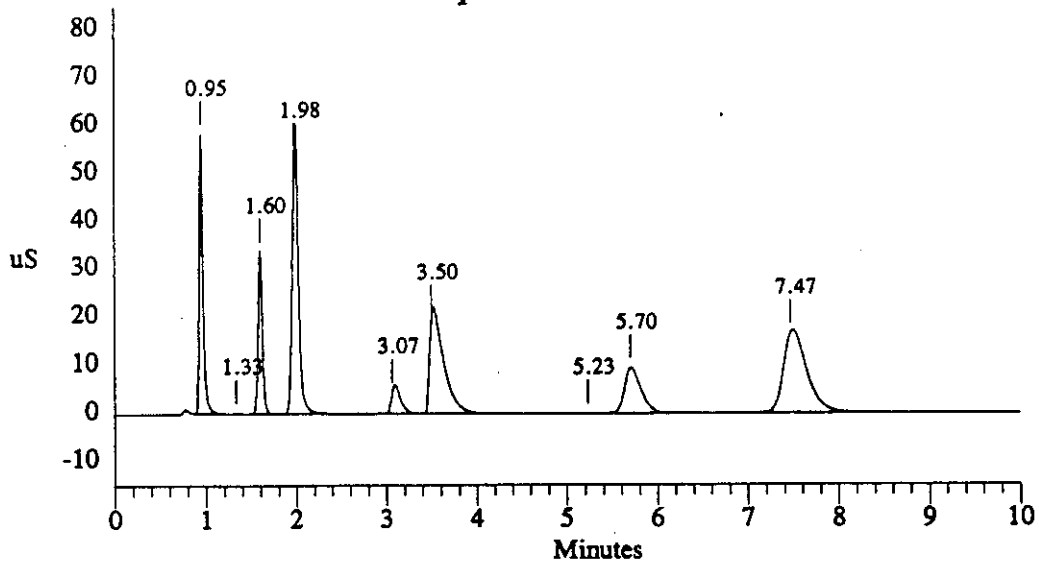
Sample Name: A950609V2/MID - A04 Date: 09/28/1995 15:52:49
Data File : C:\DX\DATA\9509282\95092821.D17
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 17 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	23.839	58263362	166380384	1	-1.38
2	1.33		0.000	132082	755566	1	
3	1.60	CHLORIDE	24.784	33845562	112352087	1	0.00
4	1.98	NITRITE	98.998	53848897	286353368	1	-1.24
5	3.07	BROMIDE	25.221	4435234	41846200	1	0.99
6	3.50	NITRATE	97.153	19777019	235225688	1	0.00
7	5.23		0.000	15498	124460	1	
8	5.70	PHOSPHATE	100.137	9448687	120505846	1	-0.95
9	7.47	SULFATE	99.697	16600958	307915772	1	0.00
		Totals	469.829	196367299	1271459371		

File: 95092821.D17 Sample: A950609V2/MID - A04



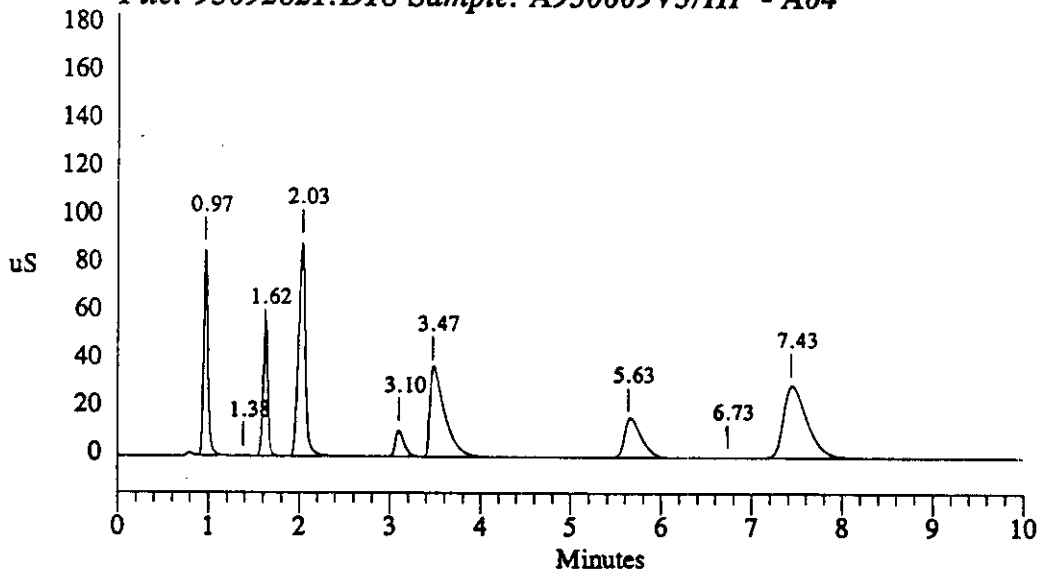
Sample Name: A950609V3/HI - A04 Date: 09/28/1995 16:06:14
Data File : C:\DX\DATA\9509282\95092821.D18
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 18 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	24.259	86194874	286725232	1	-0.68
2	1.38		0.000	179856	942146	1	
3	1.62	CHLORIDE	24.941	47555653	203452258	1	0.00
4	2.03	NITRITE	99.103	89727228	482589235	1	0.21
5	3.10	BROMIDE	25.300	11091587	73682735	1	1.03
6	3.47	NITRATE	97.977	36565977	424478603	1	0.00
7	5.63	PHOSPHATE	101.002	15632428	218574625	1	-1.17
8	6.73		0.000	10265	147801	1	
9	7.43	SULFATE	100.676	30352031	558655679	1	0.00
		Totals	473.259	317309899	2249248312		

File: 95092821.D18 Sample: A950609V3/HI - A04



Data Reprocessed On 09/28/1995 19:12:57

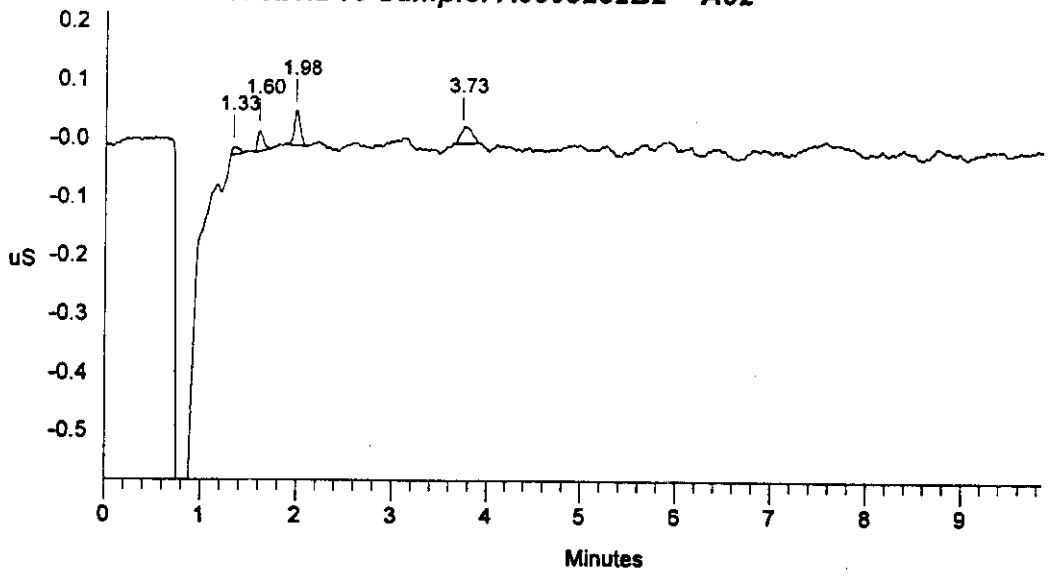
Sample Name: A9509282B2 - A02		Date: 09/28/1995 16:22:42	
Data File : C:\DX\DATA\9509282\95092821.D19			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 19 Vial:A02			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	9.86	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.33		0.000	12254	62894	1	
2	1.60	CHLORIDE	0.098	35315	147893	1	0.00
3	1.98	NITRITE	0.204	57218	260077	1	-1.24
4	3.73	NITRATE	0.224	23814	239803	1	0.00
		Totals	0.527	128602	710667		

File: 95092821.D19 Sample: A9509282B2 - A02

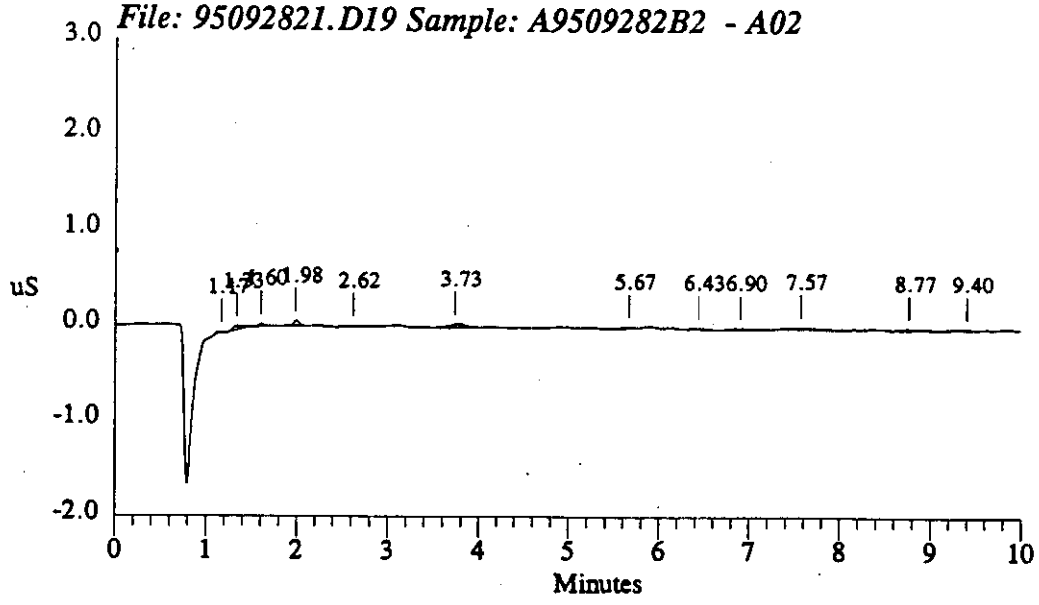


Sample Name: A9509282B2 - A02 Date: 09/28/1995 16:22:42
Data File : C:\DX\DATA\9509282\95092821.D19
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 19 Vial:A02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	13680	38098	1	
2	1.33		0.000	41735	295171	1	
3	1.60	CHLORIDE	0.098	35000	140600	1	0.00
4	1.98	NITRITE	0.204	56475	249691	1	-1.24
5	2.62		0.000	11131	124259	1	
6	3.73	NITRATE	0.247	38834	590952	1	0.00
7	5.67		0.000	11546	102303	1	
8	6.43	PHOSPHATE	0.207	13586	163045	1	4.80
9	6.90		0.000	10752	228906	1	
10	7.57	SULFATE	0.183	19919	434524	1	0.00
11	8.77		0.000	16191	211297	1	
12	9.40		0.000	8765	194259	1	
		Totals	0.939	277614	2773104		



Data Reprocessed On 09/28/1995 19:20:05

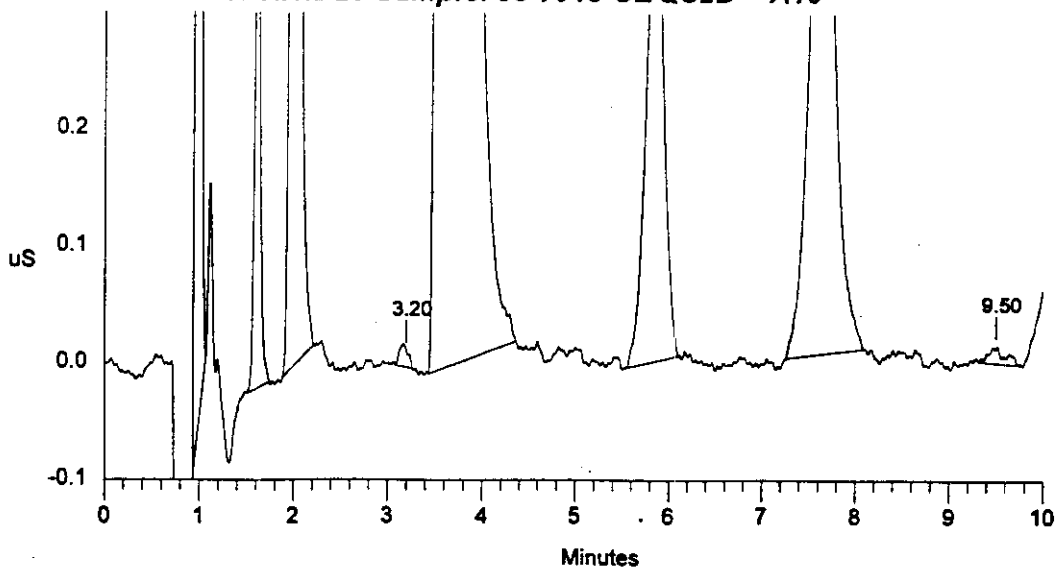
Sample Name: 95-7943-C2/QS2D - A19		Date: 09/28/1995 16:39:11	
Data File : C:\DX\DATA\9509282\95092821.D20			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 20 Vial:A19			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	50.142	2487257	7984560	1	0.35
2	1.60	CHLORIDE	31.606	441090	1866772	1	0.00
3	1.98	NITRITE	226.861	3473323	18305500	1	-1.24
4	3.20	BROMIDE	6.752	12737	123598	1	5.38
5	3.53	NITRATE	3044.725	19729474	246836288	1	0.00
6	5.83	PHOSPHATE	180.249	403711	5381138	1	0.41
7	7.63	SULFATE	132.609	526623	9677046	1	0.00
8	9.50		0.000	12869	178547	1	
		Totals	3672.944	27087084	290353448		

File: 95092821.D20 Sample: 95-7943-C2/QS2D - A19



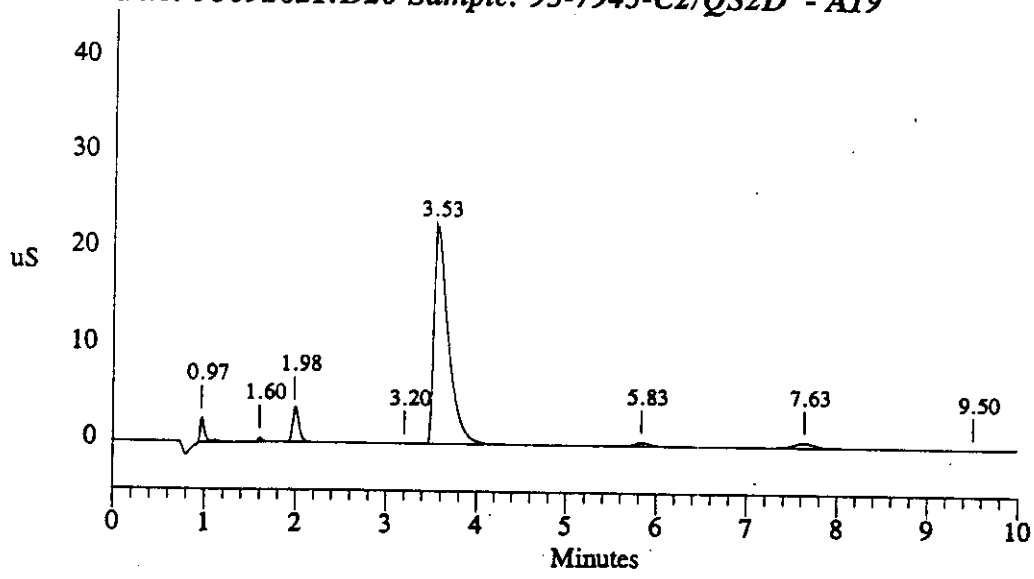
Sample Name: 95-7943-C2/QS2D - A19 Date: 09/28/1995 16:39:11
Data File : C:\DX\DATA\9509282\95092821.D20
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 20 Vial:A19 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	57.749	2510799	9781470	1	0.35
2	1.60	CHLORIDE	36.405	467234	2558057	1	0.00
3	1.98	NITRITE	227.219	3475671	18340311	1	-1.24
4	3.20	BROMIDE	6.869	13573	129739	1	5.38
5	3.53	NITRATE	3053.407	19731458	247614401	1	0.00
6	5.83	PHOSPHATE	187.858	409361	5668213	1	0.41
7	7.63	SULFATE	137.826	535337	10180396	1	0.00
8	9.50		0.000	12869	178547	1	
		Totals	3707.332	27156303	294451134		

File: 95092821.D20 Sample: 95-7943-C2/QS2D - A19



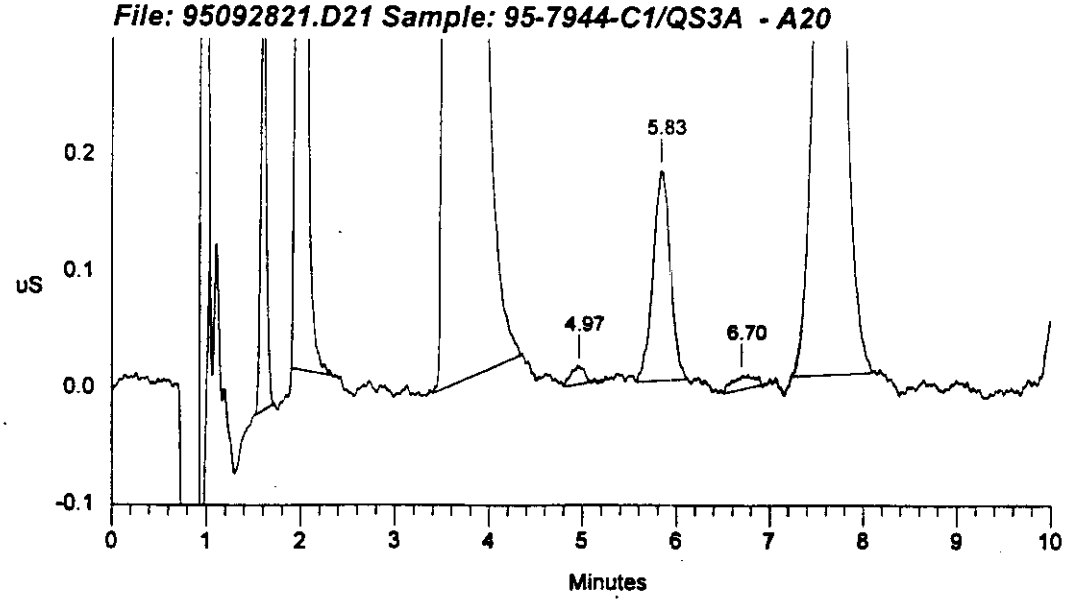
Data Reprocessed On 09/28/1995 19:20:53

Sample Name: 95-7944-C1/QS3A - A20		Date: 09/28/1995 16:55:39	
Data File : C:\DX\DATA\9509282\95092821.D21			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 21 Vial:A20			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	57.990	3214615	9838371	1	0.35
2	1.60	CHLORIDE	29.418	391560	1551904	1	0.00
3	1.98	NITRITE	194.520	3049845	15166232	1	-1.24
4	3.57	NITRATE	2379.925	17425495	188512621	1	0.00
5	4.97		0.000	14300	149397	1	
6	5.83	PHOSPHATE	98.887	180117	2317882	1	-0.53
7	6.70		0.000	11280	194956	1	
8	7.60	SULFATE	196.764	864129	15876679	1	0.00
		Totals	2957.504	25151340	233608042		



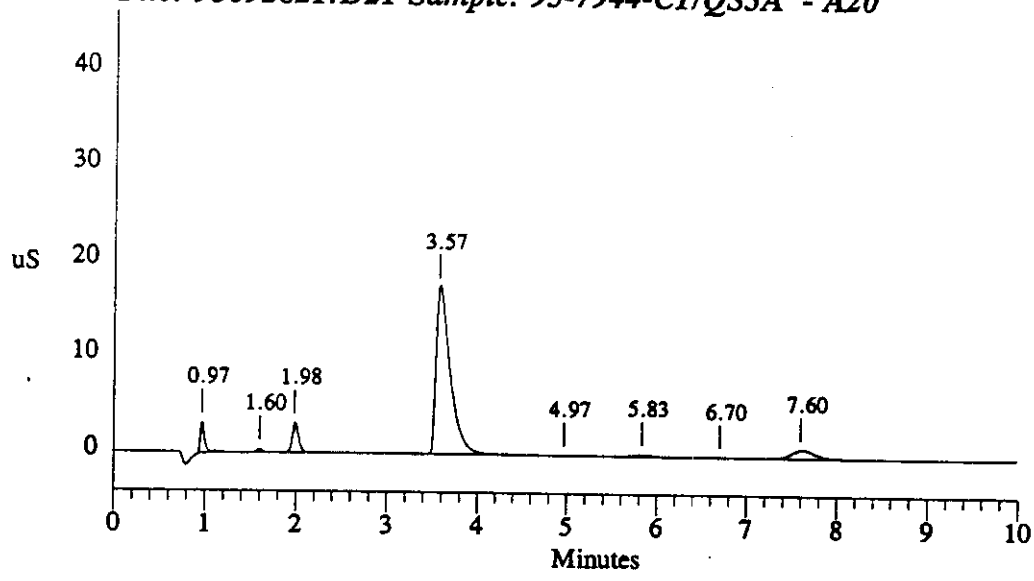
Sample Name: 95-7944-C1/QS3A - A20 Date: 09/28/1995 16:55:39
Data File : C:\DX\DATA\9509282\95092821.D21
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 21 Vial:A20 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	67.061	3211325	11981559	2	0.35
2	1.60	CHLORIDE	33.495	413445	2138798	2	0.00
3	1.98	NITRITE	202.081	3073890	15900158	1	-1.24
4	3.57	NITRATE	2390.040	17431404	189382204	1	0.00
5	4.97		0.000	14300	149397	1	
6	5.83	PHOSPHATE	99.329	180582	2334514	1	-0.53
7	6.70		0.000	14088	352006	1	
8	7.60	SULFATE	206.613	878790	16830173	1	0.00
		Totals	2998.620	25217823	239068809		

File: 95092821.D21 Sample: 95-7944-C1/QS3A - A20



Data Reprocessed On 09/28/1995 19:21:14

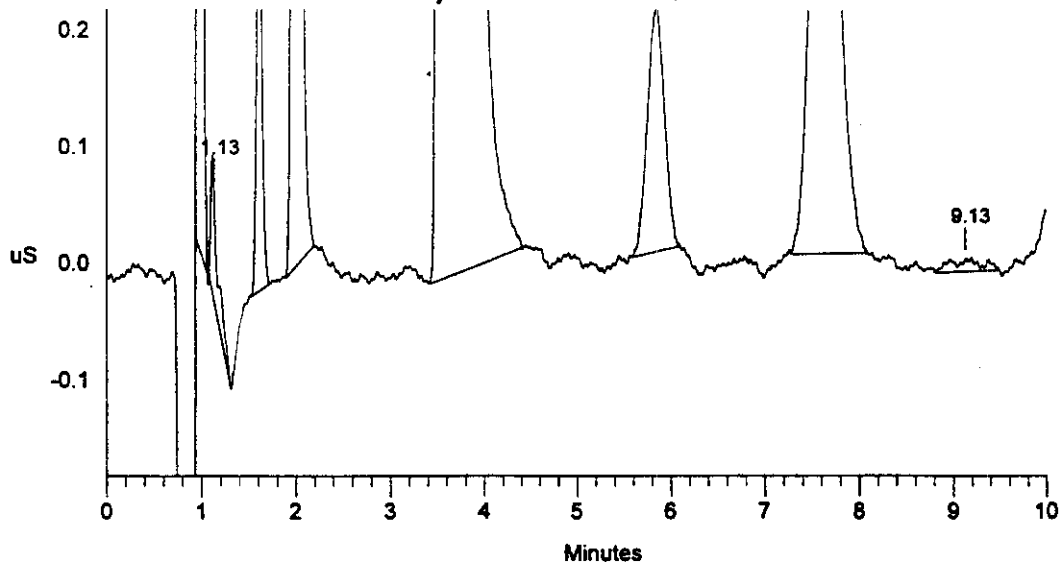
Sample Name: 95-7944-C2/QS3A - A21		Date: 09/28/1995 17:12:08	
Data File : C:\DX\DATA\9509282\95092821.D22			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 22 Vial:A21			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	47.425	2231666	7342724	1	0.35
2	1.13		0.000	93783	550996	1	
3	1.60	CHLORIDE	28.920	350020	1480239	1	0.00
4	2.00	NITRITE	168.973	2634100	12686751	1	-0.41
5	3.57	NITRATE	3059.736	22698032	248181952	1	0.00
6	5.83	PHOSPHATE	108.145	205961	2665859	1	-0.53
7	7.63	SULFATE	156.325	669552	11966591	1	0.00
8	9.13		0.000	10610	265066	1	
		Totals	3569.525	28893724	285140178		

File: 95092821.D22 Sample: 95-7944-C2/QS3A - A21



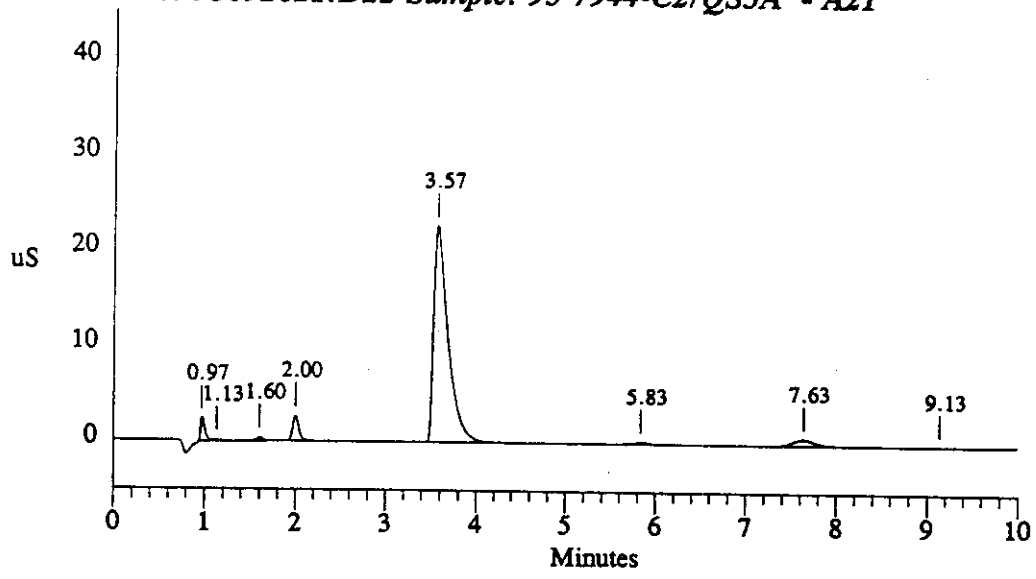
Sample Name: 95-7944-C2/QS3A - A21 Date: 09/28/1995 17:12:08
Data File : C:\DX\DATA\9509282\95092821.D22
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 22 Vial:A21 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	200	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	52.160	2364544	8461089	3	0.35
2	1.13		0.000	153918	1053542	4	
3	1.60	CHLORIDE	34.263	379899	2249395	1	0.00
4	2.00	NITRITE	175.788	2644968	13348171	1	-0.41
5	3.57	NITRATE	3069.364	22701102	249045711	1	0.00
6	5.83	PHOSPHATE	118.783	215738	3065838	1	-0.53
7	7.63	SULFATE	161.654	678318	12481337	1	0.00
8	9.13		0.000	10610	265066	1	
		Totals	3612.011	29149095	289970149		

File: 95092821.D22 Sample: 95-7944-C2/QS3A - A21



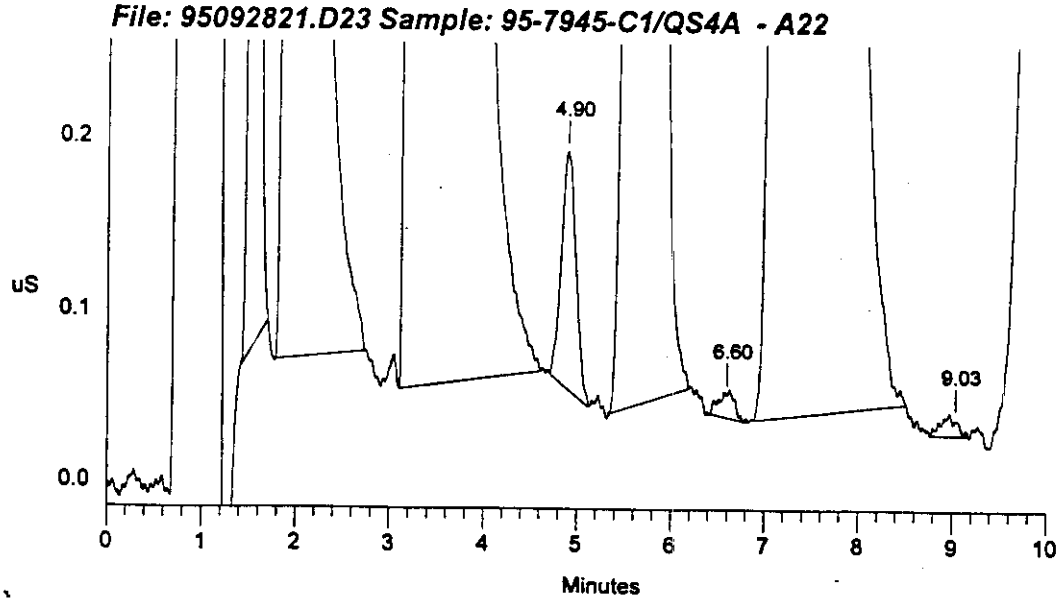
Data Reprocessed On 09/28/1995 19:22:19

Sample Name: 95-7945-C1/QS4A - A22		Date: 09/28/1995 17:24:57	
Data File : C:\DX\DATA\9509282\95092821.D23			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 23 Vial:A22			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.90	FLUORIDE	66.828	75000541	316845117	1	-1.43
2	1.52	CHLORIDE	11.055	6597431	29654289	1	0.00
3	1.95	NITRITE	300.829	94507630	588307460	1	2.44
4	3.20	NITRATE	510.208	141394949	1962512385	1	0.00
5	4.90		0.000	137252	1496543	1	
6	5.60	PHOSPHATE	185.061	11756690	152186470	1	6.43
7	6.60		0.000	12954	184249	1	
8	7.23	SULFATE	451.147	61778193	1265853461	1	0.00
9	9.03		0.000	8901	150599	1	
		Totals	1525.127	391194541	4317190573		



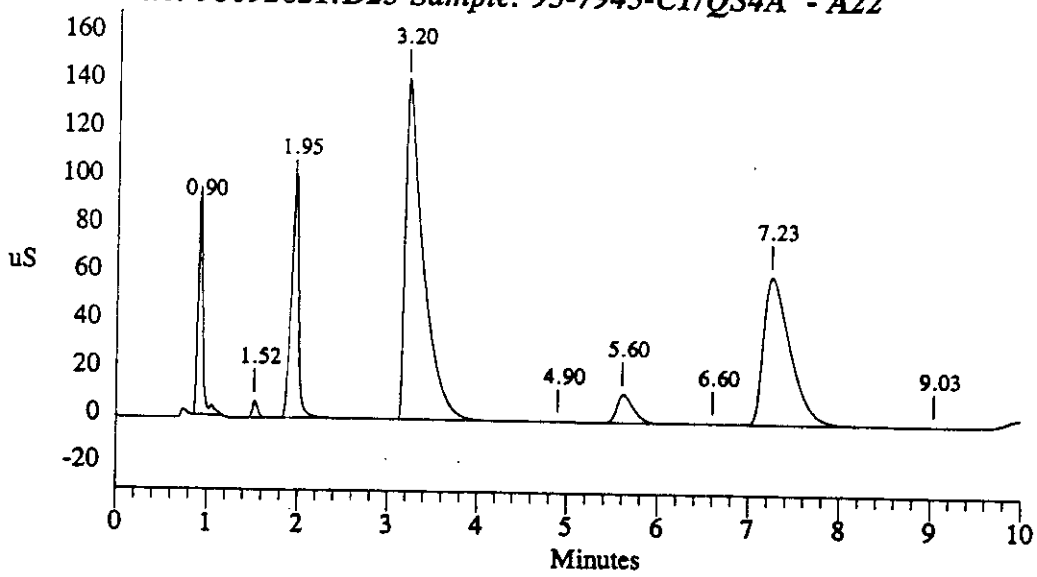
Sample Name: 95-7945-C1/QS4A - A22 Date: 09/28/1995 17:24:57
Data File : C:\DX\DATA\9509282\95092821.D23
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 23 Vial:A22 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.90	FLUORIDE	73.411	75782019	349043027	1	-1.43
2	1.52	CHLORIDE	12.482	6769290	33930372	1	0.00
3	1.95	NITRITE	301.129	94510720	588906542	1	2.44
4	3.20	NITRATE	510.208	141394949	1962512385	1	0.00
5	4.90		0.000	135932	1489387	1	
6	5.60	PHOSPHATE	185.579	11761113	152669538	1	6.43
7	6.60		0.000	12954	184249	1	
8	7.23	SULFATE	451.300	61781466	1266657419	1	0.00
9	9.03		0.000	8901	150599	1	
		Totals	1534.108	392157344	4355543518		

File: 95092821.D23 Sample: 95-7945-C1/QS4A - A22



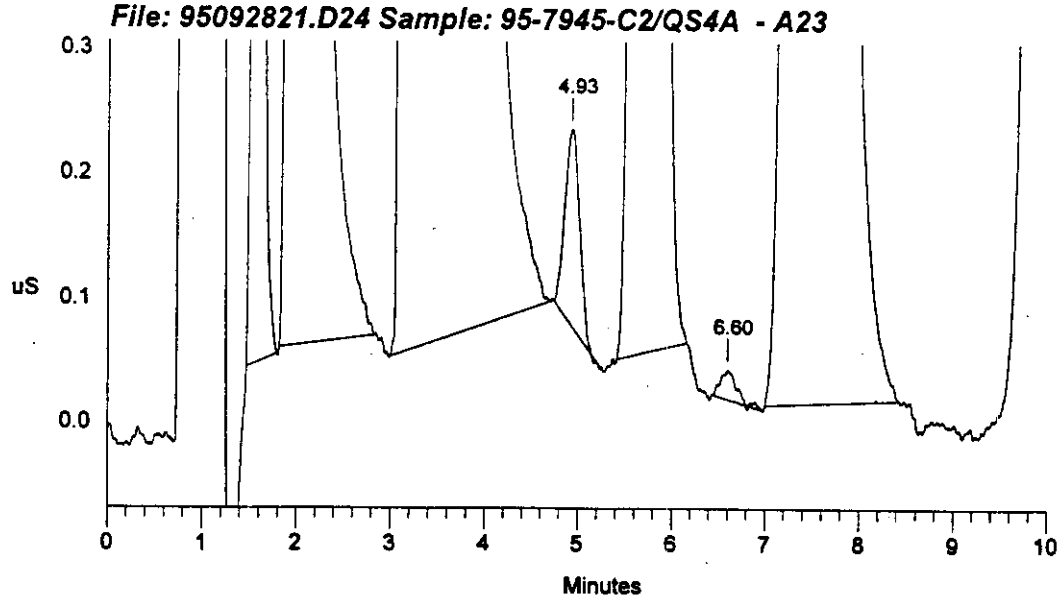
Data Reprocessed On 09/28/1995 19:23:26

Sample Name:	95-7945-C2/QS4A - A23	Date:	09/28/1995 17:37:44
Data File :	C:\DX\DATA\9509282\95092821.D24		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 24 Vial:A23	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	53.695	62443691	252945958	1	0.02
2	1.55	CHLORIDE	12.547	7332693	34125912	1	0.00
3	1.98	NITRITE	344.739	102511806	676204419	1	1.95
4	3.10	BROMIDE	-34771.558	394288520	5415297894	1	5.38
5	4.93		0.000	156869	1716989	1	
6	5.67	PHOSPHATE	159.924	10082060	129183377	1	-0.58
7	6.60		0.000	23291	289102	1	
8	7.37	SULFATE	245.094	27450977	541153863	1	0.00
		Totals	-33955.559	604289907	7050917515		



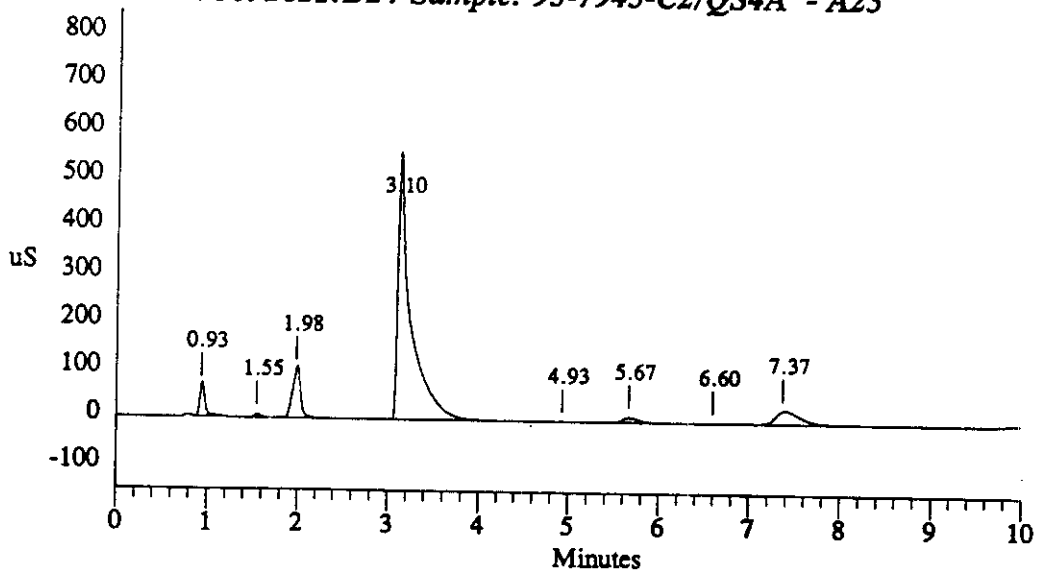
Sample Name: 95-7945-C2/QS4A - A23 Date: 09/28/1995 17:37:44
Data File : C:\DX\DATA\9509282\95092821.D24
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 24 Vial:A23 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	59.205	63124096	279701440	1	0.02
2	1.55	CHLORIDE	14.582	7606543	40270268	1	0.00
3	1.98	NITRITE	344.999	102514223	676724812	1	1.95
4	3.10	BROMIDE	-34771.558	394288520	5415297894	1	5.38
5	4.93		0.000	156869	1716989	1	
6	5.67	PHOSPHATE	161.453	10102633	130559510	1	-0.58
7	6.60		0.000	23291	289102	1	
8	7.37	SULFATE	245.511	27456420	542253306	1	0.00
		Totals	-33945.809	605272595	7086813322		

File: 95092821.D24 Sample: 95-7945-C2/QS4A - A23



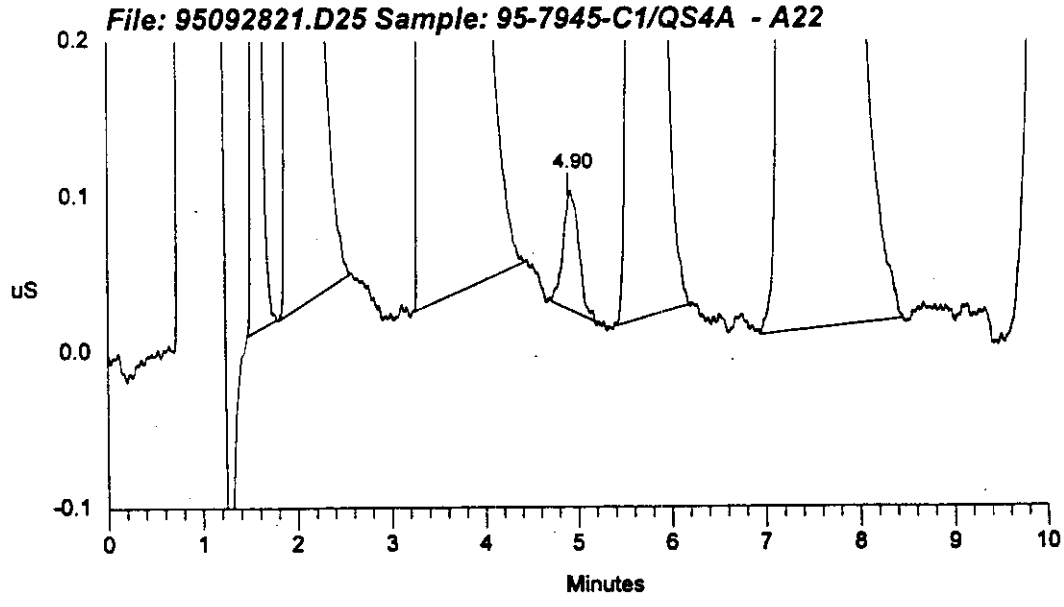
Data Reprocessed On 09/28/1995 19:23:56

Sample Name: 95-7945-C1/QS4A - A22		Date: 09/28/1995 17:50:21	
Data File : C:\DX\DATA\9509282\95092821.D25			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 25 Vial:A22			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	70.563	47556404	164088458	1	-1.05
2	1.57	CHLORIDE	11.581	3714091	14088296	1	0.00
3	1.97	NITRITE	304.789	54419251	294022385	1	0.02
4	3.37	NITRATE	852.689	71318916	888096393	1	0.00
5	4.90		0.000	67064	879569	1	
6	5.70	PHOSPHATE	179.097	5360313	68749090	1	2.97
7	7.40	SULFATE	508.014	30717678	564855787	1	0.00
		Totals	1926.734	213153718	1994779978		



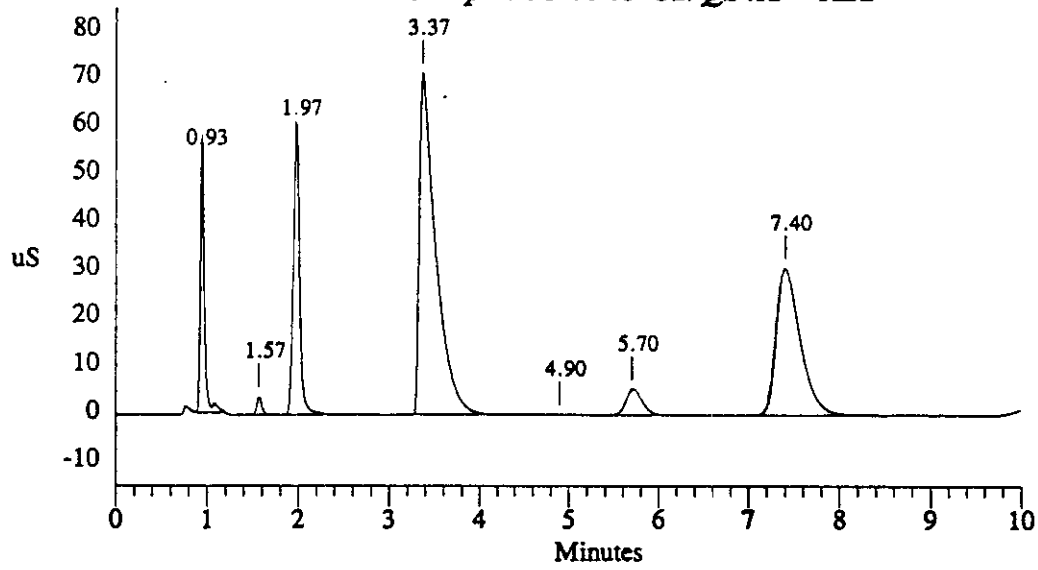
Sample Name: 95-7945-C1/QS4A - A22 Date: 09/28/1995 17:50:21
Data File : C:\DX\DATA\9509282\95092821.D25
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 25 Vial:A22 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	76.396	47877520	178106150	1	-1.05
2	1.57	CHLORIDE	13.054	3793461	16245994	1	0.00
3	1.97	NITRITE	305.865	54425296	295080826	1	0.02
4	3.37	NITRATE	853.419	71321918	889327406	1	0.00
5	4.90		0.000	67064	879569	1	
6	5.70	PHOSPHATE	180.656	5366432	69390103	1	2.97
7	7.40	SULFATE	508.014	30717678	564855787	1	0.00
		Totals	1937.404	213569370	2013885837		

File: 95092821.D25 Sample: 95-7945-C1/QS4A - A22



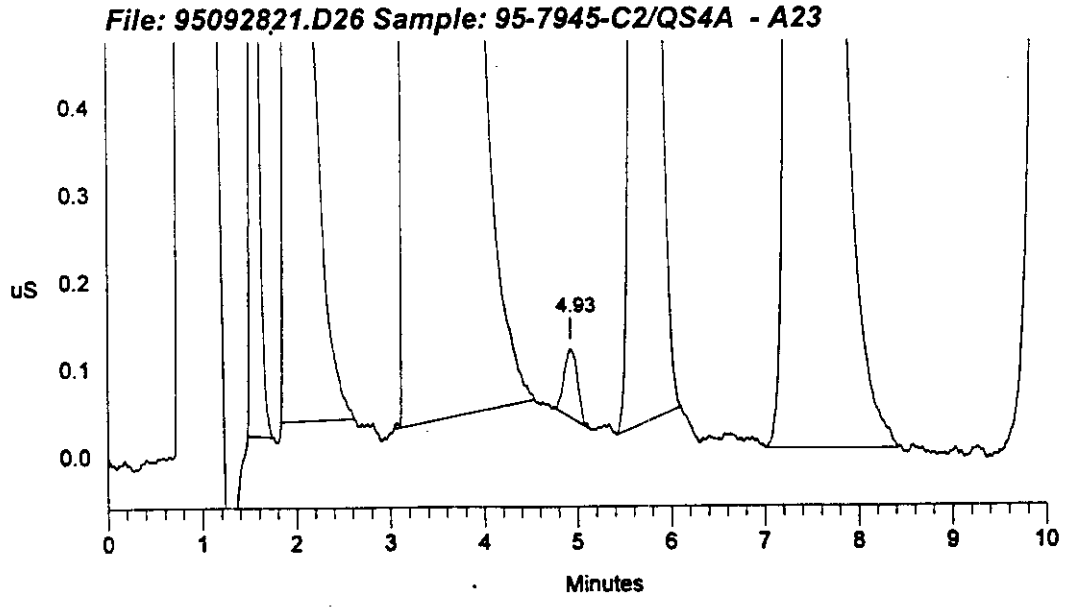
Data Reprocessed On 09/28/1995 19:43:24

Sample Name: 95-7945-C2/QS4A - A23		Date: 09/28/1995 18:02:58	
Data File : C:\DX\DATA\9509282\95092821.D26			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 26 Vial:A23			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	57.577	44775302	132956483	1	0.36
2	1.55	CHLORIDE	12.869	3765130	15975352	1	0.00
3	1.97	NITRITE	346.943	64950588	335546994	1	1.09
4	3.20	NITRATE	780.952	176639933	2457983208	1	0.00
5	4.93		0.000	78121	775158	1	
6	5.70	PHOSPHATE	151.784	4354101	57610176	1	0.00
7	7.47	SULFATE	237.802	13151715	239680925	1	0.00
		Totals	1587.927	307714889	3240528298		



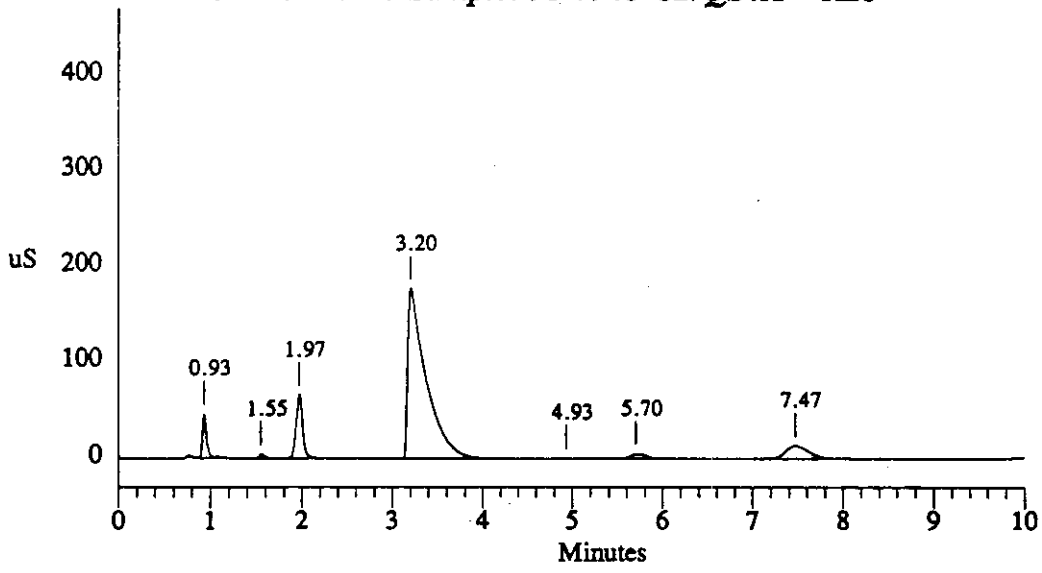
Sample Name: 95-7945-C2/QS4A - A23 Date: 09/28/1995 18:02:58
Data File : C:\DX\DATA\9509282\95092821.D26
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 26 Vial:A23 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	62.859	45152654	145608045	1	0.02
2	1.55	CHLORIDE	15.621	3928159	20022121	1	0.00
3	1.97	NITRITE	347.566	64970587	336160683	1	1.09
4	3.20	NITRATE	780.069	176651856	2459270464	1	0.00
5	4.93	PHOSPHATE	5.779	78121	775158	1	-6.24
6	5.70		0.000	4370273	58653053	1	
7	7.47	SULFATE	238.280	13154031	240202396	1	0.00
		Totals	1450.173	308305681	3260691920		

File: 95092821.D26 Sample: 95-7945-C2/QS4A - A23



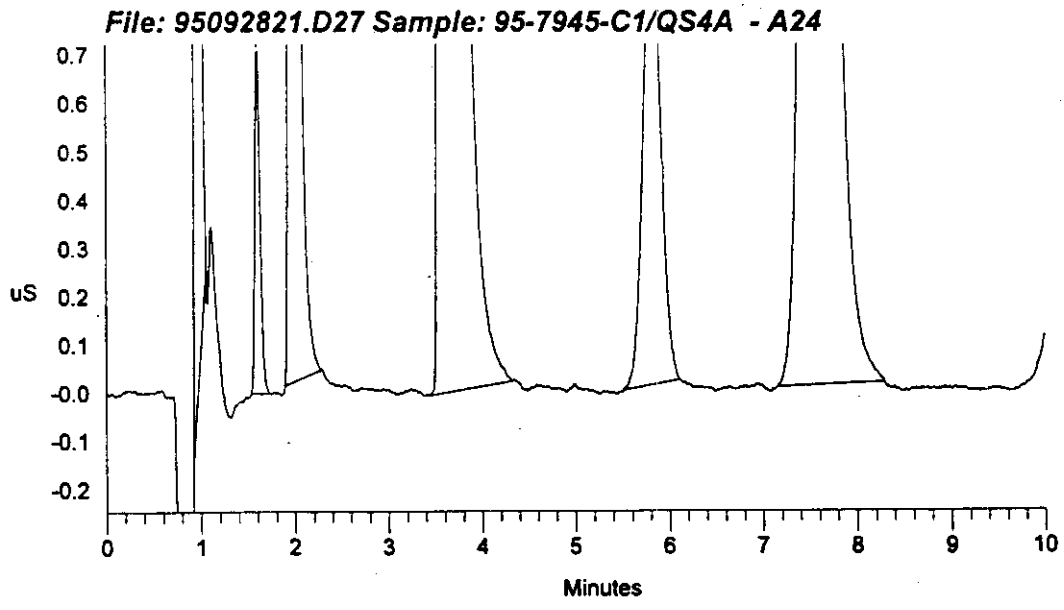
Data Reprocessed On 09/28/1995 19:47:38

Sample Name: 95-7945-C1/QS4A - A24		Date: 09/28/1995 18:19:26	
Data File : C:\DX\DATA\9509282\95092821.D27			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 27 Vial:A24			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	70.488	9250216	29463713	1	0.35
2	1.60	CHLORIDE	19.141	698435	2828569	1	0.00
3	1.98	NITRITE	292.595	10153307	53120344	1	-1.24
4	3.60	NITRATE	949.641	13917191	147786673	1	0.00
5	5.80	PHOSPHATE	187.884	955605	12792591	1	-2.01
6	7.57	SULFATE	516.340	5387462	98512451	1	0.00
		Totals	2036.090	40362216	344504341		

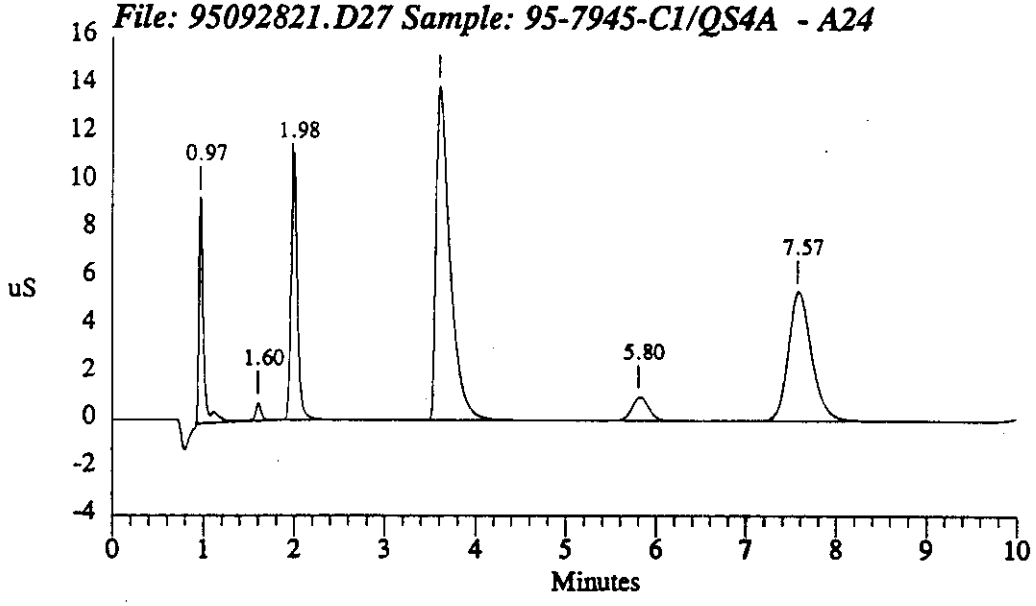


Sample Name: 95-7945-C1/QS4A - A24 Date: 09/28/1995 18:19:26
Data File : C:\DX\DATA\9509282\95092821.D27
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 27 Vial:A24 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	80.993	9371168	34438650	2	0.35
2	1.60	CHLORIDE	23.142	739919	3983110	2	0.00
3	1.98	NITRITE	300.106	10179160	54581142	1	-1.24
4	3.60	NITRATE	953.263	13920604	148392193	1	0.00
5	5.80	PHOSPHATE	197.855	971301	13552582	1	-2.01
6	7.57	SULFATE	521.696	5400999	99594891	1	0.00
		Totals	2077.057	40583152	354542568		



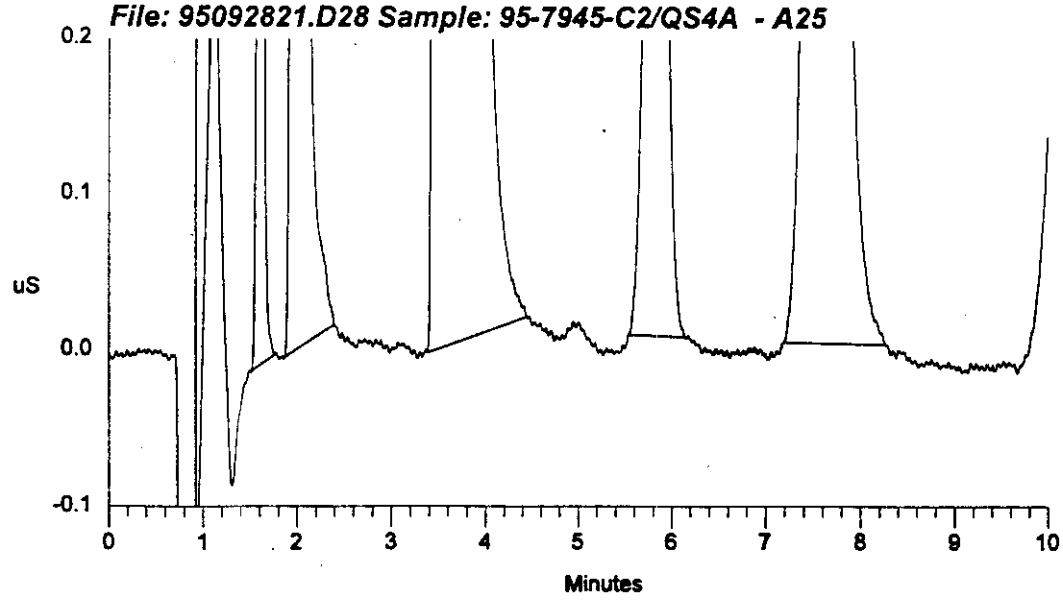
Data Reprocessed On 09/28/1995 19:51:51

Sample Name:	95-7945-C2/QS4A - A25	Date:	09/28/1995 18:35:54
Data File :	C:\DX\DATA\9509282\95092821.D28		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 28 Vial:A25	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	59.067	7086969	24057554	1	0.35
2	1.60	CHLORIDE	21.105	800424	3394998	1	0.00
3	1.98	NITRITE	332.626	11684331	60907279	1	-1.24
4	3.50	NITRATE	2351.727	34972648	404530906	1	0.00
5	5.80	PHOSPHATE	161.559	802626	10789763	1	0.79
6	7.60	SULFATE	240.395	2376555	43561040	1	0.00
		Totals	3166.480	57723554	547241541		



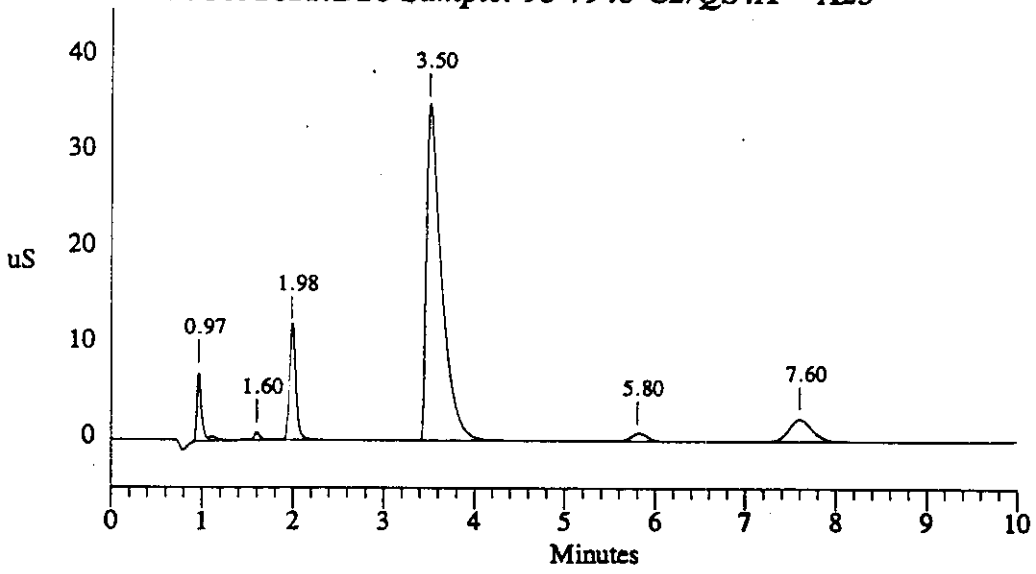
Sample Name: 95-7945-C2/QS4A - A25 Date: 09/28/1995 18:35:54
Data File : C:\DX\DATA\9509282\95092821.D28
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 28 Vial:A25 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	70.167	7196795	29311469	2	0.35
2	1.60	CHLORIDE	25.600	845638	4693032	2	0.00
3	1.98	NITRITE	334.508	11688383	61273362	1	-1.24
4	3.50	NITRATE	2355.745	34976368	405344926	1	0.00
5	5.80	PHOSPHATE	168.974	813942	11353376	1	0.79
6	7.60	SULFATE	244.429	2385730	44353099	1	0.00
		Totals	3199.423	57906856	556329265		

File: 95092821.D28 Sample: 95-7945-C2/QS4A - A25



Data Reprocessed On 09/29/1995 02:21:43

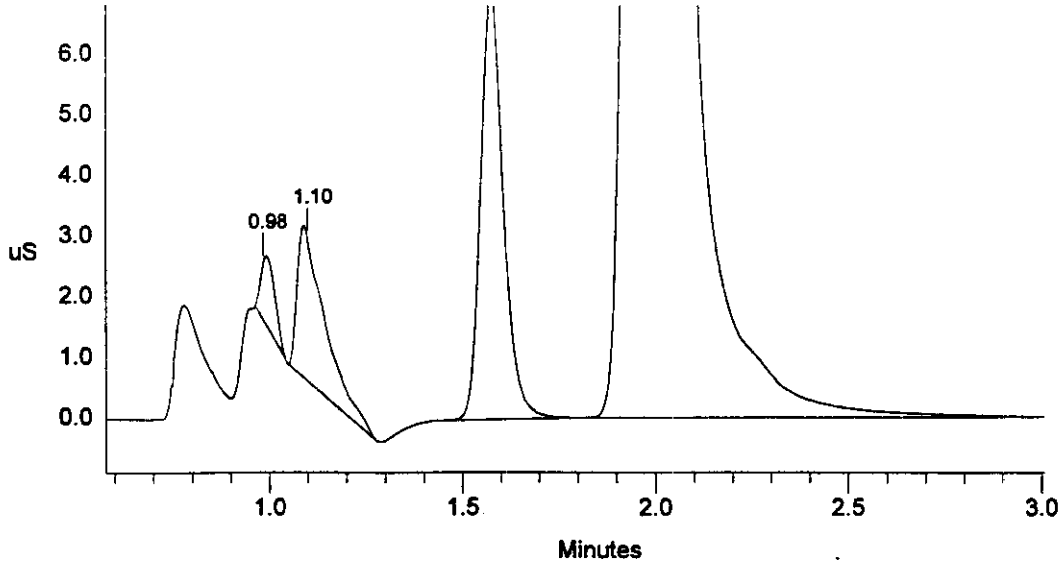
Sample Name: 95-7946-C1/QS4B - A26		Date: 09/28/1995 18:48:42	
Data File : A:\95092821.D29			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 29 Vial:A26			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.58	3.01	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.431	899172	2902483	1	4.26
2	1.10		0.000	2320241	12445462	1	
3	1.57	CHLORIDE	10.939	6643188	29309316	1	0.00
4	2.02	NITRITE	346.379	109175825	679494276	1	2.56
5	3.37	NITRATE	448.292	76352826	966215510	1	0.00
6	4.93		0.000	138989	1520997	1	
7	5.63	PHOSPHATE	229.696	14553788	195272866	1	1.77
8	7.53	SULFATE	42.933	4365632	81015169	1	0.00
		Totals	1079.670	214449661	1968176079		

File: 95092821.D29 Sample: 95-7946-C1/QS4B - A26



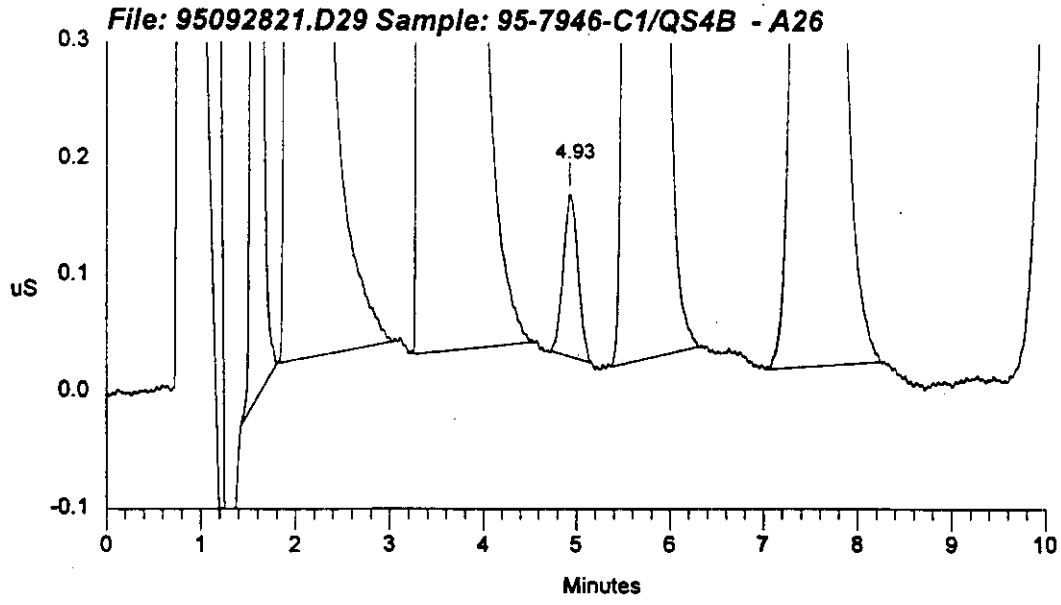
Data Reprocessed On 09/28/1995 19:56:52

Sample Name:	95-7946-C1/QS4B - A26	Date:	09/28/1995 18:48:42
Data File :	C:\DX\DATA\9509282\95092821.D29		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 29 Vial:A26	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.147	680226	1559731	1	4.26
2	1.10		0.000	2320241	12445462	1	
3	1.57	CHLORIDE	10.939	6643188	29309316	1	0.00
4	2.02	NITRITE	346.379	109175825	679494276	1	2.56
5	3.37	NITRATE	448.292	76352826	966215510	1	0.00
6	4.93		0.000	138989	1520997	1	
7	5.63	PHOSPHATE	229.696	14553788	195272866	1	1.77
8	7.53	SULFATE	42.933	4365632	81015169	1	0.00
		Totals	1079.386	214230714	1966833327		



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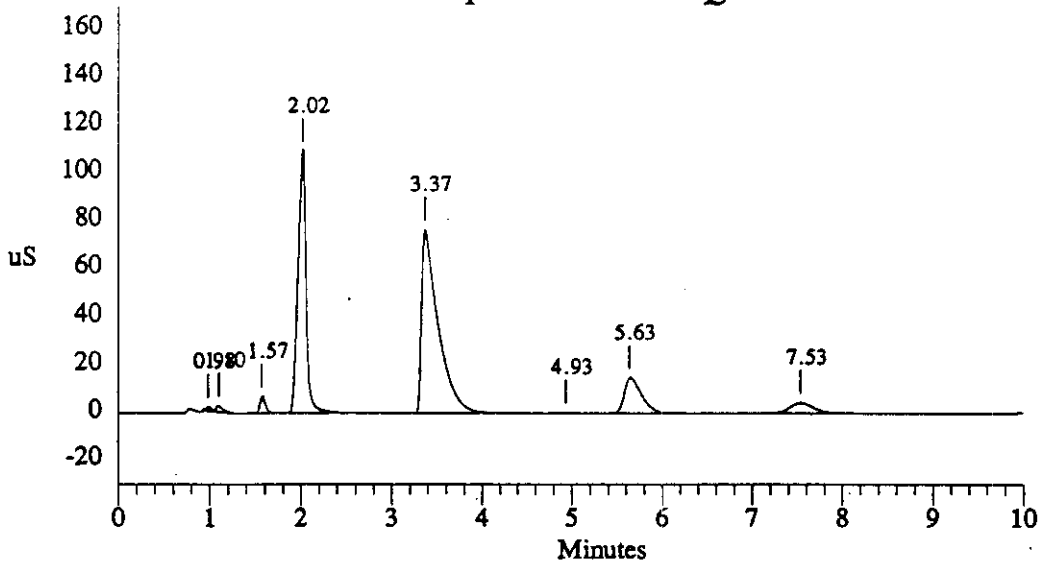
Sample Name: 95-7946-C1/QS4B  - A26          Date: 09/28/1995 18:48:42
Data File  : C:\DX\DATA\9509282\95092821.D29
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 29  Vial:A26        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.365	1699005	7311955	2	4.26
2	1.10		0.000	2578608	14747819	2	
3	1.57	CHLORIDE	12.217	6788010	33135918	1	0.00
4	2.02	NITRITE	346.623	109177612	679985027	1	2.56
5	3.37	NITRATE	448.395	76353611	966604162	1	0.00
6	4.93		0.000	138709	1491077	1	
7	5.63	PHOSPHATE	229.939	14555721	195517064	1	1.77
8	7.53	SULFATE	43.327	4372466	81802795	1	0.00
		Totals	1082.867	215663742	1980595817		

File: 95092821.D29 Sample: 95-7946-C1/QS4B - A26



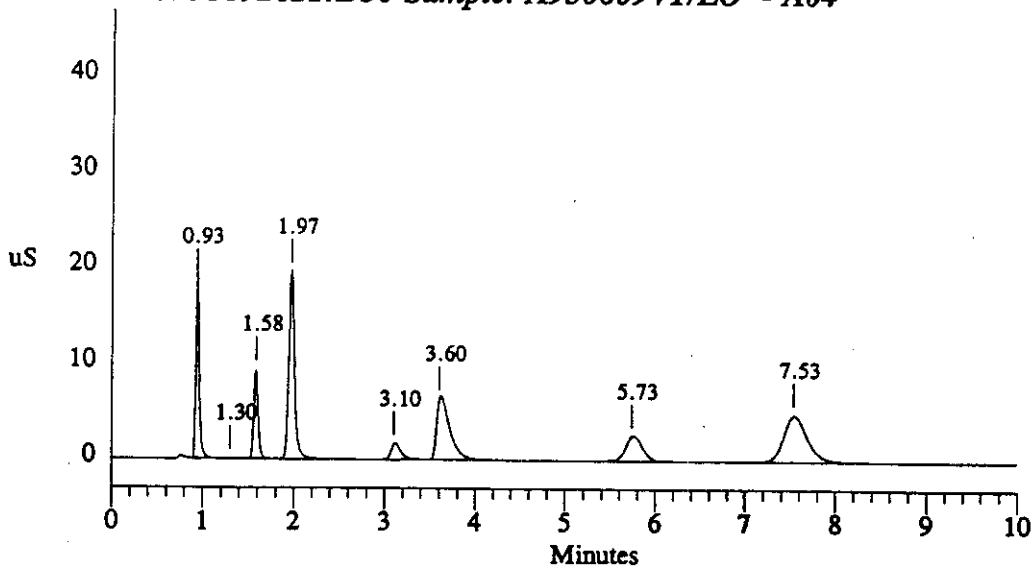
Sample Name: A950609V1/LO - A04 Date: 09/28/1995 19:01:18
Data File : C:\DX\DATA\9509282\95092821.D30
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 30 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	23.674	18462702	52161519	1	-2.09
2	1.30		0.000	53152	272588	1	
3	1.58	CHLORIDE	23.265	9346528	31382665	1	0.00
4	1.97	NITRITE	94.616	19544632	88252039	1	-1.04
5	3.10	BROMIDE	24.801	1600108	12984577	1	3.16
6	3.60	NITRATE	91.123	6368994	67425054	1	0.00
7	5.73	PHOSPHATE	94.942	2574350	34965329	1	-3.14
8	7.53	SULFATE	95.018	4916526	90197188	1	0.00
		Totals	447.440	62866991	377640961		

File: 95092821.D30 Sample: A950609V1/LO - A04



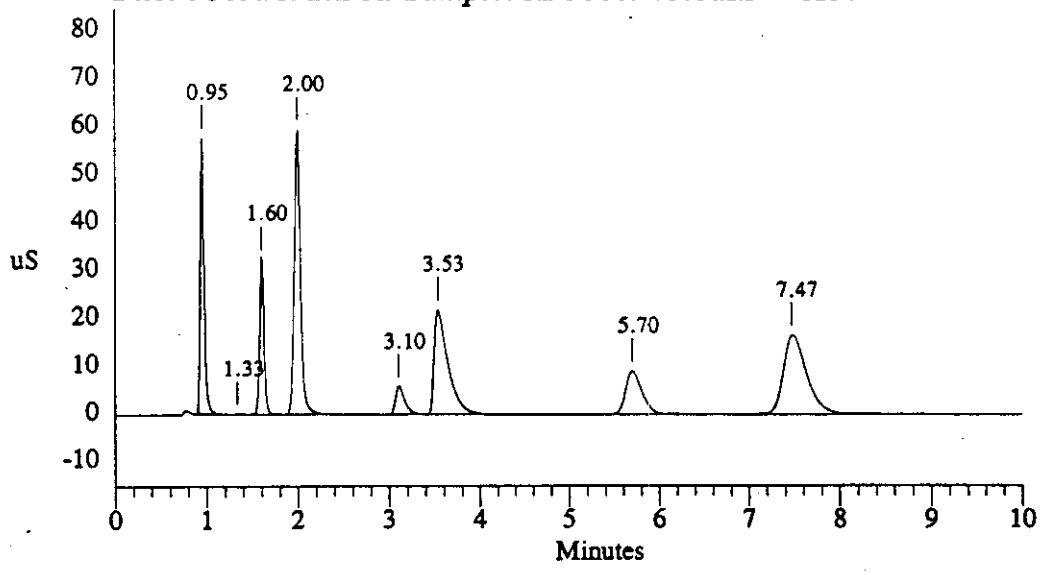
Sample Name: A950609V2/MID - A04 Date: 09/28/1995 19:14:20
Data File : C:\DX\DATA\9509282\95092821.D31
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 31 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	24.433	57744137	170664397	1	-1.38
2	1.33		0.000	122990	698129	1	
3	1.60	CHLORIDE	24.796	32524143	112415396	1	0.00
4	2.00	NITRITE	99.512	59629572	287869656	1	-0.41
5	3.10	BROMIDE	25.445	5897987	42245945	1	2.08
6	3.53	NITRATE	96.373	21886085	233148789	1	0.00
7	5.70	PHOSPHATE	97.118	9153138	116502408	1	-1.89
8	7.47	SULFATE	97.332	16598131	299875683	1	0.00
		Totals	465.011	203556184	1263420403		

File: 95092821.D31 Sample: A950609V2/MID - A04



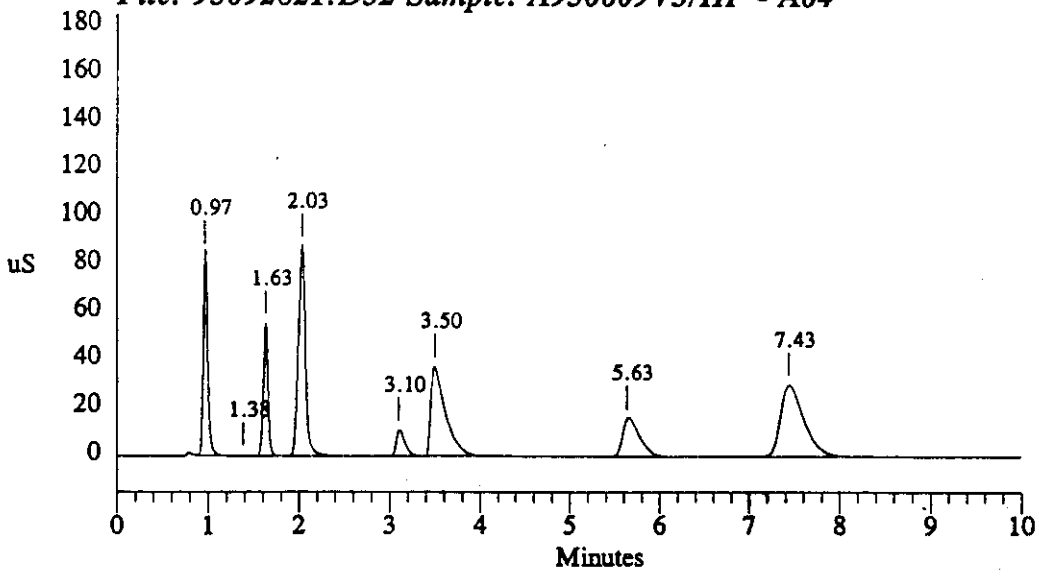
Sample Name: A950609V3/HI - A04 Date: 09/28/1995 19:27:44
Data File : C:\DX\DATA\9509282\95092821.D32
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 32 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	24.550	84459481	290263805	1	-1.69
2	1.38		0.000	176449	948765	1	
3	1.63	CHLORIDE	24.553	55168505	199670855	1	0.00
4	2.03	NITRITE	98.292	87582122	478561835	1	-0.81
5	3.10	BROMIDE	25.195	10588834	73333607	1	0.00
6	3.50	NITRATE	95.003	37079194	409268997	1	0.00
7	5.63	PHOSPHATE	98.847	15692320	212982869	1	-2.11
8	7.43	SULFATE	98.547	29846712	544518171	1	0.00
		Totals	464.988	320593617	2209548903		

File: 95092821.D32 Sample: A950609V3/HI - A04



Data Reprocessed On 09/28/1995 20:45:28

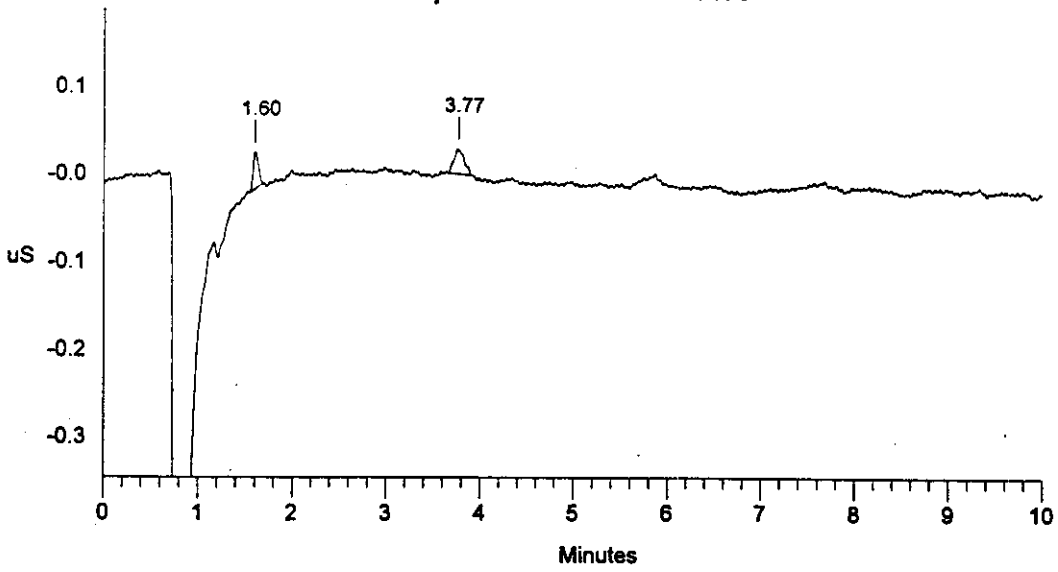
Sample Name: A9509282B3 - A03		Date: 09/28/1995 19:44:12	
Data File : C:\DX\DATA\9509282\95092821.D33			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 33 Vial:A03			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.60	CHLORIDE	0.099	42369	162567	1	0.00
2	3.77	NITRATE	0.222	28693	215307	1	0.00
		Totals	0.321	71063	377874		

File: 95092821.D33 Sample: A9509282B3 - A03

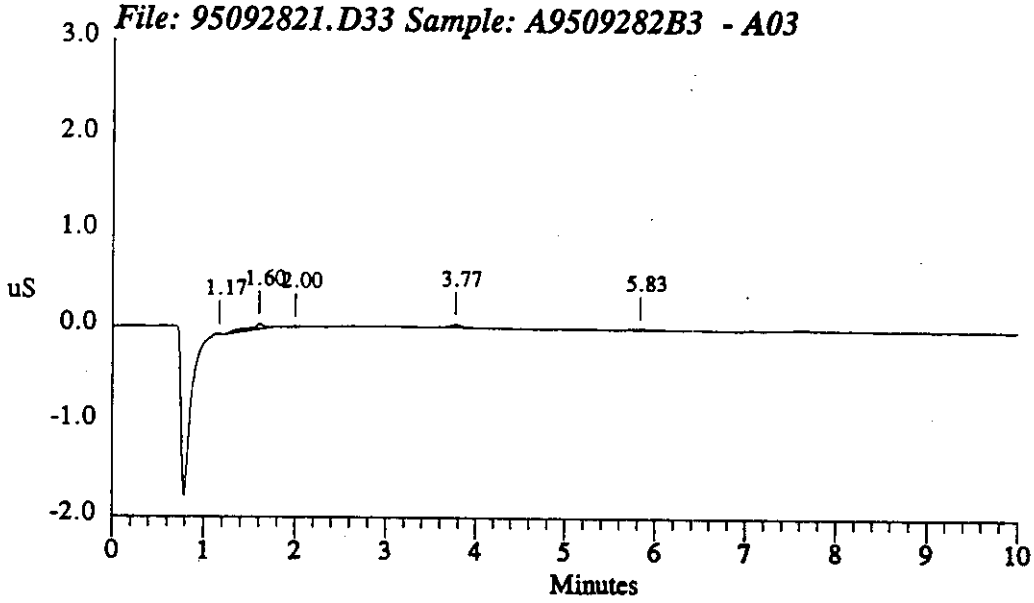


Sample Name: A9509282B3 - A03 Date: 09/28/1995 19:44:12
Data File : C:\DX\DATA\9509282\95092821.D33
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 33 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	17755	59057	1	
2	1.60	CHLORIDE	0.117	58749	694365	1	0.00
3	2.00	NITRITE	0.195	8719	68997	1	-0.41
4	3.77	NITRATE	0.224	30989	245958	1	0.00
5	5.83	PHOSPHATE	0.211	11170	188769	1	-5.81
		Totals	0.747	127382	1257146		



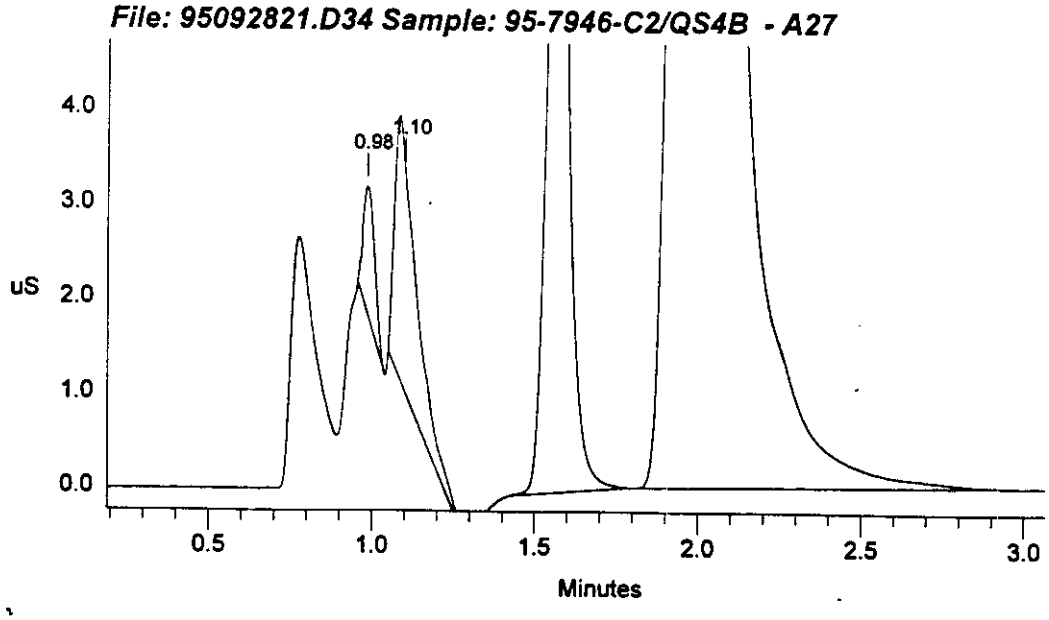
Data Reprocessed On 09/29/1995 02:23:33

Sample Name: 95-7946-C2/QS4B - A27		Date: 09/28/1995 19:57:01	
Data File : A:\95092821.D34			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 34 Vial:A27			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.19	3.07	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.530	1320637	3372045	1	5.38
2	1.10		0.000	2352160	13111311	1	
3	1.55	CHLORIDE	14.190	7673041	39083693	1	0.00
4	2.02	NITRITE	442.474	123653316	873262998	1	3.66
5	3.30	NITRATE	512.675	86149077	1289370128	1	0.00
6	4.90		0.000	168568	1888531	1	
7	5.53	PHOSPHATE	412.621	29136414	423057519	1	1.98
8	7.50	SULFATE	36.045	3515859	67275294	1	0.00
		Totals	1419.536	253969072	2710421518		



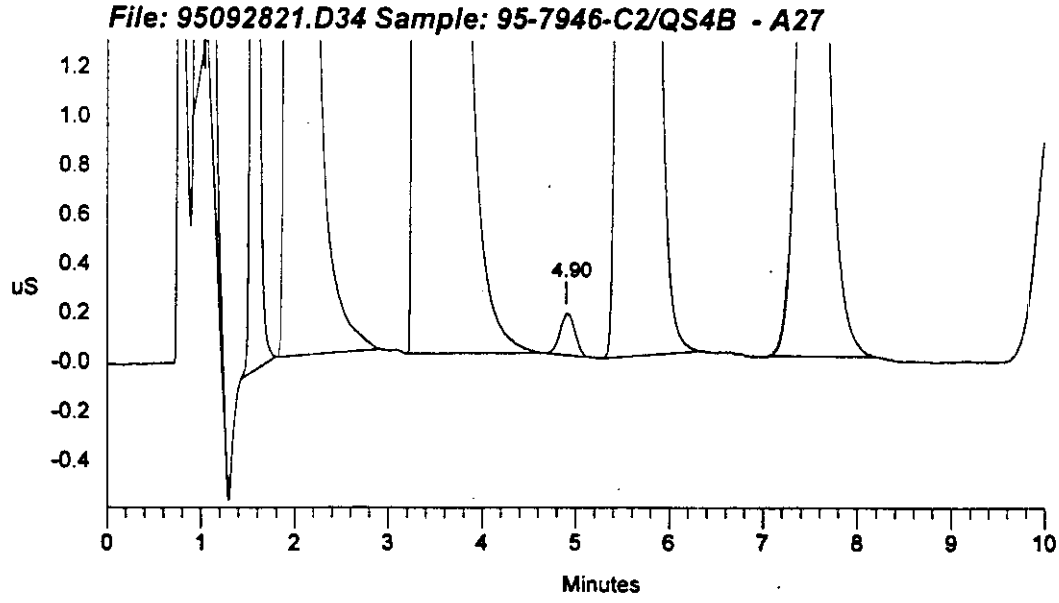
Data Reprocessed On 09/28/1995 20:48:46

Sample Name: 95-7946-C2/QS4B - A27		Date: 09/28/1995 19:57:01	
Data File : C:\DX\DATA\9509282\95092821.D34			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 34 Vial:A27			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.448	2036952	7704189	1	5.38
2	1.10		0.000	2352160	13111311	1	
3	1.55	CHLORIDE	14.190	7673041	39083693	1	0.00
4	2.02	NITRITE	442.474	123653316	873262998	1	3.66
5	3.30	NITRATE	512.675	86149077	1289370128	1	0.00
6	4.90		0.000	168568	1888531	1	
7	5.53	PHOSPHATE	412.621	29136414	423057519	1	1.98
8	7.50	SULFATE	36.045	3515859	67275294	1	0.0[illegible]
		Totals	1420.453	254685387	2714753662		



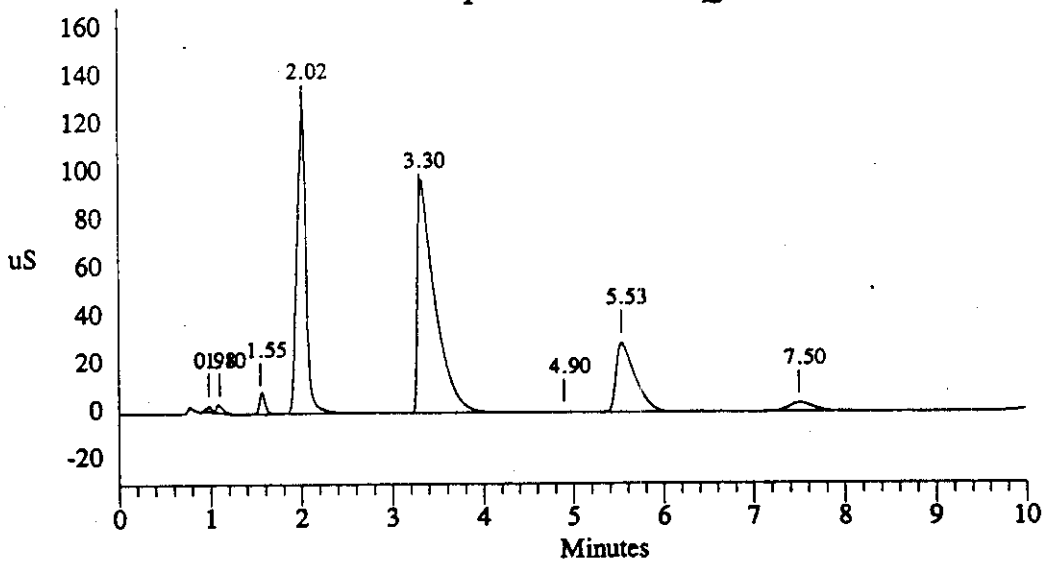
Sample Name:	95-7946-C2/QS4B - A27 Date: 09/28/1995 19:57:01
Data File :	C:\DX\DATA\9509282\95092821.D34
Method :	c:\dx\method\2anions2.met
ACI Address:	1 System: 2 Inject#: 34 Vial:A27 Detector:PED-Cond.
Analyst :	MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.832	2351386	9520606	2	5.38
2	1.10		0.000	3046488	19595971	2	
3	1.55	CHLORIDE	16.020	7899789	44642501	1	0.00
4	2.02	NITRITE	442.868	123656639	874060342	1	3.66
5	3.30	NITRATE	512.675	86149077	1289370128	1	0.00
6	4.90		0.000	167053	1847908	1	
7	5.53	PHOSPHATE	413.467	29142127	424453437	1	1.98
8	7.50	SULFATE	36.388	3521730	67957141	1	0.00
		Totals	1424.249	255934290	2731448033		

File: 95092821.D34 Sample: 95-7946-C2/QS4B - A27



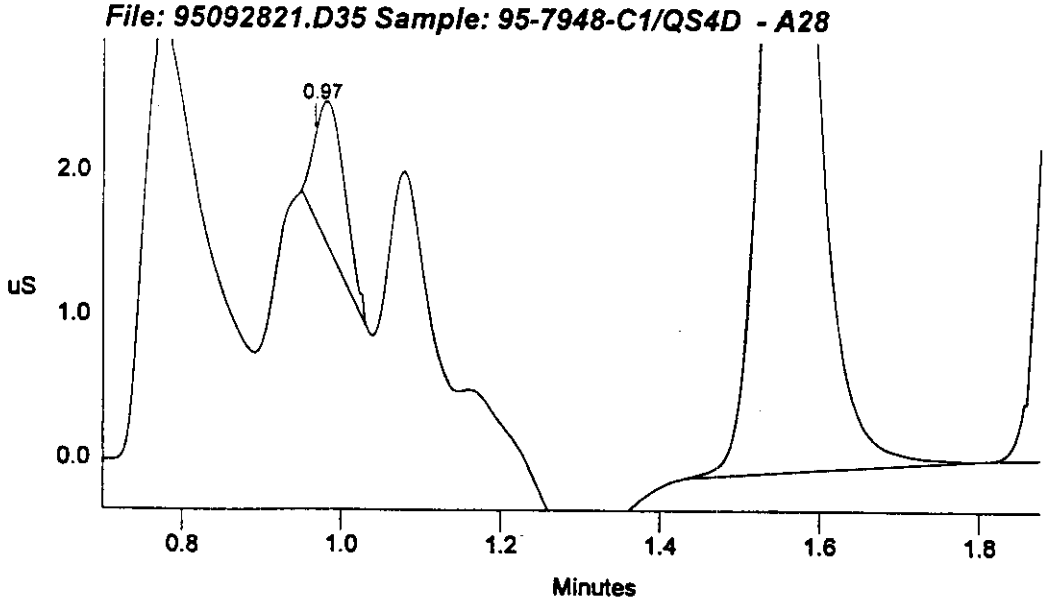
Data Reprocessed On 09/29/1995 02:35:29

Sample Name: 95-7948-C1/QS4D - A28		Date: 09/28/1995 20:09:49	
Data File : A:\95092821.D35			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 35 Vial:A28			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.70	1.88	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	1.376	562656	2643590	1	3.59
2	1.55	CHLORIDE	10.755	6193383	28758955	1	0.00
3	2.00	NITRITE	344.802	107831053	676330756	1	2.81
4	3.37	NITRATE	406.189	61422370	823097797	1	0.00
5	4.87		0.000	39942	487062	1	
6	5.40	PHOSPHATE	519.458	42957589	755050855	1	-2.45
7	7.40	SULFATE	182.522	19856355	384579827	1	0.00
		Totals	1465.102	238863348	2670948841		



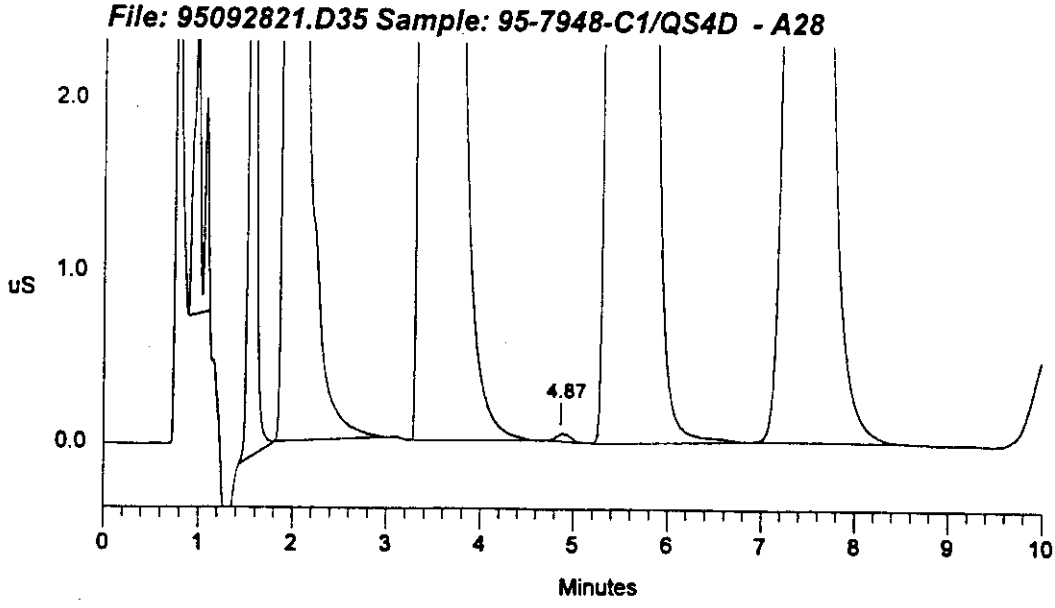
Data Reprocessed On 09/28/1995 20:50:44

Sample Name: 95-7948-C1/QS4D - A28		Date: 09/28/1995 20:09:49	
Data File : C:\DX\DATA\9509282\95092821.D35			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 35 Vial:A28			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.190	1496523	11212090	1	3.59
2	1.55	CHLORIDE	10.755	6193383	28758955	1	0.00
3	2.00	NITRITE	344.802	107831053	676330756	1	2.81
4	3.37	NITRATE	406.189	61422370	823097797	1	0.00
5	4.87		0.000	39942	487062	1	
6	5.40	PHOSPHATE	519.458	42957589	755050855	1	-2.45
7	7.40	SULFATE	182.522	19856355	384579827	1	0.00
		Totals	1466.916	239797215	2679517340		



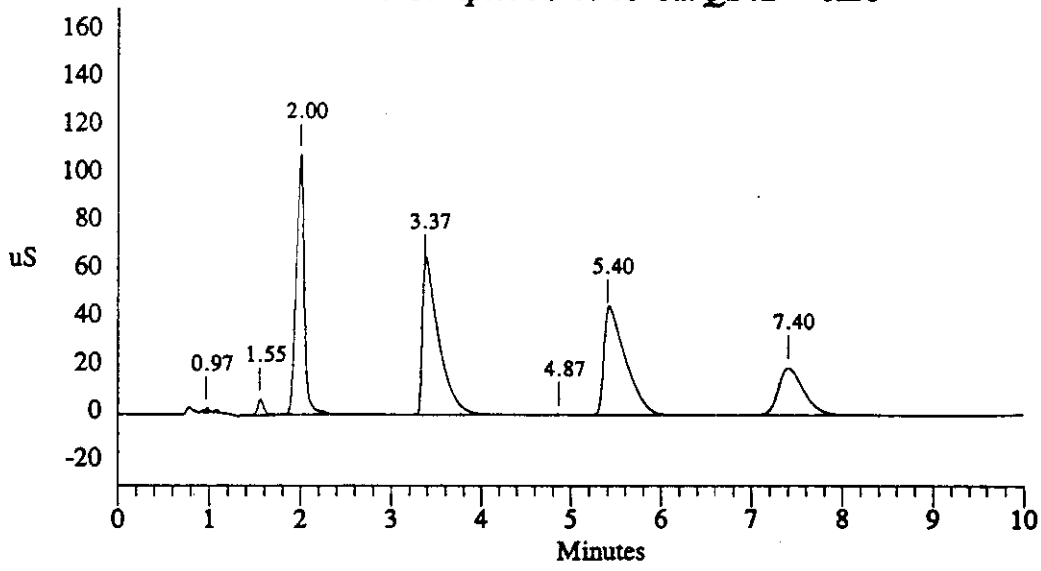
Sample Name: 95-7948-C1/QS4D - A28 Date: 09/28/1995 20:09:49
Data File : C:\DX\DATA\9509282\95092821.D35
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 35 Vial:A28 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.190	1496523	11212090	1	3.59
2	1.55	CHLORIDE	12.891	6467140	35162967	1	0.00
3	2.00	NITRITE	344.802	107831053	676330756	1	2.81
4	3.37	NITRATE	406.189	61422370	823097797	1	0.00
5	4.87		0.000	39942	487062	1	
6	5.40	PHOSPHATE	519.458	42957589	755050855	1	-2.45
7	7.40	SULFATE	182.705	19858398	385014274	1	0.00
		Totals	1469.235	240073014	2686355800		

File: 95092821.D35 Sample: 95-7948-C1/QS4D - A28



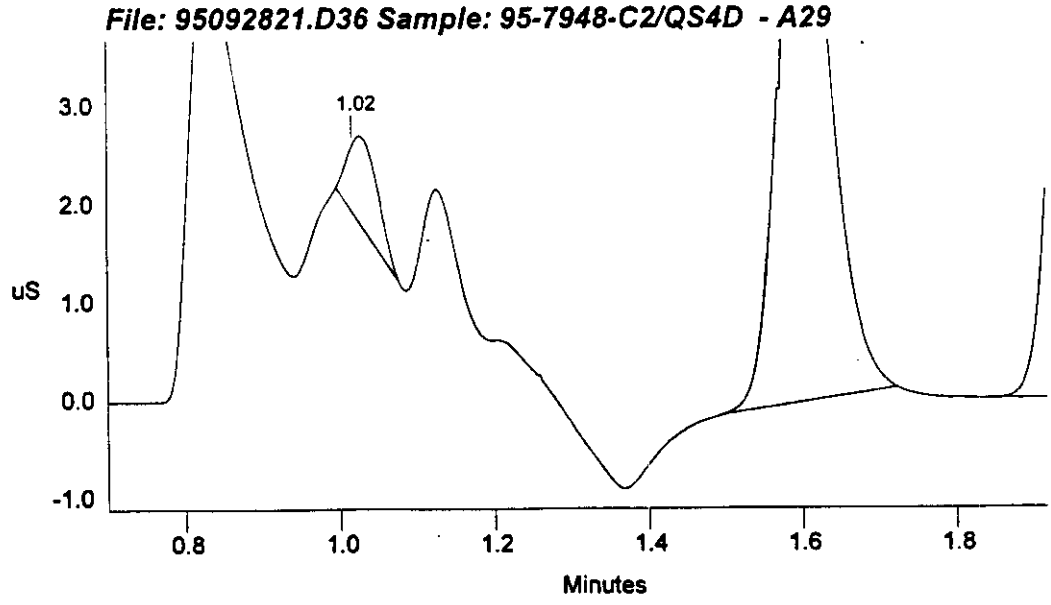
Data Reprocessed On 09/29/1995 02:38:19

Sample Name: 95-7948-C2/QS4D - A29		Date: 09/28/1995 20:22:38	
Data File : A:\95092821.D36			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 36 Vial:A29			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.70	1.92	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	1.336	645200	2453203	1	5.54
2	1.60	CHLORIDE	11.065	6508116	29685082	1	0.00
3	2.05	NITRITE	390.009	115714250	767234834	1	2.08
4	3.40	NITRATE	441.907	70317995	942554853	1	0.00
5	4.90		0.000	47351	555070	1	
6	5.40	PHOSPHATE	467.061	55989001	1023986465	1	-3.41
7	7.47	SULFATE	96.019	9340676	190416708	1	0.00
		Totals	1407.397	258562589	2956886216		



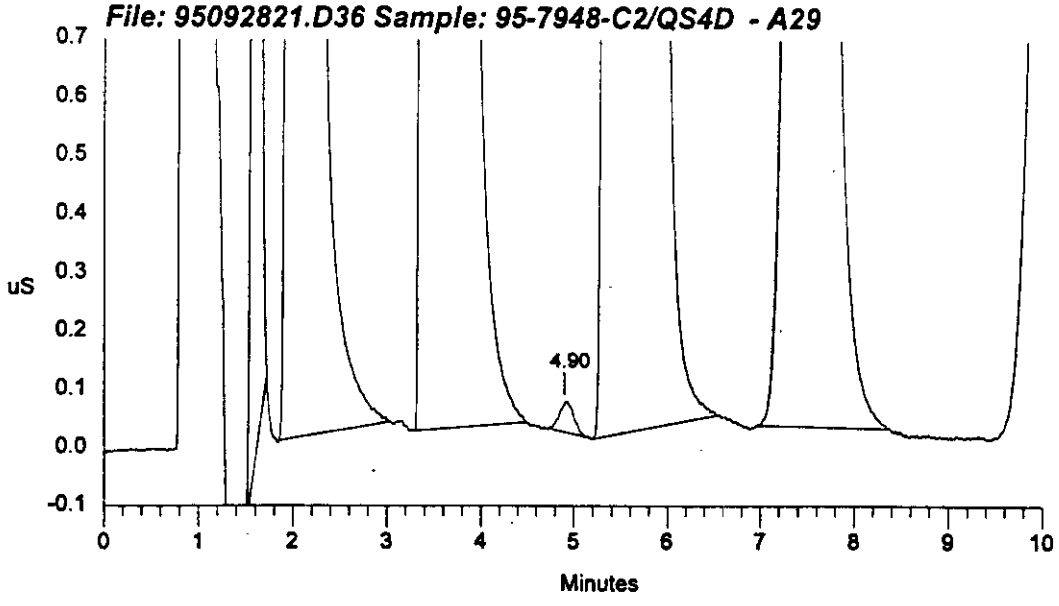
Data Reprocessed On 09/28/1995 20:58:32

Sample Name: 95-7948-C2/QS4D - A29		Date: 09/28/1995 20:22:38	
Data File : C:\DX\DATA\9509282\95092821.D36			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 36 Vial:A29			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	2.132	1336771	6210598	1	5.54
2	1.60	CHLORIDE	11.065	6508116	29685082	1	0.00
3	2.05	NITRITE	390.009	115714250	767234834	1	2.08
4	3.40	NITRATE	441.907	70317995	942554853	1	0.00
5	4.90		0.000	47351	555070	1	
6	5.40	PHOSPHATE	467.061	55989001	1023986465	1	-3.41
7	7.47	SULFATE	96.019	9340676	190416708	1	0.00
		Totals	1408.193	259254160	2960643611		



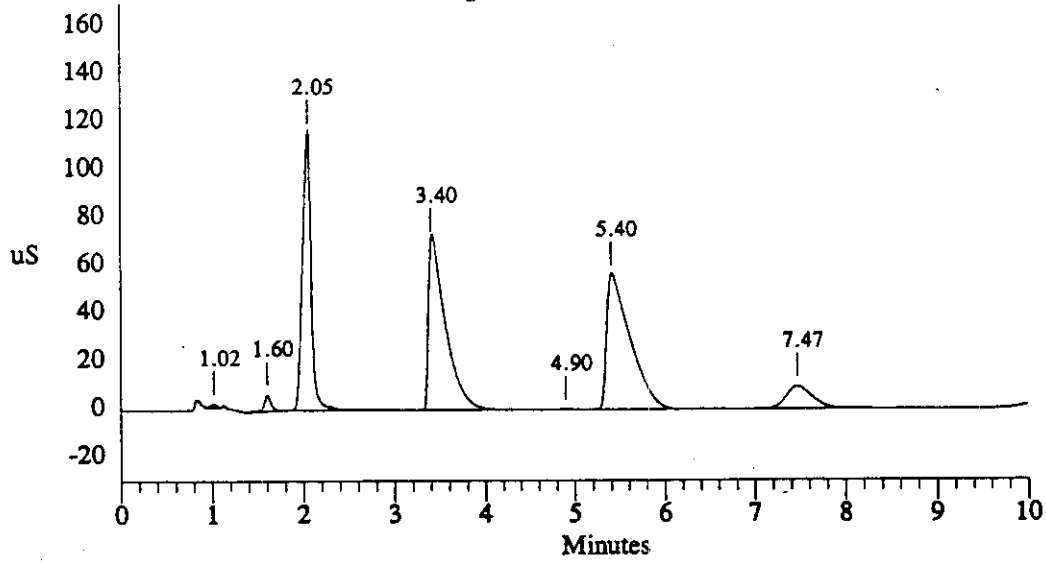
Sample Name: 95-7948-C2/QS4D - A29 Date: 09/28/1995 20:22:38
Data File : C:\DX\DATA\9509282\95092821.D36
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 36 Vial:A29 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	2.132	1336771	6210598	1	5.54
2	1.60	CHLORIDE	13.885	6910665	38160276	1	0.00
3	2.05	NITRITE	390.450	115719601	768123779	1	2.08
4	3.40	NITRATE	442.037	70319219	943027115	1	0.00
5	4.90		0.000	47351	555070	1	
6	5.40	PHOSPHATE	466.529	55992671	1025230226	1	-3.41
7	7.47	SULFATE	96.386	9348072	191195557	1	0.00
		Totals	1411.419	259674350	2972502622		

File: 95092821.D36 Sample: 95-7948-C2/QS4D - A29



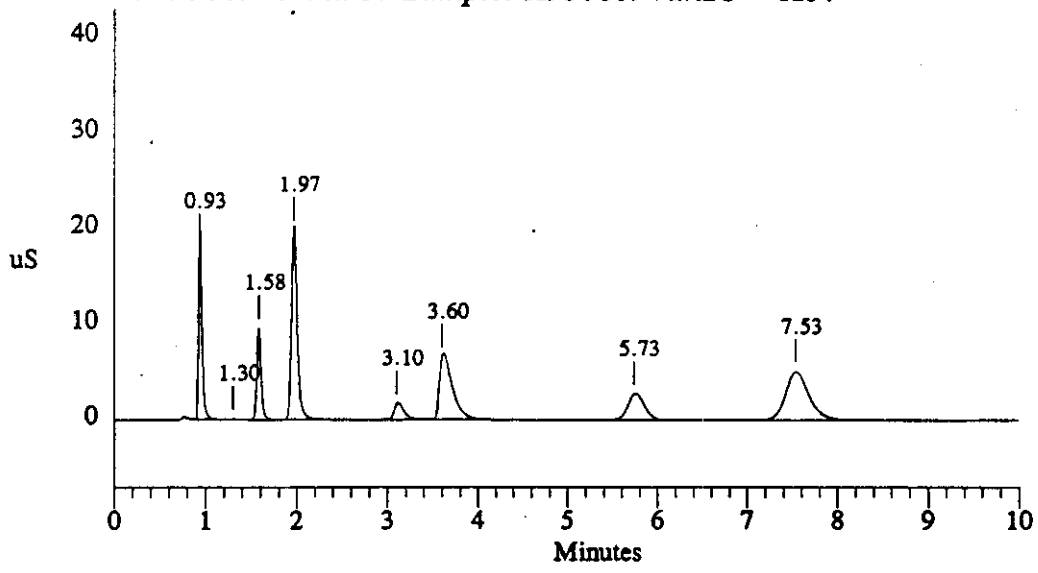
Sample Name: A950609V1/LO - A04 Date: 09/28/1995 20:35:17
Data File : C:\DX\DATA\9509282\95092821.D37
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 37 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	24.009	18019528	52955804	1	-2.09
2	1.30		0.000	46542	263889	1	
3	1.58	CHLORIDE	23.698	9575343	32031135	1	0.00
4	1.97	NITRITE	96.246	19822761	89840261	1	-1.04
5	3.10	BROMIDE	25.389	1629419	13303873	1	3.16
6	3.60	NITRATE	92.660	6531906	68643424	1	0.00
7	5.73	PHOSPHATE	98.426	2675564	36333183	1	-3.14
8	7.53	SULFATE	97.159	5036568	92351778	1	0.00
		Totals	457.587	63337630	385723347		

File: 95092821.D37 Sample: A950609V1/LO - A04



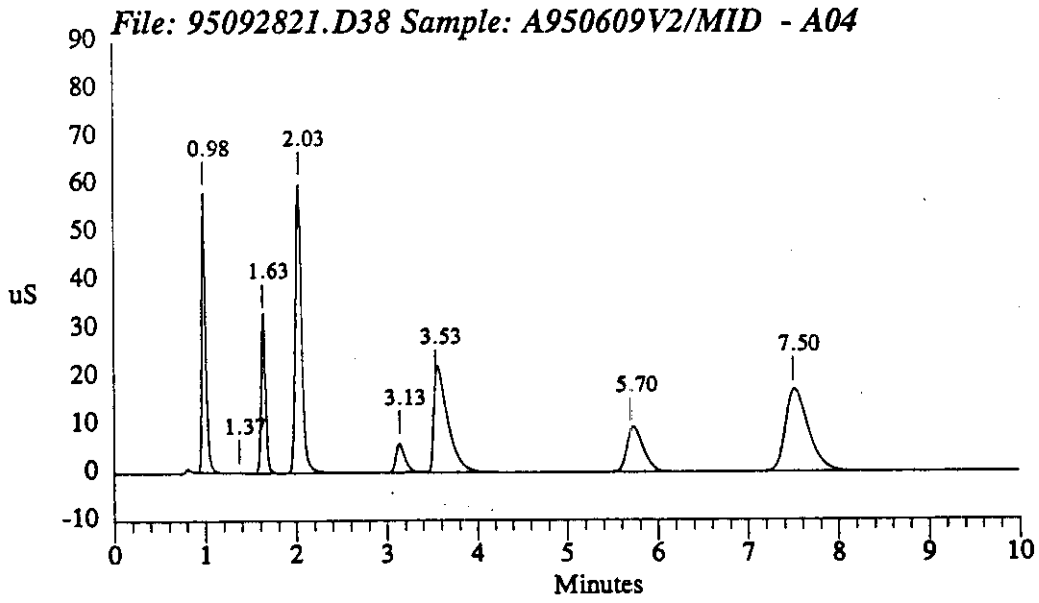
Data Reprocessed On 09/28/1995 21:09:27

Sample Name:	A950609V2/MID - A04	Date:	09/28/1995 20:48:18
Data File :	C:\DX\DATA\9509282\95092821.D38		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 38 Vial:A04	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	24.897	58053861	174005981	1	0.00
2	1.37		0.000	121517	718995	1	
3	1.63	CHLORIDE	25.051	32433491	113701409	1	0.00
4	2.03	NITRITE	100.750	60222836	291524278	1	-0.81
5	3.13	BROMIDE	25.457	6073379	42267369	1	1.08
6	3.53	NITRATE	97.868	18695777	237132017	1	0.00
7	5.70	PHOSPHATE	99.974	8684804	120288904	1	-1.89
8	7.50	SULFATE	99.592	17063138	307557018	1	0.00
		Totals	473.588	201348801	1287195972		



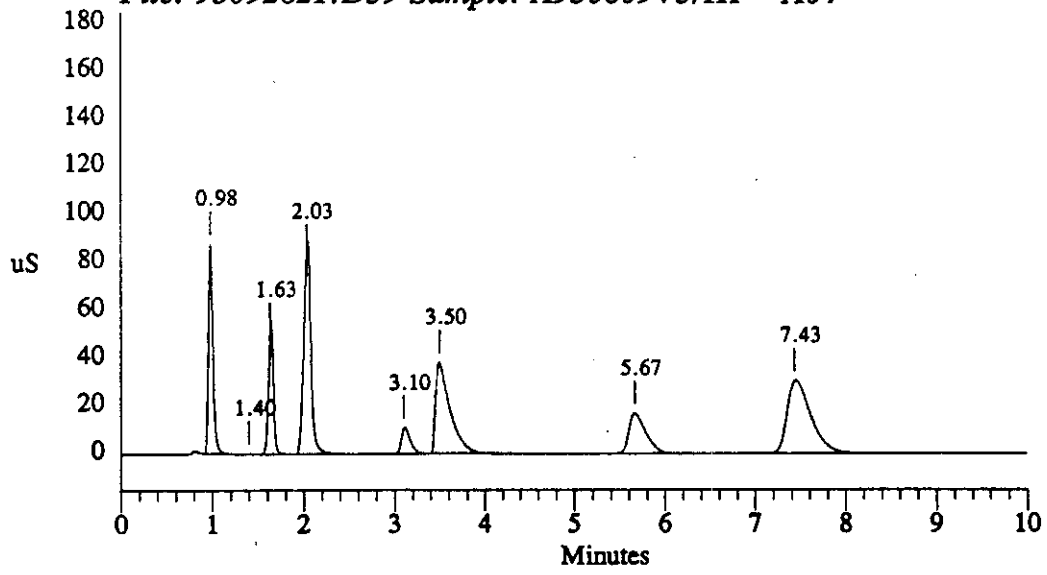
Sample Name: A950609V3/HI - A04 Date: 09/28/1995 21:01:44
Data File : C:\DX\DATA\9509282\95092821.D39
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 39 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	24.993	87632567	295651926	1	0.00
2	1.40		0.000	183462	1022044	1	
3	1.63	CHLORIDE	25.061	49650156	204625222	1	0.00
4	2.03	NITRITE	100.311	82456204	488589020	1	-0.81
5	3.10	BROMIDE	25.623	10694455	74753657	1	0.00
6	3.50	NITRATE	96.793	38017434	418402645	1	0.00
7	5.67	PHOSPHATE	102.344	17020833	222085198	1	-1.53
8	7.43	SULFATE	101.452	30606906	563844679	1	0.00
		Totals	476.578	316262018	2268974394		

File: 95092821.D39 Sample: A950609V3/HI - A04



Data Reprocessed On 09/28/1995 20:55:46

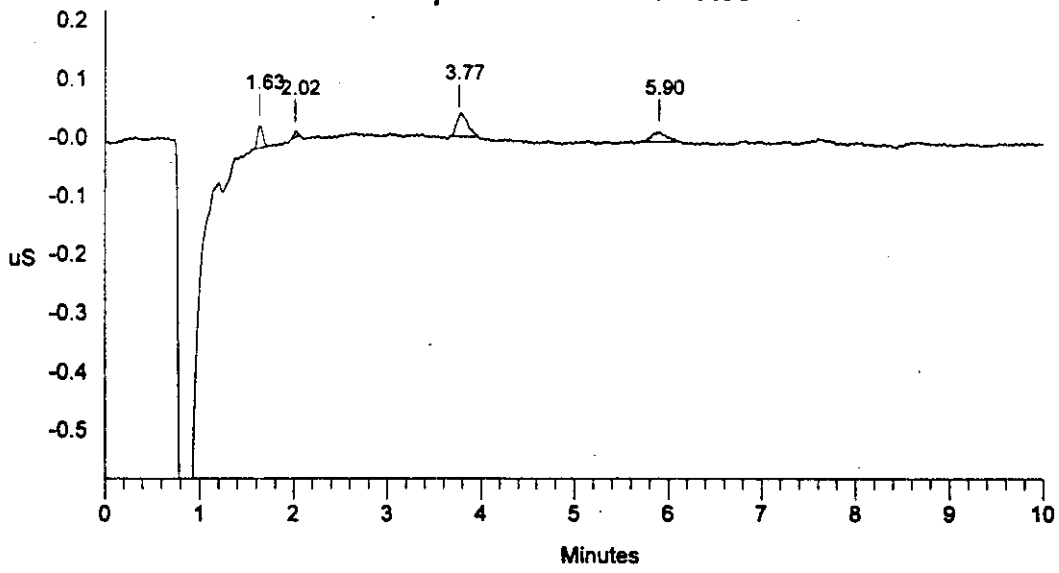
Sample Name: A9509282B4 - A03		Date: 09/28/1995 21:18:14	
Data File : C:\DX\DATA\9509282\95092821.D40			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 40 Vial:A03			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.63	CHLORIDE	0.098	37845	152170	1	0.00
3	3.77	NITRATE	0.229	33708	315909	1	0.00
4	5.90	PHOSPHATE	0.210	17688	184312	1	-4.74
		Totals	0.538	89241	652392		

File: 95092821.D40 Sample: A9509282B4 - A03

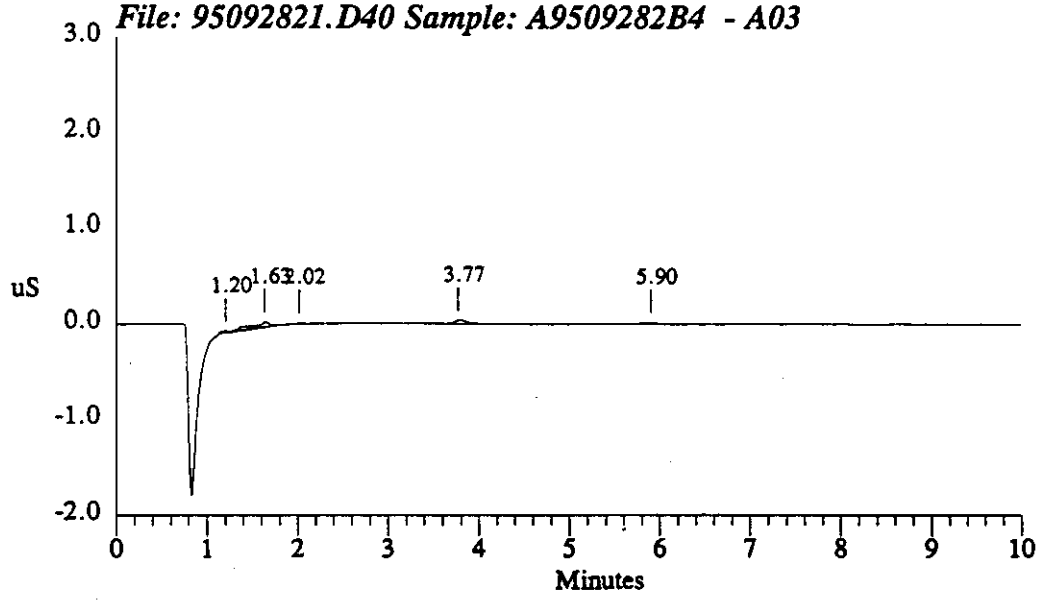


Sample Name: A9509282B4 - A03 Date: 09/28/1995 21:18:14
Data File : C:\DX\DATA\9509282\95092821.D40
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 40 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.20		0.000	16996	61402	1	
2	1.63	CHLORIDE	0.126	62942	951056	1	0.00
3	2.02	NITRITE	0.195	15702	76628	1	-1.63
4	3.77	NITRATE	0.239	39978	462311	1	0.00
5	5.90	PHOSPHATE	0.216	18920	231250	1	-4.74
		Totals	0.776	154537	1782648		



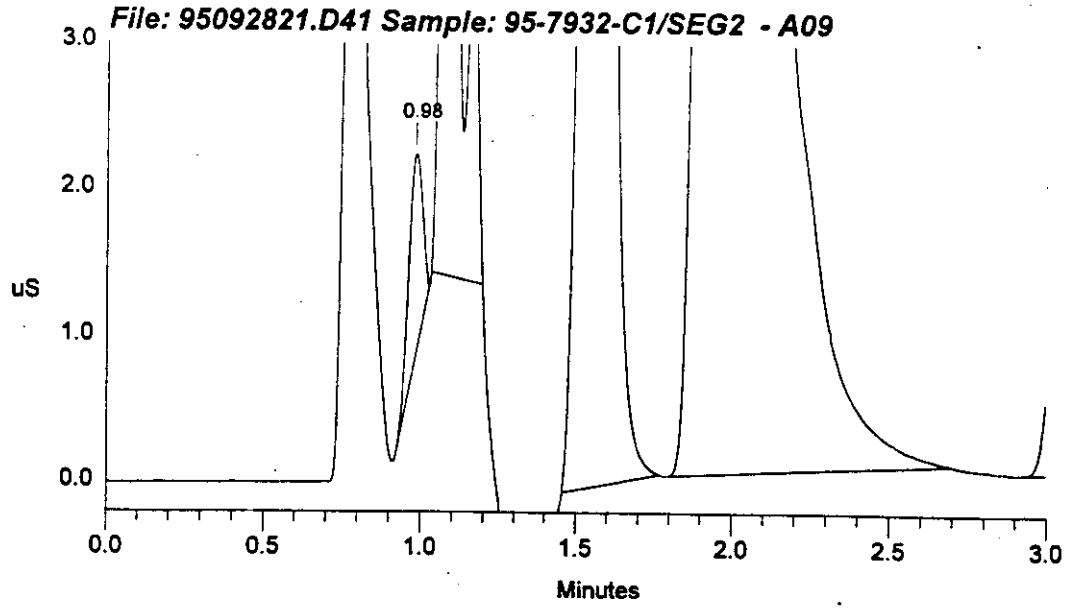
Data Reprocessed On 09/29/1995 00:50:10

Sample Name: 95-7932-C1/SEG2 - A09		Date: 09/28/1995 21:31:03	
Data File : A:\95092821.D41			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 41 Vial:A09			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	3.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.687	1373500	4110333	1	5.38
2	1.08		0.000	7480024	28941683	1	
3	1.55	CHLORIDE	31.669	17145423	94069978	1	0.00
4	2.02	NITRITE	542.327	137963930	1076662916	1	3.66
5	3.10	BROMIDE	-34282.824	405000098	5379752164	1	5.38
6	4.93		0.000	316778	3647139	1	
7	5.77	PHOSPHATE	8.115	336769	4704650	1	1.17
8	7.53	SULFATE	11.181	949532	18477962	1	0.00
		Totals	-33687.845	570566054	6610366825		



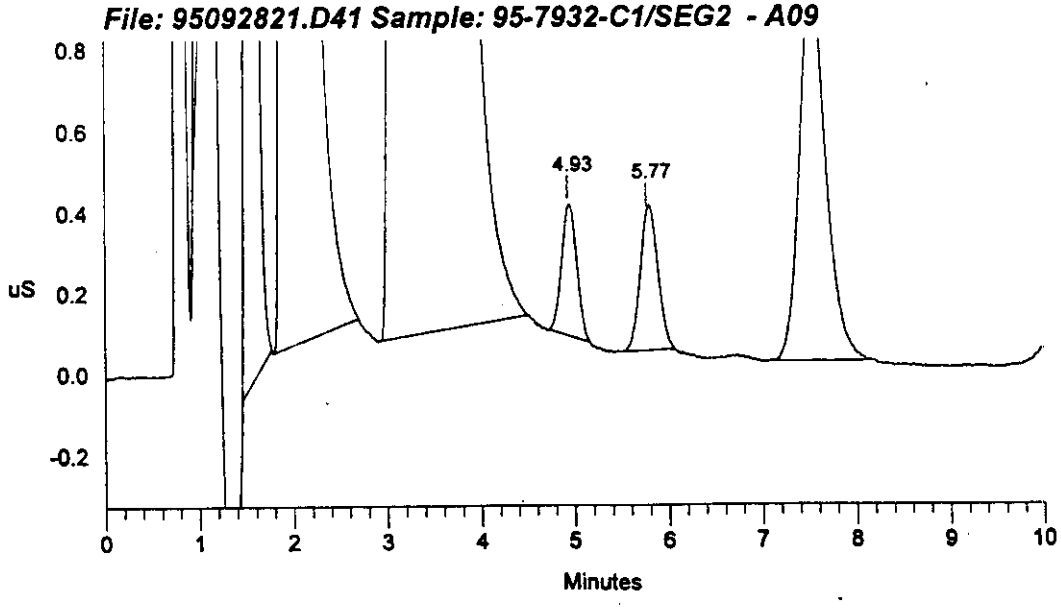
Data Reprocessed On 09/28/1995 21:08:39

Sample Name: 95-7932-C1/SEG2 - A09		Date: 09/28/1995 21:31:03	
Data File : C:\DX\DATA\9509282\95092821.D41			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 41 Vial:A09			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	1.546	1247216	3446080	1	5.38
2	1.08		0.000	7480024	28941683	1	
3	1.55	CHLORIDE	31.669	17145423	94069978	1	0.00
4	2.02	NITRITE	542.327	137963930	1076662916	1	3.66
5	3.10	BROMIDE	-34282.824	405000098	5379752164	1	5.38
6	4.93		0.000	316778	3647139	1	
7	5.77	PHOSPHATE	8.115	336769	4704650	1	1.17
8	7.53	SULFATE	11.181	949532	18477962	1	0.00
		Totals	-33687.985	570439769	6609702572		



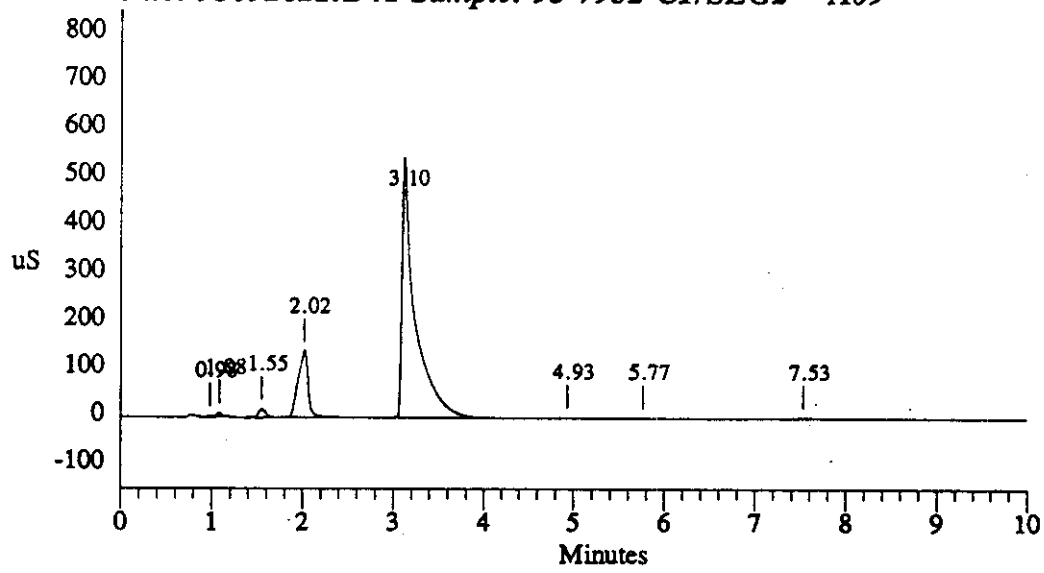
Sample Name: 95-7932-C1/SEG2 - A09 Date: 09/28/1995 21:31:03
Data File : C:\DX\DATA\9509282\95092821.D41
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 41 Vial:A09 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	2.091	1798622	6017364	2	5.38
2	1.08		0.000	8027520	32886880	2	
3	1.55	CHLORIDE	34.620	17659965	103803882	1	0.00
4	2.02	NITRITE	543.310	137978998	1078675191	1	3.66
5	3.10	BROMIDE	-34310.604	405004206	5381779348	1	5.38
6	4.93		0.000	317713	3581795	1	
7	5.77	PHOSPHATE	8.623	344516	5087145	1	1.17
8	7.53	SULFATE	11.362	955259	18829460	1	0.00
		Totals	-33710.599	572086800	6630661065		

File: 95092821.D41 Sample: 95-7932-C1/SEG2 - A09



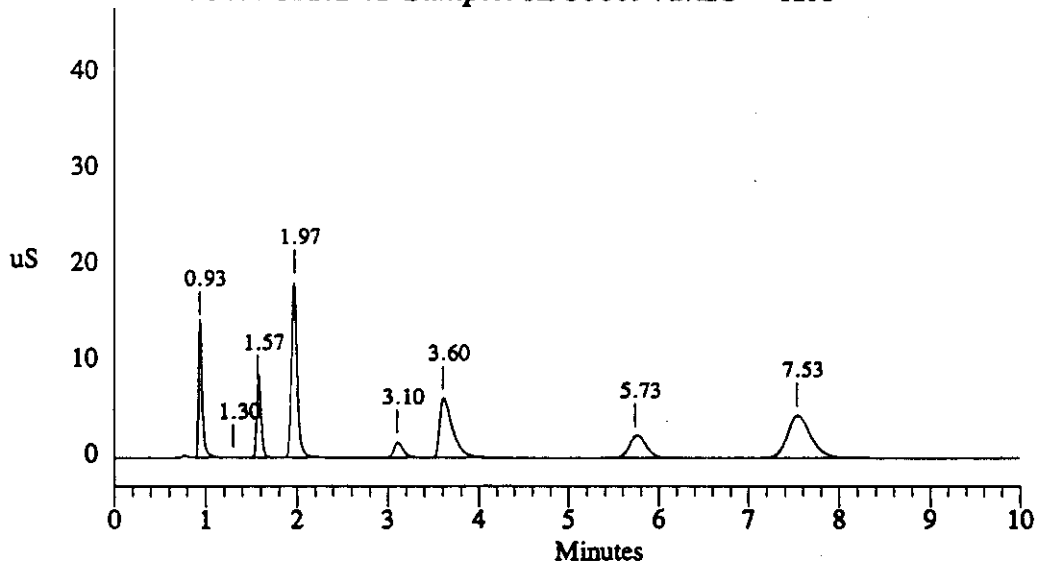
Sample Name: A950609V1/LO - A05 Date: 09/28/1995 21:43:38
Data File : C:\DX\DATA\9509282\95092821.D42
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 42 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	18.989	13880390	41050354	3	-1.05
2	1.30		0.000	55608	351890	4	
3	1.57	CHLORIDE	21.559	7260999	28832294	1	0.00
4	1.97	NITRITE	87.344	18283620	81169877	1	0.02
5	3.10	BROMIDE	22.965	1597553	11988633	1	4.26
6	3.60	NITRATE	85.171	6153841	62716898	1	0.00
7	5.73	PHOSPHATE	85.658	2267942	31332002	1	-3.14
8	7.53	SULFATE	86.723	4471852	81872234	1	0.00
		Totals	408.409	53971805	339314183		

File: 95092821.D42 Sample: A950609V1/LO - A05



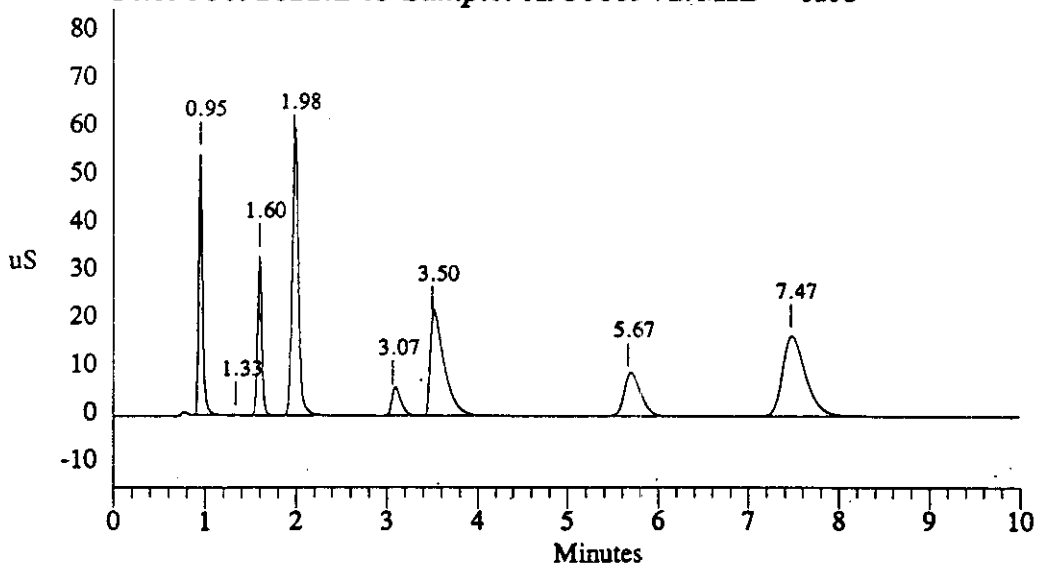
Sample Name: A950609V2/MID - A05 Date: 09/28/1995 21:56:40
Data File : C:\DX\DATA\9509282\95092821.D43
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 43 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	23.381	54373448	163082669	1	-1.38
2	1.33		0.000	104723	543264	1	
3	1.60	CHLORIDE	24.928	33353400	113079943	1	0.00
4	1.98	NITRITE	100.044	55923062	289441142	1	-1.24
5	3.07	BROMIDE	25.410	4620948	42182454	1	0.99
6	3.50	NITRATE	97.421	20202660	235938986	1	0.00
7	5.67	PHOSPHATE	96.867	8391072	116169892	1	-1.53
8	7.47	SULFATE	97.354	16664679	299950916	1	0.00
		Totals	465.405	193633992	1260389265		

File: 95092821.D43 Sample: A950609V2/MID - A05



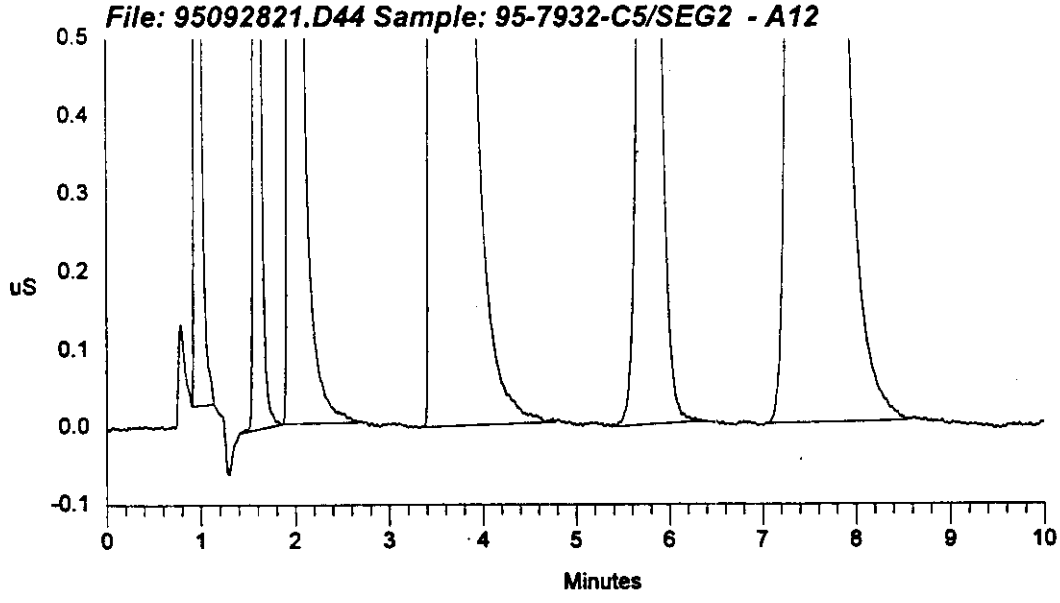
Data Reprocessed On 09/28/1995 21:10:17

Sample Name: 95-7932-C5/SEG2 - A12		Date: 09/28/1995 22:23:52	
Data File : C:\DX\DATA\9509282\95092821.D44			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 44 Vial:A12			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	4.645	4855339	18086918	1	-0.34
2	1.58	CHLORIDE	5.070	2699529	11983200	1	0.00
3	1.98	NITRITE	41.749	16908089	77423966	1	-0.20
4	3.50	NITRATE	195.684	29288745	327041069	1	0.00
5	5.77	PHOSPHATE	31.604	1661903	22619083	1	0.21
6	7.50	SULFATE	136.708	15650839	279000588	1	0.00
		Totals	415.460	71064444	736154824		



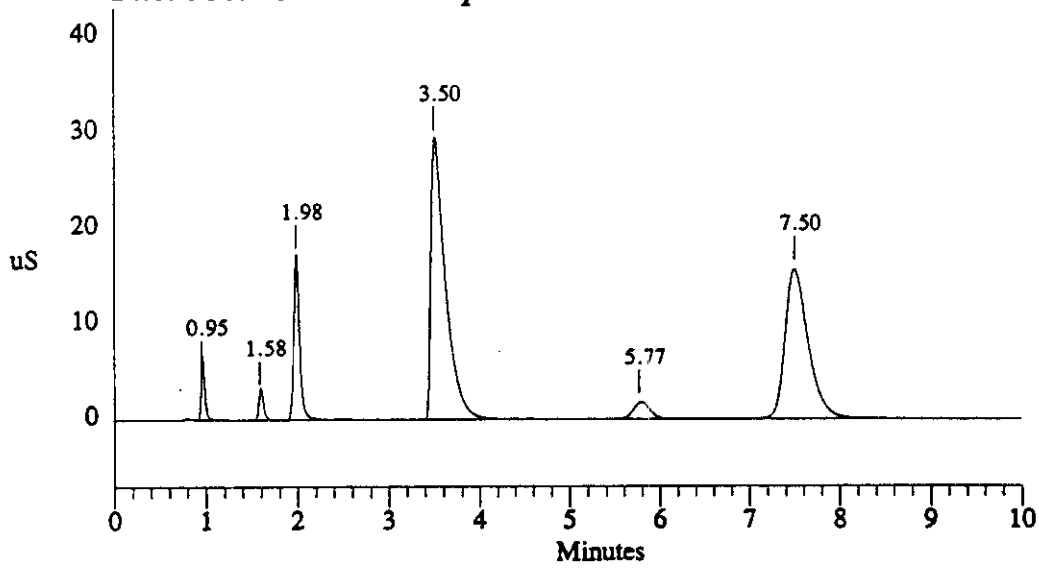
Sample Name: 95-7932-C5/SEG2 - A12 Date: 09/28/1995 22:23:52
Data File : C:\DX\DATA\9509282\95092821.D44
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 44 Vial:A12 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	4.645	4855339	18086918	1	-0.34
2	1.58	CHLORIDE	5.309	2723789	12680529	1	0.00
3	1.98	NITRITE	41.827	16908635	77577291	1	-0.20
4	3.50	NITRATE	195.839	29289336	327335004	1	0.00
5	5.77	PHOSPHATE	31.990	1664356	22917163	1	0.21
6	7.50	SULFATE	136.852	15652389	279320674	1	0.00
		Totals	416.462	71093844	737917580		

File: 95092821.D44 Sample: 95-7932-C5/SEG2 - A12



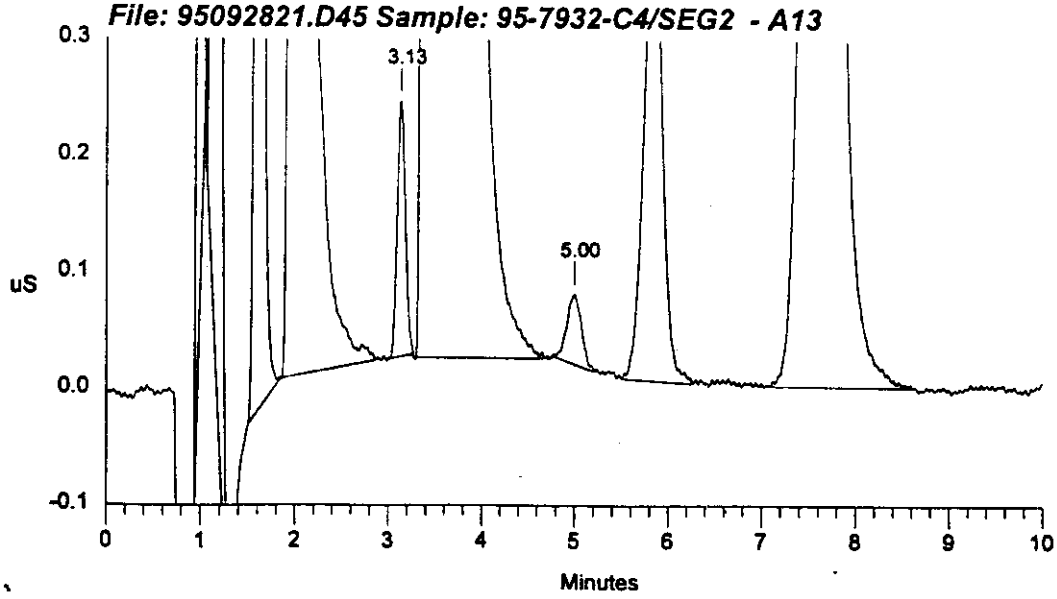
Data Reprocessed On 09/28/1995 21:11:59

Sample Name: 95-7932-C4/SEG2 - A13		Date: 09/28/1995 22:40:20	
Data File : C:\DX\DATA\9509282\95092821.D45			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 45 Vial:A13			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	9.818	1431443	5417834	1	0.35
2	1.12		0.000	1376368	6806342	1	
3	1.60	CHLORIDE	35.514	3893672	17938331	1	0.00
4	2.00	NITRITE	572.835	41876096	219710776	1	-0.41
5	3.13	BROMIDE	7.433	219185	1328224	1	3.18
6	3.40	NITRATE	2138.428	70018355	892628089	1	0.00
7	5.00		0.000	60257	641289	1	
8	5.80	PHOSPHATE	46.852	387146	5651232	1	3.75
9	7.57	SULFATE	142.281	2726794	52251502	1	0.00
		Totals	2953.162	121989315	1202373619		



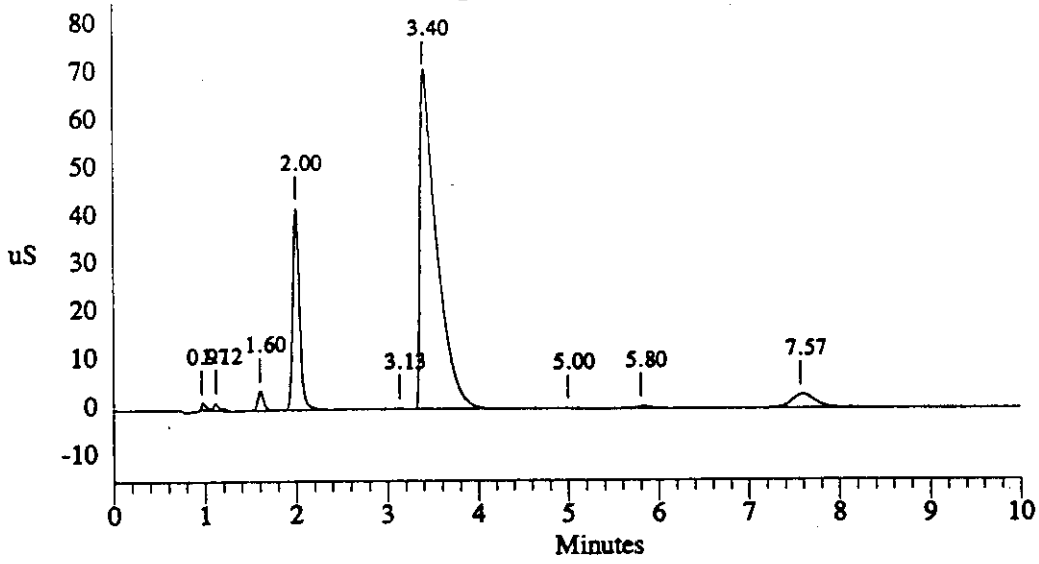
Sample Name: 95-7932-C4/SEG2 - A13 Date: 09/28/1995 22:40:20
Data File : C:\DX\DATA\9509282\95092821.D45
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 45 Vial:A13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	9.763	1294587	5365193	2	0.35
2	1.12		0.000	1512532	8036769	2	
3	1.60	CHLORIDE	39.268	3977417	20149746	1	0.00
4	2.00	NITRITE	572.798	41876032	219696244	1	-0.41
5	3.13	BROMIDE	7.433	219185	1328224	1	3.18
6	3.40	NITRATE	2138.428	70018355	892628089	1	0.00
7	5.00		0.000	60159	643794	1	
8	5.80	PHOSPHATE	46.926	386718	5662363	1	3.75
9	7.57	SULFATE	142.551	2727473	52358100	1	0.00
		Totals	2957.167	122072457	1205868521		

File: 95092821.D45 Sample: 95-7932-C4/SEG2 - A13



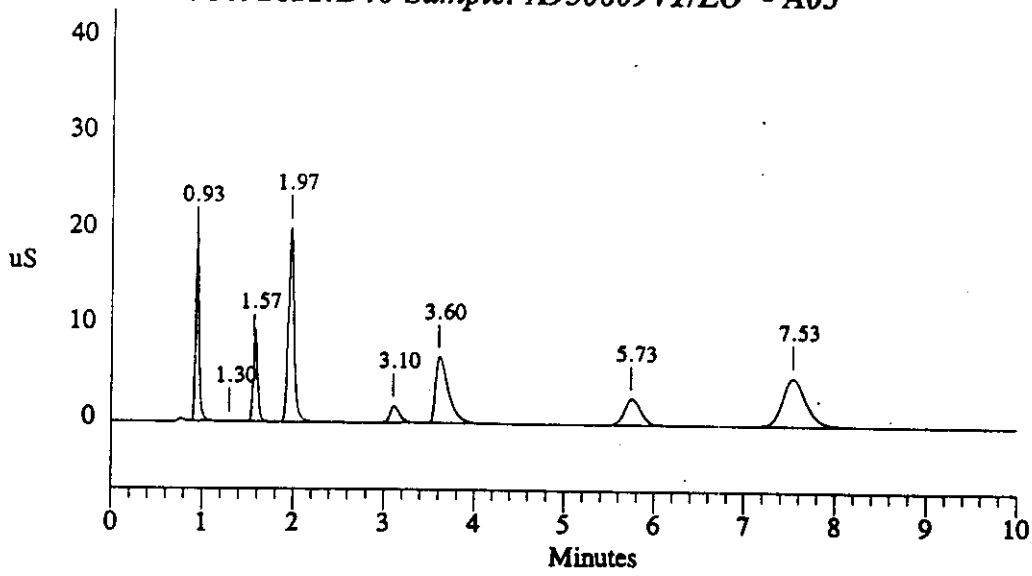
Sample Name: A950609V1/LO - A05 Date: 09/28/1995 22:52:57
Data File : C:\DX\DATA\9509282\95092821.D46
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 46 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	23.913	18881074	52729008	1	-1.05
2	1.30		0.000	51215	268707	1	
3	1.57	CHLORIDE	23.763	7814469	32128569	1	0.00
4	1.97	NITRITE	96.885	20265316	90462102	1	0.02
5	3.10	BROMIDE	25.282	1724454	13245998	1	4.26
6	3.60	NITRATE	93.751	6836930	69508371	1	0.00
7	5.73	PHOSPHATE	96.755	2689837	35676783	1	-3.14
8	7.53	SULFATE	96.982	5054626	92173349	1	0.00
		Totals	457.331	63317921	386192887		

File: 95092821.D46 Sample: A950609V1/LO - A05



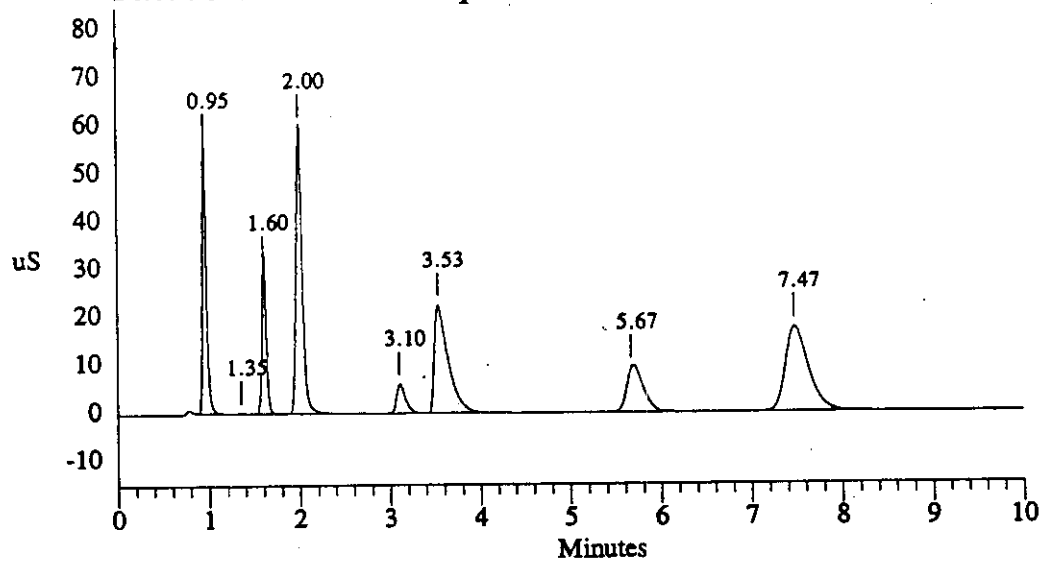
Sample Name: A950609V2/MID - A05			Date: 09/28/1995 23:05:58
Data File : C:\DX\DATA\9509282\95092821.D47			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2	Inject#: 47	Vial:A05	Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	.3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	25.153	55805870	175854051	1	-1.38
2	1.35		0.000	128993	676743	1	
3	1.60	CHLORIDE	25.108	30444550	113992776	1	0.00
4	2.00	NITRITE	101.267	59901585	293050185	1	-0.41
5	3.10	BROMIDE	25.862	5946864	42991253	1	2.08
6	3.53	NITRATE	97.873	22397958	237146641	1	0.00
7	5.67	PHOSPHATE	102.977	9218738	124295774	1	-2.46
8	7.47	SULFATE	102.046	17622777	315939586	1	0.00
		Totals	480.287	201467335	1303947010		

File: 95092821.D47 Sample: A950609V2/MID - A05



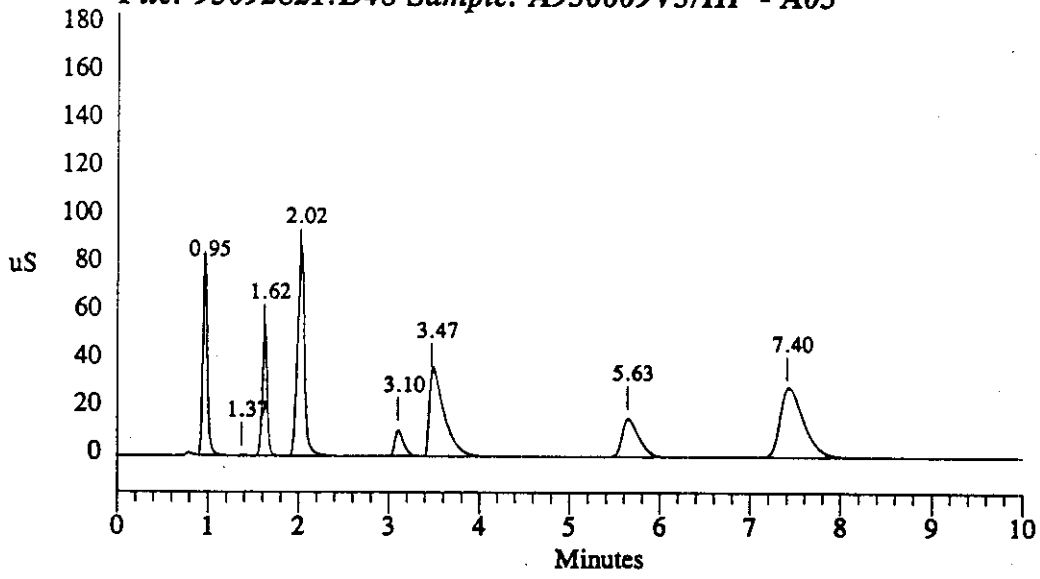
Sample Name: A950609V3/HI - A05 Date: 09/28/1995 23:19:22
Data File : C:\DX\DATA\9509282\95092821.D48
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 48 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	24.333	67091608	287625075	1	-2.39
2	1.37		0.000	153412	912404	1	
3	1.62	CHLORIDE	24.610	49520625	200222665	1	0.00
4	2.02	NITRITE	98.286	81340626	478532256	1	-0.61
5	3.10	BROMIDE	24.936	10778268	72479346	1	1.03
6	3.47	NITRATE	96.665	33527258	417743450	1	0.00
7	5.63	PHOSPHATE	97.404	15910993	209271864	1	-1.17
8	7.40	SULFATE	97.211	28488017	535712495	1	0.00
		Totals	463.446	286810806	2202499554		

File: 95092821.D48 Sample: A950609V3/HI - A05



Data Reprocessed On 09/28/1995 21:38:40

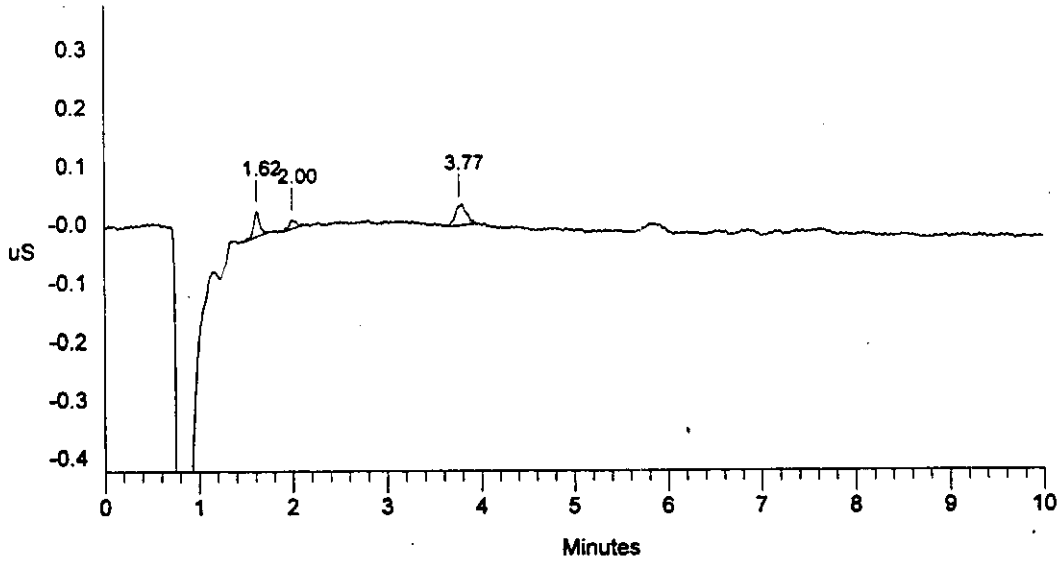
Sample Name: A9509282B5 - A03		Date: 09/28/1995 23:35:51	
Data File : C:\DX\DATA\9509282\95092821.D49			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 49 Vial:A03		Detector:PED-Cond.	
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.62	CHLORIDE	0.100	42882	194846	1	0.00
2	2.00	NITRITE	0.195	15158	84292	1	-1.43
3	3.77	NITRATE	0.228	33110	297215	1	0.00
		Totals	0.523	91150	576353		

File: 95092821.D49 Sample: A9509282B5 - A03

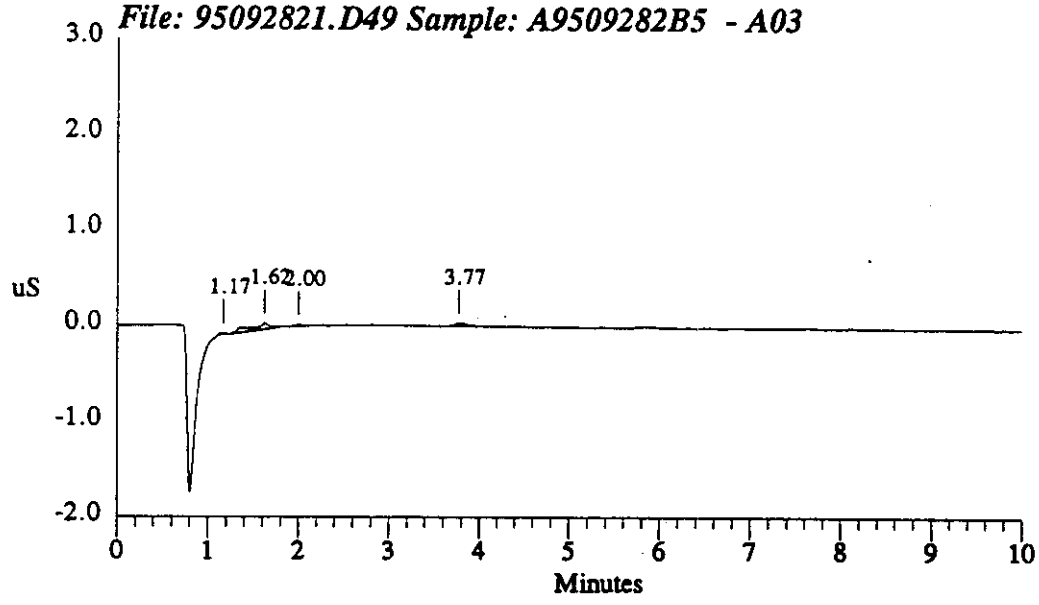


Sample Name: A9509282B5 - A03 Date: 09/28/1995 23:35:51
Data File : C:\DX\DATA\9509282\95092821.D49
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 49 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	13253	51147	1	
2	1.62	CHLORIDE	0.129	65103	1042614	1	0.00
3	2.00	NITRITE	0.195	15158	84292	1	-1.43
4	3.77	NITRATE	0.235	35690	406106	1	0.00
		Totals	0.560	129204	1584159		

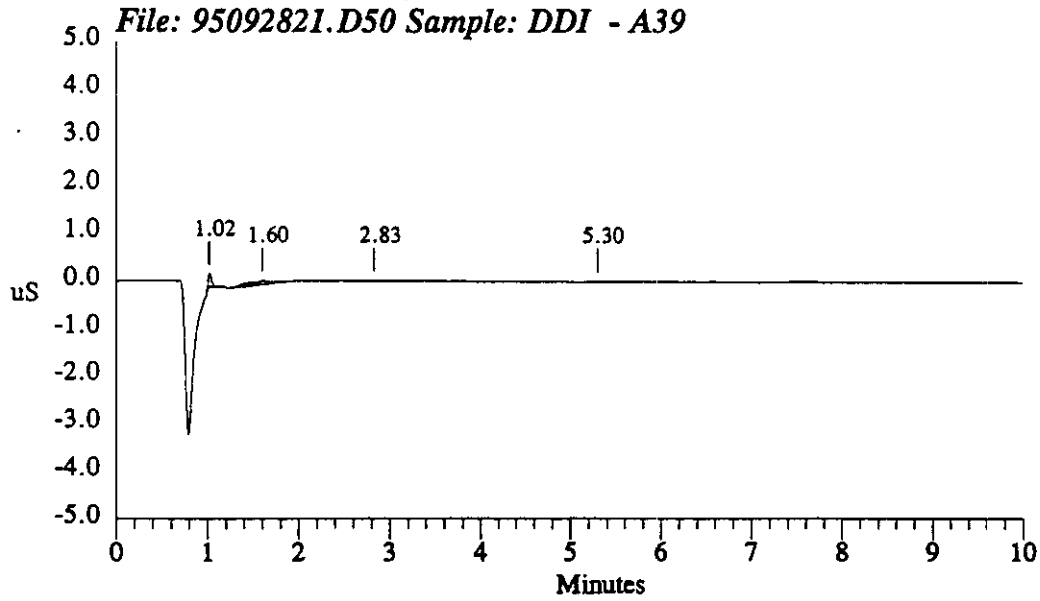


Sample Name: DDI - A39 Date: 09/28/1995 23:52:17
Data File : C:\DX\DATA\9509282\95092821.D50
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 50 Vial:A39 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	0.097	269346	733689	1	5.54
2	1.60	CHLORIDE	0.148	80388	1571718	1	0.00
3	2.83	BROMIDE	0.064	9550	445448	1	-6.70
4	5.30	PHOSPHATE	0.206	9446	152950	1	-7.02
		Totals	0.515	368730	2903805		



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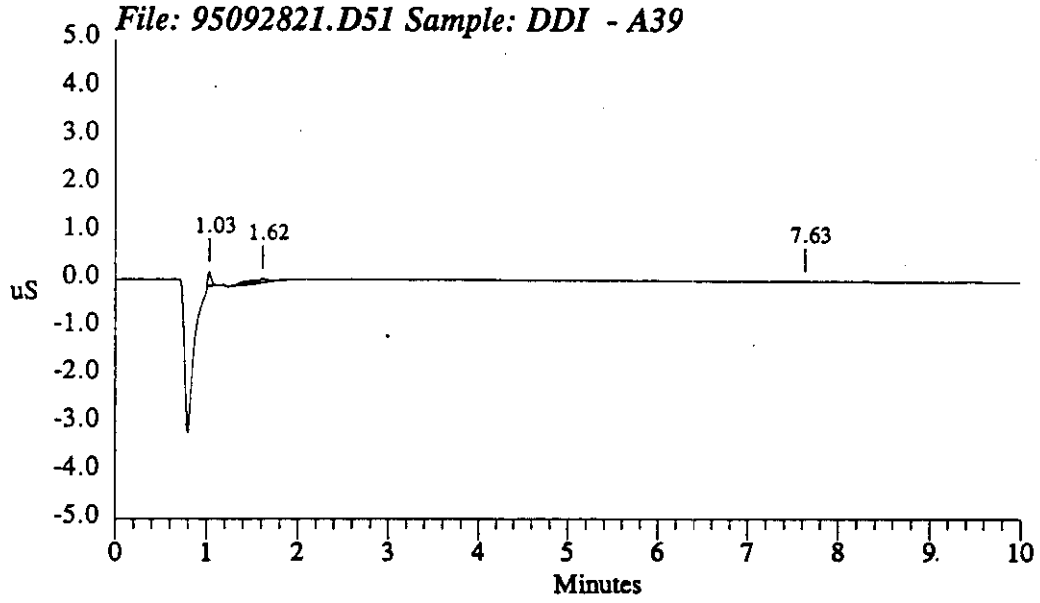
Sample Name: DDI  - A39                          Date: 09/29/1995 00:08:36
Data File  : C:\DX\DATA\9509282\95092821.D51
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 51  Vial:A39        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.03	FLUORIDE	0.099	311048	803813	1	6.17
2	1.62	CHLORIDE	0.152	91228	1689797	1	0.00
3	7.63	SULFATE	0.174	13840	253871	1	0.00
		Totals	0.424	416116	2747480		



AI-450 AS3500 Editor - 09142SCH.AS3

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Template (.PRP)
1	A06	1	1	AUTOCAL1R	2anions2	95091421	1	1	
2	A06	2	1	AUTOCAL2R	2anions2	95091421	1	1	
3	A07	5	1	AUTOCAL3R	2anions2	95091421	1	1	
4	A07	10	1	AUTOCAL4R	2anions2	95091421	1	1	
5	A07	20	1	AUTOCAL5R	2anions2	95091421	1	1	
6	A07	30	1	AUTOCAL6R	2anions2	95091421	1	1	
7	A06	1	1	CAL CHECK 1	2anions2	95091421	1	1	
8	A07	30	1	CAL CHECK 6	2anions2	95091421	1	1	
9	A04	5	1	A950609V1/LO	2anions2	95091421	1	1	
10	A04	15	1	A950609V2/MID	2anions2	95091421	1	1	
11	A04	25	1	A950609V3/HI	2anions2	95091421	1	1	
12	A01	100	3	A9509142B1	2anions2	95091421	1	1	
13	B01	1	1	95-7932-C1/SEG2	2anions2	95091421	1	1	
14	B02	1	1	95-7935-C1/SEG3	2anions2	95091421	1	1	
15	B03	100	1	95-7941-C3/PB-SEG1	2anions2	95091421	1	1	
16	B04	5	1	95-7941-C1/SEG1	2anions2	95091421	1	1	
17	B05	1	1	DUP95-7941-C2/SEG1	2anions2	95091421	1	1	
18	B05	5	1	DUP95-7941-C2/SEG1	2anions2	95091421	1	1	
19	B06	5	1	MS95-7941-C4	2anions2	95091421	1	1	
20	B07	5	1	SB95-7941-C5	2anions2	95091421	1	1	
21	B08	20	1	95-7942-C1/QS2A	2anions2	95091421	100	1	
22	B09	20	1	DUP95-7942-C2/QS2A	2anions2	95091421	100	1	
23	A04	5	1	A950609V1/LO	2anions2	95091421	1	1	
24	A04	15	1	A950609V2/MID	2anions2	95091421	1	1	
25	A04	25	1	A950609V3/HI	2anions2	95091421	1	1	
26	A02	100	2	A9509142B2	2anions2	95091421	1	1	
27	B10	5	1	95-7942-C1/QS2A	2anions2	95091421	1	1	
28	B11	1	1	DUP95-7942-C2/QS2A	2anions2	95091421	1	1	
29	B11	5	1	DUP95-7942-C2/QS2A	2anions2	95091421	1	1	
30	B12	5	1	95-7943-C1/QS4D	2anions2	95091421	1	1	
31	B13	1	1	DUP95-7943-C2/QS4D	2anions2	95091421	1	1	
32	B13	5	1	DUP95-7943-C2/QS4D	2anions2	95091421	1	1	
33	B14	5	1	95-7944-C1/QS3A	2anions2	95091421	1	1	
34	B15	1	1	DUP95-7944-C2/QS3A	2anions2	95091421	1	1	
35	B15	5	1	DUP95-7944-C2/QS3A	2anions2	95091421	1	1	
36	B16	5	1	95-7945-C1/QS4A	2anions2	95091421	1	1	
37	A05	5	1	A950609V1/LO	2anions2	95091421	1	1	
38	A05	15	1	A950609V2/MID	2anions2	95091421	1	1	
39	A05	25	1	A950609V3/HI	2anions2	95091421	1	1	
40	A03	100	2	A9509142B3	2anions2	95091421	1	1	
41	B17	2	1	DUP95-7945-C2/QS4A	2anions2	95091421	1	1	
42	B17	5	1	DUP95-7945-C2/QS4A	2anions2	95091421	1	1	
43	B18	5	1	95-7946-C1/QS4B	2anions2	95091421	1	1	
44	B19	2	1	DUP95-7946-C2/QS4B	2anions2	95091421	1	1	
45	B19	5	1	DUP95-7946-C2/QS4B	2anions2	95091421	1	1	
46	B20	5	1	95-7947-C1/QS4C	2anions2	95091421	1	1	
47	B21	2	1	DUP95-7947-C2/QS4C	2anions2	95091421	1	1	
48	B21	5	1	DUP95-7947-C2/QS4C	2anions2	95091421	1	1	
49	B22	5	1	95-7948-C1/QS4D	2anions2	95091421	1	1	
50	B23	2	1	DUP95-7948-C2/QS4D	2anions2	95091421	1	1	
51	A05	5	1	A950609V1/LO	2anions2	95091421	1	1	
52	A05	15	1	A950609V2/MID	2anions2	95091421	1	1	
53	A05	25	1	A950609V3/HI	2anions2	95091421	1	1	
54	A03	100	2	A9509142B3	2anions2	95091421	1	1	
55	B23	5	1	DUP95-7948-C2/QS4D	2anions2	95091421	1	1	
56	B04	1	1	95-7941-C1/SEG1	2anions2	95091421	1	1	
57	B06	1	1	MS95-7941-C4	2anions2	95091421	1	1	

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Templa (.PRI
58	B07	10	1	SB95-7941-C5	2anions2	95091421	1	1	
59	B24	100	1	95-7932-C3/PB-SEG2	2anions2	95091421	1	1	
60	B25	1	1	DUP95-7932-C2/SEG2	2anions2	95091421	1	1	
61	B01	5	1	95-7932-C1/SEG2	2anions2	95091421	1	1	
62	B25	5	1	DUP95-7932-C2/SEG2	2anions2	95091421	1	1	
63	B26	1	1	MS95-7932-C4/SEG2	2anions2	95091421	1	1	
64	B26	10	1	MS95-7932-C4/SEG2	2anions2	95091421	1	1	
65	A06	5	1	A950609V1/LO	2anions2	95091421	1	1	
66	A06	15	1	A950609V2/MID	2anions2	95091421	1	1	
67	A06	25	1	A950609V3/HI	2anions2	95091421	1	1	
68	A38	100	2	A9509142B4	2anions2	95091421	1	1	
69	B27	10	1	SB95-7932-C5/SEG2	2anions2	95091421	1	1	
70	B28	1	1	DUP95-7935-C2/SEG3	2anions2	95091421	1	1	
71	B02	5	1	95-7935-C1/SEG3	2anions2	95091421	1	1	
72	B28	5	1	DUP95-7935-C2/SEG3	2anions2	95091421	1	1	
73	A07	5	1	A950609V1/LO	2anions2	95091421	1	1	
74	A07	15	1	A950609V2/MID	2anions2	95091421	1	1	
75	A07	25	1	A950609V3/HI	2anions2	95091421	1	1	
76	A37	100	2	A9509142B5	2anions2	95091421	1	1	
77	A39	100	2	DDI	2anions2	95091421	1	1	
78	A40	1	1	NO RUN	2shutdn	95091421	1	1	

More Run Parameters

#	Vial Pos	Oven Ctl	Oven Set	Cool Ctl	Cool Set	Cycle Time	Flush Vol	Visc Factor	Prep Visc	Inj Type	Needle Height
1	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
2	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
3	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
4	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
5	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
6	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
7	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
8	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
9	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
10	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
11	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
12	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
13	B01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
14	B02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
15	B03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
16	B04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
17	B05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
18	B05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
19	B06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
20	B07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
21	B08	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
22	B09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
23	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
24	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
25	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

26	A02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
27	B10	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
28	B11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
29	B11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
30	B12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
31	B13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
32	B13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
33	B14	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
34	B15	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
35	B15	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
36	B16	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
37	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
38	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
39	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
40	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
41	B17	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
42	B17	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
43	B18	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
44	B19	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
45	B19	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
46	B20	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
47	B21	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
48	B21	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
49	B22	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
50	B23	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
51	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
52	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
53	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
54	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
55	B23	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
56	B04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
57	B06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
58	B07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
59	B24	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
60	B25	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
61	B01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
62	B25	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
63	B26	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
64	B26	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
65	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
66	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
67	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
68	A38	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
69	B27	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
70	B28	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
71	B02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
72	B28	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
73	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
74	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
75	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
76	A37	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
77	A39	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
78	A40	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

Comment :

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02513,PN900907

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst. M. Miller 9-28-95 Reviewer PK Meletiu 9/29/95.

RT VALUES FROM D02

Units of Measurement: ug/ml (ppm)

INJ.	SAMPLE ID.	INJ. VOL.	DIL.	F 0.95	Cl 1.60	NO2 2.00	Br 3.10	NO3 3.53	PO4 5.70	SO4 7.50
09/28.d06	95-7932-C1/SEG2 - A09	BSLN 10	10.0	1.6	31.1	531.7	0.0	-2249.9	9.6	10.7
09/28.d41	95-7932-C1/SEG2 - A09	10	10.0	1.7 1.5	X (0.92) 31.7	OR X 542.3	-34282.8	0.0	8.1	11.2
09/28.d07	95-7932-C2/SEG2 - A10	10	10.0	1.7 1.4	X (0.93) 30.4	OR X 513.3	0.0	-2039.7	7.5	10.3
09/28.d08	95-7932-C4/SEG2 - A11	10	10.0	2.0 1.4	X (0.95) 34.9	553.6	0.0	-2671.2	34.8	153.5
09/28.d10	95-7932-C4/SEG2 - A13	BSLN 100	50.0	8.3	35.6	580.0	5.2	2182.7	23.9	149.7
09/28.d45	95-7932-C4/SEG2 - A13	100	50.0	9.8	35.5	572.8	7.4	2138.4	46.9	142.3
09/28.d09	95-7932-C5/SEG2 - A12	BSLN 10	10.0	3.9	4.9	41.2	0.0	193.6	30.6	140.5
09/28.d44	95-7932-C5/SEG2 - A12	10	10.0	4.6	5.1	41.7	0.0	195.7	31.6	136.7
09/28.d11	95-7941-C1/SEG1 - A14	100	50.0	59.3	9.5	78.0	5.9	554.3 (0.95) 638.9	X	13.1
09/28.d12	95-7941-C2/SEG1 - A15	100	50.0	44.1	9.6	77.9	5.7	657.9 (1.00) 517.1	X	10.4
09/28.d13	95-7941-C4/SEG1 - A16	100	50.0	75.7	13.1	115.3	5.2	738.0 (1.13) 763.1	X	141.1
09/28.d14	95-7941-C5/SEG1 - A17	10	10.0	4.6	5.7	43.8	0.0	203.5	32.7	146.7
09/28.d15	95-7943-C1/QS2D - A18	100	200.0	45.0	29.0	212.6	5.4	2635.5	169.8	126.5
09/28.d20	95-7943-C2/QS2D - A19	100	200.0	50.1	31.6	226.9	6.8	3044.7	180.2	132.6
09/28.d21	95-7944-C1/QS3A - A20	100	200.0	58.0	29.4	194.5	0.0	2379.9	98.9	196.8
09/28.d22	95-7944-C2/QS3A - A21	100	200.0	47.4	28.9	169.0	0.0	3059.7	108.1	156.3
09/28.d23	95-7945-C1/QS4A - A22	10	10.0	* X(0.87) 66.8	(0.87) 11.1	X OR 300.8	0.0	510.2	(0.91) 185.1	451.1
09/28.d25	95-7945-C1/QS4A - A22	5	20.0	(0.91) 70.6	(0.91) 11.6	(0.91) 304.8	0.0	852.7	(0.88) 179.1	(0.94) 508.0
09/28.d27	95-7945-C1/QS4A - A24	100	100.0	70.5	19.1	292.6	0.0	949.6	187.9	516.3
09/28.d24	95-7945-C2/QS4A - A23	10	10.0	* X(0.87) 53.7	(0.91) 12.5	X OR 344.7	-34771.6	0.0	(0.96) 159.9	(0.96) 245.1
09/28.d26	95-7945-C2/QS4A - A23	5	20.0	(0.94) 67.6	(0.93) 12.9	(0.95) 346.9	0.0	X 282.2	(0.91) 151.8	(0.93) 237.8
09/28.d28	95-7945-C2/QS4A - A25	100	100.0	59.1	21.1	332.6	0.0	OR 2351.7	161.6	240.4
09/28.d29	95-7946-C1/QS4B - A26	10	10.0	1.4 1.1	(0.86) 10.9	346.4	0.0	448.3	(0.91) 229.7	(0.89) 42.9
09/28.d34	95-7946-C2/QS4B - A27	10	10.0	1.5 2.4	(0.92) 14.2	442.5	0.0	512.7	412.6	(0.86) 36.0
09/28.d35	95-7948-C1/QS4D - A28	10	10.0	1.4 3.2	(0.9) 10.8	344.8	0.0	406.2	519.5	(0.90) 182.5

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS2 (DATA ARCHIVAL LOCATOR)

X : DATA NOT USED

OR: OVERRANGE

BSLN: BASELINE IRREGULARITIES

NOTE: VALUES IN PARENTHESES ARE RATIOS WITH RESPECT TO 9/14 DATA.

*: RATIO OF $\frac{9/28 \text{ VALUE}}{9/14 \text{ VALUE}} \sim 0.87$

3-1465

WHC-SD-WM-DP-145, REV. 1

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02513,PN900907

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst M. Mill 9-28-95

Reviewer PK Mclethil 9/29/95

********** Units of Measurement: ug/ml (ppm) **********

INJ.	SAMPLE ID.	INJ. VOL.	DIL.	F	Cl	NO2	Br	NO3	PO4	SO4
09/28.d36	95-7948-C2/QS4D - A29	10	10.0	1.3 2.1 mult 10.95	(0.83) 11.1	390.0	0.0	441.9	467.1	(0.89) 96.0

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS2 (DATA ARCHIVAL LOCATOR)

NOTE: VALUES IN PARENTHESES ARE RATIOS WITH RESPECT TO 9/14 DATA

3-1466

WHC-SD-WM-DP-[illegible], REV. 1

950914ZR.CAU

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02513,PN900907

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst M. Mill 9/29/95

Reviewer PK Mellethil 9/29/95

Units of Measurement: ug/ml (ppm)

INJ.	SAMPLE ID.	INJ. VOL	DIL.	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d15	95-7932-C1/SEG2 - B01	1	100.0	12.1	38.8	569.0	7.5	2377.8	29.9	32.1
09/14.d66	95-7932-C1/SEG2 - B01	5	20.0	3.8	34.4	588.6	2.2	358.9	~~12.4~~	~~16.2~~
09/14.d65	DUP95-7932-C2/SEG2 - B25	1	100.0	24.1	43.5	573.3	8.2	2365.7	32.5	33.3
09/14.d67	DUP95-7932-C2/SEG2 - B25	5	20.0	4.2	32.7	564.4	2.1	488.3	~~12.5~~	~~14.6~~
09/14.d64	95-7932-C3/PB-SEG2 - B24	100	1.0	0.1	0.2	0.3	0.0	0.8	0.3	0.6
09/14.d68	MS95-7932-C4/SEG2 - B26	1	100.0	16.9	40.5	572.4	7.2	2387.6	54.7	158.5
09/14.d69	MS95-7932-C4/SEG2 - B26	10	10.0	2.0	38.3	569.8	-58534.5	0.0	41.5	168.3
09/14.d75	SB95-7932-C5 - B27	10	10.0	~~5.3~~	~~5.5~~	~~46.5~~	0.0	~~212.8~~	~~36.9~~	~~153.0~~
09/14.d16	95-7935-C1/SEG3 - B02	1	100.0	11.1	37.6	562.7	3.4	2037.1	29.3	30.7
09/14.d77	95-7935-C1/SEG3 - B02	5	20.0	3.8	34.2	601.3	0.0	641.8	~~12.8~~	16.2
09/14.d76	DUP95-7935-C2/SEG3 - B28	1	100.0	24.2	39.6	592.4	3.9	2126.6	32.5	34.4
09/14.d78	DUP95-7935-C2/SEG3 - B28	5	20.0	3.8	32.8	576.2	2.2	729.0	~~12.1~~	15.4
09/14.d61	95-7941-C1/SEG1 - B04	1	100.0	68.0	14.5	91.8	5.6	567.1	~~669.7~~	24.5
09/14.d18	95-7941-C1/SEG1 - B04	5	20.0	66.5	6.7	81.5	5.5	~~577.5~~	645.2	7.2
09/14.d19	DUP95-7941-C2/SEG1 - B05	1	100.0	52.9	14.3	87.7	5.8	~~626.0~~	495.3	25.0
09/14.d20	DUP95-7941-C2/SEG1 - B05	5	20.0	52.7	6.5	80.3	5.1	645.2	~~516.0~~	7.2
09/14.d17	95-7941-C3/PB-SEG1 - B03	100	1.0	0.2	0.7	0.2	0.0	1.5	0.3	1.2
09/14.d62	MS95-7941-C4 - B06	1	100.0	69.1	17.5	114.7	5.1	~~652.2~~	~~670.4~~	140.8
09/14.d21	MS95-7941-C4 - B06	5	20.0	75.8	10.3	118.1	5.1	695.8	700.9	142.3
09/14.d22	SB95-7941-C5 - B07	5	20.0	6.1	6.9	46.1	0.0	207.9	36.6	148.7
09/14.d63	SB95-7941-C5 - B07	10	10.0	~~5.3~~	~~6.2~~	~~48.0~~	0.0	~~218.4~~	~~36.4~~	~~156.0~~
09/14.d23	95-7942-C1/QS2A - B08	20	500.0	52.3	57.6	216.8	27.3	5970.4	143.3	111.3
09/14.d30	95-7942-C1/QS2A - B10	5	20.0	4.7	8.2	125.2	-130601.0	0.0	21.9	9.3
09/14.d24	DUP95-7942-C2/QS2A - B09	20	500.0	51.6	56.6	213.6	0.0	6003.8	141.6	0.0
09/14.d31	DUP95-7942-C2/QS2A - B11	1	100.0	12.6	15.9	123.8	2.4	4615.2	38.8	27.5

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS2 (DATA ARCHIVAL LOCATOR)

NOTE: CROSSED OUT VALUES (HIGHLIGHTED) HAVE NOT BEEN USED

M. Mill 10-3-95

3- 1467

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 1

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02513,PN900907

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst M. Hill 9/29/95

Reviewer PK Melettiel 9/29/95

Units of Measurement: ug/ml (ppm)

INJ.	SAMPLE ID.	INJ. VOL.	DIL.	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d32	DUP95-7942-C2/QS2A - B11	5	20.0	4.5	7.6	110.3	-116690.0	0.0	20.7	8.4
09/14.d33	95-7943-C1/QS4D - B12	5	20.0	42.0	12.7	221.2	-23272.5	OR 0.0	150.4	104.4
09/14.d34	DUP95-7943-C2/QS4D - B13	1	100.0	48.5	21.1	221.5	3.7	2969.4	165.8	122.6
09/14.d35	DUP95-7943-C2/QS4D - B13	5	20.0	45.4	13.7	231.6	-32953.4	0.0	161.5	114.1
09/14.d36	95-7944-C1/QS3A - B14	5	20.0	56.8	12.3	205.7	0.0	OR 196.3	76.5	198.2
09/14.d37	DUP95-7944-C2/QS3A - B15	1	100.0	44.3	17.4	149.2	0.0	2777.3	94.3	139.1
09/14.d38	DUP95-7944-C2/QS3A - B15	5	20.0	44.6	10.2	164.5	-33416.2	0.0	90.4	143.0
09/14.d39	95-7945-C1/QS4A - B16	5	20.0	77.6	12.8	330.5	0.0	OR 884.2	203.1	542.7
09/14.d45	DUP95-7945-C2/QS4A - B17	2	50.0	59.6	16.3	342.3	0.0	OR 2083.7	156.3	238.1
09/14.d46	DUP95-7945-C2/QS4A - B17	5	20.0	61.6	13.8	364.6	0.0	312.3	166.7	255.6
09/14.d47	95-7946-C1/QS4B - B18	5	20.0	2.9	12.7	382.4	0.0	548.9	251.4	48.0
09/14.d48	DUP95-7946-C2/QS4B - B19	2	50.0	6.1	18.3	494.9	0.0	703.2	503.3	48.5
09/14.d49	DUP95-7946-C2/QS4B - B19	5	20.0	2.8	15.5	475.0	0.0	666.0	500.5	41.9
09/14.d50	95-7947-C1/QS4C - B20	5	20.0	2.4	12.4	382.5	0.0	485.9	OR 615.4	138.3
09/14.d51	DUP95-7947-C2/QS4C - B21	2	50.0	5.4	14.6	370.6	0.0	469.4	681.3	150.7
09/14.d52	DUP95-7947-C2/QS4C - B21	5	20.0	2.4	13.8	436.7	0.0	542.7	733.7	175.8
09/14.d53	95-7948-C1/QS4D - B22	5	20.0	2.7	12.0	381.9	0.0	471.6	OR 766.9	202.6
09/14.d54	DUP95-7948-C2/QS4D - B23	2	50.0	7.1	19.2	390.8	0.0	477.4	988.3	100.5
09/14.d60	DUP95-7948-C2/QS4D - B23	5	20.0	3.8	13.3	428.9	0.0	525.0	887.8	107.6

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS2 (DATA ARCHIVAL LOCATOR)

OR = OVERRANGE

Crossed out values not USED
MWH 10-3-95

e509182r.CBV

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02513,PN900907

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst M. Mill 9/29/95

Reviewer PK Melettiel 9/29/95

Units of Measurement: ug/ml (ppm)

INJ.	SAMPLE ID.	INJ. VOL.	DIL.	F	Cl	NO2	Br	NO3	PO4	SO4
09/18.d22	SPIKE CHECK 950713 - A08	1	100.0	166.4	161.3	395.0	169.6	425.6	407.1	408.9
09/18.d23	95-7932-C1/SEG2 - A09	100	100.0	12.9	43.9	573.8	10.2	2415.9	32.8	27.5
09/18.d26	95-7932-C1/SEG2 - A12	100	20.0	2.2	31.4	565.2	5.1	776.9	10.7	13.0
09/18.d24	MS95-7932-C1/SEG2 - A10	100	100.0	191.7	216.5	995.7	190.6	2744.5	445.1	463.8
09/18.d25	MSD95-7932-C1/SEG2 - A11	100	100.0	190.8	214.5	1027.9	197.0	2815.4	472.0	472.7
09/18.d27	MS95-7932-C1/SEG2 - A13	100	20.0	20.6	67.9	631.0	35.6	785.0	102.3	105.6
09/18.d28	MSD95-7932-C1/SEG2 - A14	100	20.0	20.0	68.8	646.5	34.8	734.4	101.3	105.2
09/18.d40	MS95-7932-C4/SEG2 - A21	100	100.0	16.5	41.6	571.8	9.0	2448.4	56.1	159.1
09/18.d29	MS95-7932-C4/SEG2 - B26	5	20.0	4.1	36.9	609.3	3.6	578.8	~~42.2~~	~~167.8~~
09/18.d41	MS95-7932-C4/SEG2 - A22	100	20.0	3.9	35.7	600.6	5.0	621.1	42.9	156.4
09/18.d30	95-7941-C1/SEG1 - A15	100	50.0	60.8	10.5	79.1	6.3	565.5	652.2	14.9
09/18.d37	95-7941-C1/SEG1 - A18	100	20.0	66.5	6.5	77.3	5.4	563.2	648.0	7.1
09/18.d31	MS95-7941-C1/SEG1 - A16	100	50.0	164.5	97.8	309.2	102.9	817.3	893.8	238.8
09/18.d32	MSD95-7941-C1/SEG1 - A17	100	50.0	167.8	98.9	314.0	102.5	830.8	932.8	242.2
09/18.d38	MS95-7941-C1/SEG1 - A19	100	20.0	104.8	41.6	170.2	43.2	651.6	733.5	96.0
09/18.d39	MSD95-7941-C1/SEG1 - A20	100	20.0	116.2	43.2	187.6	44.5	738.3	821.8	99.6
09/18.d42	MS95-7941-C4/SEG1 - A23	100	100.0	70.2	18.5	118.7	6.3	704.6	719.8	145.4
09/18.d43	MS95-7941-C4/SEG1 - A24	100	20.0	74.3	10.5	114.9	5.0	700.7	707.1	139.5

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS2 (DATA ARCHIVAL LOCATOR)

Crossed out values not used MWM 10-3-95

WHC-SD-WM-DP-145, REV. 1

3-1469

e509b21f.csv

****REPORT GENERATION FOR LIQUID SAMPLES****

This compiled data sheet may be used for report generation, %RPD calculations, and spike recovery calculations.

Divide values in this table by DIL ((100/INJ VOL) X Manual Dilution from Data Review Sheet), to obtain the concentration in the analyzed solutions.

Approx. DL values (ug/ml, liquids) may be found by multiplying DIL by 0.25 and 0.5 for halides and oxy-anions, respectively.

M&TE ID: WD02514,PN900902

METHOD: PNL-MA 599-ALO-212, Var. Loop Size

Analyst: M. O'Neil 9/29/95

Reviewer: MW Lin 10-3-95

Units of Measurement: ug/ml (ppm)

INJ.	SAMPLE ID.	INJ. VOL.	DIL.	F	Cl	NO2	Br	NO3	PO4	SO4
09/08.d05	95-7941-C3/BLANK - A05	100	1.0	0.0	0.7	0.0	0.0	1.5	0.2	1.1
09/08.d06	95-7941-C1/SEG 1 - A06	1	100.0	68.4	9.6	88.8	9.7	559.8	622.2	21.7
09/08.d07	95-7942-C1/QS2A - A07	1	100.0	12.0	12.3	126.1	0.0	5402.7	29.4	23.5
09/08.d08	95-7943-C1/QS2D - A08	1	100.0	41.3	16.6	205.6	5.9	2652.2	144.1	106.4
09/08.d09	95-7944-C1/QS3A - A09	1	100.0	59.4	15.6	194.7	0.0	2522.1	82.5	187.4
09/08.d10	95-7945-C1/QS4A - A10	1	100.0	73.4	15.3	297.8	0.0	936.4	177.8	484.6
09/08.d11	95-7946-C1/QS4B - A11	1	100.0	8.7	15.6	356.9	0.0	506.3	226.6	57.8
09/08.d12	95-7947-C1/QS4C - A12	1	100.0	12.8	15.4	353.2	0.0	438.1	546.0	133.9
09/08.d13	95-7948-C1/QS4D - A13	1	100.0	11.7	15.1	346.1	0.0	430.7	743.8	188.5

SAMPLES ANALYZED USING SYSTEM IC-325-400 SYS1 (DATA ARCHIVAL LOCATOR)

NOTE: PO4 VALUES MAY BE LOW BY UPTO 20% (1/10 INJ; SEE SYS 2 RESULTS ON SPICHK.)

3-1420

WHC-SD-WM-DP-145, REV. 1

FOR DATA REVIEW

FOR DATA REVIEW

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M O'Neil 9-28-95

Reviewer P K Meletiel 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/28.d01	A950609V1/LO - A04	5	1	0.46	0.48	1.75	0.48	1.81	1.85	1.83
09/28.d02	A950609V2/MID - A04	15	1	3.71	3.70	14.42	3.72	14.20	14.23	14.32
09/28.d03	A950609V3/HI - A04	25	1	6.23	6.18	24.34	6.35	24.65	24.75	25.21
09/28.d04	A9509282B1 - A01	100	1	0.00	0.10	0.00	0.00	0.00	0.00	0.00
09/28.d05	A950609V1/LO - A04	5	1	1.18	1.15	4.55	1.18	4.39 •	5.09	4.44 •
09/28.d06	95-7932-C1/SEG2 - A09	10	1	0.16	3.11	53.17	0.00	-224.99	0.96	1.07
09/28.d07	95-7932-C2/SEG2 - A10	10	1	0.14	3.04	51.33	0.00	-203.97	0.75	1.03
09/28.d08	95-7932-C4/SEG2 - A11	10	1	0.14	3.49	55.36	0.00	-267.12	3.48	15.35
09/28.d09	95-7932-C5/SEG2 - A12	10	1	0.39	0.49	4.12	0.00	19.36	3.06	14.05
09/28.d10	95-7932-C4/SEG2 - A13	100	50	0.17	0.71	11.60	0.10	43.65	0.48	2.99
09/28.d11	95-7941-C1/SEG1 - A14	100	50	1.19	0.19	1.56	0.12	11.09	12.78	0.26
09/28.d12	95-7941-C2/SEG1 - A15	100	50	0.88	0.19	1.56	0.11	13.16	10.34	0.21
09/28.d13	95-7941-C4/SEG1 - A16	100	50	1.51	0.26	2.31	0.10	14.76	15.26	2.82
09/28.d14	95-7941-C5/SEG1 - A17	10	1	0.46	0.57	4.38	0.00	20.35	3.27	14.67
09/28.d15	95-7943-C1/QS2D - A18	100	200	0.22	0.14	1.06	0.03	13.18	0.85	0.63
09/28.d16	A950609V1/LO - A04	5	1	1.18	1.20	4.83	1.29	4.71	4.84	4.85
09/28.d17	A950609V2/MID - A04	15	1	3.58	3.72	14.78	3.78	14.56	14.94	14.91
09/28.d19	A9509282B2 - A02	100	1	0.00	0.10	0.20	0.00	0.22	0.00	0.00
09/28.d20	95-7943-C2/QS2D - A19	100	200	0.25	0.16	1.13	0.03	15.22	0.90	0.66
09/28.d21	95-7944-C1/QS3A - A20	100	200	0.29	0.15	0.97	0.00	11.90	0.49	0.98
09/28.d22	95-7944-C2/QS3A - A21	100	200	0.24	0.14	0.84	0.00	15.30	0.54	0.78
09/28.d23	95-7945-C1/QS4A - A22	10	1	6.68	1.11	30.08	0.00	51.02	18.51	45.11
09/28.d24	95-7945-C2/QS4A - A23	10	1	5.37	1.25	34.47	-3477.16	0.00	15.99	24.51
09/28.d25	95-7945-C1/QS4A - A22	5	1	3.53	0.58	15.24	0.00	42.63	8.95	25.40
09/28.d26	95-7945-C2/QS4A - A23	5	1	2.88	0.64	17.35	0.00	39.11	7.59	11.89

SAMPLES ANALYZED ON: 09/28/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

add d18 →

3-1471

WHC-SD-WM-DP-145, REV. 1

FOR DATA REVIEW

FOR DATA REVIEW

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst: M. Ortell 9-28-95

Reviewer: PK Melethil 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/28.d27	95-7945-C1/QS4A - A24	100	100	0.70	0.19	2.93	0.00	9.50	1.88	5.16
09/28.d28	95-7945-C2/QS4A - A25	100	100	0.59	0.21	3.33	0.00	23.52	1.62	2.40
09/28.d29	95-7946-C1/QS4B - A26	10	1	0.11	1.09	34.64	0.00	44.83	22.97	4.29
09/28.d30	A950609V1/LO - A04	5	1	1.18	1.16	4.73	1.24	4.56	4.75	4.75
09/28.d31	A950609V2/MID - A04	15	1	3.66	3.72	14.93	3.82	14.46	14.57	14.60
09/28.d32	A950609V3/HI - A04	25	1	6.14	6.14	24.57	6.30	23.75	24.71	24.64
09/28.d33	A9509282B3 - A03	100	1	0.00	0.10	0.00	0.00	0.22	0.00	0.00
09/28.d34	95-7946-C2/QS4B - A27	10	1	0.24	1.42	44.25	0.00	51.27	41.26	3.60
09/28.d35	95-7948-C1/QS4D - A28	10	1	0.32	1.08	34.48	0.00	40.62	51.95	18.25
09/28.d36	95-7948-C2/QS4D - A29	10	1	0.21	1.11	39.00	0.00	44.19	46.71	9.60
09/28.d37	A950609V1/LO - A04	5	1	1.20	1.18	4.81	1.27	4.63	4.92	4.86
09/28.d38	A950609V2/MID - A04	15	1	3.73	3.76	15.11	3.82	14.68	15.00	14.94
09/28.d39	A950609V3/HI - A04	25	1	6.25	6.27	25.08	6.41	24.20	25.59	25.36
09/28.d40	A9509282B4 - A03	100	1	0.00	0.10	0.00	0.00	0.23	0.21	0.00
09/28.d41	95-7932-C1/SEG2 - A09	10	1	0.15	3.17	54.23	-3428.28	0.00	0.81	1.12
09/28.d42	A950609V1/LO - A05	5	1	0.95 •	1.08•	4.37 •	1.15	4.26 •	4.28 •	4.34 •
09/28.d43	A950609V2/MID - A05	15	1	3.51 •	3.74	15.01	3.81	14.61	14.53	14.60
09/28.d44	95-7932-C5/SEG2 - A12	10	1	0.46	0.51	4.17	0.00	19.57	3.16	13.67
09/28.d45	95-7932-C4/SEG2 - A13	100	50	0.20	0.71	11.46	0.15	42.77	0.94	2.85
09/28.d46	A950609V1/LO - A05	5	1	1.20	1.19	4.84	1.26	4.69	4.84	4.85
09/28.d47	A950609V2/MID - A05	15	1	3.77	3.77	15.19	3.88	14.68	15.45	15.31
09/28.d48	A950609V3/HI - A05	25	1	6.08	6.15	24.57	6.23	24.17	24.35	24.30
09/28.d49	A9509282B5 - A03	100	1	0.00	0.10	0.20	0.00	0.23	0.00	0.00

SAMPLES ANALYZED ON: 09/28/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

FOR DATA REVIEW ***FOR DATA REVIEW***

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993 METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. O'Neill 9/29/95 Reviewer PK Meleti 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d01	AUTOCAL1R - A06	100	1	0.25	0.25	0.50	0.25	0.50	0.50	0.50
09/14.d02	AUTOCAL2R - A06	100	1	0.50	0.50	1.00	0.50	1.00	1.00	1.00
09/14.d03	AUTOCAL3R - A07	100	1	1.25	1.25	5.00	1.25	5.00	5.00	5.00
09/14.d04	AUTOCAL4R - A07	100	1	2.50	2.50	10.00	2.50	10.00	10.00	10.00
09/14.d05	AUTOCAL5R - A07	100	1	5.00	5.00	20.00	5.00	20.00	20.00	20.00
09/14.d06	AUTOCAL6R - A07	100	1	7.50	7.50	30.00	7.50	30.00	30.00	30.00
09/14.d07	CAL CHECK 1 - A06	1	1	0.30	0.30	0.63	0.27	0.63	0.66	0.64
09/14.d08	CAL CHECK 6 - A07	30	1	6.85	6.85	27.27	6.80	27.33	27.14	27.06
09/14.d09	A950609V1/LO - A04	5	1	1.21	1.21	4.90	1.29	4.79	4.97	4.94
09/14.d10	A950609V2/MID - A04	15	1	3.83	3.81	15.41	3.91	15.00	15.45	15.37
09/14.d11	A950609V3/HI - A04	25	1	6.43	6.46	25.72	6.58	25.36	26.10	25.93
09/14.d12	A9509142B1 - A01	100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/14.d13	A9509142B1 - A01	100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/14.d14	A9509142B1 - A01	100	1	0.00	0.11	0.00	0.00	0.00	0.00	0.00
09/14.d15	95-7932-C1/SEG2 - B01	1	1	0.12	0.39	5.69	0.07	23.78	0.30	0.32
09/14.d16	95-7935-C1/SEG3 - B02	1	1	0.11	0.38	5.63	0.03	20.37	0.29	0.31
09/14.d17	95-7941-C3/PB-SEG1 -	100	1	0.17	0.73	0.24	0.00	1.55	0.29	1.21
09/14.d18	95-7941-C1/SEG1 - B04	5	1	3.33	0.33	4.07	0.27	28.87	32.26	0.36
09/14.d19	DUP95-7941-C2/SEG1 -	1	1	0.53	0.14	0.88	0.06	6.26	4.95	0.25
09/14.d20	DUP95-7941-C2/SEG1 -	5	1	2.64	0.33	4.02	0.26	32.26	25.80	0.36
09/14.d21	MS95-7941-C4 - B06	5	1	3.79	0.52	5.90	0.26	34.79	35.04	7.11
09/14.d22	SB95-7941-C5 - B07	5	1	0.30	0.34	2.31	0.00	10.40	1.83	7.44
09/14.d23	95-7942-C1/QS2A - B08	20	100	0.10	0.12	0.43	0.05	11.94	0.29	0.22
09/14.d24	DUP95-7942-C2/QS2A -	20	100	0.10	0.11	0.43	0.00	12.01	0.28	0.00
09/14.d25	A950609V1/LO - A04	5	1	1.32	1.31	5.35	1.41	5.19	5.42	5.37

SAMPLES ANALYZED ON: 09/14/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

3-1473

WHC-SD-WM-DP-145, REV. 1

FOR DATA REVIEW ***FOR DATA REVIEW***

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993 METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. O'Neill 9/29/95 Reviewer PK Meletthil 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d26	A950609V2/MID - A04	15	1	3.91	3.99	15.93	4.09	15.66	16.23	16.03
09/14.d27	A950609V3/HI - A04	25	1	6.61	6.67	26.52	6.82	26.12	27.12	26.80
09/14.d28	A9509142B2 - A02	100	1	0.00	0.14	0.00	0.03	0.25	0.00	0.00
09/14.d29	A9509142B2 - A02	100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/14.d30	95-7942-C1/QS2A - B10	5	1	0.23	0.41	6.26	-6530.05	0.00	1.09	0.46
09/14.d31	DUP95-7942-C2/QS2A -	1	1	0.13	0.16	1.24	0.02	46.15	0.39	0.27
09/14.d32	DUP95-7942-C2/QS2A -	5	1	0.23	0.38	5.51	-5834.50	0.00	1.03	0.42
09/14.d33	95-7943-C1/QS4D - B12	5	1	2.10	0.63	11.06	-1163.63	0.00	0.34	5.22
09/14.d34	DUP95-7943-C2/QS4D	1	1	0.49	0.21	2.21	0.04	29.69	1.66	1.23
09/14.d35	DUP95-7943-C2/QS4D	5	1	2.27	0.68	11.58	-1647.67	0.00	8.07	5.70
09/14.d36	95-7944-C1/QS3A - B14	5	1	2.84	0.62	10.29	0.00	9.81	0.30	9.91
09/14.d37	DUP95-7944-C2/QS3A -	1	1	0.44	0.17	1.49	0.00	27.77	0.94	1.39
09/14.d38	DUP95-7944-C2/QS3A -	5	1	2.23	0.51	8.23	-1670.81	0.00	4.52	7.15
09/14.d39	95-7945-C1/QS4A - B16	5	1	3.88	0.64	16.52	0.00	44.21	10.15	27.13
09/14.d40	A950609V1/LO - A05	5	1	1.35	1.33	5.38	1.42	5.21	5.54	5.40
09/14.d41	A950609V2/MID - A05	15	1	4.06	4.12	16.54	4.23	16.25	16.84	16.57
09/14.d42	A950609V3/HI - A05	25	1	6.68	6.69	26.82	6.88	26.59	27.50	27.06
09/14.d43	A9509142B3 - A03	100	1	0.00	0.22	0.00	0.00	0.24	0.00	0.00
09/14.d44	A9509142B3 - A03	100	1	0.00	0.22	0.24	0.00	0.41	0.00	0.00
09/14.d45	DUP95-7945-C2/QS4A -	2	1	1.19	0.33	6.85	0.00	41.67	3.13	4.76
09/14.d46	DUP95-7945-C2/QS4A -	5	1	3.08	0.69	18.23	0.00	15.61	0.36	12.78
09/14.d47	95-7946-C1/QS4B - B18	5	1	0.14	0.63	19.12	0.00	27.44	12.57	2.40
09/14.d48	DUP95-7946-C2/QS4B -	2	1	0.12	0.37	9.90	0.00	14.06	10.07	0.97
09/14.d49	DUP95-7946-C2/QS4B -	5	1	0.14	0.77	23.75	0.00	33.30	25.02	2.10
09/14.d50	95-7947-C1/QS4C - B20	5	1	0.12	0.62	19.13	0.00	24.30	30.77	6.92

SAMPLES ANALYZED ON: 09/14/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

FOR DATA REVIEW

FOR DATA REVIEW

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. O'Neill 9/29/95

Reviewer PK Nelettul 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d51	DUP95-7947-C2/QS4C	2	1	0.11	0.29	7.41	0.00	9.39	13.63	3.01
09/14.d52	DUP95-7947-C2/QS4C	5	1	0.32	0.84	21.84	0.00	27.14	36.68	8.79
09/14.d53	95-7948-C1/QS4D - B22	5	1	0.20	0.75	19.09	0.00	23.58	38.34	10.13
09/14.d54	DUP95-7948-C2/QS4D	2	1	0.14	0.38	7.82	0.00	9.55	19.77	2.01
09/14.d55	A950609V1/LO - A05	5	1	1.34	1.32	5.34	1.41	5.20	5.47	5.36
09/14.d56	A950609V2/MID - A05	15	1	4.04	4.10	16.43	4.19	16.16	16.75	16.44
09/14.d57	A950609V3/HI - A05	25	1	6.76	6.80	27.15	6.90	26.82	27.69	27.27
09/14.d58	A9509142B3 - A03	100	1	0.11	0.27	0.32	0.00	1.12	0.32	0.27
09/14.d59	A9509142B3 - A03	100	1	0.19	0.30	0.80	0.03	6.11	0.81	0.59
09/14.d60	DUP95-7948-C2/QS4D	5	1	0.18	0.85	21.45	0.00	26.25	44.39	5.38
09/14.d61	95-7941-C1/SEG1 - B04	1	1	0.68	0.15	0.92	0.06	5.67	6.70	0.24
09/14.d62	MS95-7941-C4 - B06	1	1	0.69	0.18	1.15	0.05	6.52	6.70	1.41
09/14.d63	SB95-7941-C5 - B07	10	1	0.53	0.62	4.80	0.00	21.64	3.64	15.60
09/14.d64	95-7932-C3/PB-SEG2 -	100	1	0.10	0.20	0.32	0.00	0.81	0.28	0.59
09/14.d65	DUP95-7932-C2/SEG2 -	1	1	0.24	0.43	5.73	0.08	23.66	0.32	0.33
09/14.d66	95-7932-C1/SEG2 - B01	5	1	0.19	1.89	29.43	0.11	19.00	0.53	0.76
09/14.d67	DUP95-7932-C2/SEG2 -	5	1	0.21	1.85	28.22	0.10	24.41	0.50	0.73
09/14.d68	MS95-7932-C4/SEG3 -	1	1	0.17	0.41	5.72	0.07	23.88	0.55	1.58
09/14.d69	MS95-7932-C4/SEG3 -	10	1	0.20	3.83	56.98	-5853.45	0.00	4.15	16.83
09/14.d70	A950609V1/LO - A06	5	1	1.08	1.28	5.23	1.36	5.09	5.21	5.19
09/14.d71	A950609V2/MID - A06	15	1	3.84	4.12	16.56	4.22	16.23	16.86	16.56
09/14.d72	A950609V3/HI - A06	25	1	6.55	6.78	27.08	6.90	26.61	27.65	27.23
09/14.d73	A9509142B4 - A38	100	1	0.00	0.11	0.00	0.00	0.00	0.28	0.00
09/14.d74	A9509142B4 - A38	100	1	0.00	0.13	0.24	0.00	0.24	0.00	0.00
09/14.d75	SB95-7932-C5/SEG3 -	10	1	0.53	0.55	4.65	0.00	21.28	3.59	15.30

SAMPLES ANALYZED ON: 09/14/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

FOR DATA REVIEW ***FOR DATA REVIEW***

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. O'Neill 9/29/95

Reviewer PK Mehthil 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/14.d76	DUP95-7935-C2/SEG3 -	1	1	0.24	0.40	5.92	0.04	21.27	0.32	0.34
09/14.d77	95-7935-C1/SEG3 - B02	5	1	0.19	1.71	30.07	0.00	32.09	0.50	0.81
09/14.d78	DUP95-7935-C2/SEG3 -	5	1	0.19	1.64	28.81	0.11	36.45	0.50	0.77
09/14.d79	A950609V1/LO - A07	5	1	0.95	1.01	4.11	1.07	4.01	4.12	4.13
09/14.d80	A950609V2/MID - A07	15	1	3.94	4.10	16.36	4.18	15.85	16.67	16.37
09/14.d81	A950609V3/HI - A07	25	1	6.63	6.72	26.81	6.87	25.29	27.35	26.89
09/14.d82	A9509142B5 - A37	100	1	0.00	0.11	0.00	0.00	0.24	0.29	0.23
09/14.d83	A9509142B5 - A37	100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.23
09/14.d84	DDI - A39	100	1	0.10	0.00	0.42	0.00	0.00	0.26	0.00
09/14.d85	DDI - A39	100	1	0.10	0.14	0.00	0.00	0.25	0.00	0.00

SAMPLES ANALYZED ON: 09/14/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

FOR DATA REVIEW

FOR DATA REVIEW

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. Mill 9/29/95

Reviewer P K Melethil 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/18.d01	A950609V1/LO - A04	5	1	0.98	0.96	3.86	1.02	3.79	3.96	3.88
09/18.d02	A950609V2/MID - A04	15	1	4.07	4.11	16.49	4.21	16.25	16.75	16.54
09/18.d03	A950609V3/HI - A04	25	1	6.63	6.65	26.48	6.76	26.19	26.46	26.22
09/18.d04	A9509182B1 - A01	100	1	0.00	0.15	0.00	0.00	0.00	0.00	0.00
09/18.d05	A950609V1/LO - A04	5	1	1.32	1.29	5.29	1.39	5.16	5.43	5.34
09/18.d06	A950609V2/MID - A04	15	1	4.11	4.16	16.65	4.24	16.30	16.92	16.57
09/18.d07	SPIKE CHECK 950713 -	1	1	1.57	1.55	3.78	1.62	4.09	4.07	3.92
09/18.d08	AUTOCAL1R - A06	100	1	0.25	0.25	0.50	0.25	0.50	0.50	0.50
09/18.d09	AUTOCAL2R - A06	100	1	0.50	0.50	1.00	0.50	1.00	1.00	1.00
09/18.d10	AUTOCAL3R - A07	100	1	1.25	1.25	5.00	1.25	5.00	5.00	5.00
09/18.d11	AUTOCAL4R - A07	100	1	2.50	2.50	10.00	2.50	10.00	10.00	10.00
09/18.d12	AUTOCAL5R - A07	100	1	5.00	5.00	20.00	5.00	20.00	20.00	20.00
09/18.d13	AUTOCAL6R - A07	100	1	7.50	7.50	30.00	7.50	30.00	30.00	30.00
09/18.d14	CAL CHECK 1 - A06	1	1	0.28	0.30	0.58	0.30	0.65	0.64	0.62
09/18.d15	CAL CHECK 6 - A07	30	1	7.53	7.49	30.19	7.53	30.16	30.14	30.17
09/18.d16	A950609V1/LO - A04	5	1	1.26	1.24	5.01	1.32	4.81	5.02	5.00
09/18.d17	A950609V2/MID - A04	15	1	3.88	3.86	15.54	3.96	14.96	15.68	15.61
09/18.d18	A950609V3/HI - A04	25	1	6.43	6.48	25.85	6.59	25.40	26.30	26.12
09/18.d19	A9509182B2 - A01	100	1	0.00	0.13	0.00	0.00	0.00	0.24	0.00
09/18.d20	A9509182B2 - A01	100	1	0.00	0.12	0.00	0.00	0.00	0.20	0.17
09/18.d21	A9509182B2 - A01	100	1	0.00	0.13	0.00	0.00	0.00	0.23	0.00
09/18.d22	SPIKE CHECK 950713 -	1	1	1.66	1.61	3.95	1.70	4.26	4.07	4.09
09/18.d23	95-7932-C1/SEG2 - A09	100	100	0.13	0.44	5.74	0.10	24.16	0.33	0.28
09/18.d24	MS95-7932-C1/SEG2 -	100	100	1.92	2.17	9.96	1.91	27.45	4.45	4.64
09/18.d25	MSD95-7932-C1/SEG2	100	100	1.91	2.15	10.28	1.97	28.15	4.72	4.73

SAMPLES ANALYZED ON: 09/18/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

FOR DATA REVIEW

FOR DATA REVIEW

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All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900907,WD25123,P/NB11620,P/NF02993

METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. O'Neill 9/29/95

Reviewer P K Meleth 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/18.d26	95-7932-C1/SEG2 - A12	100	20	0.11	1.57	28.26	0.26	38.84	0.53	0.65
09/18.d27	MS95-7932-C1/SEG2 -	100	20	1.03	3.40	31.55	1.78	39.25	5.12	5.28
09/18.d28	MSD95-7932-C1/SEG2	100	20	1.00	3.44	32.33	1.74	36.72	5.07	5.26
09/18.d29	MS95-7932-C4/SEG2 -	5	1	0.20	1.84	30.47	0.18	28.94	2.11	7.89
09/18.d30	95-7941-C1/SEG1 - A15	100	50	1.22	0.21	1.58	0.13	11.31	13.04	0.30
09/18.d31	MS95-7941-C1/SEG1 -	100	50	3.29	1.96	6.18	2.06	16.35	17.88	4.78
09/18.d32	MSD95-7941-C1/SEG1	100	50	3.36	1.98	6.28	2.05	16.62	18.66	4.84
09/18.d33	A950609V1/LO - A05	5	1	1.22	1.21	4.86	1.28	4.73	4.92	4.88
09/18.d34	A950609V2/MID - A05	15	1	3.97	4.02	16.07	4.07	15.71	16.23	16.15
09/18.d35	A950609V3/HI - A05	25	1	6.54	6.58	26.30	6.72	25.81	26.67	26.57
09/18.d36	A9509182B2 - A02	100	1	0.00	0.00	0.00	0.04	0.00	0.25	0.18
09/18.d37	95-7941-C1/SEG1 - A18	100	20	3.32	0.32	3.87	0.27	28.16	32.40	0.35
09/18.d38	MS95-7941-C1/SEG1 -	100	20	5.24	2.08	8.51	2.16	32.58	36.67	4.80
09/18.d39	MSD95-7941-C1/SEG1	100	20	5.81	2.16	9.38	2.22	36.92	41.09	4.98
09/18.d40	MS95-7932-C4/SEG2 -	100	100	0.16	0.42	5.72	0.09	24.48	0.56	1.59
09/18.d41	MS95-7932-C4/SEG2 -	100	20	0.20	1.78	30.03	0.25	31.05	2.15	7.82
09/18.d42	MS95-7941-C4/SEG1 -	100	100	0.70	0.18	1.19	0.06	7.05	7.20	1.45
09/18.d43	MS95-7941-C4/SEG1 -	100	20	3.72	0.52	5.74	0.25	35.03	35.36	6.98
09/18.d44	A950609V1/LO - A05	5	1	1.31	1.29	5.27	1.38	5.14	5.33	5.29
09/18.d45	A950609V2/MID - A05	15	1	4.02	4.00	16.18	4.09	15.79	16.34	16.23
09/18.d46	A950609V3/HI - A05	25	1	6.71	6.69	26.89	6.84	26.37	27.26	27.10
09/18.d47	A9509182B4 - A03	100	1	0.00	0.13	0.00	0.00	0.00	0.00	0.00
09/18.d48	DDI - A39	100	1	0.00	0.14	0.00	0.00	0.00	0.00	0.00
09/18.d49	DDI - A39	100	1	0.00	0.13	0.00	0.00	0.00	0.00	0.00

SAMPLES ANALYZED ON: 09/18/95 USING SYSTEM IC-325-400-SYS 2 (DATA ARCHIVAL LOCATOR)

3-1478

WHC-SD-WM-DP-145, REV. 1

FOR DATA REVIEW ***FOR DATA REVIEW***

This compiled data sheet is for data review and spike recovery calculations. Verification data is included.

All values are in ug/ml and are derived by dividing system quantitated values by (100/INJ VOL) X DIL(manual dilution factor).

100% ANALYTE LEVELS (HALIDES/OXYANIONS) : V1/LO- 1.25/5.00, V2/MID - 3.75/15.00, V3/HI - 6.25/25.00, SPIKE - 2.00/5.00

M & TE ID: PN900902, WD25124,P/NB11620,P/NF02993 METHOD: PNL-MA-599-ALO-212, Var. Loop Size

Analyst M. Miller 9/29/95 Reviewer P K Meleth 9/29/95

INJ	SAMPLE ID	INJ VOL	DIL	F	Cl	NO2	Br	NO3	PO4	SO4
09/08.d01	A950609V1/LO - A04	5	1	1.15	1.18	4.77	1.22	4.73	4.66	4.79
09/08.d02	A950609V2/MID - A04	15	1	3.59	3.65	14.79	3.79	14.68	14.73	14.98
09/08.d03	A950609V3/HI - A04	25	1	6.03	6.09	24.81	6.46	24.20	24.76	24.95
09/08.d04	A950908B1 - A01	100	1	0.00	0.00	0.00	0.00	0.00	0.20	0.00
09/08.d05	95-7941-C3/BLANK - A0	100	1	0.00	0.69	0.00	0.00	1.46	0.20	1.09
09/08.d06	95-7941-C1/SEG 1 - A0	1	1	0.68	0.10	0.89	0.10	5.60	6.22	0.22
09/08.d07	95-7942-C1/QS2A - A07	1	1	0.12	0.12	1.26	0.00	54.03	0.29	0.24
09/08.d08	95-7943-C1/QS2D - A08	1	1	0.41	0.17	2.06	0.06	26.52	1.44	1.06
09/08.d09	95-7944-C1/QS3A - A09	1	1	0.59	0.16	1.95	0.00	25.22	0.83	1.87
09/08.d10	95-7945-C1/QS4A - A10	1	1	0.73	0.15	2.98	0.00	9.36	1.78	4.85
09/08.d11	95-7946-C1/QS4B - A11	1	1	0.09	0.16	3.57	0.00	5.06	2.27	0.58
09/08.d12	95-7947-C1/QS4C - A12	1	1	0.13	0.15	3.53	0.00	4.38	5.46	1.34
09/08.d13	95-7948-C1/QS4D - A13	1	1	0.12	0.15	3.46	0.00	4.31	7.44	1.88
09/08.d14	A950609V1/LO - A04	5	1	1.14	1.19	4.77	1.22	4.75	4.63	4.78
09/08.d15	A950609V2/MID - A04	15	1	3.59	3.65	14.90	3.78	14.63	14.81	14.99
09/08.d16	A950609V3/HI - A04	25	1	6.01	6.13	24.78	6.47	24.27	24.91	25.02
09/08.d17	A950908B2 - A03	100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SAMPLES ANALYZED ON: 09/08/95 USING SYSTEM IC-325-400-SYS 1 (DATA ARCHIVAL LOCATOR)

3-1479

WHC-SD-WM-DP-165, REV. 1

DIONEX METHOD PARAMETERS - 2ANIONS2.MET

Method Comment: CALIBRATED ON 07/31/95 USING CAL STDS PREPD. 06/09/95. *** FLOW RATE: 1.8 MLS/ MIN*** SES WAS SUPPLIED WITH DDI WATER VIA A POSITIVE DISPLACEMENT PUMP AT 14 STROKE RATE.
Column ID: AG4A/AS4A
Analyst ID: MMO

System Parameters

System Name: ANIONS2	
Number of Detectors	1
Run Time (minutes)	10.00
Sampling Rate (seconds)	0.20
Detector 1 Type	PED-Cond.
Detector 1 real time plot scale maximum (uS)	10.000
minimum	-1.000
Save Data File	Yes
Data File Name: C:\DX\DATA\9509142\95091421.D41	

-- DETECTOR 1 PARAMETERS --

Report Options

Create ASCII Report File	No
Print Report	Yes
Print All Components	No
Print Components Found	No
Print Missing Components	No
Print All Peaks	Yes
Print Unknown Peaks	No
Print Chromatogram	Yes
Autoscale Chromatogram Maximum	Yes
Autoscale Maximum Value Delay (minutes)	0.0
Autoscale Chromatogram Minimum	Yes
Autoscale Minimum Value Delay (minutes)	0.0
Fill Peaks with Color	No
Draw Grid Lines on Chromatogram	No
Show Component Fraction Numbers	No
Label with Peak Number	No
Label with Retention Times on Chromatogram	Yes
Label with Component Name	No
Format File Name: C:\DX\METHOD\DEFAULT.PRF	

Integration Parameters

Starting Peak Width (seconds)	10.0
Peak Threshold	24.662
Peak Area Reject	30000
Area Reject for Reference Peaks	30000

Data Events

Time	Description
0.00	Force exponential skim
0.00	Stop peak detection
0.85	Start peak detection
1.08	Void volume treatment for this peak
2.00	Force baseline at start of all peaks
2.70	Double bunching factor

Calibration Parameters

Number Of Levels for Calibration	6
Force Calibration Curve Through Origin	No
Calibration Fit Type	Quadratic
Replace Or Average Calibrations	Replace
External or Internal Calibration	External
Calculate Unknowns by Area or Height	Area
Default Sample Volume	15.0
Default Dilution Factor	1.0
Default Response Factor for Unknown Peaks	0.0
Calibration Standard Volume	100.0
Internal Standard Amount in Samples	1.0
Amount Units	ppm

Component Table -- Last Modified: 14:06 on Thu, 14 Sep 1995

Component # 1 FLUORIDE Retention Time 0.98
Reference Comp. CHLORIDE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.00113E-001
K1 = 2.30056E-008
K2 = -2.81981E-018

Level	Amount	Area	Height
1	2.50000E-001	8824466	2255543
2	5.00000E-001	16594150	4430461
3	1.25000E+000	48669336	17748351
4	2.50000E+000	104667218	38673820
5	5.00000E+000	220703555	56600574
6	7.50000E+000	334763776	85658601

Component # 2 CHLORIDE Retention Time 1.63
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.01876E-001
K1 = 3.79691E-008
K2 = -2.83657E-017

Level	Amount	Area	Height
1	2.50000E-001	5667871	1664722
2	5.00000E-001	10449509	3132001
3	1.25000E+000	29570701	8010478
4	2.50000E+000	64795790	18102870
5	5.00000E+000	146849385	38543469
6	7.50000E+000	235868741	59247946

Component # 3 NITRITE Retention Time 2.05
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.24293E-001
K1 = 5.69708E-008
K2 = -5.16219E-018

Level	Amount	Area	Height
1	5.00000E-001	7324093	1647134
2	1.00000E+000	13492481	3046851
3	5.00000E+000	81808966	16529023
4	1.00000E+001	172796027	39375593
5	2.00000E+001	361771084	69696250
6	3.00000E+001	548948074	98479352

Component # 4 BROMIDE Retention Time 3.07
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.10469E-002
K1 = 1.06145E-007
K2 = -1.98344E-016

Level	Amount	Area	Height
1	2.50000E-001	2572879	293701
2	5.00000E-001	4334171	588569
3	1.25000E+000	11987668	1658364
4	2.50000E+000	24435032	3385999
5	5.00000E+000	52209563	7128080
6	7.50000E+000	83570378	9451762

Component # 5 NITRATE Retention Time 3.47
Reference Comp. NITRATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.25243E-001
K1 = 7.25350E-008
K2 = -2.69266E-017

Level	Amount	Area	Height
1	5.00000E-001	6282630	579933
2	1.00000E+000	11215072	998073
3	5.00000E+000	64563672	5689587
4	1.00000E+001	139708676	13674644
5	2.00000E+001	311829682	27169742
6	3.00000E+001	503705024	44134389

Component # 6 PHOSPHATE Retention Time 5.60
Reference Comp. NITRATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.41203E-001
K1 = 1.48283E-007
K2 = -1.18078E-016

Level	Amount	Area	Height
1	5.00000E-001	2499197	202147
2	1.00000E+000	5484991	398506
3	5.00000E+000	32091888	2463551
4	1.00000E+001	68318216	5422810
5	2.00000E+001	153303486	11717741
6	3.00000E+001	250099032	18369260

Component # 7 SULFATE Retention Time 7.37
Reference Comp. SULFATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.19538E-001
K1 = 5.65209E-008
K2 = -1.66212E-017

Level	Amount	Area	Height
1	5.00000E-001	7554253	419135
2	1.00000E+000	14620121	763968
3	5.00000E+000	83491346	4651969
4	1.00000E+001	179958625	10194375
5	2.00000E+001	400674008	21996513
6	3.00000E+001	650097718	34654287

Timed Events File: C:\DX\METHOD\2ANIONS2.TE

Step	Time	Description
Init		PED AutoOffset Off
Init		PED Cell ON
Init		PED Recorder Mark OFF
Init		PED Recorder Range = 0.100 uS
Init		ACI RLY 2 OFF
Init		ACI RLY 3 OFF
Init		ACI RLY 4 OFF
Init		ACI HOLD 2 OFF
Init		ACI TTL 3 OFF
Init		ACI TTL 4 OFF
Init		ACI Regen ON
Init		GPM Start
Init		GPM Hold Gradient Clock
Init		GPM Reset ON
1	0.0	PED AutoOffset ON
1	0.0	GPM Run Gradient Clock
1	0.0	GPM Reset OFF
2	0.1	Start Sampling

Lo Pressure Limit = 0
Hi Pressure Limit = 5000
Eluent 1 - Eluant 1 CO3 / HCO3
Eluent 2 - Eluant 2
Eluent 3 - Eluant 3
Eluent 4 - Eluant 4
V5 Off - Off
V5 On - On
V6 Off - Off
V6 On -

Time	Flow	%1	%2	%3	%4	V5	V6	Comment
0.0	1.8	100	0	0	0	0	0	1CLEANUP
0.1	1.8	100	0	0	0	0	0	
1.1	1.8	100	0	0	0	0	0	

PED file: C:\DX\METHOD\2ANIONS2.PCD
Temperature: 1.7 Deg. C

********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL1R - A06 Date: Thu Sep 14 13:09:17 1995
Raw File : C:\DX\DATA\9509142\95091421.D01
Method : c:\dx\method\2anions2.met Calibration Level: 1
ACI Address: 1 System : 2 Inject#: 1 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.97	0.90	0.90	6.248e+006	8.824e+006	8.824e+006
2	CHLORIDE	1.65	1.55	1.55	4.139e+006	5.668e+006	5.668e+006
3	NITRITE	2.08	1.93	1.93	5.525e+006	7.324e+006	7.324e+006
4	BROMIDE	3.17	3.07	3.07	1.769e+006	2.573e+006	2.573e+006
5	NITRATE	3.57	3.63	3.63	4.427e+006	6.283e+006	6.283e+006
6	PHOSPHATE	5.77	5.77	5.77	2.067e+006	2.499e+006	2.499e+006
7	SULFATE	7.73	7.53	7.53	5.907e+006	7.554e+006	7.554e+006

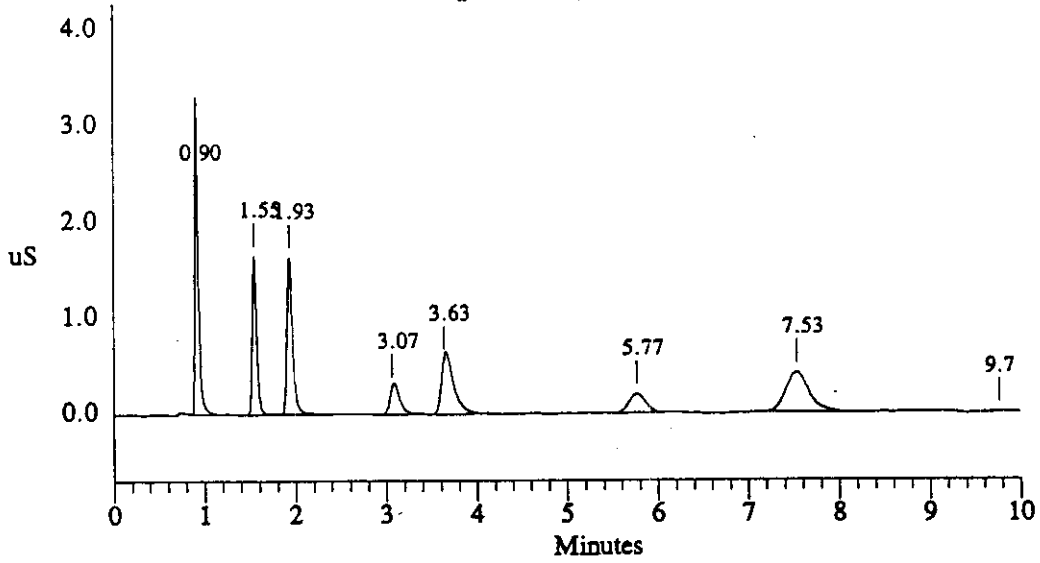
Sample Name: AUTOCAL1R - A06				Date: 09/14/1995 13:09:17	
Data File : C:\DX\DATA\9509142\95091421.D01					
Method : c:\dx\method\2anions2.met					
ACI Address: 1 System: 2 Inject#: 1 Vial:A06					Detector:PED-Cond.
Analyst : MMO			Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.90	FLUORIDE	0.250	2255543	8824466	1	-0.89
2	1.55	CHLORIDE	0.250	1664722	5667871	1	0.00
3	1.93	NITRITE	0.500	1647134	7324093	1	-1.21
4	3.07	BROMIDE	0.250	293701	2572879	1	3.09
5	3.63	NITRATE	0.500	579933	6282630	1	0.00
6	5.77	PHOSPHATE	0.500	202147	2499197	1	-1.83
7	7.53	SULFATE	0.500	419135	7554253	1	0.00
8	9.77		0.000	6867	78054	1	
		Totals	2.750	7069184	40803443		

File: 95091421.D01 Sample: AUTOCAL1R - A06



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL2R - A06 Date: Thu Sep 14 13:20:37 1995
Raw File : C:\DX\DATA\9509142\95091421.D02
Method : c:\dx\method\2anions2.met Calibration Level: 2
ACI Address: 1 System : 2 Inject#: 2 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.90	0.98	0.98	1.261e+007	1.659e+007	1.659e+007
2	CHLORIDE	1.55	1.63	1.63	8.128e+006	1.045e+007	1.045e+007
3	NITRITE	1.93	2.02	2.02	1.088e+007	1.349e+007	1.349e+007
4	BROMIDE	3.07	3.17	3.17	3.429e+006	4.334e+006	4.334e+006
5	NITRATE	3.63	3.70	3.70	8.722e+006	1.122e+007	1.122e+007
6	PHOSPHATE	5.77	5.83	5.83	4.279e+006	5.485e+006	5.485e+006
7	SULFATE	7.53	7.57	7.57	1.190e+007	1.462e+007	1.462e+007

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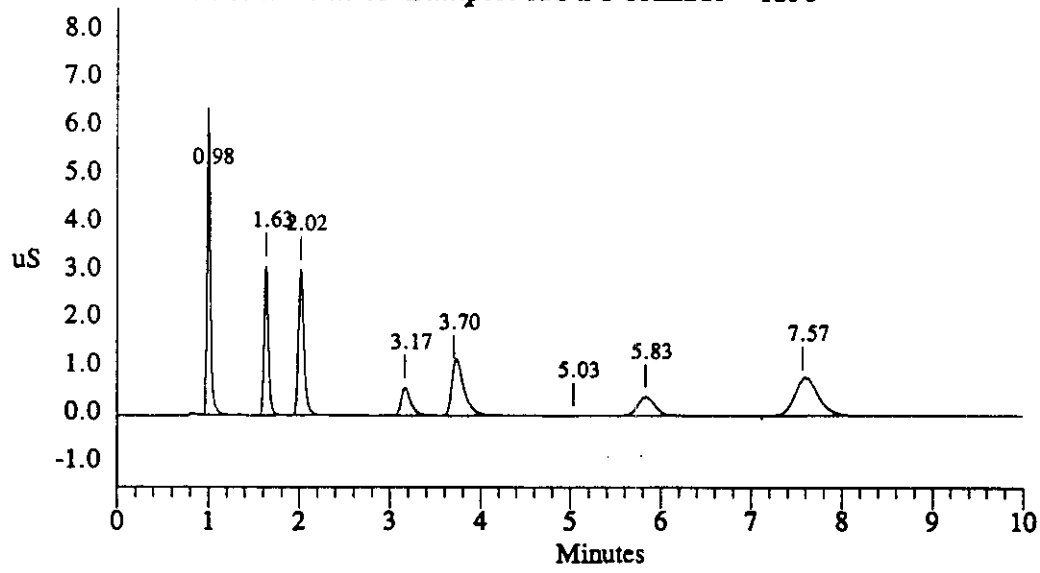
Sample Name: AUTOCAL2R  - A06                Date: 09/14/1995 13:20:37
Data File  : C:\DX\DATA\9509142\95091421.D02
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 2   Vial:A06        Detector:PED-Cond.
Analyst    : MMO             Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	0.500	4430461	16594150	1	3.68
2	1.63	CHLORIDE	0.500	3132001	10449509	1	0.00
3	2.02	NITRITE	1.000	3046851	13492481	1	-1.01
4	3.17	BROMIDE	0.500	588569	4334171	1	-2.01
5	3.70	NITRATE	1.000	998073	11215072	1	0.00
6	5.03		0.000	13654	146828	1	
7	5.83	PHOSPHATE	1.000	398506	5484991	1	-0.67
8	7.57	SULFATE	1.000	763968	14620121	1	0.00
		Totals	5.500	13372084	76337325		

File: 95091421.D02 Sample: AUTOCAL2R - A06



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL3R - A07 Date: Thu Sep 14 13:31:57 1995
Raw File : C:\DX\DATA\9509142\95091421.D03
Method : c:\dx\method\2anions2.met Calibration Level: 3
ACI Address: 1 System : 2 Inject#: 3 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.98	0.97	0.97	3.254e+007	4.867e+007	4.867e+007
2	CHLORIDE	1.63	1.60	1.60	2.048e+007	2.957e+007	2.957e+007
3	NITRITE	2.02	1.98	1.98	5.789e+007	8.181e+007	8.181e+007
4	BROMIDE	3.17	3.13	3.13	8.456e+006	1.199e+007	1.199e+007
5	NITRATE	3.70	3.60	3.60	4.464e+007	6.456e+007	6.456e+007
6	PHOSPHATE	5.83	5.77	5.77	2.114e+007	3.209e+007	3.209e+007
7	SULFATE	7.57	7.53	7.53	5.916e+007	8.349e+007	8.349e+007

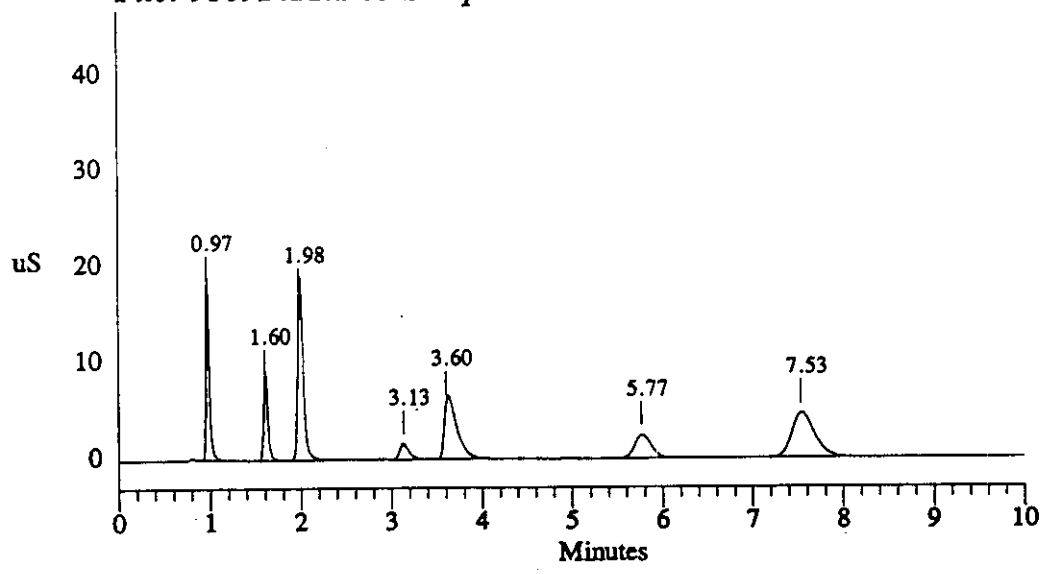
Sample Name: AUTOCAL3R - A07 Date: 09/14/1995 13:31:57
Data File : C:\DX\DATA\9509142\95091421.D03
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 3 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	1.250	17748351	48669336	1	0.35
2	1.60	CHLORIDE	1.250	8010478	29570701	1	0.00
3	1.98	NITRITE	5.000	16529023	81808966	1	0.40
4	3:13	BROMIDE	1.250	1658364	11987668	1	1.01
5	3.60	NITRATE	5.000	5689587	64563672	1	0.00
6	5.77	PHOSPHATE	5.000	2463551	32091888	1	1.60
7	7.53	SULFATE	5.000	4651969	83491346	1	0.00
		Totals	23.750	56751323	352183577		

File: 95091421.D03 Sample: AUTOCAL3R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL4R - A07 Date: Thu Sep 14 13:43:20 1995
Raw File : C:\DX\DATA\9509142\95091421.D04
Method : c:\dx\method\2anions2.met Calibration Level: 4
ACI Address: 1 System : 2 Inject#: 4 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.97	0.93	0.93	8.197e+007	1.047e+008	1.047e+008
2	CHLORIDE	1.60	1.57	1.57	5.095e+007	6.480e+007	6.480e+007
3	NITRITE	1.98	1.97	1.97	1.431e+008	1.728e+008	1.728e+008
4	BROMIDE	3.13	3.07	3.07	1.968e+007	2.444e+007	2.444e+007
5	NITRATE	3.60	3.53	3.53	1.097e+008	1.397e+008	1.397e+008
6	PHOSPHATE	5.77	5.70	5.70	5.185e+007	6.832e+007	6.832e+007
7	SULFATE	7.53	7.47	7.47	1.431e+008	1.800e+008	1.800e+008

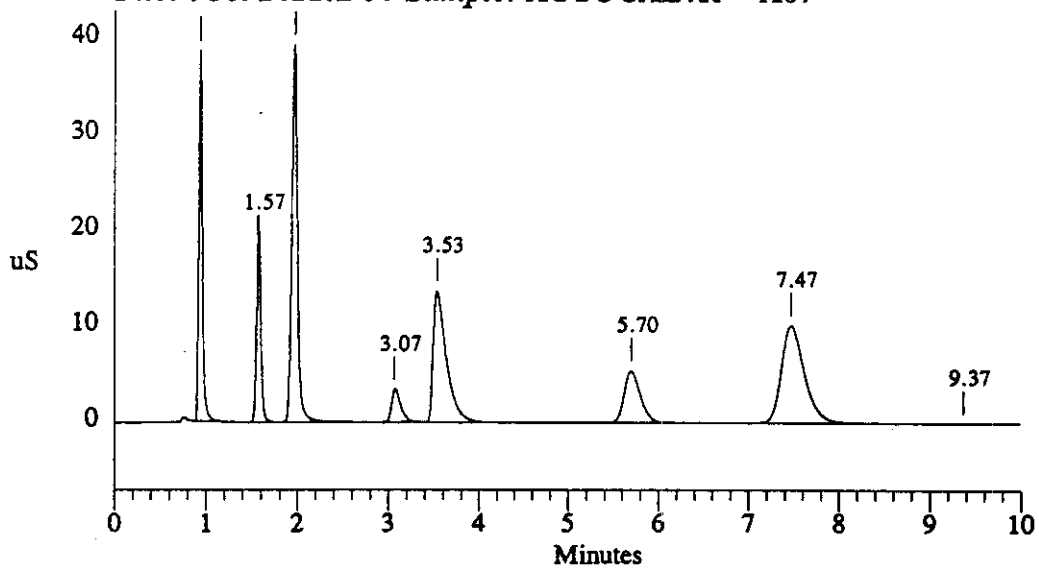
Sample Name: AUTOCAL4R - A07 Date: 09/14/1995 13:43:20
Data File : C:\DX\DATA\9509142\95091421.D04
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 4 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	2.500	38673820	104667218	1	-1.39
2	1.57	CHLORIDE	2.500	18102870	64795790	1	0.00
3	1.97	NITRITE	10.000	39375593	172796027	1	1.27
4	3.07	BROMIDE	2.500	3385999	24435032	1	-0.05
5	3.53	NITRATE	10.000	13674644	139708676	1	0.00
6	5.70	PHOSPHATE	10.000	5422810	68318216	1	0.71
7	7.47	SULFATE	10.000	10194375	179958625	1	0.00
8	9.37		0.000	17793	342562	1	
		Totals	47.500	128847903	755022146		

File: 95091421.D04 Sample: AUTOCAL4R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL5R - A07 Date: Thu Sep 14 13:54:49 1995
Raw File : C:\DX\DATA\9509142\95091421.D05
Method : c:\dx\method\2anions2.met Calibration Level: 5
ACI Address: 1 System : 2 Inject#: 5 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.93	0.95	0.95	1.757e+008	2.207e+008	2.207e+008
2	CHLORIDE	1.57	1.60	1.60	1.131e+008	1.468e+008	1.468e+008
3	NITRITE	1.97	2.00	2.00	3.030e+008	3.618e+008	3.618e+008
4	BROMIDE	3.07	3.07	3.07	4.212e+007	5.221e+007	5.221e+007
5	NITRATE	3.53	3.47	3.47	2.384e+008	3.118e+008	3.118e+008
6	PHOSPHATE	5.70	5.63	5.63	1.151e+008	1.533e+008	1.533e+008
7	SULFATE	7.47	7.40	7.40	3.149e+008	4.007e+008	4.007e+008

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Sample Name: AUTOCAL5R  - A07                Date: 09/14/1995 13:54:49
Data File  : C:\DX\DATA\9509142\95091421.D05
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 5   Vial:A07        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
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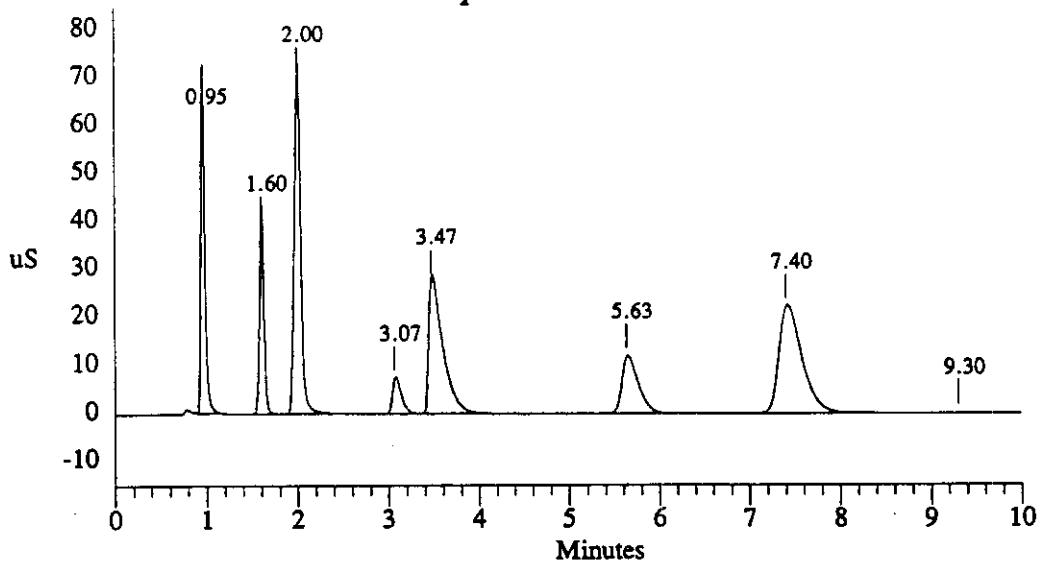
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	5.000	56600574	220703555	1	-0.33
2	1.60	CHLORIDE	5.000	38543469	146849385	1	0.00
3	2.00	NITRITE	20.000	69696250	361771084	1	-0.42
4	3.07	BROMIDE	5.000	7128080	52209563	1	-2.08
5	3.47	NITRATE	20.000	27169742	311829682	1	0.00
6	5.63	PHOSPHATE	20.000	11717741	153303486	1	0.73
7	7.40	SULFATE	20.000	21996513	400674008	1	0.00
8	9.30		0.000	10911	123805	1	
		Totals	95.000	232863281	1647464568		

File: 95091421.D05 Sample: AUTOCAL5R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL6R - A07 Date: Thu Sep 14 14:06:22 1995
Raw File : C:\DX\DATA\9509142\95091421.D06
Method : c:\dx\method\2anions2.met Calibration Level: 6
ACI Address: 1 System : 2 Inject#: 6 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.95	0.98	0.98	2.725e+008	3.348e+008	3.348e+008
2	CHLORIDE	1.60	1.63	1.63	1.819e+008	2.359e+008	2.359e+008
3	NITRITE	2.00	2.05	2.05	4.595e+008	5.489e+008	5.489e+008
4	BROMIDE	3.07	3.07	3.07	6.591e+007	8.357e+007	8.357e+007
5	NITRATE	3.47	3.47	3.47	3.856e+008	5.037e+008	5.037e+008
6	PHOSPHATE	5.63	5.60	5.60	1.864e+008	2.501e+008	2.501e+008
7	SULFATE	7.40	7.37	7.37	5.038e+008	6.501e+008	6.501e+008

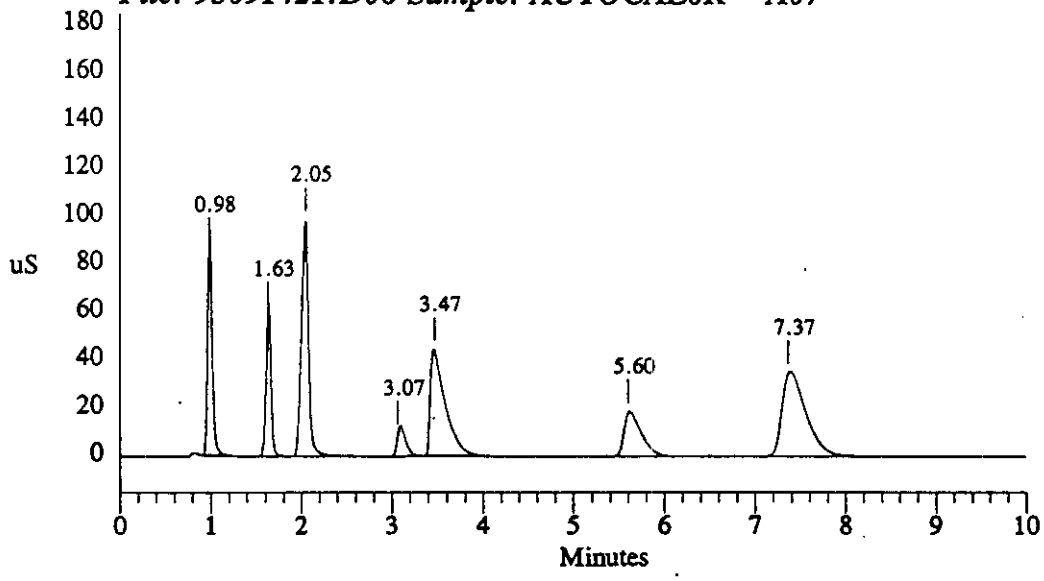
Sample Name: AUTOCAL6R - A07 Date: 09/14/1995 14:06:22
Data File : C:\DX\DATA\9509142\95091421.D06
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 6 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	30	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	7.500	85658601	334763776	1	1.40
2	1.63	CHLORIDE	7.500	59247946	235868741	1	0.00
3	2.05	NITRITE	30.000	98479352	548948074	1	0.41
4	3.07	BROMIDE	7.500	9451762	83570378	1	-2.04
5	3.47	NITRATE	30.000	44134389	503705024	1	0.00
6	5.60	PHOSPHATE	30.000	18369260	250099032	1	-0.59
7	7.37	SULFATE	30.000	34654287	650097718	1	0.00
		Totals	142.500	349995597	2607052743		

File: 95091421.D06 Sample: AUTOCAL6R - A07



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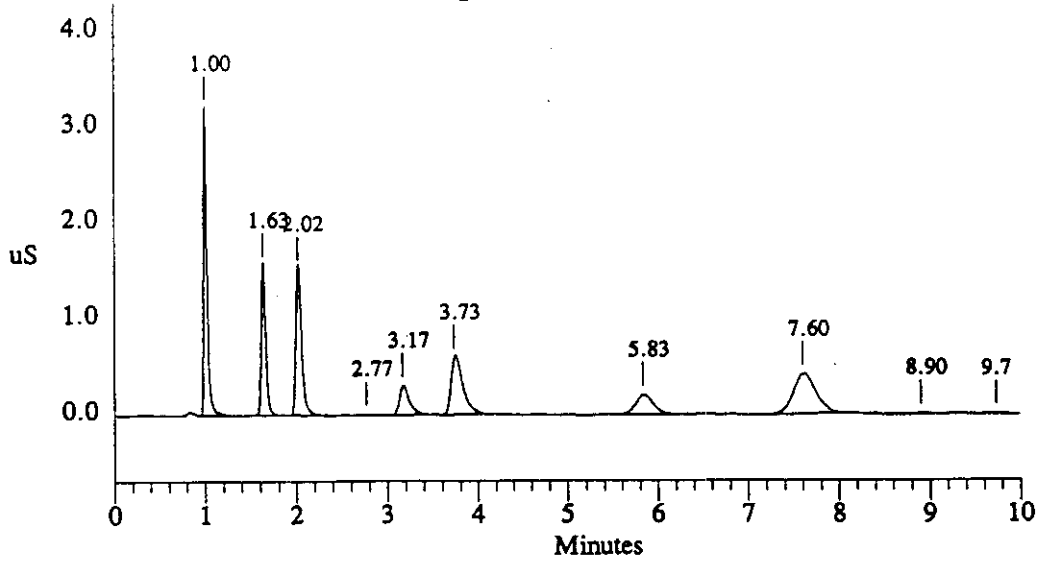
Sample Name: CAL CHECK 1  - A06              Date: 09/14/1995 14:17:41
Data File  : C:\DX\DATA\9509142\95091421.D07
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 7   Vial:A06        Detector:PED-Cond.
Analyst    : MMO             Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	29.597	3201991	8522307	1	1.69
2	1.63	CHLORIDE	30.320	1553572	5323407	1	0.00
3	2.02	NITRITE	62.840	1515546	7097784	1	-1.63
4	2.77		0.000	8767	117258	1	
5	3.17	BROMIDE	26.757	303175	2427734	1	3.26
6	3.73	NITRATE	63.231	591165	5623700	1	0.00
7	5.83	PHOSPHATE	65.941	204321	2826690	1	-3.27
8	7.60	SULFATE	63.799	416366	7419750	1	0.00
9	8.90		0.000	11645	258101	1	
10	9.73		0.000	6486	108520	1	
		Totals	342.484	7813032	39725251		

File: 95091421.D07 Sample: CAL CHECK 1 - A06



*** RMIS View/Print Document Cover Sheet ***

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Accession #: D196022024

Document #: SD-WM-DP-145

Title/Desc:
REVISED 60 DAY SAFETY SCREENING & FERROCYANIDE RESULTS FOR TANK 241BY108 ROTARY SAMPLES CORE 98 & CORE 104 (SEC 10 OF 12)

Pages: 335

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-145

Section 10 **of** 12

Title: REVISED 60 DAY SAFETY SCREENING + FERROCYANIDE RESULTS FOR TANK 241-BY-108 ROTARY SAMPLES CORE 98 + CORE 104

Date: 02/02/96 **Revision:** R001

Originator: BALDWIN JH
Co: WHC

Recipient:
Co:

References: ECN-629001

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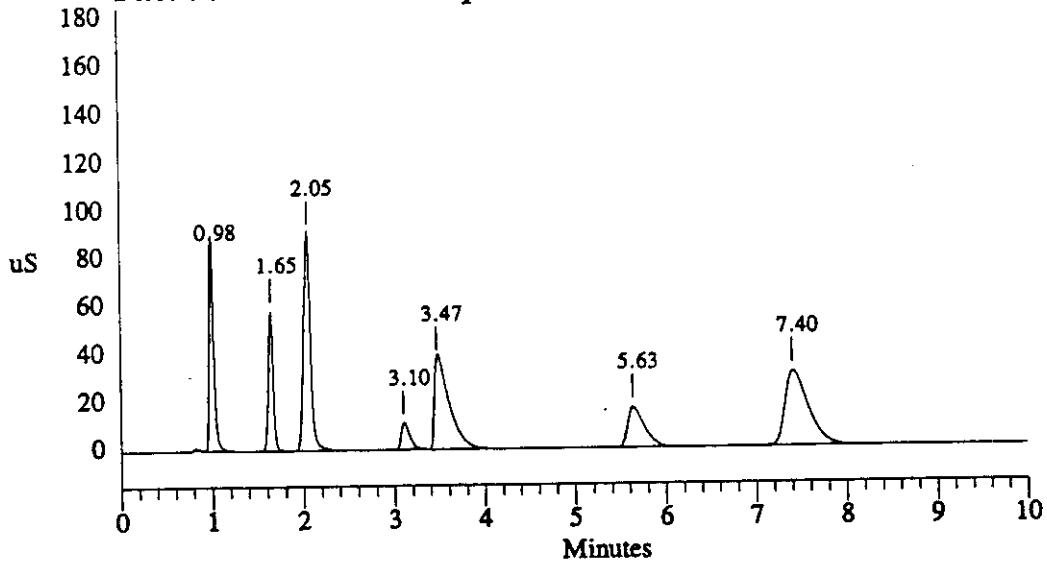
Sample Name: CAL CHECK 6  - A07              Date: 09/14/1995 14:29:12
Data File  : C:\DX\DATA\9509142\95091421.D08
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 8   Vial:A07        Detector:PED-Cond.
Analyst    : MMO             Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	30	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	22.831	72249831	304747920	1	-1.01
2	1.65	CHLORIDE	22.835	58484200	210996662	1	0.00
3	2.05	NITRITE	90.889	90738969	497058291	1	-1.01
4	3.10	BROMIDE	22.682	11052093	74323588	1	0.07
5	3.47	NITRATE	91.097	37564013	448255766	1	0.00
6	5.63	PHOSPHATE	90.454	16865909	219873410	1	0.60
7	7.40	SULFATE	90.204	31238278	570664038	1	0.00
		Totals	430.990	318193293	2325919675		

File: 95091421.D08 Sample: CAL CHECK 6 - A07



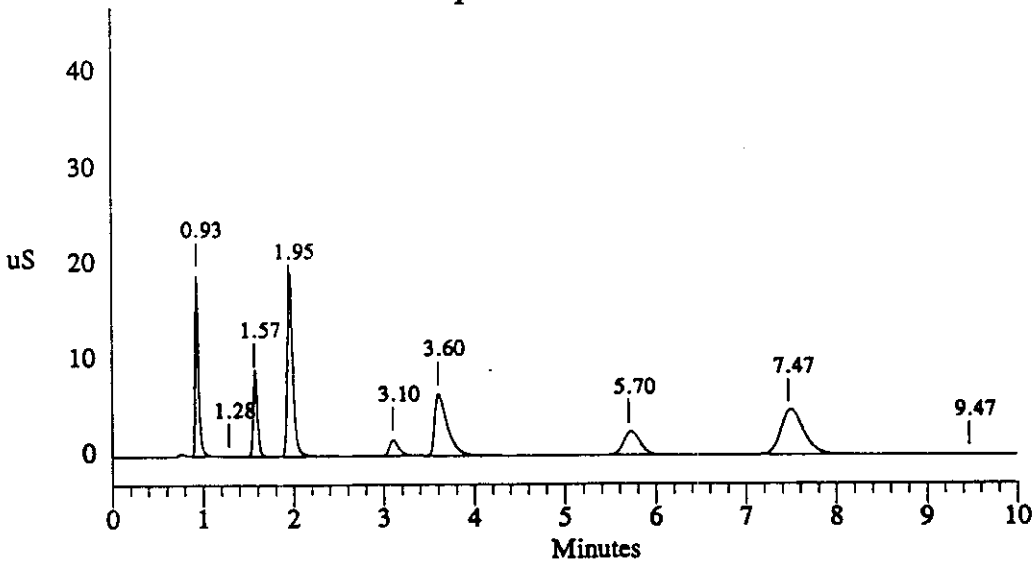
Sample Name: A950609V1/LO - A04 Date: 09/14/1995 15:06:55
Data File : C:\DX\DATA\9509142\95091421.D09
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 9 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	24.221	18977503	48578934	1	-1.05
2	1.28		0.000	41234	248783	1	
3	1.57	CHLORIDE	24.123	8456695	29743869	1	0.00
4	1.95	NITRITE	98.056	16718076	82741863	1	-0.83
5	3.10	BROMIDE	25.795	1696236	12330870	1	5.39
6	3.60	NITRATE	95.749	6473765	64438047	1	0.00
7	5.70	PHOSPHATE	99.370	2384558	32733484	1	-1.98
8	7.47	SULFATE	98.758	4560641	85636701	1	0.00
9	9.47		0.000	8427	126898	1	
		Totals	466.072	59317136	356579450		

File: 95091421.D09 Sample: A950609V1/LO - A04



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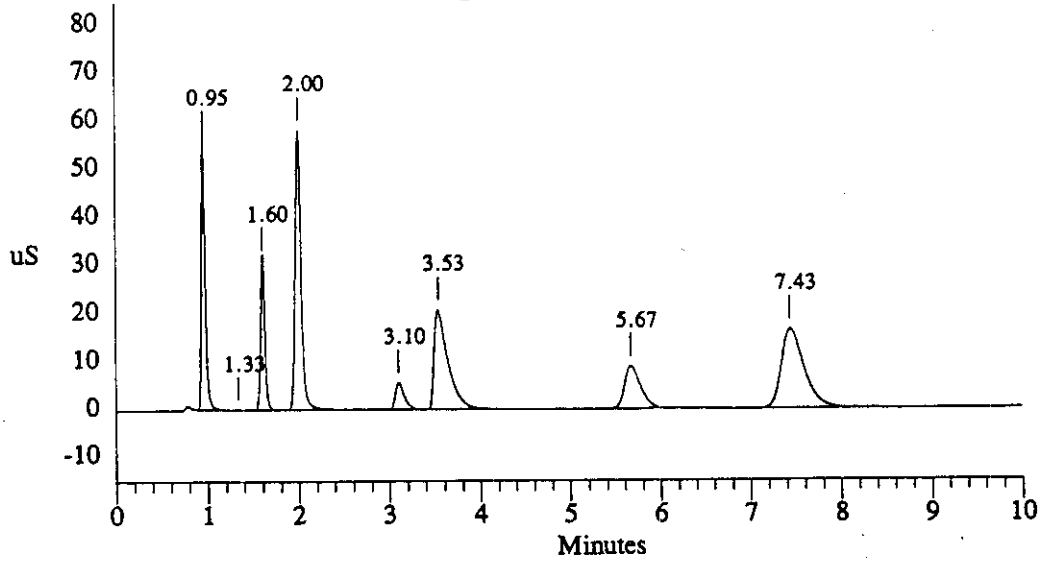
Sample Name: A950609V2/MID  - A04          Date: 09/14/1995 15:19:57
Data File  : C:\DX\DATA\9509142\95091421.D10
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 10  Vial:A04        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	25.521	55457395	165402818	1	-1.38
2	1.33		0.000	109096	556840	1	
3	1.60	CHLORIDE	25.384	31173633	105992371	1	0.00
4	2.00	NITRITE	102.763	58313089	273402619	1	-0.41
5	3.10	BROMIDE	26.045	5738434	39637141	1	3.19
6	3.53	NITRATE	100.011	20790211	222012421	1	0.00
7	5.67	PHOSPHATE	102.983	8999167	112655391	1	-0.72
8	7.43	SULFATE	102.490	16656153	293432704	1	0.00
		Totals	485.197	197237178	1213092305		

File: 95091421.D10 Sample: A950609V2/MID - A04



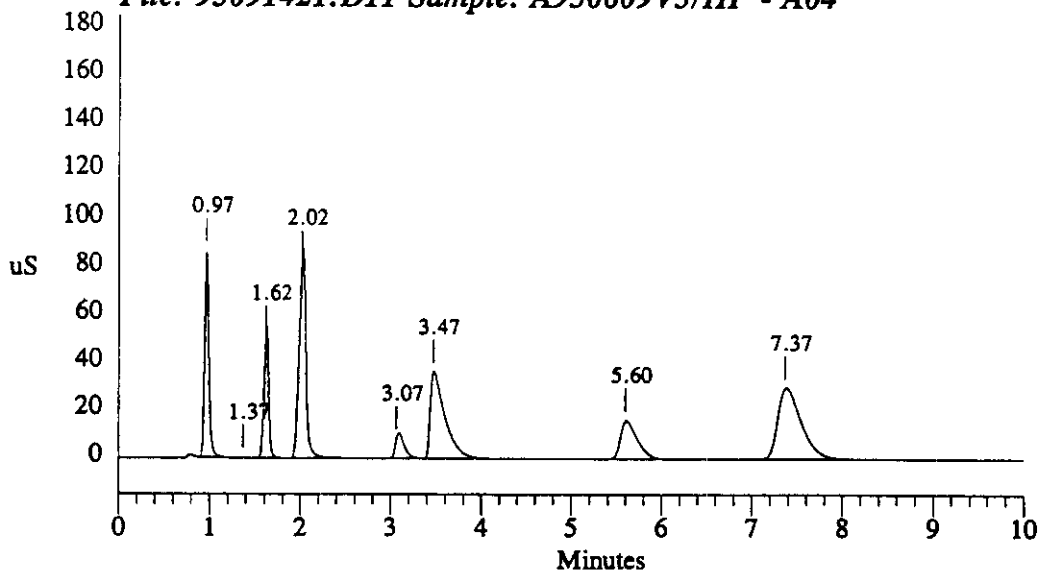
Sample Name: A950609V3/HI - A04 Date: 09/14/1995 15:33:22
Data File : C:\DX\DATA\9509142\95091421.D11
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 11 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	25.738	86198379	285318102	1	-0.68
2	1.37		0.000	143622	727854	1	
3	1.62	CHLORIDE	25.833	50126365	196151886	1	0.00
4	2.02	NITRITE	102.890	81521302	467356578	1	-0.61
5	3.07	BROMIDE	26.303	8100421	71363452	1	1.03
6	3.47	NITRATE	101.449	35974615	408496748	1	0.00
7	5.60	PHOSPHATE	104.404	16016268	209266617	1	0.00
8	7.37	SULFATE	103.732	29681971	541010787	1	0.00
		Totals	490.349	307762944	2179692025		

File: 95091421.D11 Sample: A950609V3/HI - A04

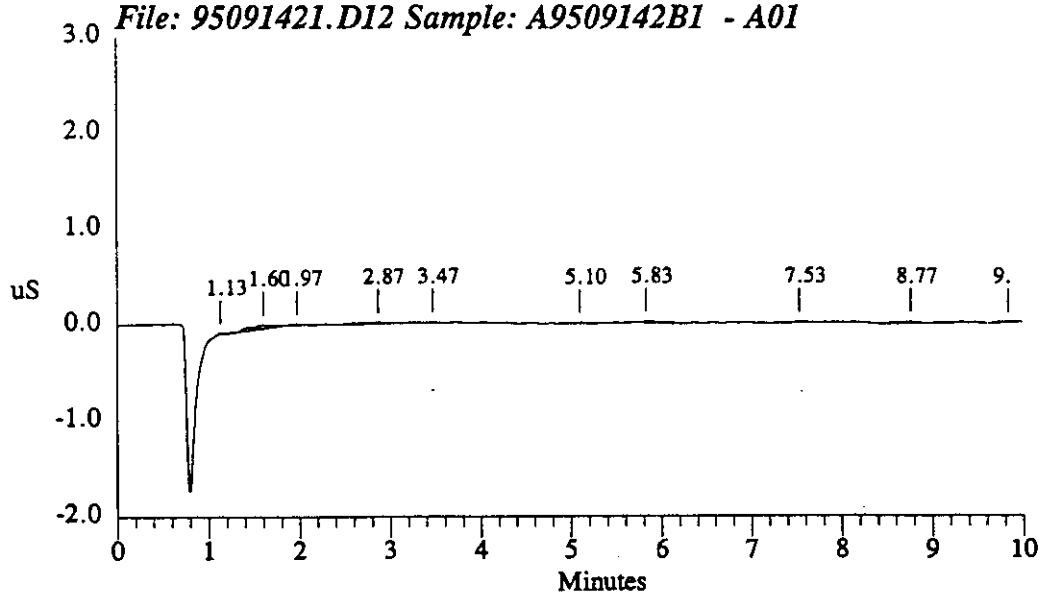


Sample Name: A9509142B1 - A01 Date: 09/14/1995 15:49:49
Data File : C:\DX\DATA\9509142\95091421.D12
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 12 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
2	1.60	CHLORIDE	0.131	40129	754550	1	0.00
3	1.97	NITRITE	0.230	11734	107370	1	-2.07
4	2.87	BROMIDE	0.050	12019	366824	1	-4.57
5	3.47	NITRATE	0.237	9561	163214	1	0.00
6	5.10		0.000	14109	186580	1	
7	5.83	PHOSPHATE	0.301	18268	403578	1	4.17
8	7.53	SULFATE	0.228	13145	155752	1	0.00
9	8.77		0.000	19454	347947	1	
10	9.83		0.000	2956	34435	1	
		Totals	1.177	141376	2520251		

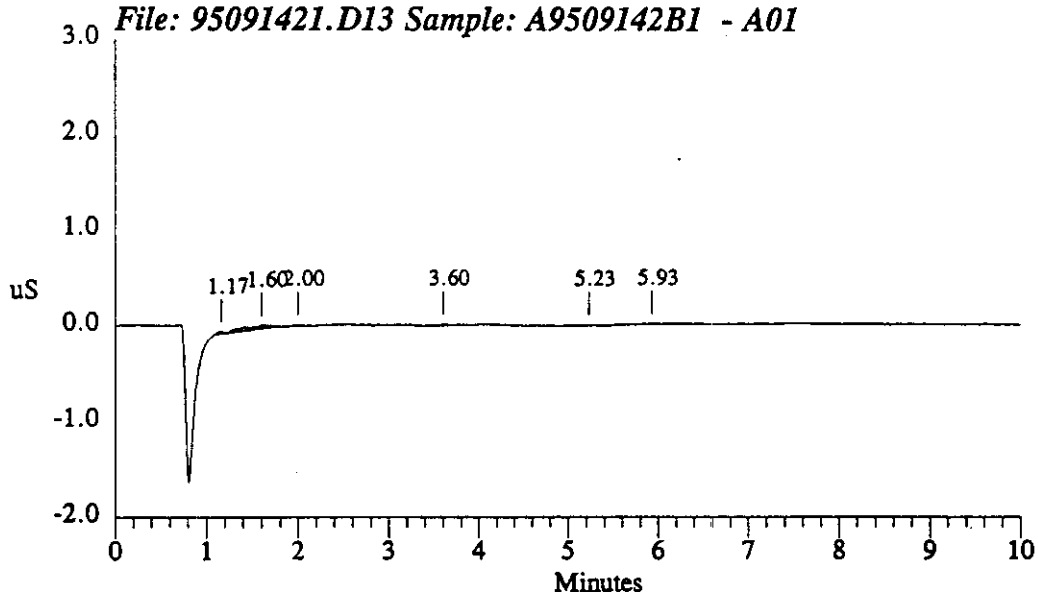


Sample Name: A9509142B1 - A01 Date: 09/14/1995 16:06:10
Data File : C:\DX\DATA\9509142\95091421.D13
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 13 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	19840	99337	1	
2	1.60	CHLORIDE	0.132	35271	799624	1	0.00
3	2.00	NITRITE	0.236	19794	201393	1	-0.41
4	3.60	NITRATE	0.236	14531	153178	1	0.00
5	5.23		0.000	12682	209208	1	
6	5.93	PHOSPHATE	0.273	7471	212869	1	2.03
		Totals	0.877	109588	1675608		

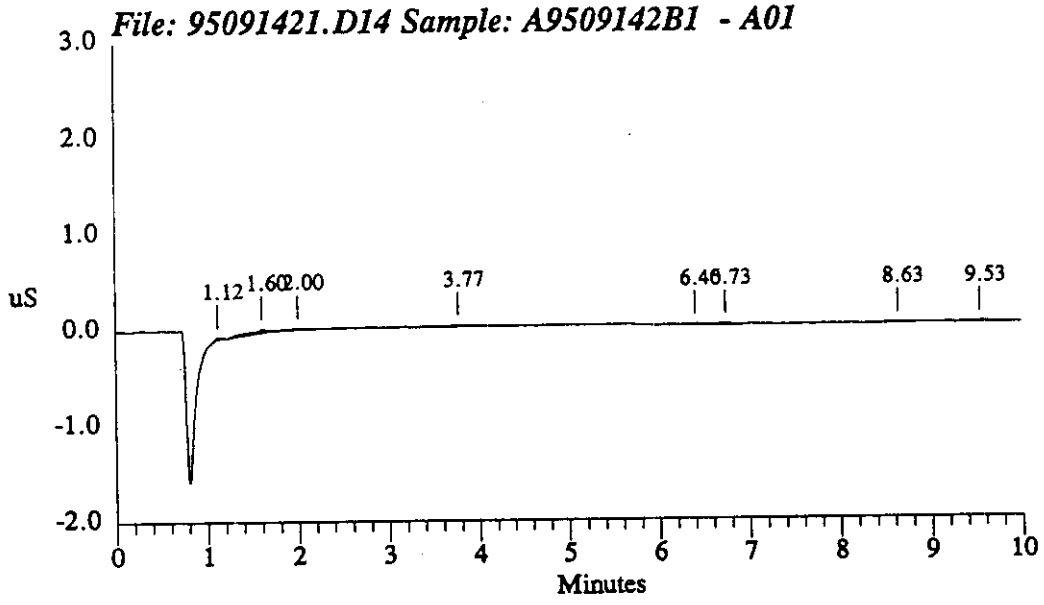


Sample Name: A9509142B1 - A01 Date: 09/14/1995 16:22:38
Data File : C:\DX\DATA\9509142\95091421.D14
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 14 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	19169	111697	1	
2	1.60	CHLORIDE	0.125	38455	621045	1	0.00
3	2.00	NITRITE	0.229	11429	81770	1	-0.41
4	3.77	NITRATE	0.236	12408	153145	1	0.00
5	6.40	PHOSPHATE	0.277	9742	241453	1	5.18
6	6.73	SULFATE	0.228	13634	144612	1	0.00
7	8.63		0.000	11880	203755	1	
8	9.53		0.000	14248	309988	1	
		Totals	1.095	130965	1867464		



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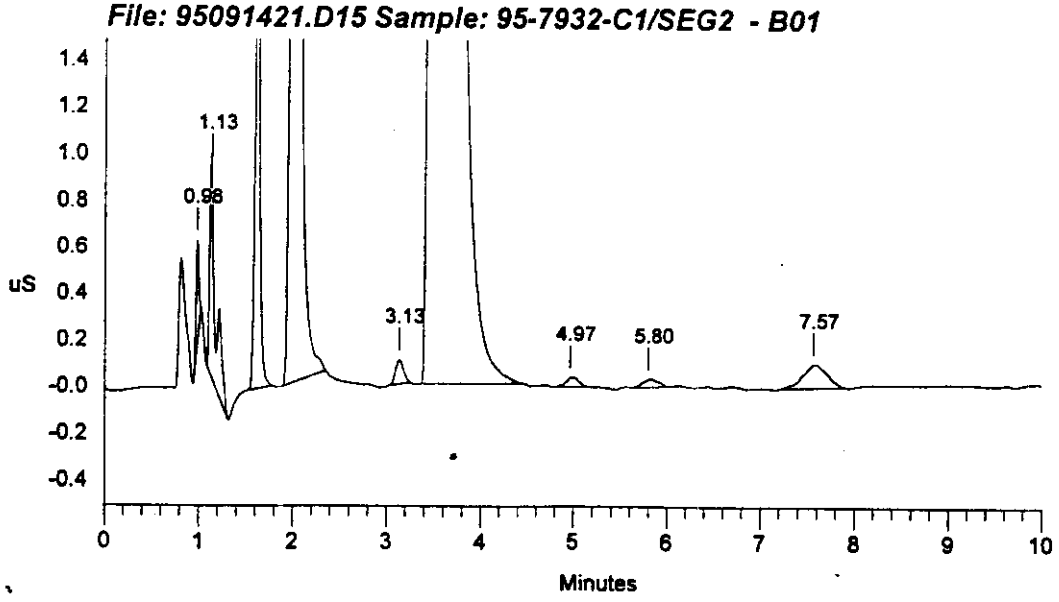
Sample Name: 95-7932-C1/SEG2 - B01		Date: 09/14/1995 16:35:06	
Data File : C:\DX\DATA\9509142\95091421.D15			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 15 Vial:B01			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	12.103	462034	909102	1	2.08
2	1.13		0.000	900712	4013511	1	
3	1.60	CHLORIDE	38.789	1760100	7575682	1	0.00
4	2.00	NITRITE	569.048	21760314	96796217	1	-0.41
5	3.13	BROMIDE	7.482	102178	601493	1	4.30
6	3.47	NITRATE	2377.809	30741066	377655249	1	0.00
7	4.97		0.000	38967	391967	1	
8	5.80	PHOSPHATE	29.921	31967	391297	1	3.57
9	7.57	SULFATE	32.127	99364	1800934	1	0.00
		Totals	3067.279	55896704	490135453		



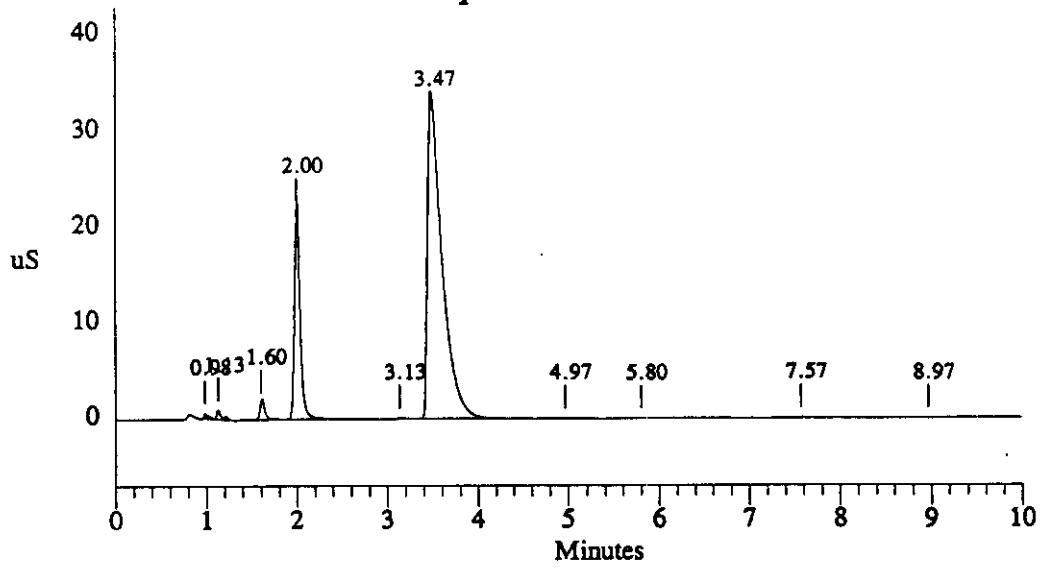
Sample Name: 95-7932-C1/SEG2 - B01 Date: 09/14/1995 16:35:06
Data File : C:\DX\DATA\9509142\95091421.D15
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 15 Vial:B01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	14.192	524677	1817678	2	2.08
2	1.13		0.000	952238	4469656	2	
3	1.60	CHLORIDE	43.591	1810634	8856190	1	0.00
4	2.00	NITRITE	579.081	21778592	98588956	1	-0.41
5	3.13	BROMIDE	8.648	108904	711641	1	4.30
6	3.47	NITRATE	2379.631	30741839	378004365	1	0.00
7	4.97		0.000	40966	494309	1	
8	5.80	PHOSPHATE	29.921	31967	391297	1	3.57
9	7.57	SULFATE	33.355	104353	2018272	1	0.00
10	8.97		0.000	11481	812208	1	
		Totals	3088.418	56105650	496164573		

File: 95091421.D15 Sample: 95-7932-C1/SEG2 - B01



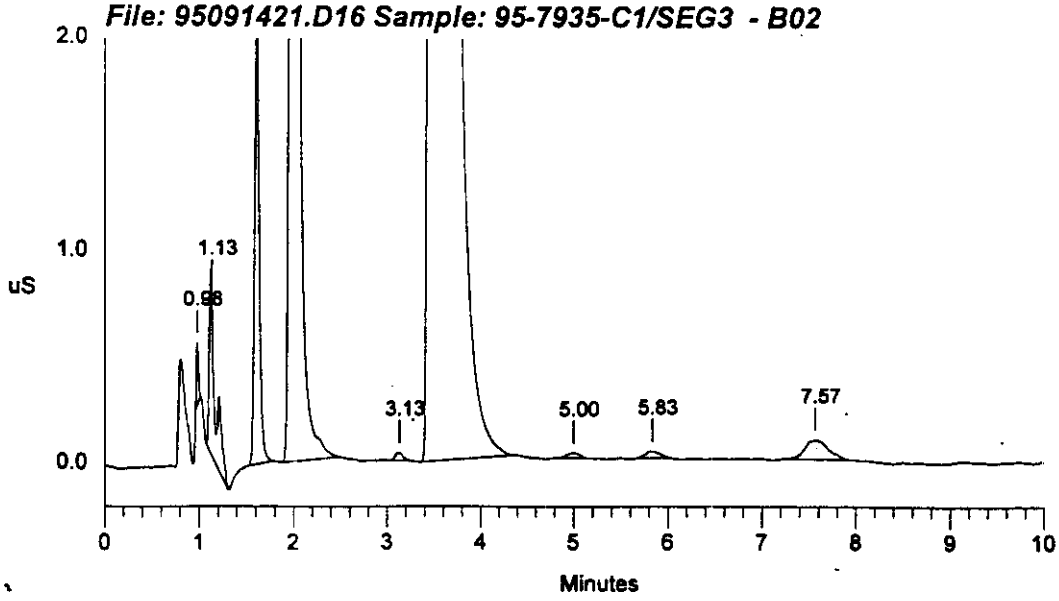
Data Reprocessed On 09/22/1995 03:11:18

Sample Name: 95-7935-C1/SEG3 - B02		Date: 09/14/1995 16:47:35	
Data File : C:\DX\DATA\9509142\95091421.D16			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2	Inject#: 16 Vial:B02		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	11.079	294648	464302	1	2.08
2	1.13		0.000	767563	3667128	1	
3	1.60	CHLORIDE	37.581	1879225	7253844	1	0.00
4	2.00	NITRITE	562.658	22118119	95654595	1	-0.41
5	3.13	BROMIDE	3.418	37222	217992	1	4.30
6	3.50	NITRATE	2037.139	29003602	314450017	1	0.00
7	5.00		0.000	21163	204700	1	
8	5.83	PHOSPHATE	29.252	30678	346185	1	3.17
9	7.57	SULFATE	30.684	90285	1545299	1	0.00
		Totals	2711.811	54242504	423804062		



Data Reprocessed On 09/22/1995 02:54:40

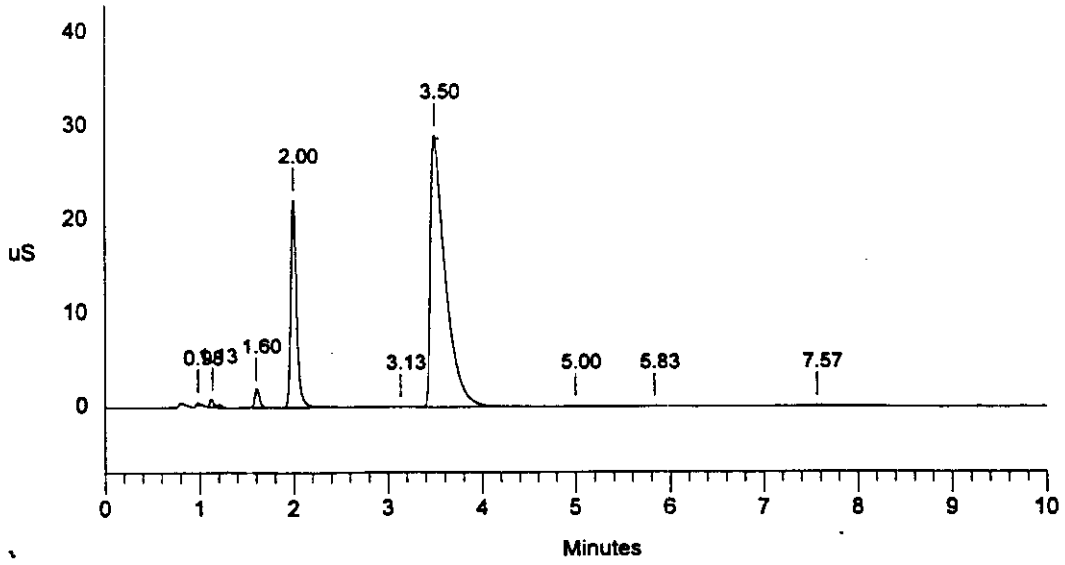
Sample Name: 95-7935-C1/SEG3 - B02		Date: 09/14/1995 16:47:35	
Data File : C:\DX\DATA\9509142\95091421.d16			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 16 Vial:B02			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	11.079	294648	464302	1	2.08
2	1.13		0.000	767563	3667128	1	
3	1.60	CHLORIDE	37.581	1879225	7253844	1	0.00
4	2.00	NITRITE	562.658	22118119	95654595	1	-0.41
5	3.13	BROMIDE	3.418	37222	217992	1	4.30
6	3.50	NITRATE	2037.139	29003602	314450017	1	0.00
7	5.00		0.000	21163	204700	1	
8	5.83	PHOSPHATE	29.252	30678	346185	1	3.17
9	7.57	SULFATE	30.684	90285	1545299	1	0.00
		Totals	2711.811	54242504	423804062		

File: 95091421.d16 Sample: 95-7935-C1/SEG3 - B02



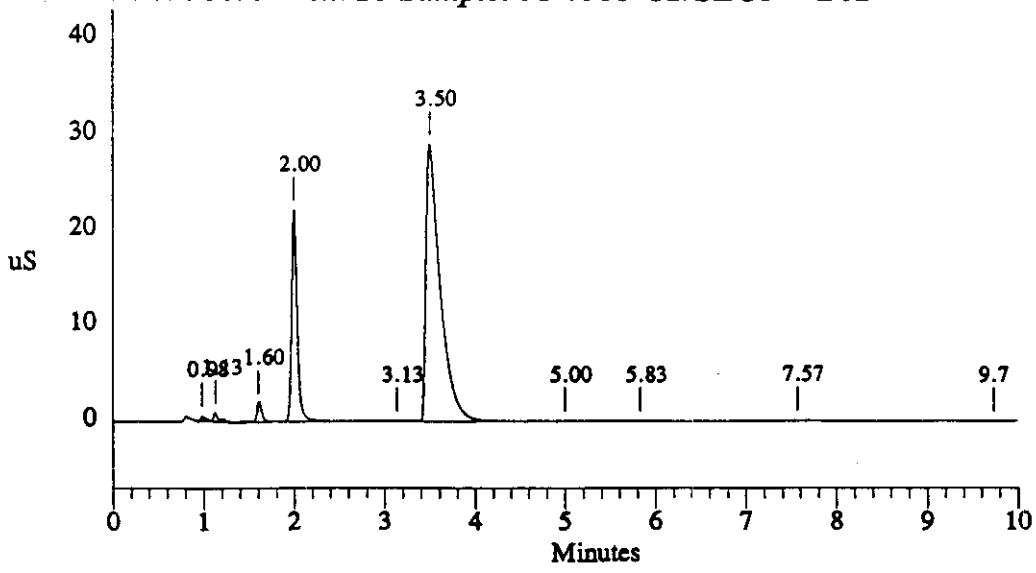
Sample Name: 95-7935-C1/SEG3 - B02 Date: 09/14/1995 16:47:35
Data File : C:\DX\DATA\9509142\95091421.D16
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 16 Vial:B02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	13.924	483661	1701301	2	2.08
2	1.13		0.000	817928	4109794	2	
3	1.60	CHLORIDE	42.381	1928641	8533264	1	0.00
4	2.00	NITRITE	565.735	22122148	96204254	1	-0.41
5	3.13	BROMIDE	3.638	38301	238766	1	4.30
6	3.50	NITRATE	2042.017	29006478	315327605	1	0.00
7	5.00		0.000	23522	249702	1	
8	5.83	PHOSPHATE	32.331	36295	553986	1	3.17
9	7.57	SULFATE	33.028	98021	1960352	1	0.00
10	9.73		0.000	11444	92220	1	
		Totals	2733.054	54566438	428971243		

File: 95091421.D16 Sample: 95-7935-C1/SEG3 - B02



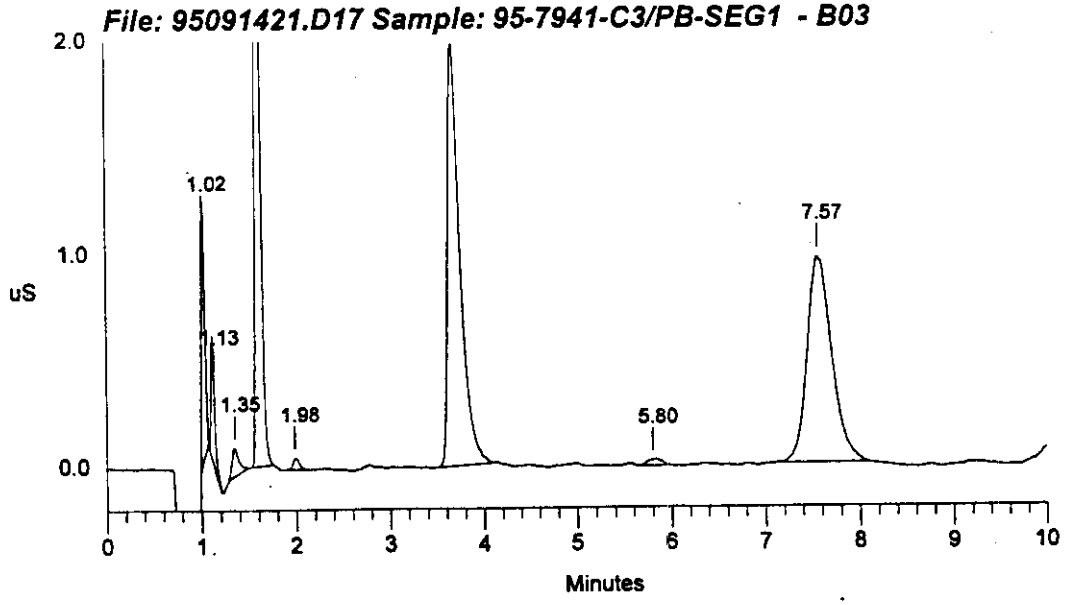
Data Reprocessed On 09/22/1995 03:11:45

Sample Name: 95-7941-C3/PB-SEG1 - B03		Date: 09/14/1995 17:04:03	
Data File : C:\DX\DATA\9509142\95091421.D17			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 17 Vial:B03			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	0.168	1110077	2966359	1	5.54
2	1.13		0.000	399256	1522495	1	
3	1.35		0.000	132684	662491	1	
4	1.60	CHLORIDE	0.730	4412392	16741805	1	0.00
5	1.98	NITRITE	0.238	50986	246393	1	-1.24
6	3.67	NITRATE	1.545	1959004	18322046	1	0.00
7	5.80	PHOSPHATE	0.290	27472	331045	1	-2.08
8	7.57	SULFATE	1.208	970038	17579077	1	0.00
		Totals	4.180	9061908	58371710		



Data Reprocessed On 09/22/1995 02:54:41

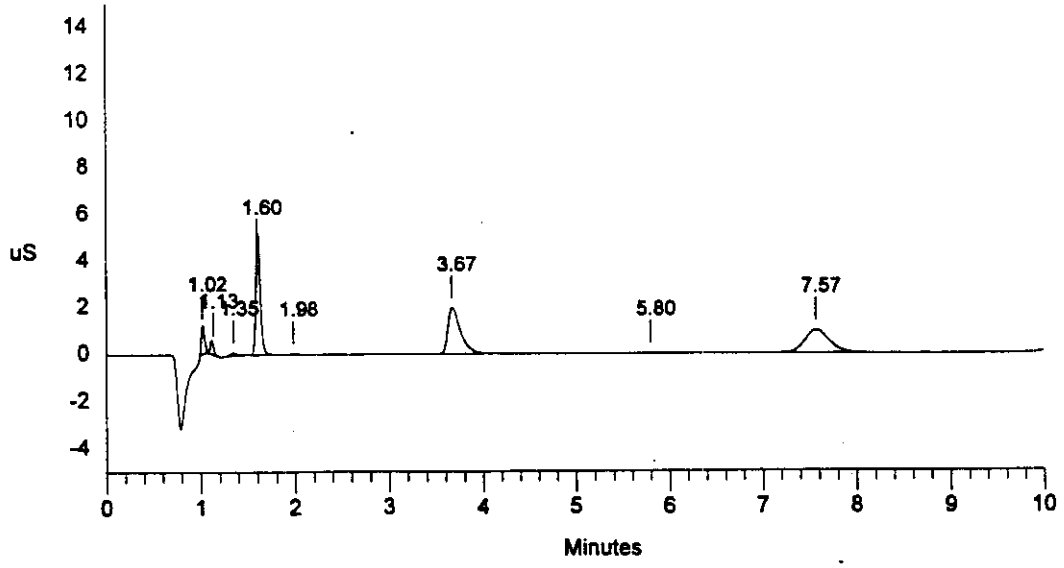
Sample Name:	95-7941-C3/PB-SEG1 - B03 Date: 09/14/1995 17:04:03
Data File :	C:\DX\DATA\9509142\95091421.d17
Method :	c:\dx\method\2anions2.met
ACI Address:	1 System: 2 Inject#: 17 Vial:B03 Detector:PED-Cond.
Analyst :	MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	0.168	1110077	2966359	1	5.54
2	1.13		0.000	399256	1522495	1	
3	1.35		0.000	132684	662491	1	
4	1.60	CHLORIDE	0.730	4412392	16741805	1	0.00
5	1.98	NITRITE	0.238	50986	246393	1	-1.24
6	3.67	NITRATE	1.545	1959004	18322046	1	0.00
7	5.80	PHOSPHATE	0.290	27472	331045	1	-2.08
8	7.57	SULFATE	1.208	970038	17579077	1	0.00
		Totals	4.180	9061908	58371710		

File: 95091421.d17 Sample: 95-7941-C3/PB-SEG1 - B03



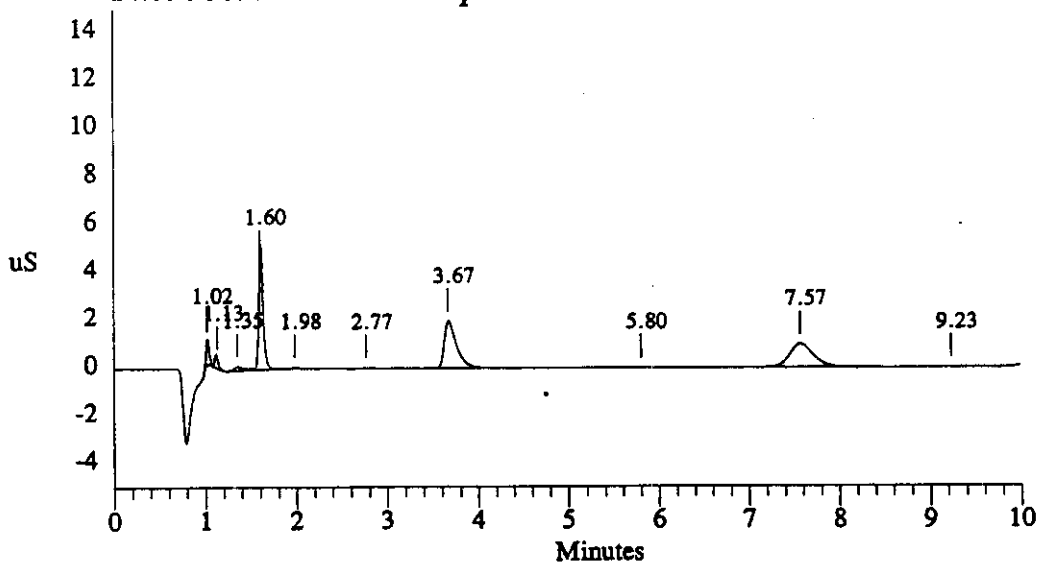
Sample Name: 95-7941-C3/PB-SEG1 - B03 Date: 09/14/1995 17:04:03
Data File : C:\DX\DATA\9509142\95091421.D17
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 17 Vial:B03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	0.157	989698	2476816	1	5.54
2	1.13		0.000	399256	1522495	1	
3	1.35		0.000	189574	1538116	2	
4	1.60	CHLORIDE	0.767	4474976	17740308	2	0.00
5	1.98	NITRITE	0.240	52352	271715	1	-1.24
6	2.77	BROMIDE	0.045	20205	319209	1	-7.90
7	3.67	NITRATE	1.609	1968687	19211202	1	0.00
8	5.80	PHOSPHATE	0.294	28157	353110	1	-2.08
9	7.57	SULFATE	1.238	975870	18116233	1	0.00
10	9.23		0.000	15122	265823	1	
		Totals	4.349	9113897	61815027		

File: 95091421.D17 Sample: 95-7941-C3/PB-SEG1 - B03



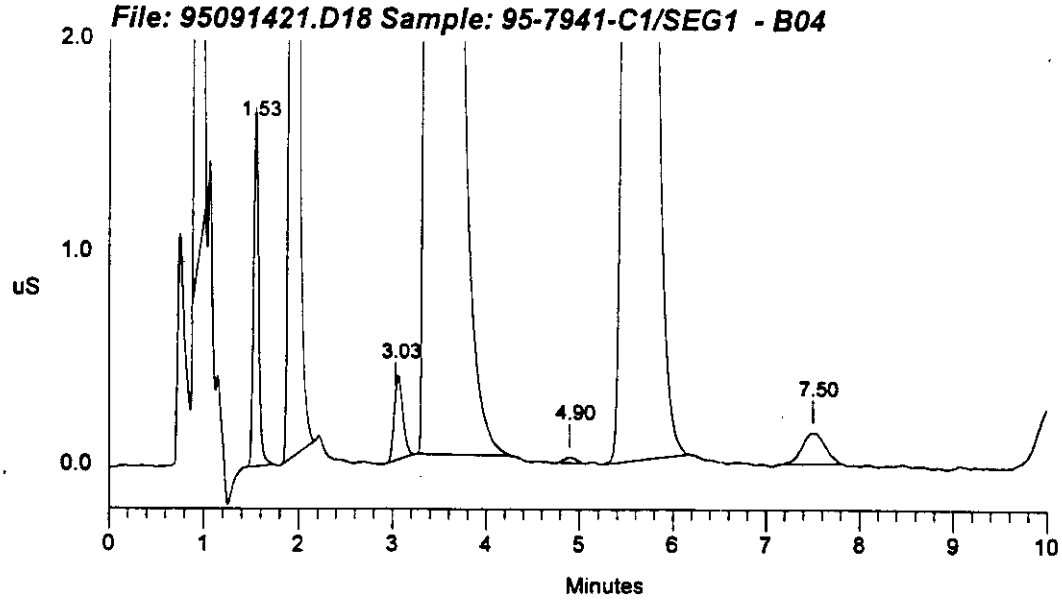
Data Reprocessed On 09/22/1995 03:12:44

Sample Name: 95-7941-C1/SEG1 - B04		Date: 09/14/1995 17:16:41	
Data File : C:\DX\DATA\9509142\95091421.D18			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 18 Vial:B04			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	66.523	43559462	142724208	1	-0.70
2	1.53	CHLORIDE	6.692	1472995	6158237	1	0.00
3	1.93	NITRITE	81.452	15728454	67967463	1	0.46
4	3.03	BROMIDE	5.460	304372	2479238	1	5.36
5	3.37	NITRATE	577.456	35397905	480743155	1	0.00
6	4.90		0.000	27273	250740	1	
7	5.53	PHOSPHATE	645.243	20181828	277080522	1	1.74
8	7.50	SULFATE	7.225	143595	2508834	1	0.00
		Totals	1390.051	116815882	979912397		



Data Reprocessed On 09/22/1995 02:54:42

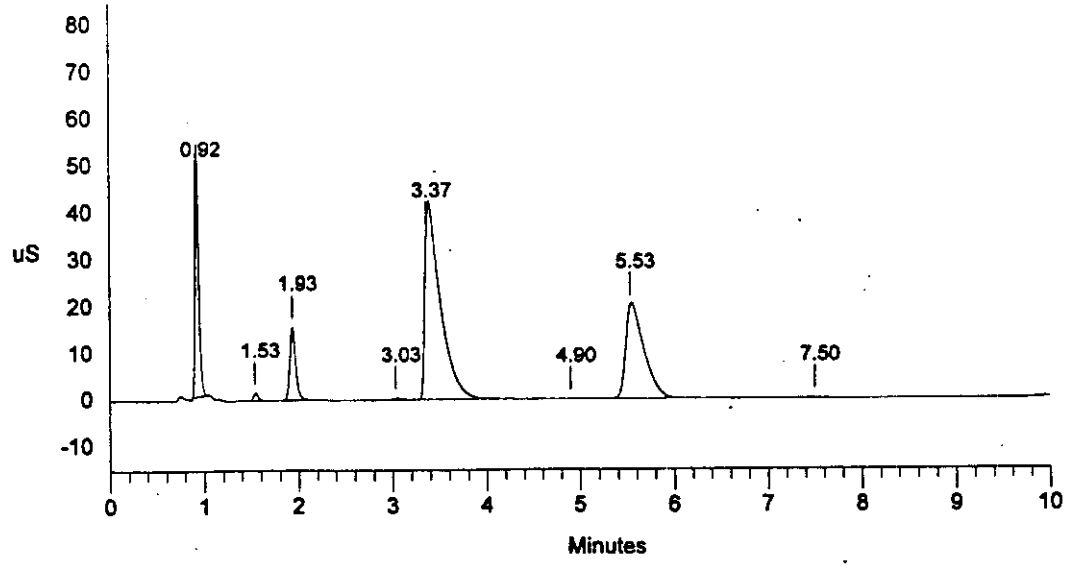
Sample Name: 95-7941-C1/SEG1 - B04		Date: 09/14/1995 17:16:41	
Data File : C:\DX\DATA\9509142\95091421.d18			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 18 Vial:B04			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	66.523	43559462	142724208	1	-0.70
2	1.53	CHLORIDE	6.692	1472995	6158237	1	0.00
3	1.93	NITRITE	81.452	15728454	67967463	1	0.46
4	3.03	BROMIDE	5.460	304372	2479238	1	5.36
5	3.37	NITRATE	577.456	35397905	480743155	1	0.00
6	4.90		0.000	27273	250740	1	
7	5.53	PHOSPHATE	645.243	20181828	277080522	1	1.74
8	7.50	SULFATE	7.225	143595	2508834	1	0.00
		Totals	1390.051	116815882	979912397		

File: 95091421.d18 Sample: 95-7941-C1/SEG1 - B04



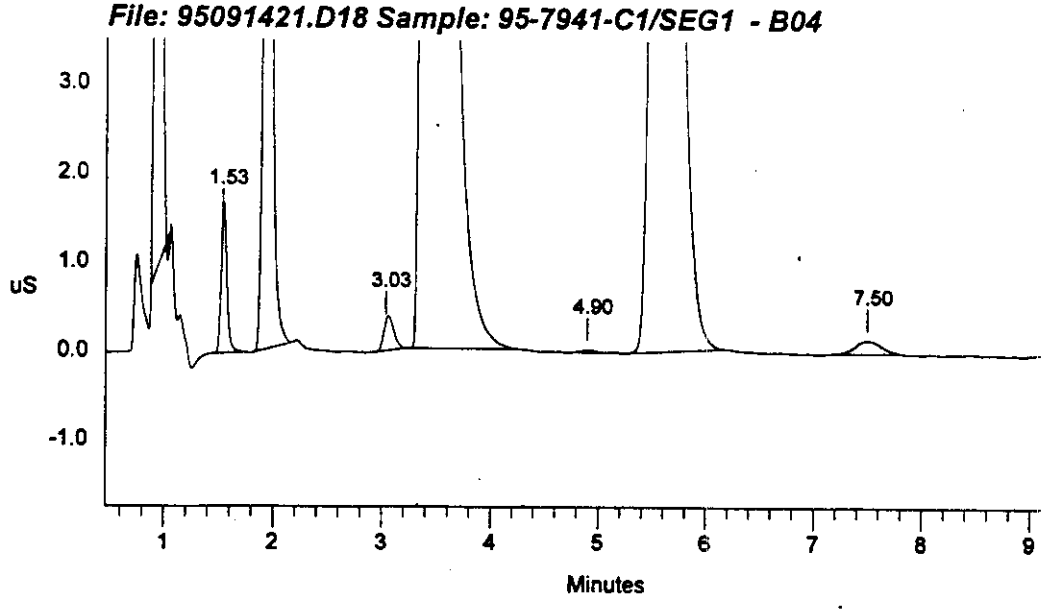
Data Reprocessed On 09/18/1995 08:26:16

Sample Name: 95-7941-C1/SEG1 - B04		Date: 09/14/1995 17:16:41	
Data File : C:\DX\DATA\9509142\95091421.D18			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 18 Vial:B04			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.46	9.11	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	66.523	43559462	142724208	1	-0.70
2	1.53	CHLORIDE	6.692	1472995	6158237	1	0.00
3	1.93	NITRITE	81.452	15728454	67967463	1	0.46
4	3.03	BROMIDE	5.460	304372	2479238	1	5.36
5	3.37	NITRATE	577.456	35397905	480743155	1	0.00
6	4.90		0.000	27273	250740	1	
7	5.53	PHOSPHATE	645.243	20181828	277080522	1	1.74
8	7.50	SULFATE	7.225	143595	2508834	1	0.00
		Totals	1390.051	116815882	979912397		



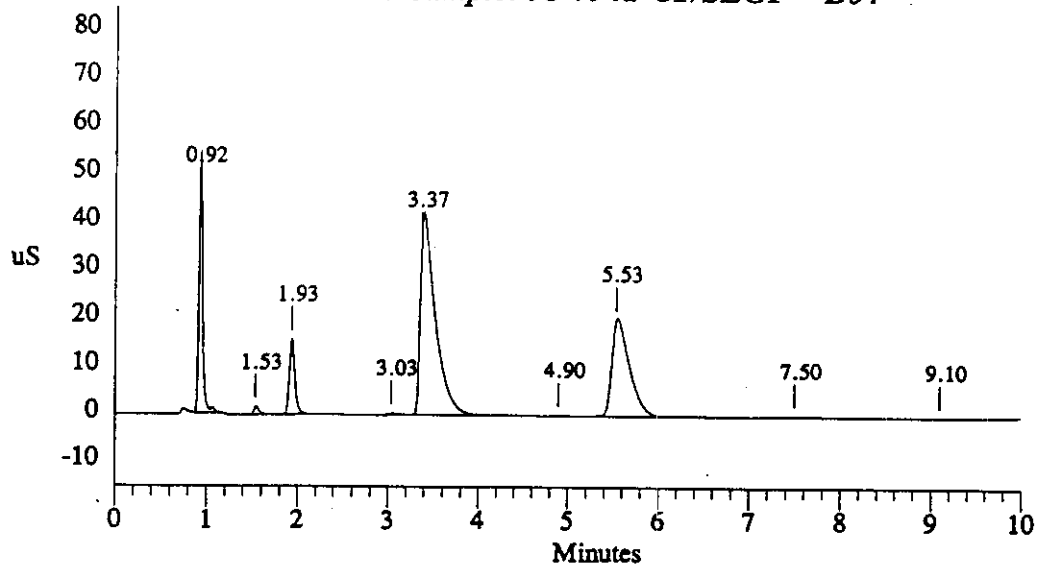
Sample Name: 95-7941-C1/SEG1 - B04 Date: 09/14/1995 17:16:41
Data File : C:\DX\DATA\9509142\95091421.D18
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 18 Vial:B04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	71.295	44173554	153487455	1	-0.70
2	1.53	CHLORIDE	8.238	1552273	8215940	1	0.00
3	1.93	NITRITE	81.452	15728454	67967463	1	0.46
4	3.03	BROMIDE	5.460	304372	2479238	1	5.36
5	3.37	NITRATE	578.188	35400066	481527501	1	0.00
6	4.90		0.000	30332	363705	1	
7	5.53	PHOSPHATE	647.975	20194231	278733070	1	1.74
8	7.50	SULFATE	7.786	154594	3006100	1	0.00
9	9.10		0.000	12686	262707	1	
		Totals	1400.394	117550562	996043179		

File: 95091421.D18 Sample: 95-7941-C1/SEG1 - B04



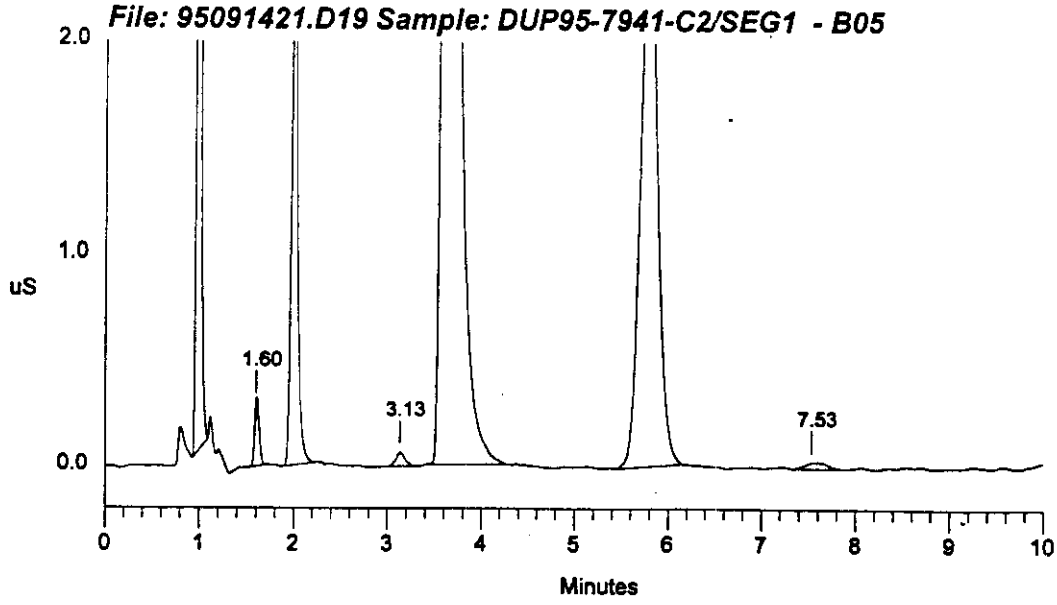
Data Reprocessed On 09/22/1995 03:13:04

Sample Name:	DUP95-7941-C2/SEG1 - B05	Date:	09/14/1995 17:29:09
Data File :	C:\DX\DATA\9509142\95091421.D19		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 19 Vial:B05	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	52.883	5226063	18678260	1	0.35
2	1.60	CHLORIDE	14.287	300158	1080600	1	0.00
3	1.98	NITRITE	87.694	2384713	11467668	1	-1.24
4	3.13	BROMIDE	5.847	64387	447167	1	4.30
5	3.60	NITRATE	626.045	8612898	85946308	1	0.00
6	5.77	PHOSPHATE	495.282	2572848	32621964	1	-0.84
7	7.53	SULFATE	24.998	30618	538674	1	0.00
		Totals	1307.037	19191687	150780642		



Data Reprocessed On 09/22/1995 02:54:42

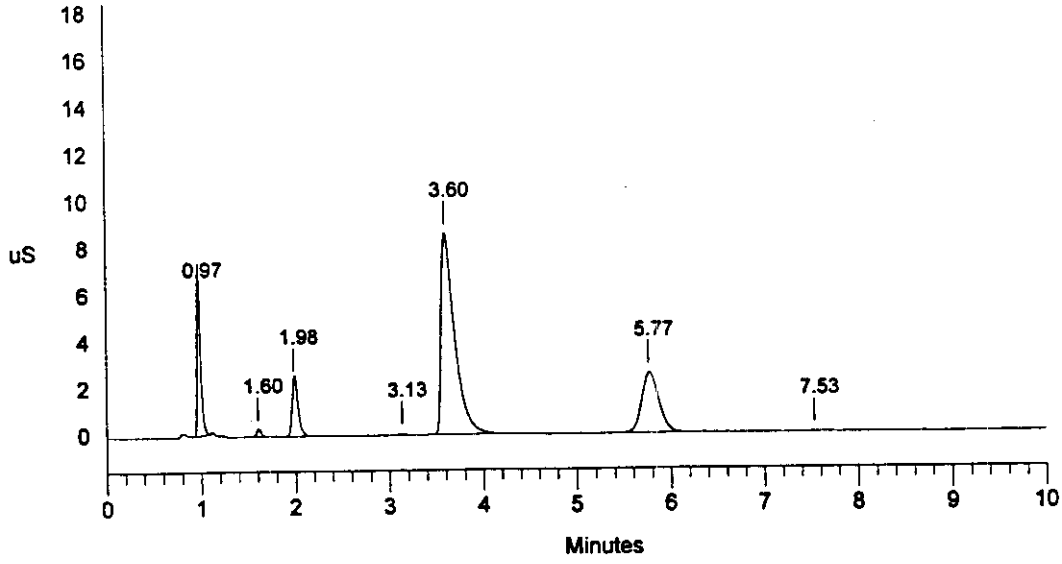
Sample Name: DUP95-7941-C2/SEG1 - B05		Date: 09/14/1995 17:29:09	
Data File : C:\DX\DATA\9509142\95091421.d19			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 19 Vial:B05			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	52.883	5226063	18678260	1	0.35
2	1.60	CHLORIDE	14.287	300158	1080600	1	0.00
3	1.98	NITRITE	87.694	2384713	11467668	1	-1.24
4	3.13	BROMIDE	5.847	64387	447167	1	4.30
5	3.60	NITRATE	626.045	8612898	85946308	1	0.00
6	5.77	PHOSPHATE	495.282	2572848	32621964	1	-0.84
7	7.53	SULFATE	24.998	30618	538674	1	0.00
		Totals	1307.037	19191687	150780642		

File: 95091421.d19 Sample: DUP95-7941-C2/SEG1 - B05



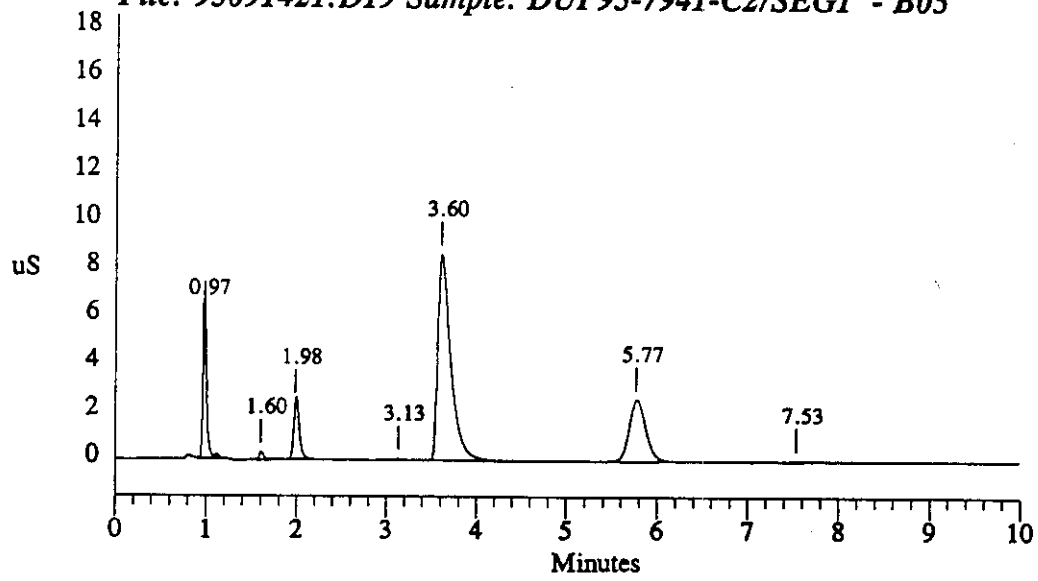
Sample Name: DUP95-7941-C2/SEG1 - B05 Date: 09/14/1995 17:29:09
Data File : C:\DX\DATA\9509142\95091421.D19
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 19 Vial:B05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	55.413	5247096	19782854	1	0.35
2	1.60	CHLORIDE	15.966	316202	1523569	1	0.00
3	1.98	NITRITE	88.804	2388484	11663020	1	-1.24
4	3.13	BROMIDE	6.099	65819	470920	1	4.30
5	3.60	NITRATE	632.095	8624255	86837464	1	0.00
6	5.77	PHOSPHATE	505.042	2581367	33316698	1	-0.84
7	7.53	SULFATE	24.998	30618	538674	1	0.00
		Totals	1328.417	19253843	154133199		

File: 95091421.D19 Sample: DUP95-7941-C2/SEG1 - B05



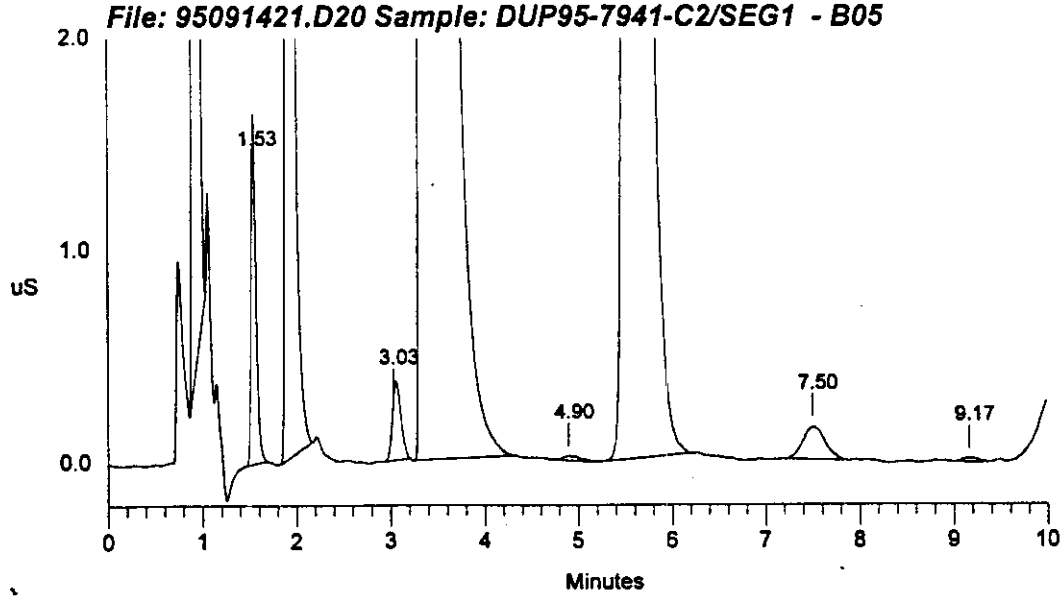
Data Reprocessed On 09/22/1995 03:13:34

Sample Name: DUP95-7941-C2/SEG1 - B05		Date: 09/14/1995 17:41:46	
Data File : C:\DX\DATA\9509142\95091421.D20			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 20 Vial:B05			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	52.730	34090195	111781608	1	-0.70
2	1.53	CHLORIDE	6.542	1329123	5958383	1	0.00
3	1.93	NITRITE	80.308	15274368	66950503	1	0.46
4	3.03	BROMIDE	5.139	279840	2326658	1	5.36
5	3.37	NITRATE	645.219	47205709	556710666	1	0.00
6	4.90		0.000	20442	304877	1	
7	5.57	PHOSPHATE	515.993	15299325	206230502	1	2.36
8	7.50	SULFATE	7.208	153203	2494399	1	0.00
9	9.17		0.000	18634	244334	1	
		Totals	1313.138	113670840	953001929		



Data Reprocessed On 09/22/1995 02:54:43

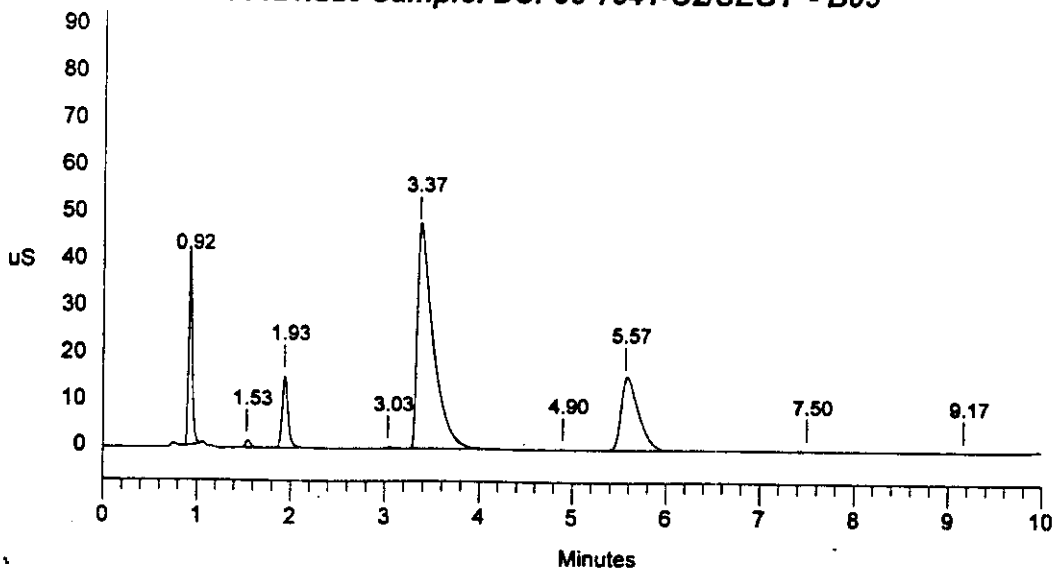
Sample Name: DUP95-7941-C2/SEG1 - B05		Date: 09/14/1995 17:41:46	
Data File : C:\DX\DATA\9509142\95091421.d20			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 20 Vial:B05			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	52.730	34090195	111781608	1	-0.70
2	1.53	CHLORIDE	6.542	1329123	5958383	1	0.00
3	1.93	NITRITE	80.308	15274368	66950503	1	0.46
4	3.03	BROMIDE	5.139	279840	2326658	1	5.36
5	3.37	NITRATE	645.219	47205709	556710666	1	0.00
6	4.90		0.000	20442	304877	1	
7	5.57	PHOSPHATE	515.993	15299325	206230502	1	2.36
8	7.50	SULFATE	7.208	153203	2494399	1	0.00
9	9.17		0.000	18634	244334	1	
		Totals	1313.138	113670840	953001929		

File: 95091421.d20 Sample: DUP95-7941-C2/SEG1 - B05



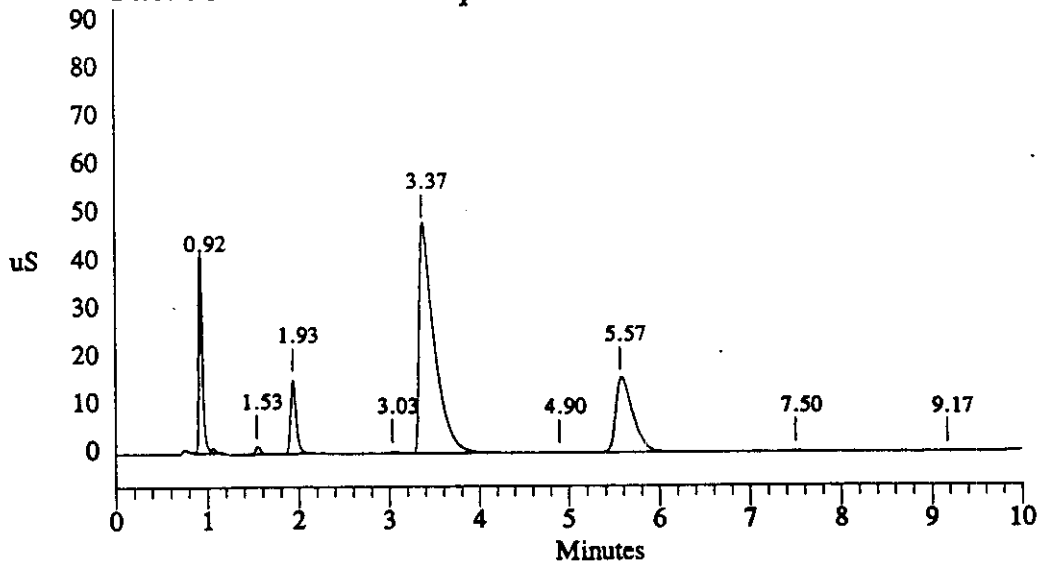
Sample Name: DUP95-7941-C2/SEG1 - B05 Date: 09/14/1995 17:41:46
Data File : C:\DX\DATA\9509142\95091421.D20
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 20 Vial:B05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	55.464	34256497	117895355	1	-0.70
2	1.53	CHLORIDE	8.106	1409462	8039429	1	0.00
3	1.93	NITRITE	80.308	15274368	66950503	1	0.46
4	3.03	BROMIDE	5.290	282400	2398733	1	5.36
5	3.37	NITRATE	645.926	47207579	557542088	1	0.00
6	4.90		0.000	20442	304877	1	
7	5.57	PHOSPHATE	519.241	15310944	207864861	1	2.36
8	7.50	SULFATE	7.589	155804	2831304	1	0.00
9	9.17		0.000	18634	244334	1	
		Totals	1321.924	113936131	964071484		

File: 95091421.D20 Sample: DUP95-7941-C2/SEG1 - B05



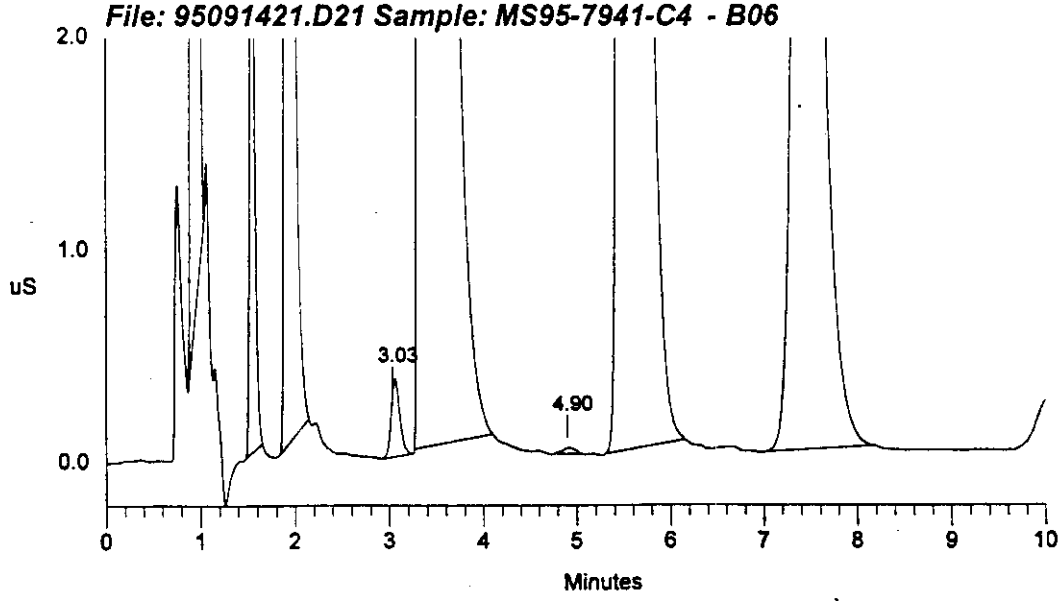
Data Reprocessed On 09/22/1995 03:13:55

Sample Name: MS95-7941-C4 - B06		Date: 09/14/1995 17:54:23	
Data File : C:\DX\DATA\9509142\95091421.D21			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 21 Vial:B06			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	75.784	59496677	163638973	1	0.02
2	1.55	CHLORIDE	10.305	3130512	10977255	1	0.00
3	1.93	NITRITE	118.059	21325552	100593657	1	-0.62
4	3.03	BROMIDE	5.126	273287	2320573	1	4.23
5	3.37	NITRATE	695.751	53320582	618500027	1	0.00
6	4.90		0.000	27109	274305	1	
7	5.53	PHOSPHATE	700.879	22920025	312439206	1	1.74
8	7.43	SULFATE	142.286	6903358	126706939	1	0.00
		Totals	1748.190	167397101	1335450935		



Data Reprocessed On 09/22/1995 02:54:44

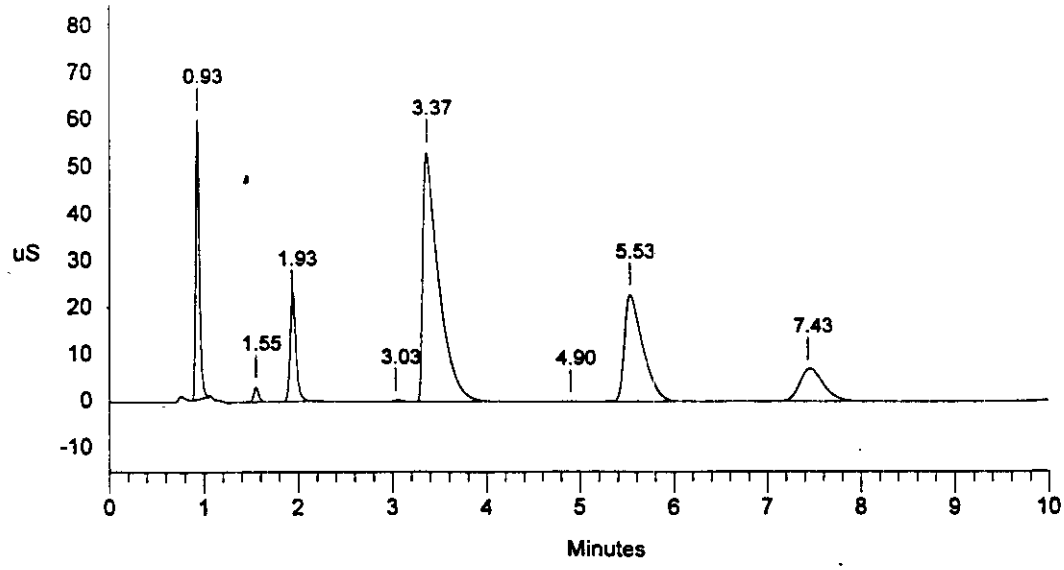
Sample Name: MS95-7941-C4 - B06		Date: 09/14/1995 17:54:23	
Data File : C:\DX\DATA\9509142\95091421.d21			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 21 Vial:B06			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	75.784	59496677	163638973	1	0.02
2	1.55	CHLORIDE	10.305	3130512	10977255	1	0.00
3	1.93	NITRITE	118.059	21325552	100593657	1	-0.62
4	3.03	BROMIDE	5.126	273287	2320573	1	4.23
5	3.37	NITRATE	695.751	53320582	618500027	1	0.00
6	4.90		0.000	27109	274305	1	
7	5.53	PHOSPHATE	700.879	22920025	312439206	1	1.74
8	7.43	SULFATE	142.286	6903358	126706939	1	0.00
		Totals	1748.190	167397101	1335450935		

File: 95091421.d21 Sample: MS95-7941-C4 - B06



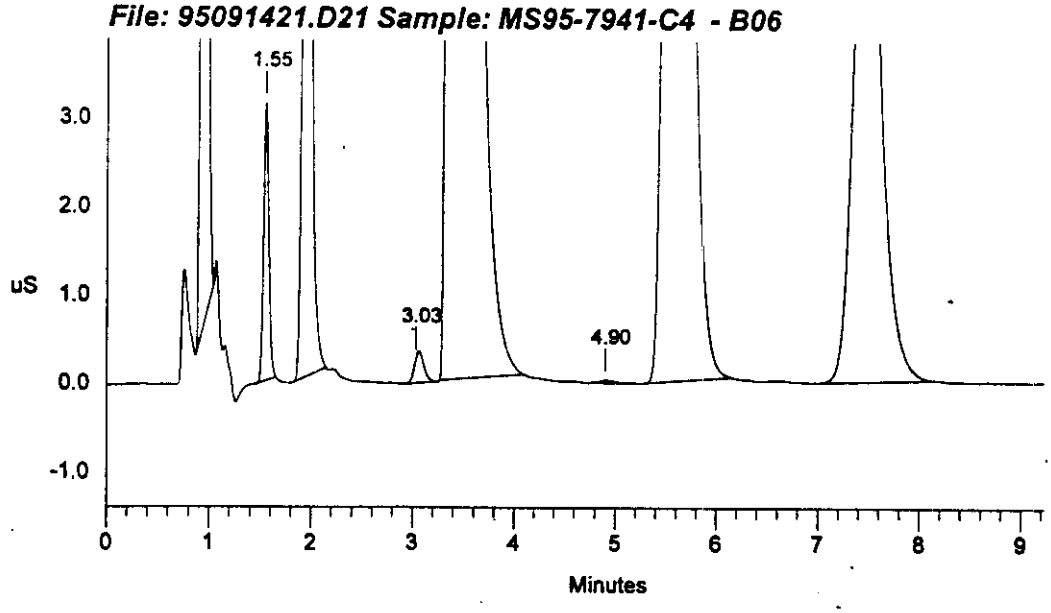
Data Reprocessed On 09/18/1995 08:25:56

Sample Name: MS95-7941-C4 - B06		Date: 09/14/1995 17:54:23	
Data File : C:\DX\DATA\9509142\95091421.D21			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 21 Vial:B06			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	9.23	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	75.784	59496677	163638973	1	0.02
2	1.55	CHLORIDE	10.305	3130512	10977255	1	0.00
3	1.93	NITRITE	118.059	21325552	100593657	1	-0.62
4	3.03	BROMIDE	5.126	273287	2320573	1	4.23
5	3.37	NITRATE	695.751	53320582	618500027	1	0.00
6	4.90		0.000	27109	274305	1	
7	5.53	PHOSPHATE	700.879	22920025	312439206	1	1.74
8	7.43	SULFATE	142.286	6903358	126706939	1	0.00
		Totals	1748.190	167397101	1335450935		



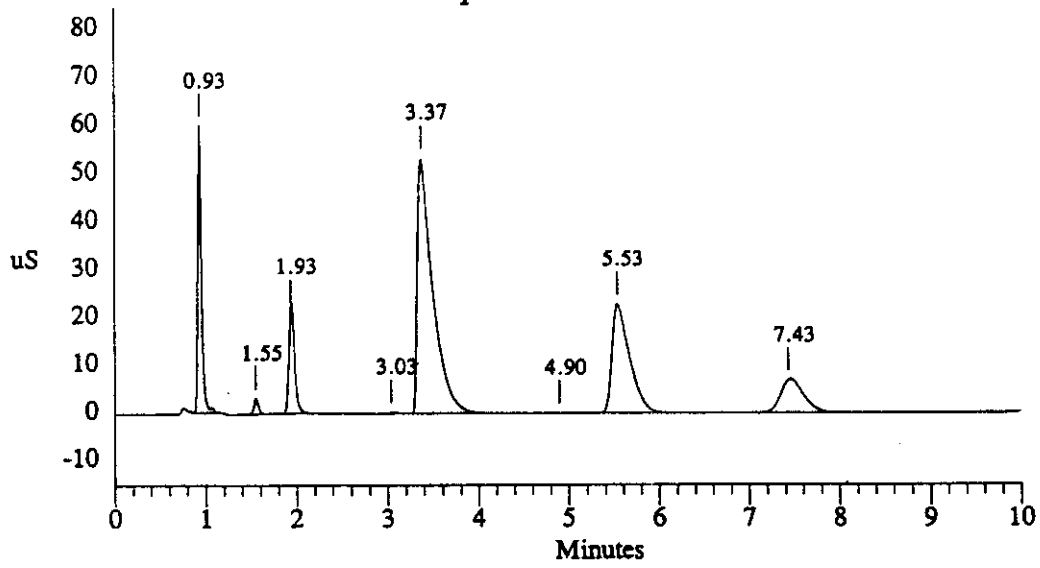
Sample Name: MS95-7941-C4 - B06 Date: 09/14/1995 17:54:23
Data File : C:\DX\DATA\9509142\95091421.D21
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 21 Vial:B06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	79.154	59789083	171274989	1	0.02
2	1.55	CHLORIDE	12.556	3254359	13997976	1	0.00
3	1.93	NITRITE	118.437	21336462	100931631	1	-0.62
4	3.03	BROMIDE	5.126	273287	2320573	1	4.23
5	3.37	NITRATE	698.142	53330507	621553735	1	0.00
6	4.90		0.000	27109	274305	1	
7	5.53	PHOSPHATE	703.551	22938685	314237741	1	1.74
8	7.43	SULFATE	143.456	6914308	127826056	1	0.00
		Totals	1760.422	167863799	1352417005		

File: 95091421.D21 Sample: MS95-7941-C4 - B06



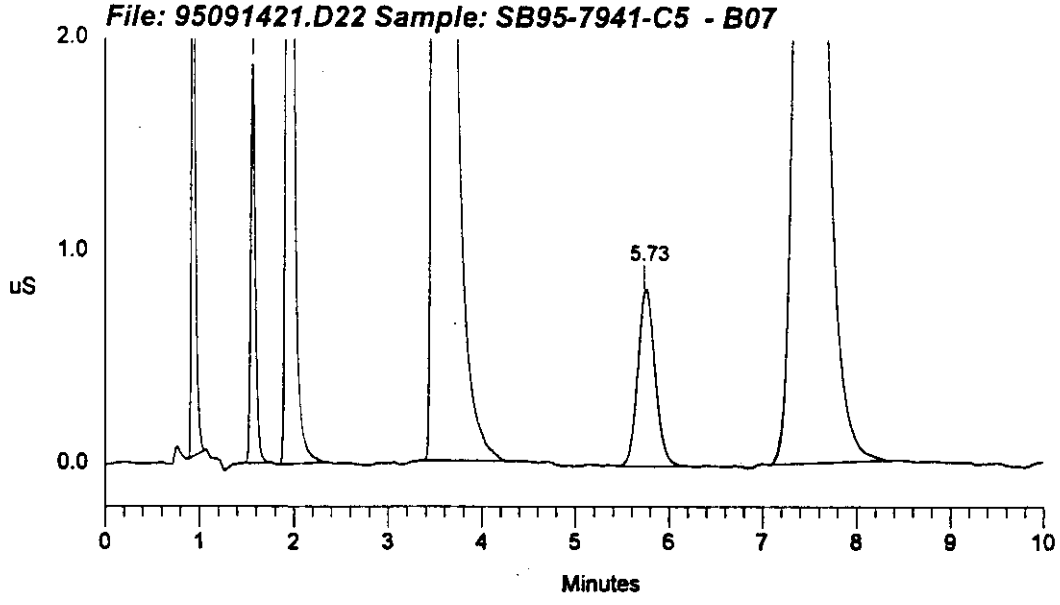
Data Reprocessed On 09/22/1995 03:14:21

Sample Name: SB95-7941-C5 - B07		Date: 09/14/1995 18:07:01	
Data File : C:\DX\DATA\9509142\95091421.D22			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 22 Vial:B07			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	6.062	3365774	8832799	1	-1.05
2	1.57	CHLORIDE	6.884	1875287	6412748	1	0.00
3	1.95	NITRITE	46.142	8443919	36681242	1	-0.83
4	3.50	NITRATE	207.923	12962024	148395820	1	0.00
5	5.73	PHOSPHATE	36.591	800272	10804687	1	1.41
6	7.47	SULFATE	148.709	7468954	132858616	1	0.00
		Totals	452.312	34916231	343985912		



Data Reprocessed On 09/22/1995 02:54:45

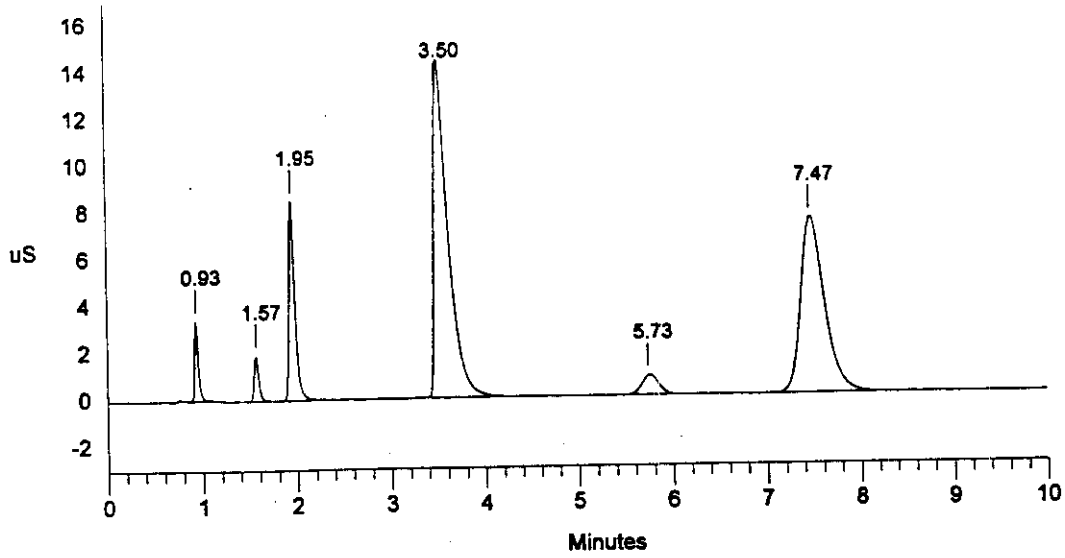
Sample Name: SB95-7941-C5 - B07		Date: 09/14/1995 18:07:01	
Data File : C:\DX\DATA\9509142\95091421.d22			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 22 Vial:B07			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	6.062	3365774	8832799	1	-1.05
2	1.57	CHLORIDE	6.884	1875287	6412748	1	0.00
3	1.95	NITRITE	46.142	8443919	36681242	1	-0.83
4	3.50	NITRATE	207.923	12962024	148395820	1	0.00
5	5.73	PHOSPHATE	36.591	800272	10804687	1	1.41
6	7.47	SULFATE	148.709	7468954	132858616	1	0.00
		Totals	452.312	34916231	343985912		

File: 95091421.d22 Sample: SB95-7941-C5 - B07



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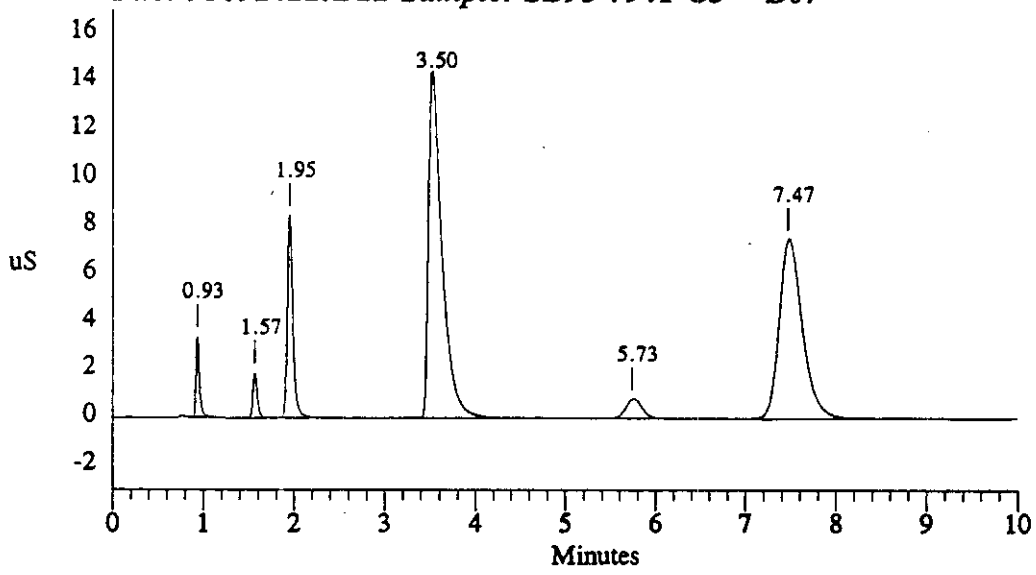
Sample Name: SB95-7941-C5  - B07              Date: 09/14/1995 18:07:01
Data File  : C:\DX\DATA\9509142\95091421.D22
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 22  Vial:B07        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	5	1	3000	5Hz	0.00	10.00	30000	

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	6.217	3377329	9169482	1	-1.05
2	1.57	CHLORIDE	7.285	1894660	6946247	1	0.00
3	1.95	NITRITE	46.608	8446697	37092945	1	-0.83
4	3.50	NITRATE	209.374	12980567	149520350	1	0.00
5	5.73	PHOSPHATE	36.687	800629	10837567	1	1.41
6	7.47	SULFATE	150.752	7485221	134820117	1	0.00
		Totals	456.923	34985104	348386707		

File: 95091421.D22 Sample: SB95-7941-C5 - B07



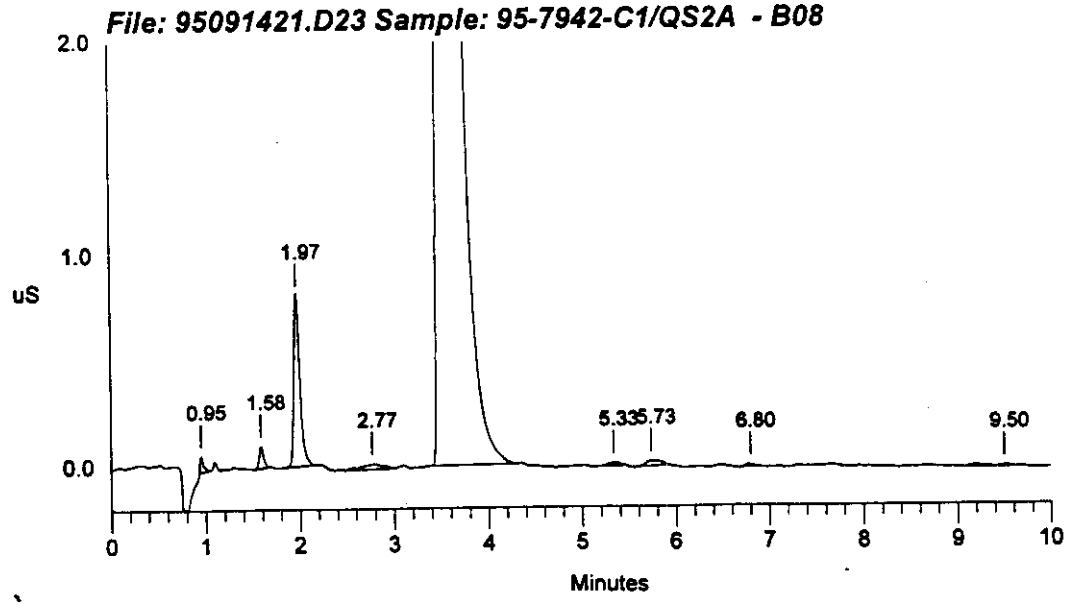
Data Reprocessed On 09/22/1995 03:14:43

Sample Name: 95-7942-C1/QS2A - B08		Date: 09/14/1995 18:20:14	
Data File : C:\DX\DATA\9509142\95091421.D23			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 23 Vial:B08			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	52.316	75359	196472	1	-0.34
2	1.58	CHLORIDE	57.644	105711	353360	1	0.00
3	1.97	NITRITE	216.796	809679	3675003	1	-1.04
4	2.77	BROMIDE	27.298	24824	410595	1	-6.93
5	3.53	NITRATE	5970.378	16531532	172570617	1	0.00
6	5.33		0.000	16121	152049	1	
7	5.73	PHOSPHATE	143.309	24916	306347	1	0.45
8	6.80	SULFATE	111.335	9365	55398	1	0.00
9	9.50		0.000	8828	273153	1	
		Totals	6579.076	17606334	177992995		



Data Reprocessed On 09/22/1995 02:54:46

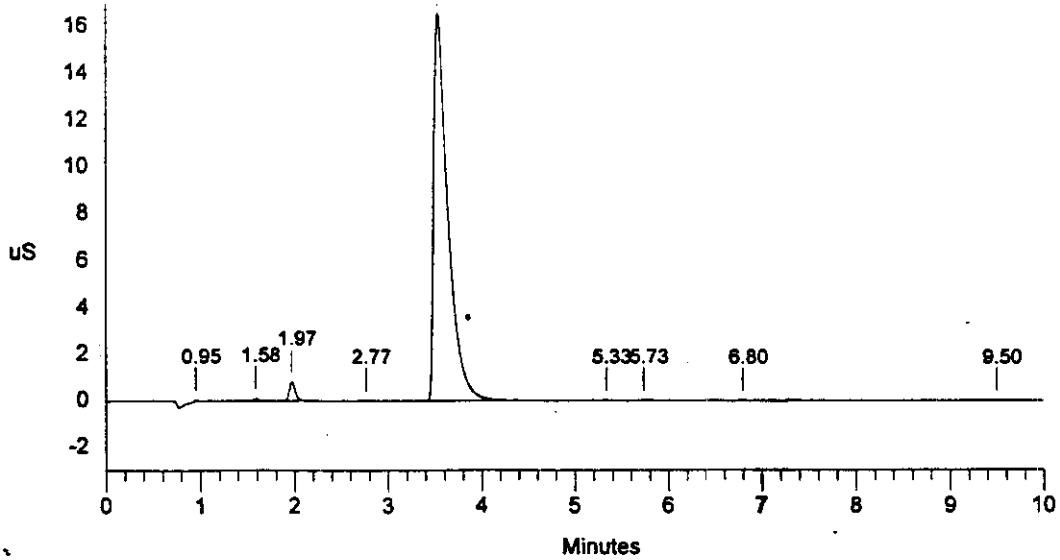
Sample Name: 95-7942-C1/QS2A - B08		Date: 09/14/1995 18:20:14	
Data File : C:\DX\DATA\9509142\95091421.d23			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 23 Vial:B08			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	52.316	75359	196472	1	-0.34
2	1.58	CHLORIDE	57.644	105711	353360	1	0.00
3	1.97	NITRITE	216.796	809679	3675003	1	-1.04
4	2.77	BROMIDE	27.298	24824	410595	1	-6.93
5	3.53	NITRATE	5970.378	16531532	172570617	1	0.00
6	5.33		0.000	16121	152049	1	
7	5.73	PHOSPHATE	143.309	24916	306347	1	0.45
8	6.80	SULFATE	111.335	9365	55398	1	0.00
9	9.50		0.000	8828	273153	1	
		Totals	6579.076	17606334	177992995		

File: 95091421.d23 Sample: 95-7942-C1/QS2A - B08



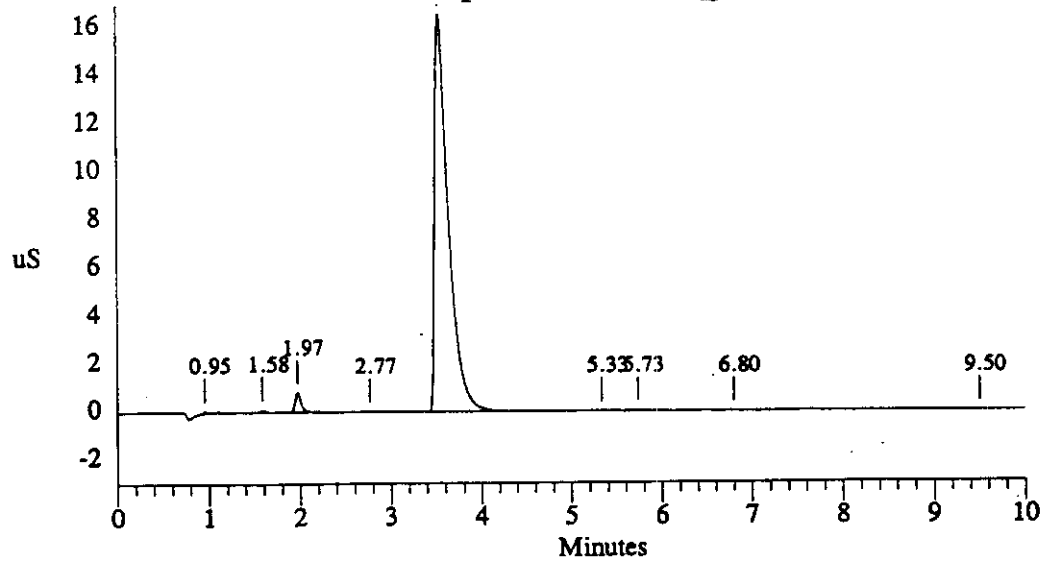
Sample Name: 95-7942-C1/QS2A - B08 Date: 09/14/1995 18:20:14
Data File : C:\DX\DATA\9509142\95091421.D23
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 23 Vial:B08 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	52.316	75359	196472	1	-0.34
2	1.58	CHLORIDE	58.585	108774	402957	1	0.00
3	1.97	NITRITE	226.284	816641	4008317	1	-1.04
4	2.77	BROMIDE	27.298	24824	410595	1	-6.93
5	3.53	NITRATE	5997.284	16539750	173421811	1	0.00
6	5.33		0.000	21483	263980	1	
7	5.73	PHOSPHATE	158.335	31353	509144	1	0.45
8	6.80	SULFATE	115.681	16351	209219	1	0.00
9	9.50		0.000	8828	273153	1	
		Totals	6635.783	17643361	179695648		

File: 95091421.D23 Sample: 95-7942-C1/QS2A - B08



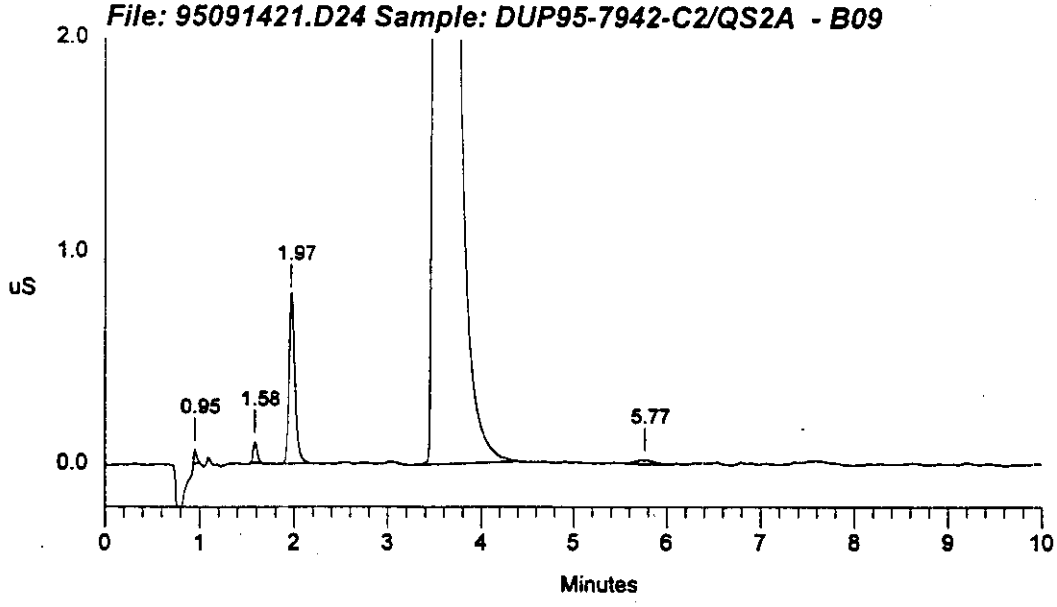
Data Reprocessed On 09/22/1995 03:15:05

Sample Name: DUP95-7942-C2/QS2A - B09		Date: 09/14/1995 18:33:27	
Data File : C:\DX\DATA\9509142\95091421.D24			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 24 Vial:B09			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	51.631	63914	136884	1	-0.34
2	1.58	CHLORIDE	56.550	95385	295701	1	0.00
3	1.97	NITRITE	213.642	784324	3564211	1	-1.04
4	3.53	NITRATE	6003.798	16465427	173628001	1	0.00
5	5.77	PHOSPHATE	141.600	18547	283281	1	1.03
		Totals	6467.221	17427598	177908077		



Data Reprocessed On 09/22/1995 02:54:46

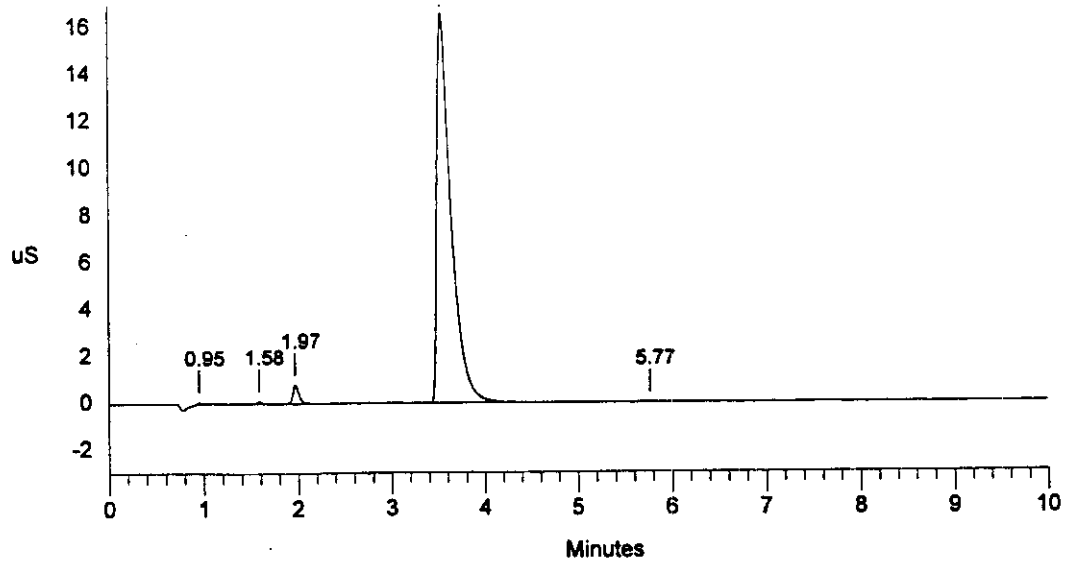
Sample Name: DUP95-7942-C2/QS2A - B09		Date: 09/14/1995 18:33:27	
Data File : C:\DX\DATA\9509142\95091421.d24			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 24 Vial:B09			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	51.631	63914	136884	1	-0.34
2	1.58	CHLORIDE	56.550	95385	295701	1	0.00
3	1.97	NITRITE	213.642	784324	3564211	1	-1.04
4	3.53	NITRATE	6003.798	16465427	173628001	1	0.00
5	5.77	PHOSPHATE	141.600	18547	283281	1	1.03
		Totals	6467.221	17427598	177908077		

File: 95091421.d24 Sample: DUP95-7942-C2/QS2A - B09



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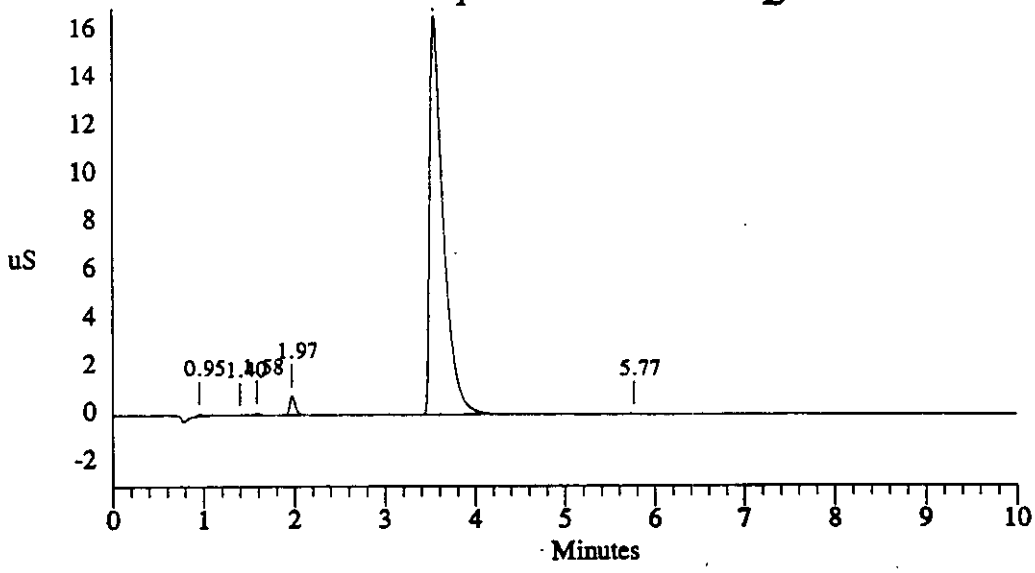
Sample Name: DUP95-7942-C2/QS2A  - B09      Date: 09/14/1995 18:33:27
Data File  : C:\DX\DATA\9509142\95091421.D24
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 24  Vial:B09        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	54.699	81846	403661	1	-0.34
2	1.40		0.000	10708	124193	2	
3	1.58	CHLORIDE	57.866	104116	365054	2	0.00
4	1.97	NITRITE	215.314	785921	3622958	1	-1.04
5	3.53	NITRATE	6013.038	16468110	173920508	1	0.00
6	5.77	PHOSPHATE	143.692	18598	311518	1	1.03
		Totals	6484.610	17469299	178747892		

File: 95091421.D24 Sample: DUP95-7942-C2/QS2A - B09



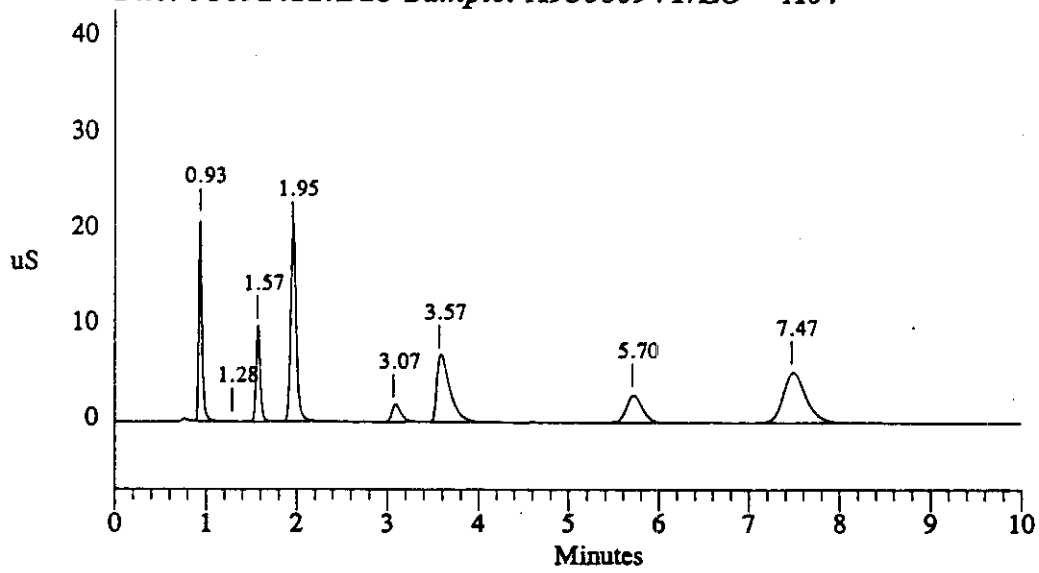
Sample Name: A950609V1/LO - A04 Date: 09/14/1995 18:46:05
Data File : C:\DX\DATA\9509142\95091421.D25
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 25 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.454	20941240	53493414	1	-1.05
2	1.28		0.000	45160	270024	1	
3	1.57	CHLORIDE	26.216	9694946	32635534	1	0.00
4	1.95	NITRITE	106.972	19606271	90691232	1	-0.83
5	3.07	BROMIDE	28.137	1566236	13489874	1	4.26
6	3.57	NITRATE	103.766	6685348	70255416	1	0.00
7	5.70	PHOSPHATE	108.353	2754925	35937836	1	-1.07
8	7.47	SULFATE	107.339	5162804	93650407	1	0.00
		Totals	507.237	66456931	390423738		

File: 95091421.D25 Sample: A950609V1/LO - A04



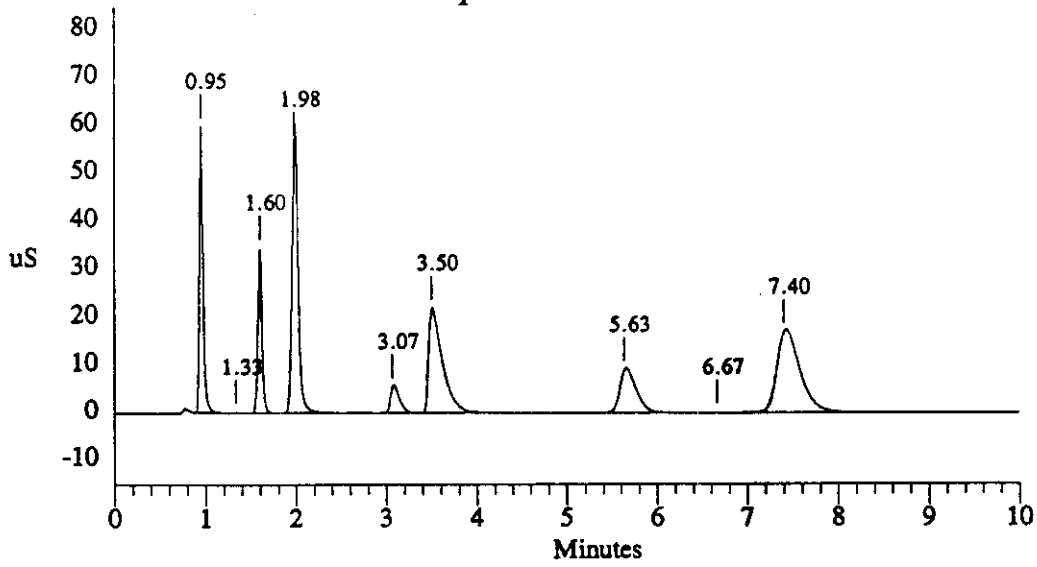
Sample Name: A950609V2/MID - A04 Date: 09/14/1995 18:59:05
Data File : C:\DX\DATA\9509142\95091421.D26
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 26 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.088	59627687	169255829	1	-1.38
2	1.33		0.000	107057	527856	1	
3	1.60	CHLORIDE	26.609	34314070	111771038	1	0.00
4	1.98	NITRITE	106.210	56159342	282960186	1	-1.24
5	3.07	BROMIDE	27.295	5416826	41720350	1	2.08
6	3.50	NITRATE	104.394	21744597	232916680	1	0.00
7	5.63	PHOSPHATE	108.204	8983013	119131571	1	-0.36
8	6.67		0.000	11778	126428	1	
9	7.40	SULFATE	106.881	16856273	307588020	1	0.00
		Totals	505.680	203220643	1265997958		

File: 95091421.D26 Sample: A950609V2/MID - A04



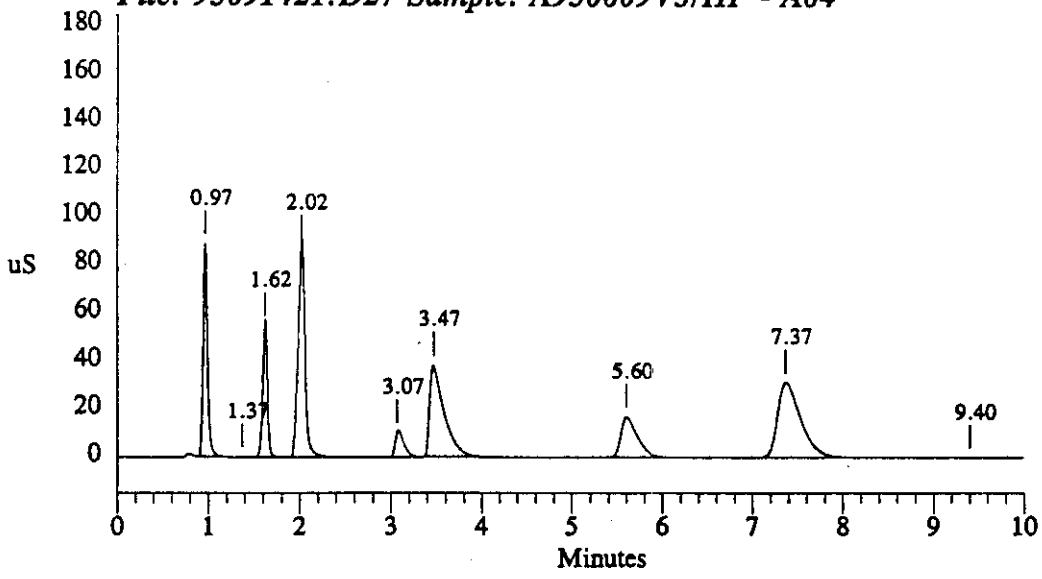
Sample Name: A950609V3/HI - A04 Date: 09/14/1995 19:12:30
Data File : C:\DX\DATA\9509142\95091421.D27
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 27 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.454	88652654	293690362	1	-0.68
2	1.37		0.000	154111	848344	1	
3	1.62	CHLORIDE	26.689	54614194	204192097	1	0.00
4	2.02	NITRITE	106.096	87033568	482750091	1	-0.61
5	3.07	BROMIDE	27.266	10386919	74480731	1	1.03
6	3.47	NITRATE	104.467	38274886	423546957	1	0.00
7	5.60	PHOSPHATE	108.497	16994787	219748144	1	0.00
8	7.37	SULFATE	107.207	31266641	563779081	1	0.00
9	9.40		0.000	11987	273095	1	
		Totals	506.675	327389747	2263308901		

File: 95091421.D27 Sample: A950609V3/HI - A04

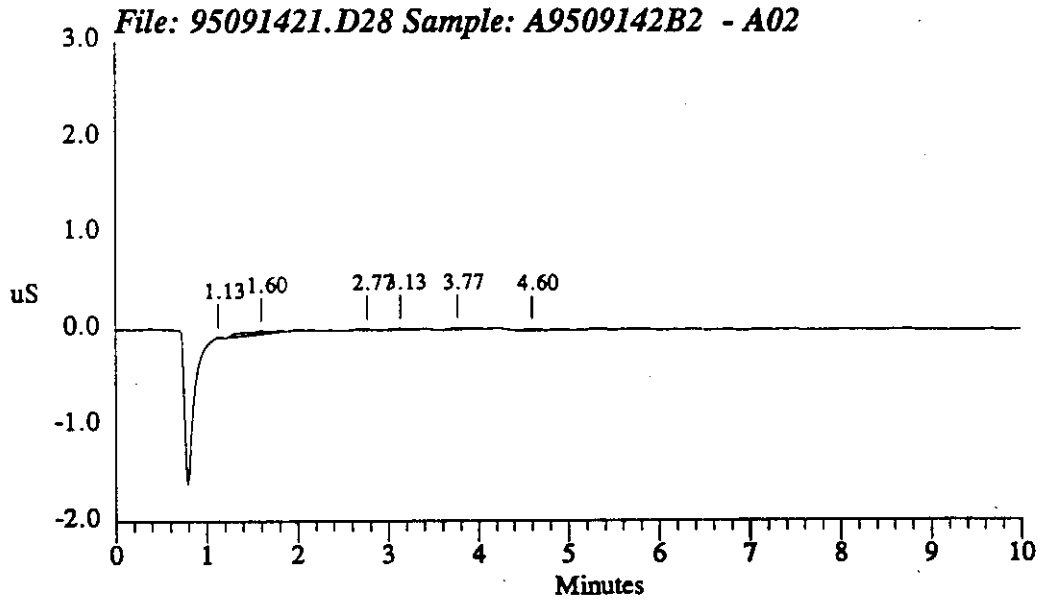


Sample Name: A9509142B2 - A02 Date: 09/14/1995 19:28:58
Data File : C:\DX\DATA\9509142\95091421.D28
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 28 Vial:A02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	11305	52542	1	
2	1.60	CHLORIDE	0.136	32034	896700	1	0.00
3	2.77		0.000	16573	240506	1	
4	3.13	BROMIDE	0.031	17108	191914	1	4.30
5	3.77	NITRATE	0.249	19431	330997	1	0.00
6	4.60		0.000	15522	345567	1	
		Totals	0.417	111973	2058226		

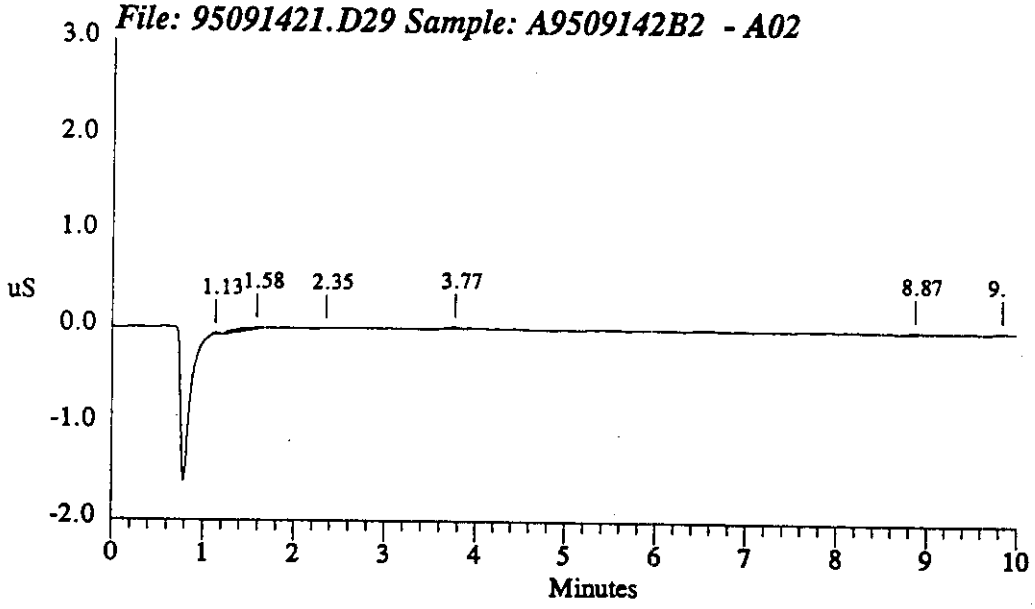


Sample Name: A9509142B2 - A02 Date: 09/14/1995 19:45:17
Data File : C:\DX\DATA\9509142\95091421.D29
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 29 Vial:A02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	17424	71473	1	
2	1.58	CHLORIDE	0.122	23882	528723	1	0.00
3	2.35		0.000	6683	72528	1	
4	3.77	NITRATE	0.240	20518	205827	1	0.00
5	8.87		0.000	16449	135764	1	
6	9.83		0.000	6231	56957	1	
		Totals	0.362	91187	1071272		



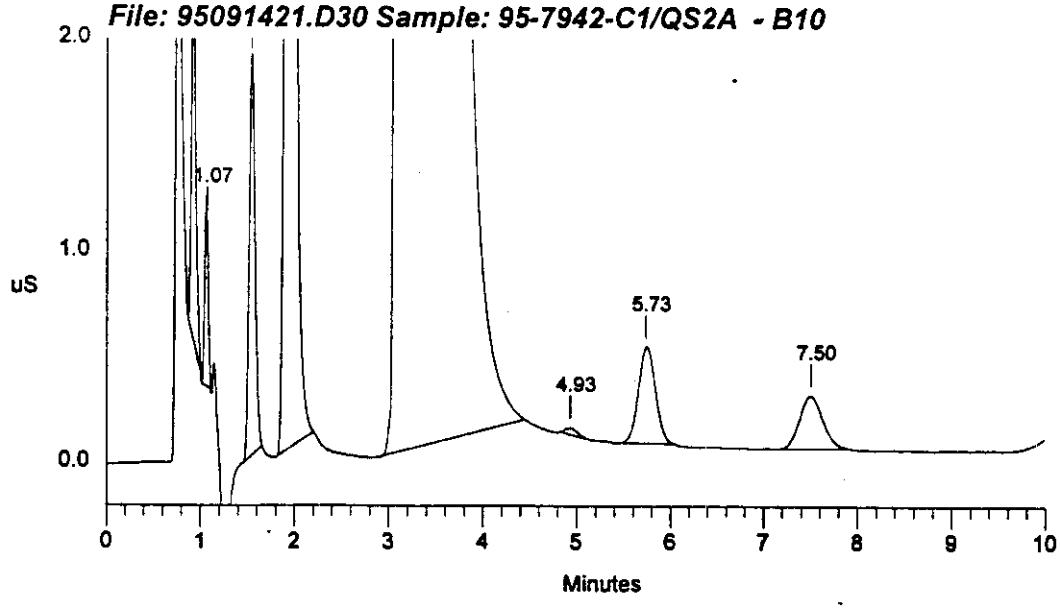
Data Reprocessed On 09/22/1995 03:15:38

Sample Name: 95-7942-C1/QS2A - B10		Date: 09/14/1995 19:57:54	
Data File : C:\DX\DATA\9509142\95091421.D30			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 30 Vial:B10			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.655	1774822	5770485	1	-0.70
2	1.07		0.000	786345	2315536	1	
3	1.53	CHLORIDE	8.208	1876697	8175240	1	0.00
4	1.93	NITRITE	125.205	21147561	106985417	1	0.46
5	3.10	BROMIDE	-130601.287	469955544	6011663896	1	7.68
6	4.93		0.000	29633	267316	1	
7	5.73	PHOSPHATE	21.897	453727	5783378	1	2.38
8	7.50	SULFATE	9.283	249758	4332944	1	0.0r
		Totals	-130432.039	496274086	6145294211		



WHC-SD-WM-DP-145 REV 1

Data Reprocessed On ~~09/22/1995 02~~:54:47

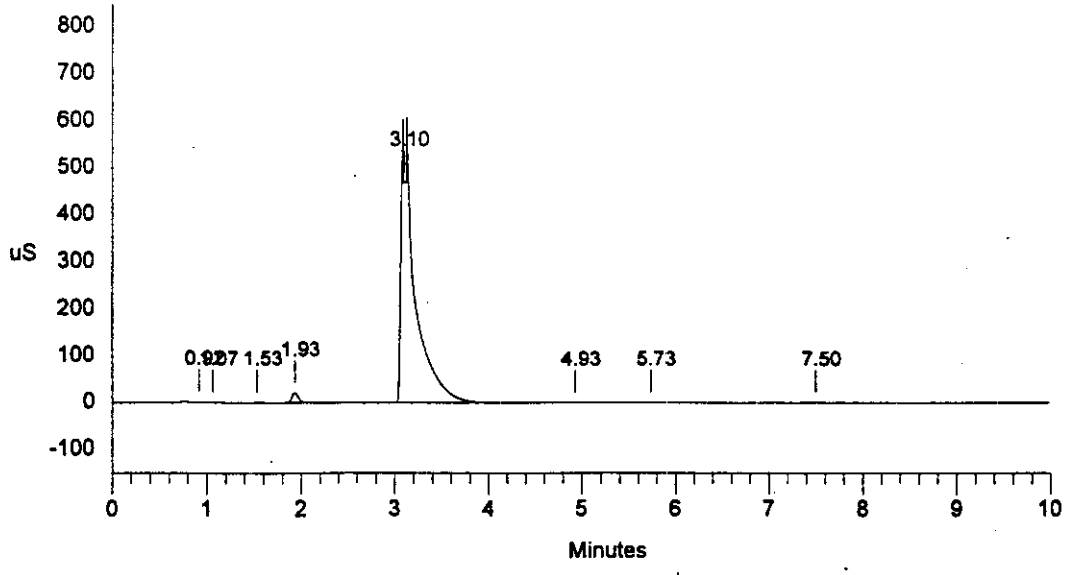
Sample Name: 95-7942-C1/QS2A - B10		Date: 09/14/1995 19:57:54	
Data File : C:\DX\DATA\9509142\95091421.d30			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2	Inject#: 30 Vial:B10		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.655	1774822	5770485	1	-0.70
2	1.07		0.000	786345	2315536	1	
3	1.53	CHLORIDE	8.208	1876697	8175240	1	0.00
4	1.93	NITRITE	125.205	21147561	106985417	1	0.46
5	3.10	BROMIDE	-130601.287	469955544	6011663896	1	7.68
6	4.93		0.000	29633	267316	1	
7	5.73	PHOSPHATE	21.897	453727	5783378	1	2.38
8	7.50	SULFATE	9.283	249758	4332944	1	0.00
		Totals	-130432.039	496274086	6145294211		

File: 95091421.d30 Sample: 95-7942-C1/QS2A - B10



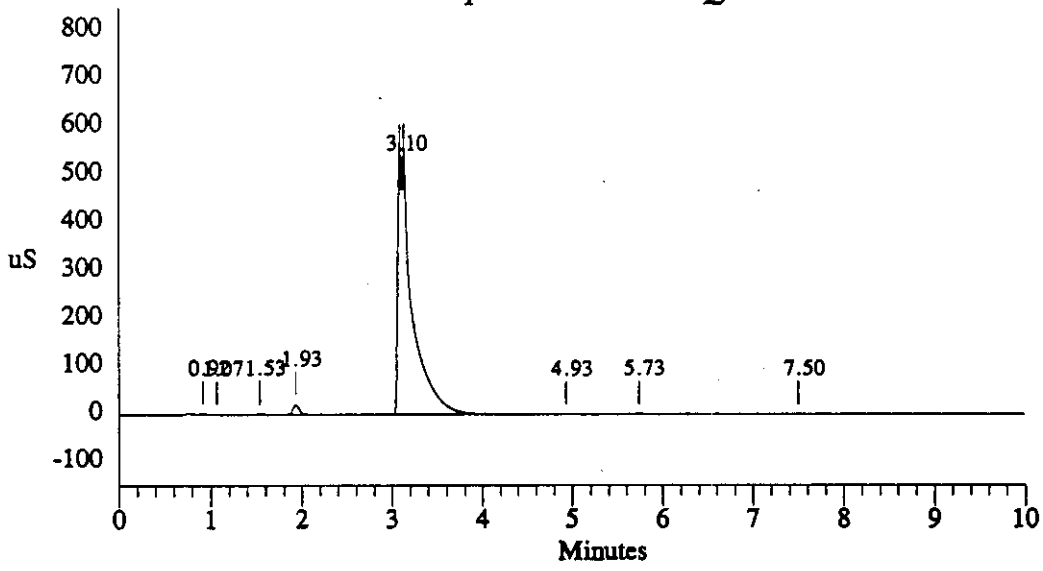
Sample Name: 95-7942-C1/QS2A - B10 Date: 09/14/1995 19:57:54
Data File : C:\DX\DATA\9509142\95091421.D30
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 30 Vial:B10 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.655	1774822	5770485	1	-0.70
2	1.07		0.000	786345	2315536	1	
3	1.53	CHLORIDE	13.187	2138971	14846695	1	0.00
4	1.93	NITRITE	127.751	21182928	109264984	1	0.46
5	3.10	BROMIDE	-130799.871	469966129	6016019806	1	7.68
6	4.93		0.000	32485	234325	1	
7	5.73	PHOSPHATE	22.350	457815	5937838	1	2.38
8	7.50	SULFATE	9.485	253782	4512538	1	0.00
		Totals	-130622.442	496593275	6158902207		

File: 95091421.D30 Sample: 95-7942-C1/QS2A - B10



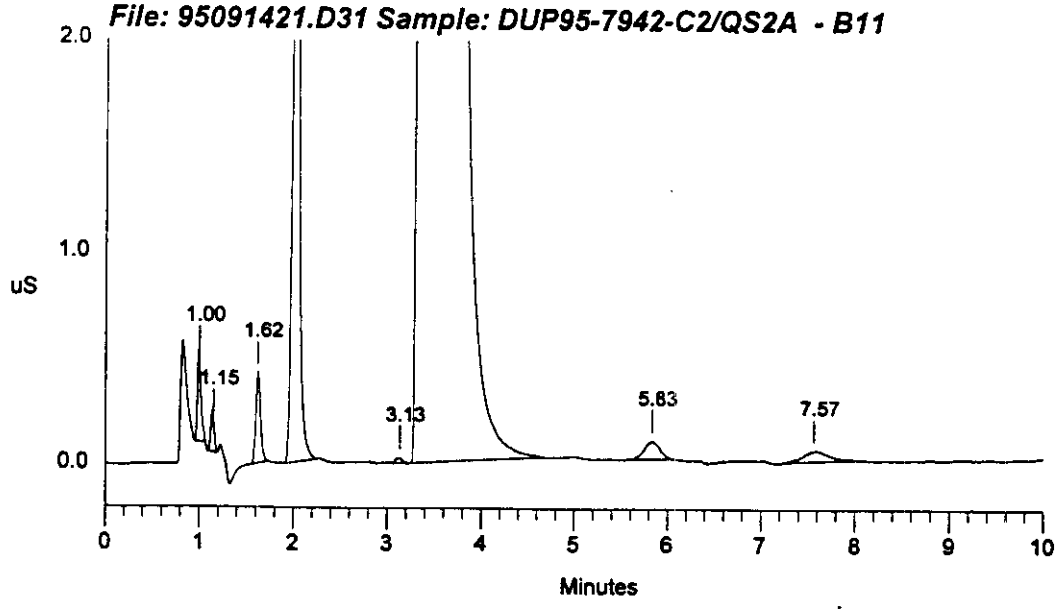
Data Reprocessed On 09/22/1995 03:15:58

Sample Name: DUP95-7942-C2/QS2A - B11		Date: 09/14/1995 20:10:20	
Data File : C:\DX\DATA\9509142\95091421.D31			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 31 Vial:B11			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	12.607	397554	1128279	1	2.74
2	1.15		0.000	146419	482683	1	
3	1.62	CHLORIDE	15.939	424780	1516363	1	0.00
4	2.00	NITRITE	123.750	3906332	17813455	1	-1.43
5	3.13	BROMIDE	2.448	22158	126569	1	3.23
6	3.37	NITRATE	4615.243	82827563	1017506874	1	0.00
7	5.83	PHOSPHATE	38.758	82318	987915	1	7.26
8	7.57	SULFATE	27.454	47156	973311	1	0.00
		Totals	4836.197	87854281	1040535449		



Data Reprocessed On 09/22/1995 02:54:48

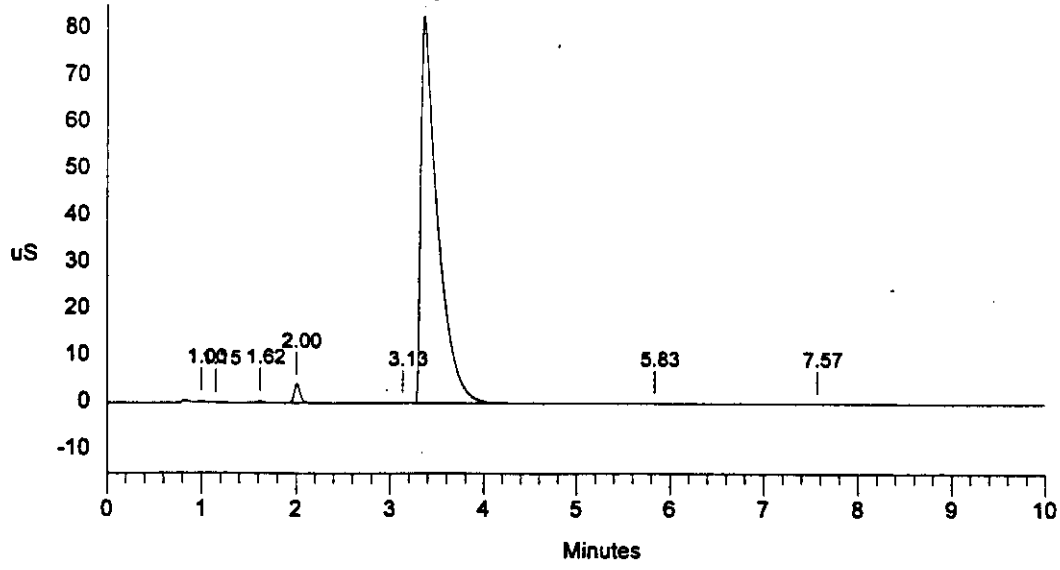
Sample Name: DUP95-7942-C2/QS2A - B11		Date: 09/14/1995 20:10:20	
Data File : C:\DX\DATA\9509142\95091421.d31			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 31 Vial:B11			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	12.607	397554	1128279	1	2.74
2	1.15		0.000	146419	482683	1	
3	1.62	CHLORIDE	15.939	424780	1516363	1	0.00
4	2.00	NITRITE	123.750	3906332	17813455	1	-1.43
5	3.13	BROMIDE	2.448	22158	126569	1	3.23
6	3.37	NITRATE	4615.243	82827563	1017506874	1	0.00
7	5.83	PHOSPHATE	38.758	82318	987915	1	7.26
8	7.57	SULFATE	27.454	47156	973311	1	0.00
		Totals	4836.197	87854281	1040535449		

File: 95091421.d31 Sample: DUP95-7942-C2/QS2A - B11



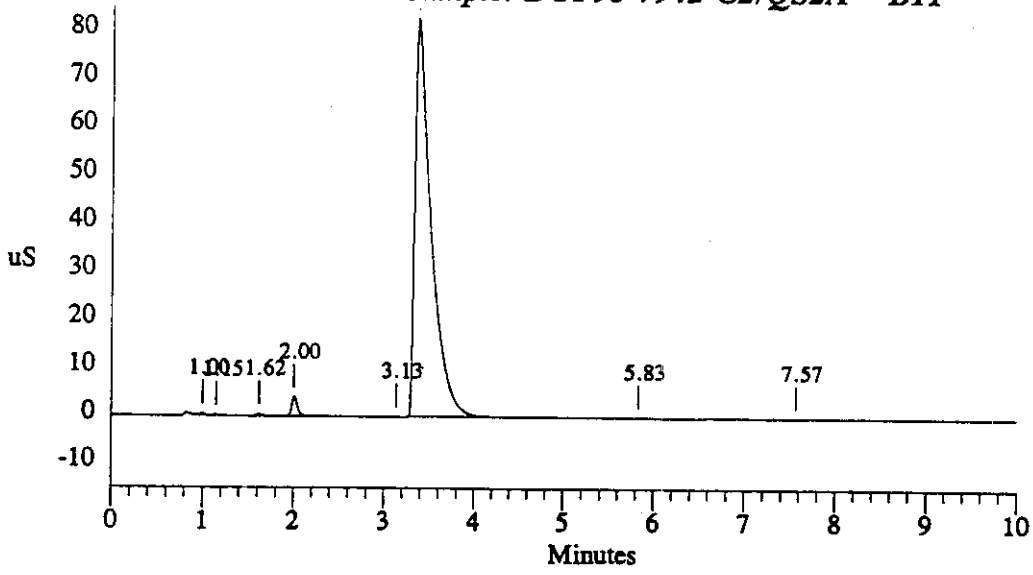
Sample Name: DUP95-7942-C2/QS2A - B11 Date: 09/14/1995 20:10:20
Data File : C:\DX\DATA\9509142\95091421.D31
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 31 Vial:B11 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	12.607	397554	1128279	1	2.74
2	1.15		0.000	176052	1191924	1	
3	1.62	CHLORIDE	20.760	472728	2790430	1	0.00
4	2.00	NITRITE	125.476	3911363	18117304	1	-1.43
5	3.13	BROMIDE	2.448	22158	126569	1	3.23
6	3.37	NITRATE	4614.115	82812611	1016871783	1	0.00
7	5.83	PHOSPHATE	46.205	92553	1491127	1	7.26
8	7.57	SULFATE	29.283	52897	1297152	1	0.00
		Totals	4850.893	87937917	1043014568		

File: 95091421.D31 Sample: DUP95-7942-C2/QS2A - B11



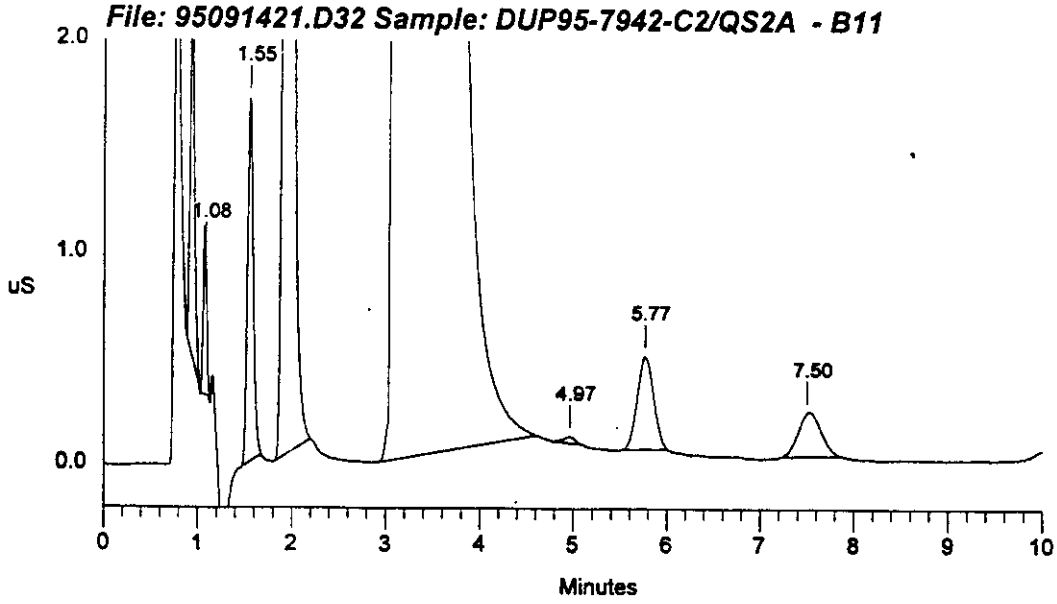
Data Reprocessed On 09/22/1995 03:16:18

Sample Name: DUP95-7942-C2/QS2A - B11		Date: 09/14/1995 20:22:56	
Data File : C:\DX\DATA\9509142\95091421.D32			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 32 Vial:B11			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.523	1324716	5482339	1	-1.77
2	1.08		0.000	662383	2014698	1	
3	1.55	CHLORIDE	7.606	1715589	7372876	1	0.00
4	1.93	NITRITE	110.298	18296906	93660274	1	-0.62
5	3.10	BROMIDE	-116690.482	606477492	5697844230	1	6.52
6	4.97		0.000	27388	267458	1	
7	5.77	PHOSPHATE	20.684	440464	5370926	1	2.9?
8	7.50	SULFATE	8.388	204343	3539348	1	0.0
		Totals	-116538.984	629149280	5815552149		



Data Reprocessed On 09/22/1995 02:54:49

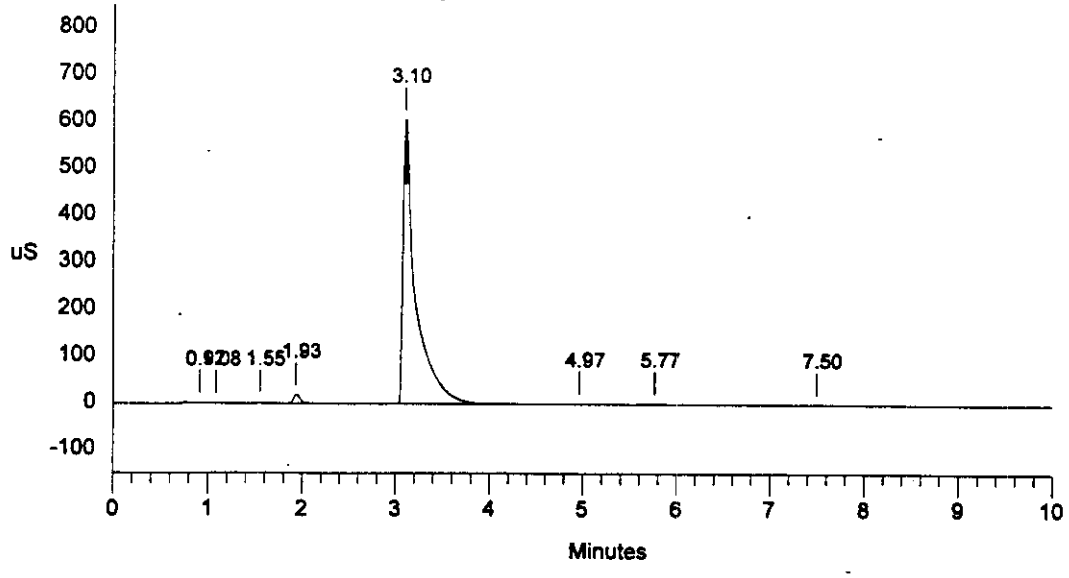
Sample Name:	DUP95-7942-C2/QS2A - B11	Date:	09/14/1995 20:22:56
Data File :	C:\DX\DATA\9509142\95091421.d32		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 32 Vial:B11	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.523	1324716	5482339	1	-1.77
2	1.08		0.000	662383	2014698	1	
3	1.55	CHLORIDE	7.606	1715589	7372876	1	0.00
4	1.93	NITRITE	110.298	18296906	93660274	1	-0.62
5	3.10	BROMIDE	-116690.482	606477492	5697844230	1	6.52
6	4.97		0.000	27388	267458	1	
7	5.77	PHOSPHATE	20.684	440464	5370926	1	2.98
8	7.50	SULFATE	8.388	204343	3539348	1	0.00
		Totals	-116538.984	629149280	5815552149		

File: 95091421.d32 Sample: DUP95-7942-C2/QS2A - B11



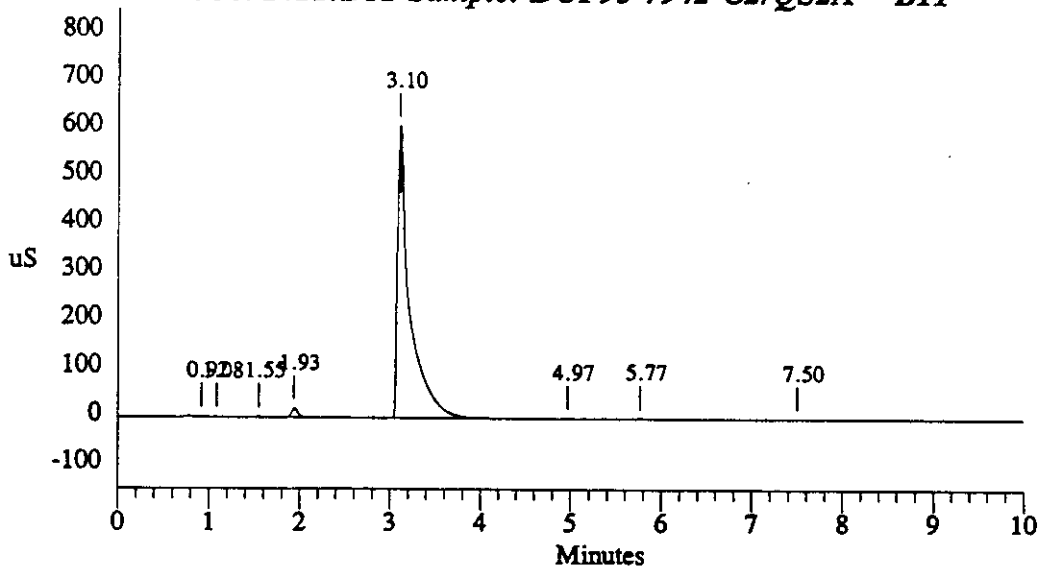
Sample Name: DUP95-7942-C2/QS2A - B11 Date: 09/14/1995 20:22:56
Data File : C:\DX\DATA\9509142\95091421.D32
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 32 Vial:B11 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.523	1324716	5482339	1	-1.77
2	1.08		0.000	662383	2014698	1	
3	1.55	CHLORIDE	11.788	1933603	12966076	1	0.00
4	1.93	NITRITE	112.644	18329817	95754889	1	-0.62
5	3.10	BROMIDE	-116771.497	606480907	5699724365	1	6.52
6	4.97		0.000	29254	227466	1	
7	5.77	PHOSPHATE	21.989	452514	5814753	1	2.98
8	7.50	SULFATE	9.050	215617	4126884	1	0.00
		Totals	-116611.503	629428810	5826111470		

File: 95091421.D32 Sample: DUP95-7942-C2/QS2A - B11



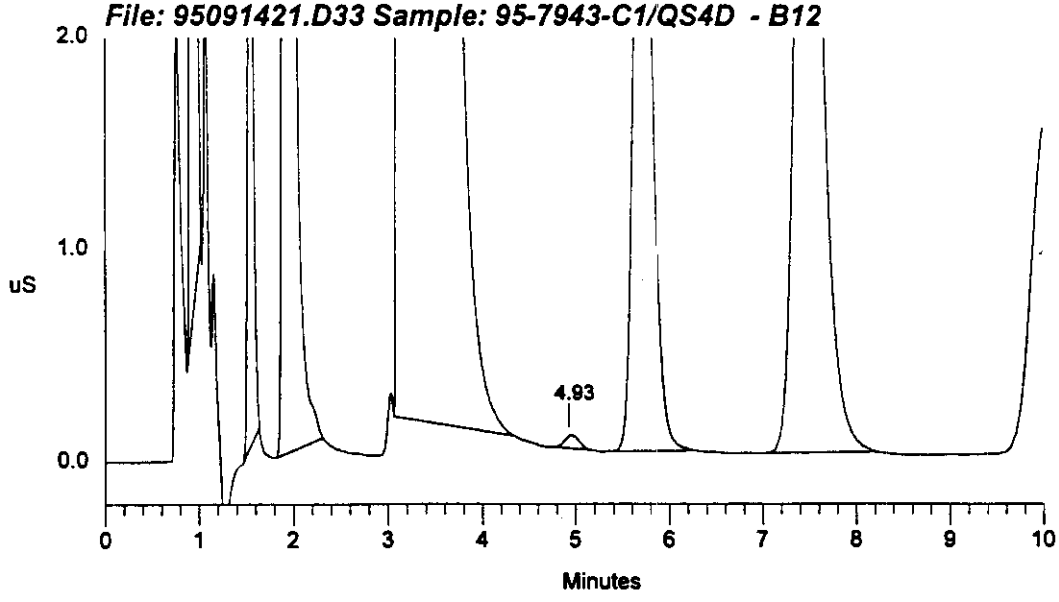
Data Reprocessed On 09/22/1995 03:16:39

Sample Name: 95-7943-C1/QS4D - B12		Date: 09/14/1995 20:35:33	
Data File : C:\DX\DATA\9509142\95091421.D33			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 33 Vial:B12			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	41.954	31967671	87775123	1	0.36
2	1.55	CHLORIDE	12.663	3787167	14141794	1	0.00
3	1.95	NITRITE	221.161	41868474	193558333	1	0.24
4	3.13	BROMIDE	-23272.549	180628250	2704452151	1	7.67
5	4.93		0.000	57109	647473	1	
6	5.70	PHOSPHATE	150.398	4058626	51171972	1	6.89
7	7.47	SULFATE	104.409	5063306	90909211	1	0.00
		Totals	-22741.963	267430602	3142656057		



Data Reprocessed On 09/22/1995 02:54:50

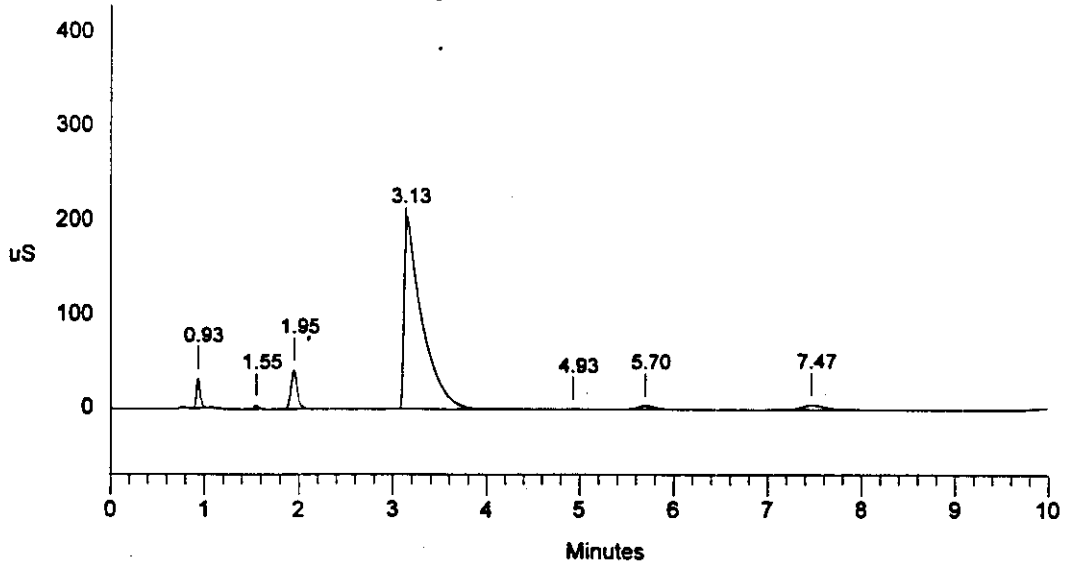
Sample Name: 95-7943-C1/QS4D - B12		Date: 09/14/1995 20:35:33	
Data File : C:\DX\DATA\9509142\95091421.d33			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 33 Vial:B12			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	41.954	31967671	87775123	1	0.36
2	1.55	CHLORIDE	12.663	3787167	14141794	1	0.00
3	1.95	NITRITE	221.161	41868474	193558333	1	0.24
4	3.13	BROMIDE	-23272.549	180628250	2704452151	1	7.67
5	4.93		0.000	57109	647473	1	
6	5.70	PHOSPHATE	150.398	4058626	51171972	1	6.89
7	7.47	SULFATE	104.409	5063306	90909211	1	0.00
		Totals	-22741.963	267430602	3142656057		

File: 95091421.d33 Sample: 95-7943-C1/QS4D - B12



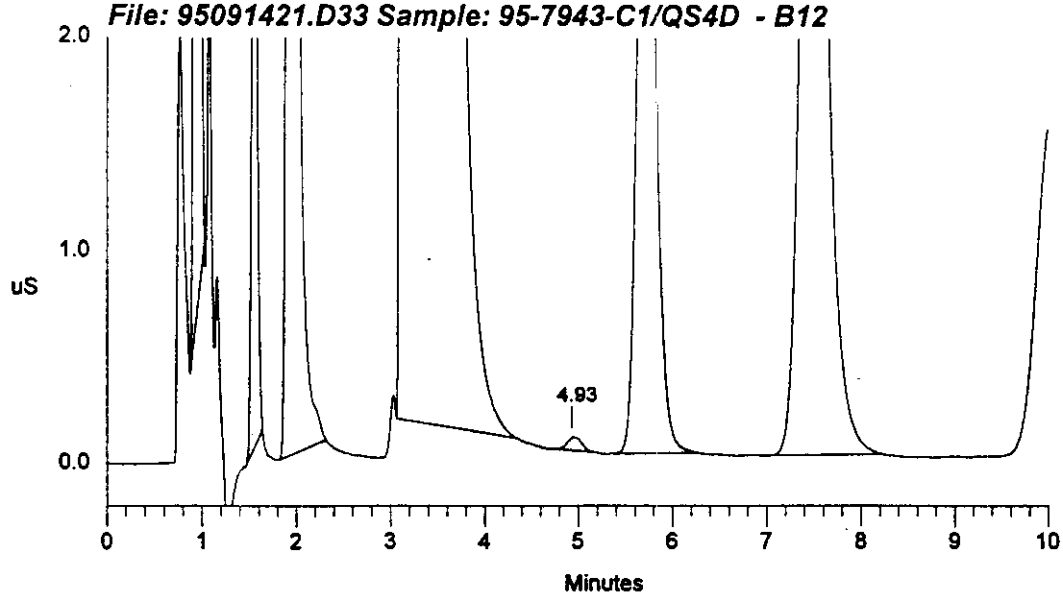
Data Reprocessed On 09/22/1995 00:25:47

Sample Name: 95-7943-C1/QS4D - B12		Date: 09/14/1995 20:35:33	
Data File : C:\DX\DATA\9509142\95091421.D33			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 33 Vial:B12			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	41.954	31967671	87775123	1	0.36
2	1.55	CHLORIDE	12.663	3787167	14141794	1	0.00
3	1.95	NITRITE	221.161	41868474	193558333	1	0.24
4	3.13	BROMIDE	-23272.549	180628250	2704452151	1	7.67
5	4.93		0.000	57109	647473	1	
6	5.70	PHOSPHATE	150.398	4058626	51171972	1	6.89
7	7.47	SULFATE	104.409	5063306	90909211	1	0.00
		Totals	-22741.963	267430602	3142656057		



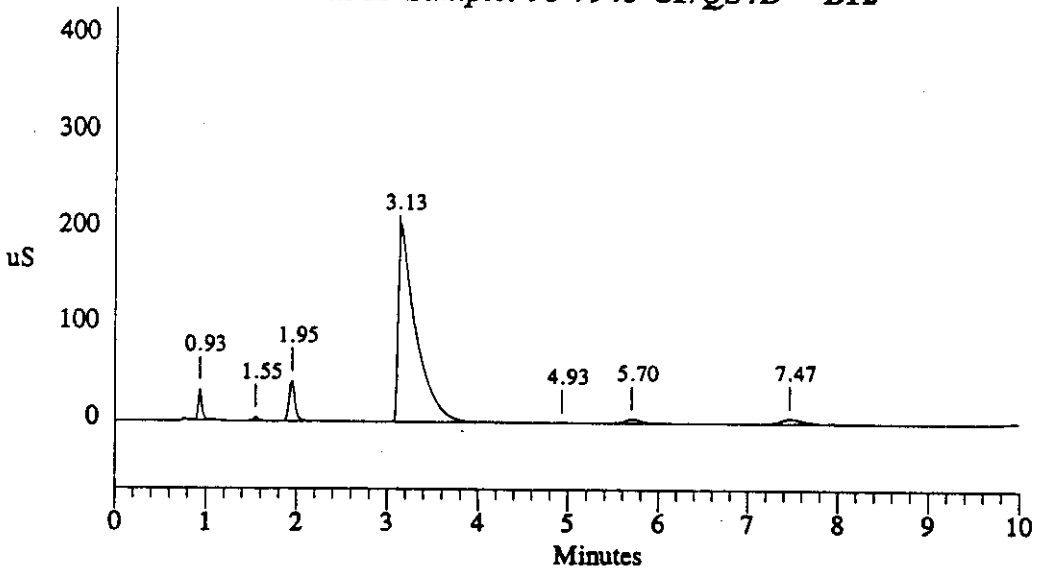
Sample Name: 95-7943-C1/QS4D - B12 Date: 09/14/1995 20:35:33
Data File : C:\DX\DATA\9509142\95091421.D33
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 33 Vial:B12 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	46.208	32198990	97234755	1	0.02
2	1.55	CHLORIDE	16.510	4019117	19337908	1	0.00
3	1.95	NITRITE	223.639	41892783	195812535	1	0.24
4	3.13	BROMIDE	-23488.954	180805754	2715619787	1	7.67
5	4.93	PHOSPHATE	6.606	56741	601297	1	-2.53
6	5.70		0.000	4062870	51639592	1	
7	7.47	SULFATE	105.173	5070324	91623069	1	0.00
		Totals	-23090.818	268106580	3171868945		

File: 95091421.D33 Sample: 95-7943-C1/QS4D - B12



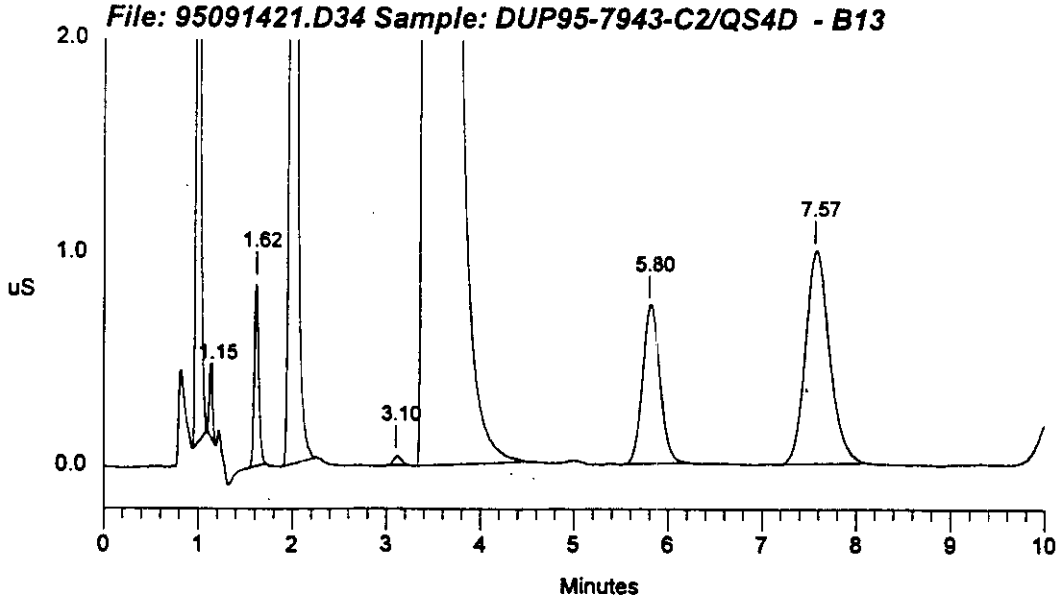
Data Reprocessed On 09/22/1995 03:17:16

Sample Name: DUP95-7943-C2/QS4D - B13		Date: 09/14/1995 20:47:59	
Data File : C:\DX\DATA\9509142\95091421.D34			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 34 Vial:B13			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	48.528	6158984	16776604	1	1.03
2	1.15		0.000	207487	813636	1	
3	1.62	CHLORIDE	21.064	853737	2870671	1	0.00
4	2.00	NITRITE	221.492	8169808	35052471	1	-1.43
5	3.10	BROMIDE	3.729	36909	247326	1	2.13
6	3.43	NITRATE	2969.412	44070986	498533155	1	0.00
7	5.80	PHOSPHATE	165.752	733333	9625275	1	4.58
8	7.57	SULFATE	122.634	991206	17907232	1	0.00
		Totals	3552.610	61222451	581826370		



Data Reprocessed On 09/22/1995 02:54:50

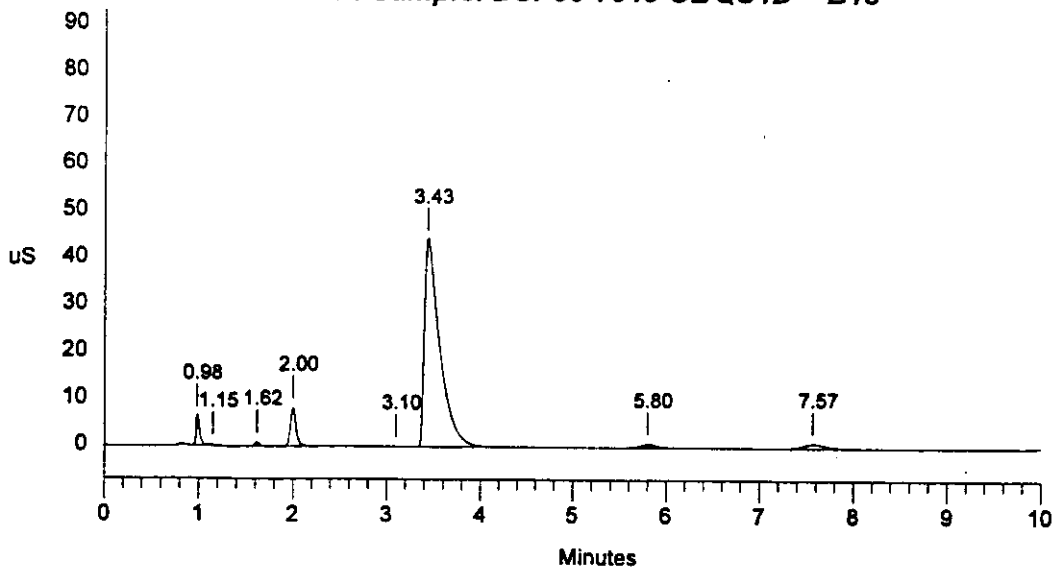
Sample Name:	DUP95-7943-C2/QS4D - B13	Date: 09/14/1995 20:47:59	
Data File :	C:\DX\DATA\9509142\95091421.d34		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 34 Vial:B13	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	48.528	6158984	16776604	1	1.03
2	1.15		0.000	207487	813636	1	
3	1.62	CHLORIDE	21.064	853737	2870671	1	0.00
4	2.00	NITRITE	221.492	8169808	35052471	1	-1.43
5	3.10	BROMIDE	3.729	36909	247326	1	2.13
6	3.43	NITRATE	2969.412	44070986	498533155	1	0.00
7	5.80	PHOSPHATE	165.752	733333	9625275	1	4.58
8	7.57	SULFATE	122.634	991206	17907232	1	0.0
		Totals	3552.610	61222451	581826370		

File: 95091421.d34 Sample: DUP95-7943-C2/QS4D - B13



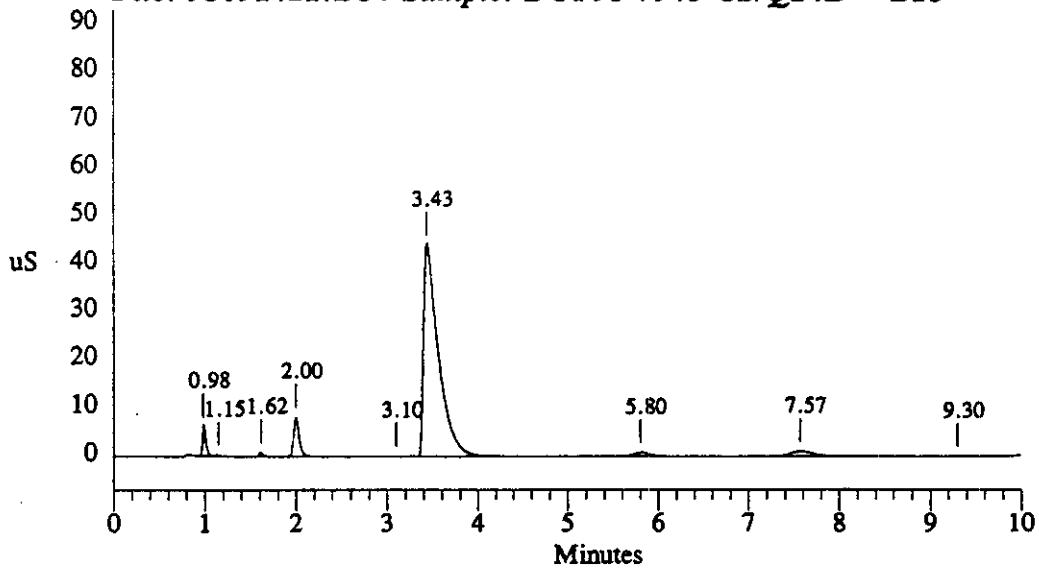
Sample Name: DUP95-7943-C2/QS4D - B13 Date: 09/14/1995 20:47:59
Data File : C:\DX\DATA\9509142\95091421.D34
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 34 Vial:B13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	48.272	6100385	16665049	2	1.03
2	1.15		0.000	294310	2017137	2	
3	1.62	CHLORIDE	25.238	897283	3975696	1	0.00
4	2.00	NITRITE	225.773	8183214	35808877	1	-1.43
5	3.10	BROMIDE	4.404	41117	310979	1	2.13
6	3.43	NITRATE	2971.500	44072023	498990271	1	0.00
7	5.80	PHOSPHATE	167.542	735935	9747837	1	4.58
8	7.57	SULFATE	125.011	997382	18332348	1	0.00
9	9.30		0.000	7128	216227	1	
		Totals	3567.740	61328779	586064421		

File: 95091421.D34 Sample: DUP95-7943-C2/QS4D - B13



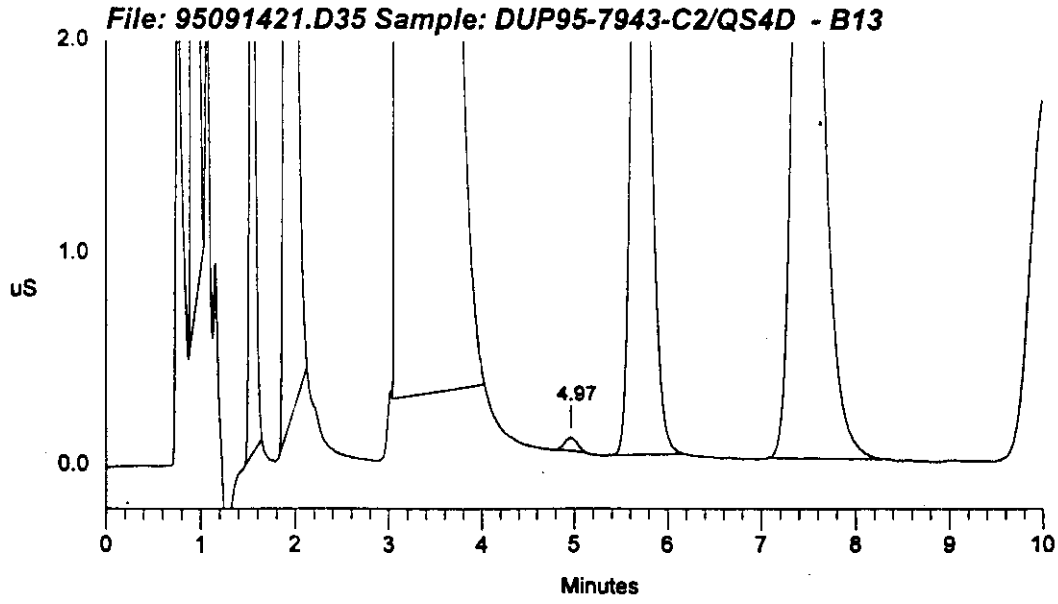
Data Reprocessed On 09/22/1995 03:17:36

Sample Name: DUP95-7943-C2/QS4D - B13		Date: 09/14/1995 21:00:36	
Data File : C:\DX\DATA\9509142\95091421.D35			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 35 Vial:B13			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	45.366	34348290	95359464	1	1.11
2	1.53	CHLORIDE	13.652	3477481	15473483	1	0.00
3	1.93	NITRITE	231.607	41340874	203067334	1	0.46
4	3.10	BROMIDE	-32953.358	197705287	3162186867	1	7.68
5	4.97		0.000	63610	585012	1	
6	5.70	PHOSPHATE	161.498	4437853	55261252	1	1.79
7	7.47	SULFATE	114.082	5577305	99975022	1	0.00
		Totals	-32387.154	286950700	3631908433		



Data Reprocessed On 09/22/1995 02:54:51

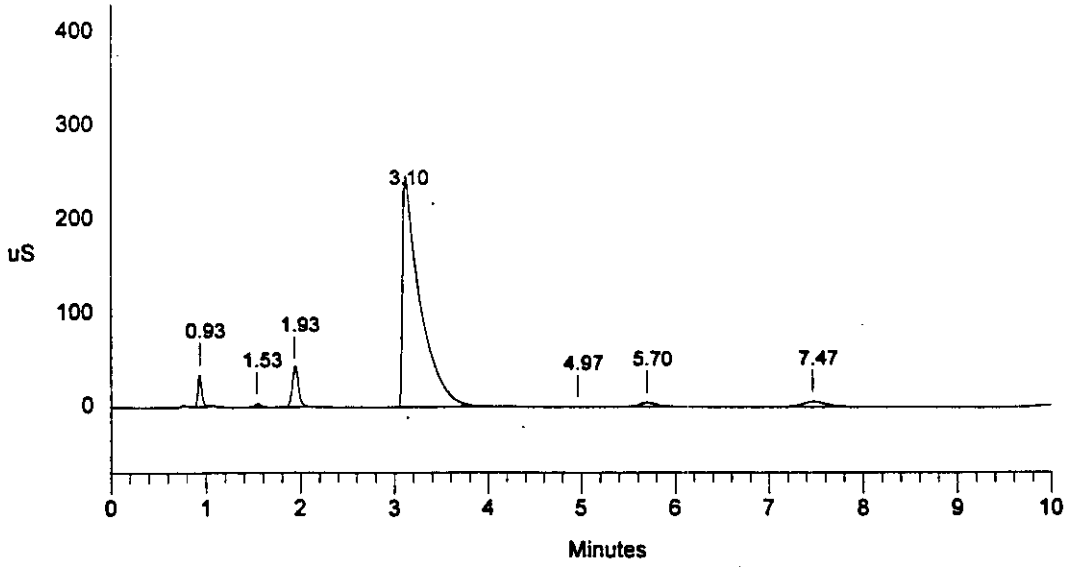
Sample Name: DUP95-7943-C2/QS4D - B13		Date: 09/14/1995 21:00:36	
Data File : C:\DX\DATA\9509142\95091421.d35			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 35 Vial:B13			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	45.366	34348290	95359464	1	1.11
2	1.53	CHLORIDE	13.652	3477481	15473483	1	0.00
3	1.93	NITRITE	231.607	41340874	203067334	1	0.46
4	3.10	BROMIDE	-32953.358	197705287	3162186867	1	7.68
5	4.97		0.000	63610	585012	1	
6	5.70	PHOSPHATE	161.498	4437853	55261252	1	1.79
7	7.47	SULFATE	114.082	5577305	99975022	1	0.00
		Totals	-32387.154	286950700	3631908433		

File: 95091421.d35 Sample: DUP95-7943-C2/QS4D - B13



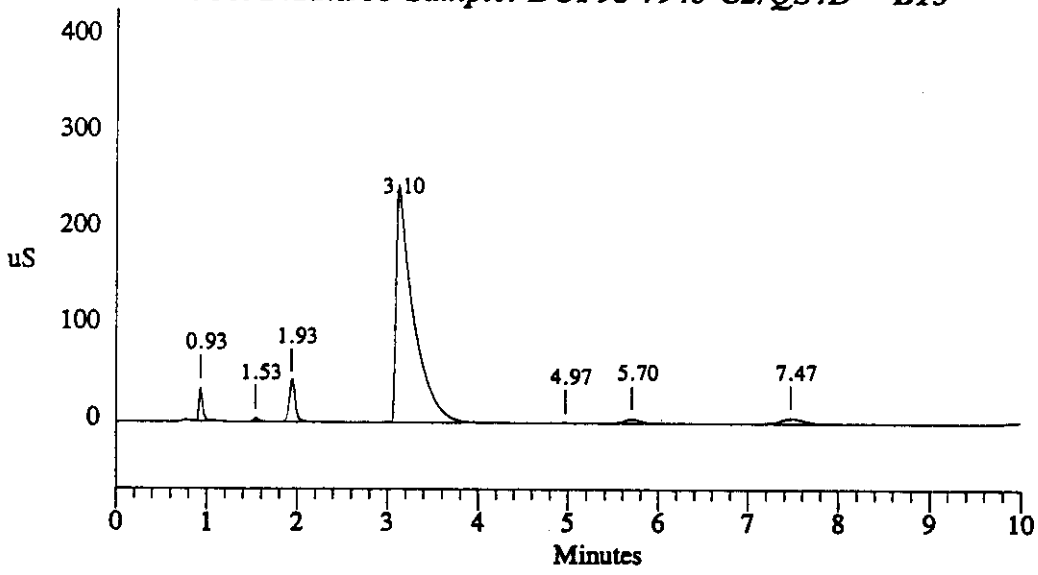
Sample Name: DUP95-7943-C2/QS4D - B13 Date: 09/14/1995 21:00:36
Data File : C:\DX\DATA\9509142\95091421.D35
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 35 Vial:B13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	49.604	34549878	104802518	1	1.11
2	1.53	CHLORIDE	17.334	3694887	20455772	1	0.00
3	1.93	NITRITE	239.974	41510250	210696726	1	0.46
4	3.10	BROMIDE	-33484.839	197996079	3185238002	1	7.68
5	4.97		0.000	67507	653242	1	
6	5.70	PHOSPHATE	162.931	4443820	55791491	1	1.79
7	7.47	SULFATE	114.799	5584950	100649100	1	0.00
		Totals	-32900.198	287847372	3678286852		

File: 95091421.D35 Sample: DUP95-7943-C2/QS4D - B13



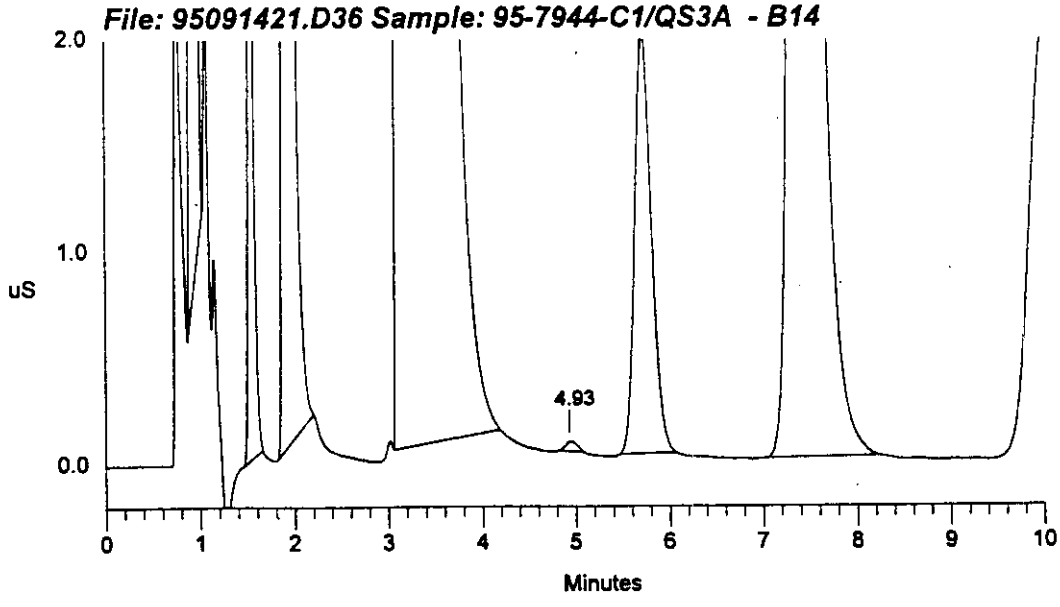
Data Reprocessed On 09/22/1995 03:17:55

Sample Name: 95-7944-C1/QS3A - B14		Date: 09/14/1995 21:13:12	
Data File : C:\DX\DATA\9509142\95091421.D36			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 36 Vial:B14			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	56.808	42236246	120905632	1	1.45
2	1.53	CHLORIDE	12.318	3172850	13677623	1	0.00
3	1.93	NITRITE	205.708	38450616	179521810	1	0.46
4	3.13	NITRATE	196.274	179469277	2554399853	1	0.00
5	4.93		0.000	43527	392314	1	
6	5.70	PHOSPHATE	76.520	1863614	24659529	1	6.89
7	7.43	SULFATE	198.192	10166841	181085532	1	0.00
		Totals	745.820	275402970	3074642293		



Data Reprocessed On 09/22/1995 02:54:52

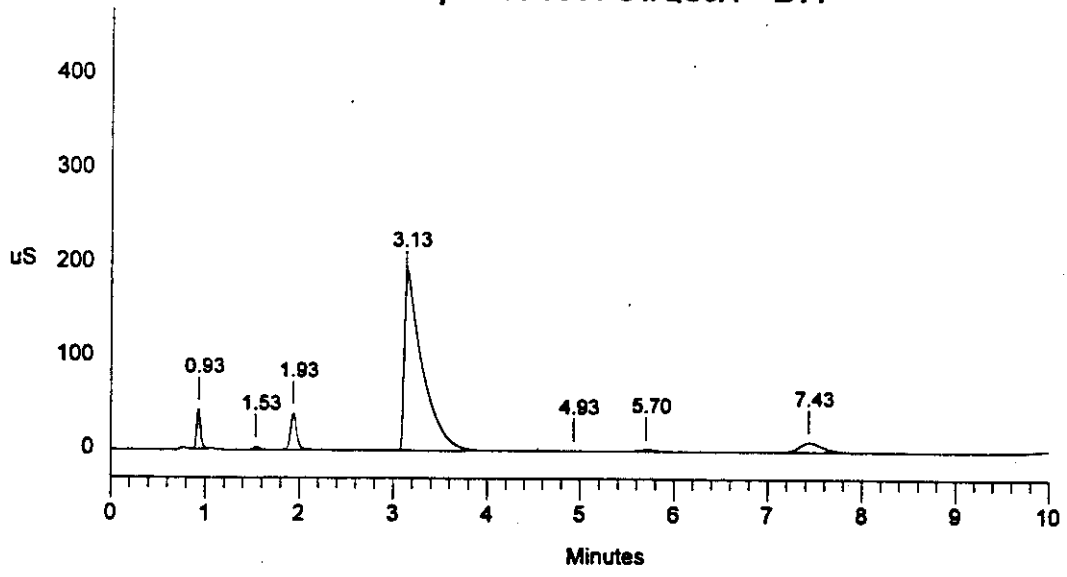
Sample Name:	95-7944-C1/QS3A - B14	Date:	09/14/1995 21:13:12
Data File :	C:\DX\DATA\9509142\95091421.d36		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 36 Vial:B14	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	56.808	42236246	120905632	1	1.45
2	1.53	CHLORIDE	12.318	3172850	13677623	1	0.00
3	1.93	NITRITE	205.708	38450616	179521810	1	0.46
4	3.13	NITRATE	196.274	179469277	2554399853	1	0.00
5	4.93		0.000	43527	392314	1	
6	5.70	PHOSPHATE	76.520	1863614	24659529	1	6.89
7	7.43	SULFATE	198.192	10166841	181085532	1	0.00
		Totals	745.820	275402970	3074642293		

File: 95091421.d36 Sample: 95-7944-C1/QS3A - B14



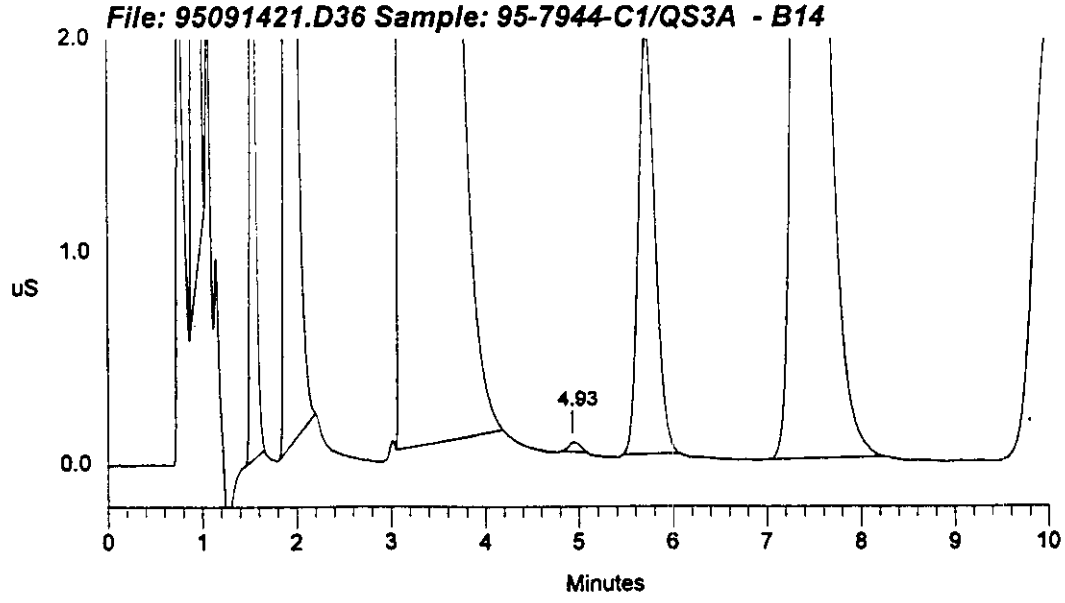
Data Reprocessed On 09/22/1995 00:27:03

Sample Name: 95-7944-C1/QS3A - B14		Date: 09/14/1995 21:13:12	
Data File : C:\DX\DATA\9509142\95091421.D36			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 36 Vial:B14			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	56.808	42236246	120905632	1	1.45
2	1.53	CHLORIDE	12.318	3172850	13677623	1	0.00
3	1.93	NITRITE	205.708	38450616	179521810	1	0.46
4	3.13	NITRATE	196.274	179469277	2554399853	1	0.00
5	4.93		0.000	43527	392314	1	
6	5.70	PHOSPHATE	76.520	1863614	24659529	1	6.89
7	7.43	SULFATE	198.192	10166841	181085532	1	0.00
		Totals	745.820	275402970	3074642293		



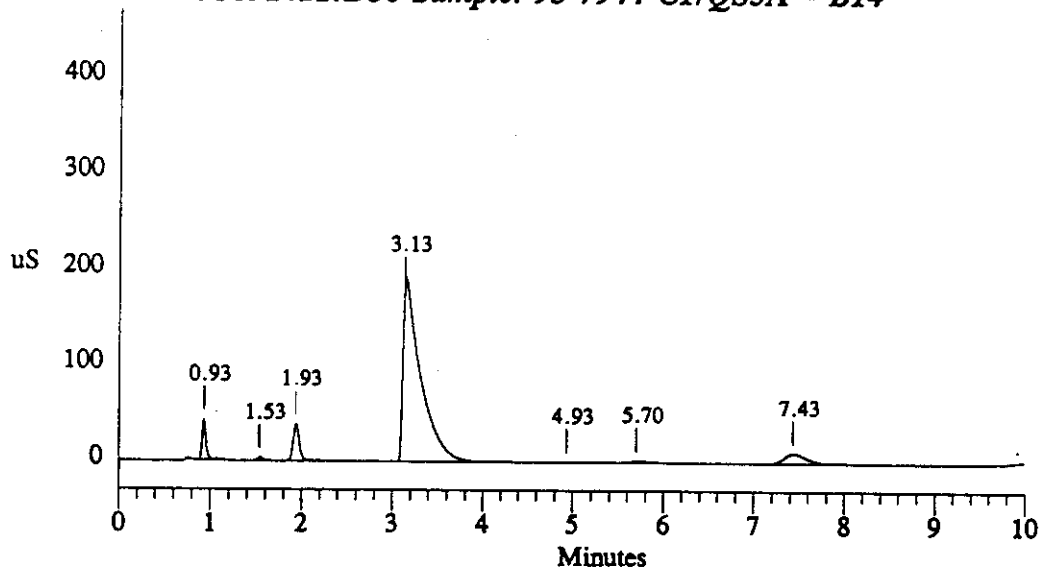
Sample Name: 95-7944-C1/QS3A - B14 Date: 09/14/1995 21:13:12
Data File : C:\DX\DATA\9509142\95091421.D36
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 36 Vial:B14 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	60.772	42476175	129794150	1	1.11
2	1.53	CHLORIDE	15.171	3332724	17524742	1	0.00
3	1.93	NITRITE	210.719	38523289	184069509	1	0.46
4	3.13	NITRATE	186.536	179522804	2561864335	1	0.00
5	4.93	PHOSPHATE	6.226	48693	472857	1	-2.53
6	5.70		0.000	1878019	25412773	1	
7	7.43	SULFATE	199.310	10178225	182192679	1	0.00
		Totals	678.735	275959930	3101331045		

File: 95091421.D36 Sample: 95-7944-C1/QS3A - B14



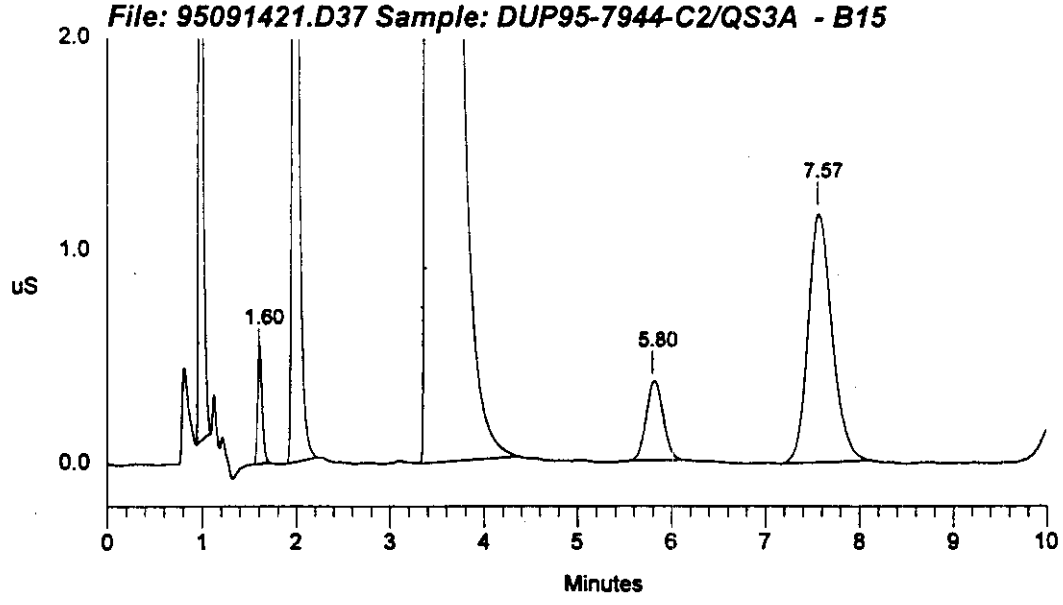
Data Reprocessed On 09/22/1995 03:18:17

Sample Name: DUP95-7944-C2/QS3A - B15		Date: 09/14/1995 21:25:39	
Data File : C:\DX\DATA\9509142\95091421.D37			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 37 Vial:B15			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	44.322	5906387	14941628	1	2.08
2	1.60	CHLORIDE	17.410	486822	1905019	1	0.00
3	1.98	NITRITE	149.215	4669137	22299581	1	-1.24
4	3.43	NITRATE	2777.270	40655937	457471103	1	0.00
5	5.80	PHOSPHATE	94.307	364535	4751299	1	4.58
6	7.57	SULFATE	139.123	1168173	20858196	1	0.00
		Totals	3221.649	53250991	522226825		



Data Reprocessed On 09/22/1995 02:54:53

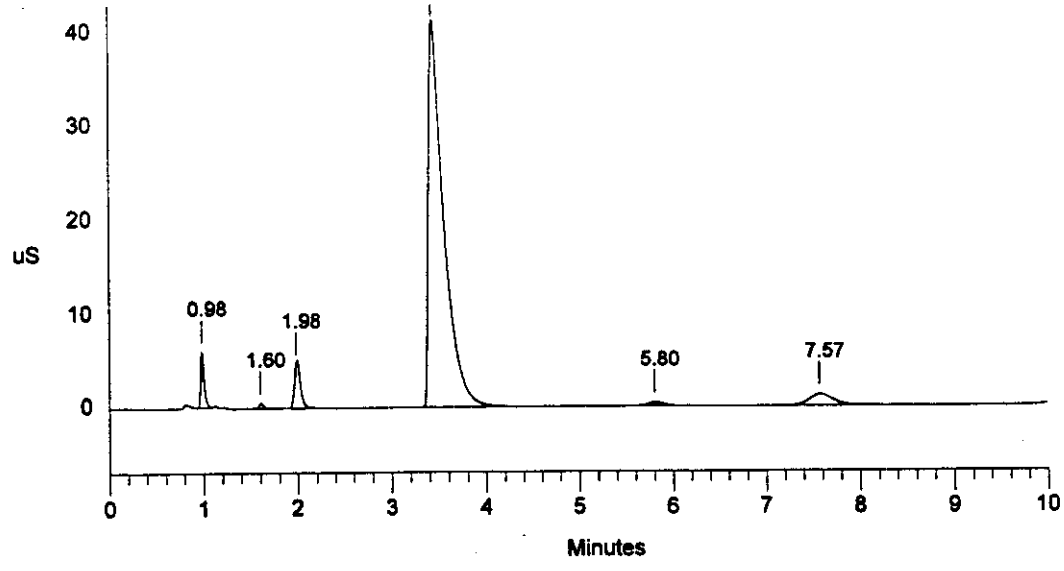
Sample Name: DUP95-7944-C2/QS3A - B15		Date: 09/14/1995 21:25:39	
Data File : C:\DX\DATA\9509142\95091421.d37			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 37 Vial:B15			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	44.322	5906387	14941628	1	2.08
2	1.60	CHLORIDE	17.410	486822	1905019	1	0.00
3	1.98	NITRITE	149.215	4669137	22299581	1	-1.24
4	3.43	NITRATE	2777.270	40655937	457471103	1	0.00
5	5.80	PHOSPHATE	94.307	364535	4751299	1	4.58
6	7.57	SULFATE	139.123	1168173	20858196	1	0.00
		Totals	3221.649	53250991	522226825		

File: 95091421.d37 Sample: DUP95-7944-C2/QS3A - B15



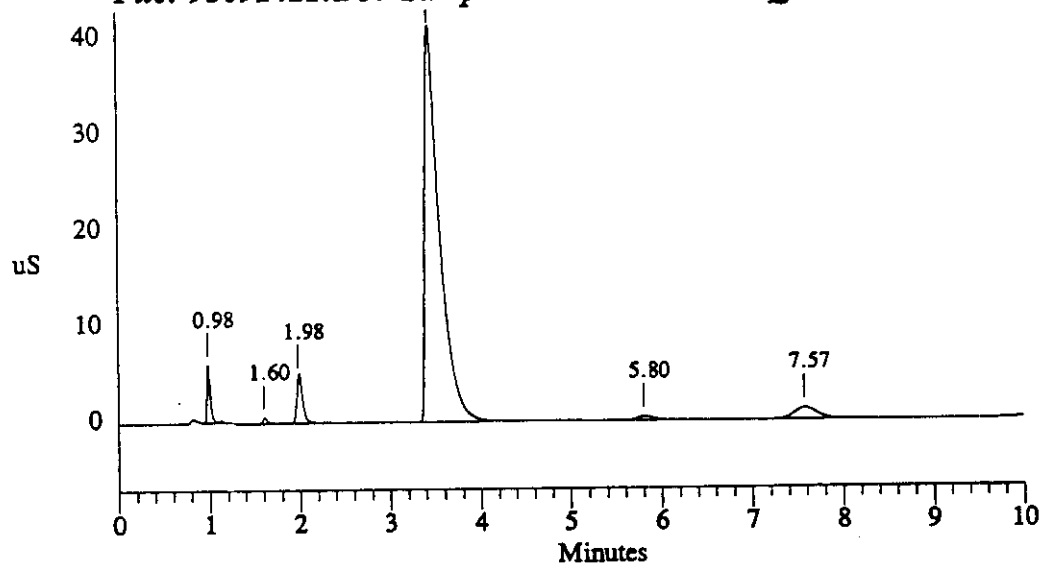
Sample Name: DUP95-7944-C2/QS3A - B15 Date: 09/14/1995 21:25:39
Data File : C:\DX\DATA\9509142\95091421.D37
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 37 Vial:B15 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	46.418	5924468	15855903	1	2.08
2	1.60	CHLORIDE	20.764	521314	2791351	1	0.00
3	1.98	NITRITE	152.511	4676409	22880525	1	-1.24
4	3.43	NITRATE	2781.725	40658463	458401614	1	0.00
5	5.80	PHOSPHATE	105.143	375841	5488030	1	4.58
6	7.57	SULFATE	143.774	1177983	21691386	1	0.00
		Totals	3250.334	53334477	527108809		

File: 95091421.D37 Sample: DUP95-7944-C2/QS3A - B15



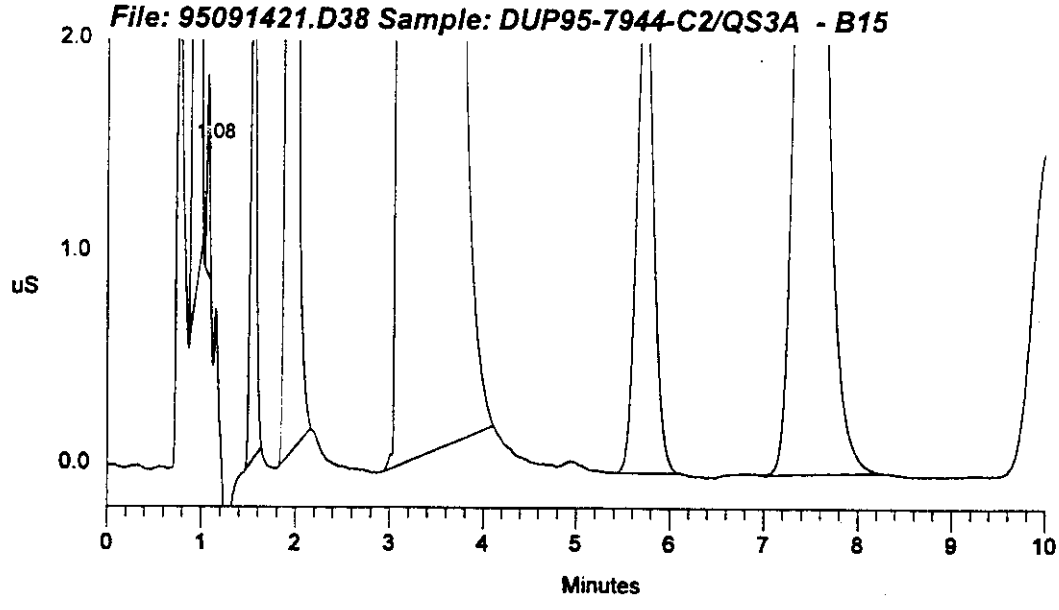
Data Reprocessed On 09/22/1995 03:18:34

Sample Name: DUP95-7944-C2/QS3A - B15		Date: 09/14/1995 21:38:15	
Data File : C:\DX\DATA\9509142\95091421.D38			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 38 Vial:B15			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	44.576	26333865	93603306	1	-0.70
2	1.08		0.000	479366	1941158	1	
3	1.53	CHLORIDE	10.161	2610142	10784832	1	0.00
4	1.93	NITRITE	164.505	31216996	142274189	1	0.46
5	3.10	BROMIDE	-33416.208	218114772	3182271588	1	7.68
6	5.70	PHOSPHATE	90.363	2266483	29537837	1	1.79
7	7.43	SULFATE	142.955	6963835	127346789	1	0.00
		Totals	-32963.647	287985460	3587759699		



Data Reprocessed On 09/22/1995 02:54:54

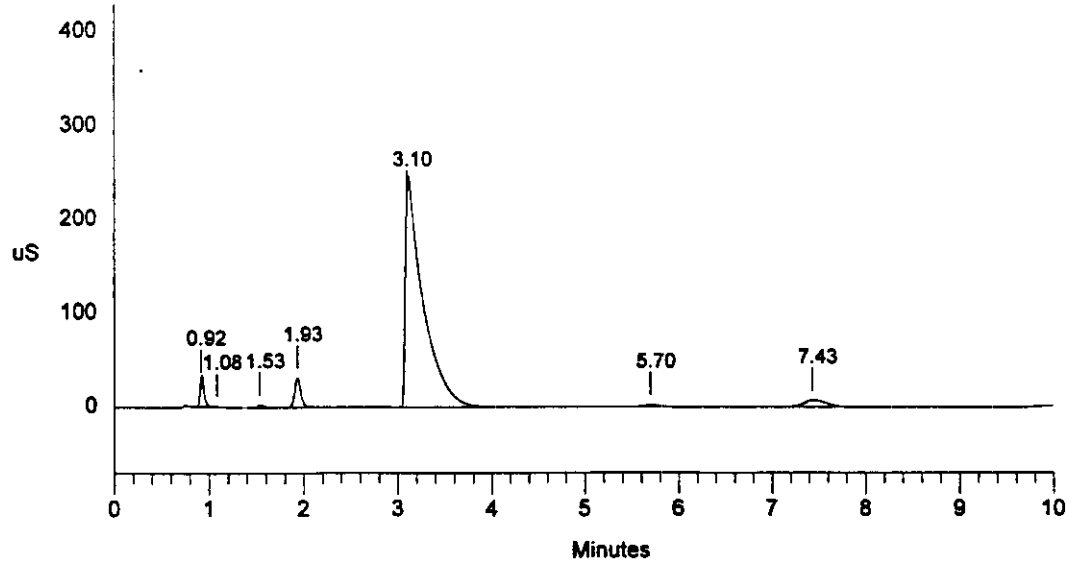
Sample Name: DUP95-7944-C2/QS3A - B15		Date: 09/14/1995 21:38:15	
Data File : C:\DX\DATA\9509142\95091421.d38			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 38 Vial:B15			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	44.576	26333865	93603306	1	-0.70
2	1.08		0.000	479366	1941158	1	
3	1.53	CHLORIDE	10.161	2610142	10784832	1	0.00
4	1.93	NITRITE	164.505	31216996	142274189	1	0.46
5	3.10	BROMIDE	-33416.208	218114772	3182271588	1	7.68
6	5.70	PHOSPHATE	90.363	2266483	29537837	1	1.79
7	7.43	SULFATE	142.955	6963835	127346789	1	0.00
		Totals	-32963.647	287985460	3587759699		

File: 95091421.d38 Sample: DUP95-7944-C2/QS3A - B15



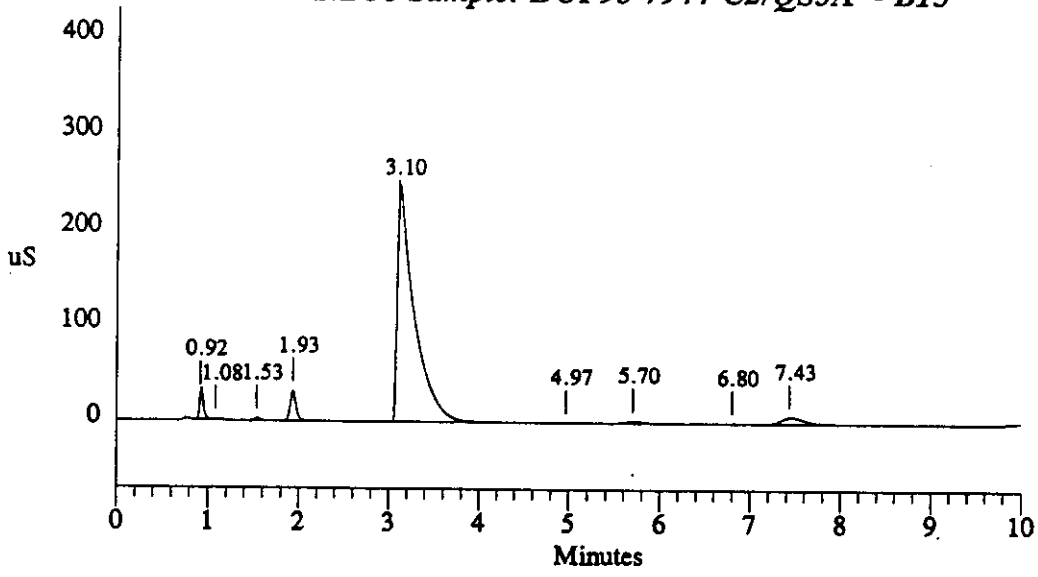
Sample Name: DUP95-7944-C2/QS3A - B15 Date: 09/14/1995 21:38:15
Data File : C:\DX\DATA\9509142\95091421.D38
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 38 Vial:B15 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	45.235	26447590	95069438	2	-0.70
2	1.08		0.000	510568	2237569	2	
3	1.53	CHLORIDE	13.941	2826653	15863044	1	0.00
4	1.93	NITRITE	168.780	31282862	146126682	1	0.46
5	3.10	BROMIDE	-33644.995	218144716	3192148571	1	7.68
6	4.97		0.000	27117	294373	1	
7	5.70	PHOSPHATE	91.079	2270215	29791307	1	1.79
8	6.80		0.000	12186	253519	1	
9	7.43	SULFATE	143.682	6968526	128042069	1	0.00
		Totals	-33182.278	288490432	3609826572		

File: 95091421.D38 Sample: DUP95-7944-C2/QS3A - B15



Data Reprocessed On 09/22/1995 02:54:54

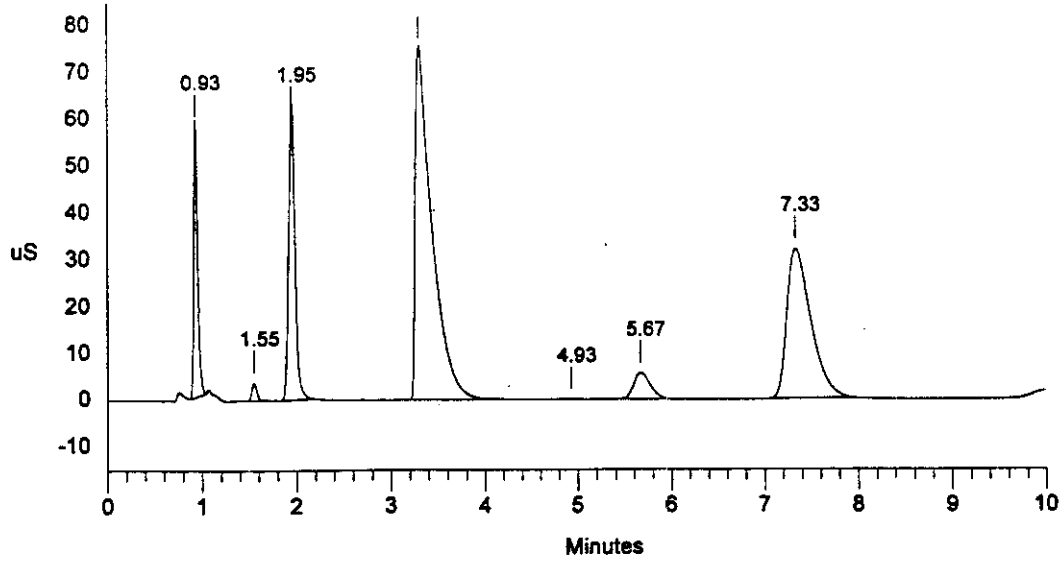
Sample Name: 95-7945-C1/QS4A - B16		Date: 09/14/1995 21:50:52	
Data File : C:\DX\DATA\9509142\95091421.d39			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 39 Vial:B16			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	77.627	57705787	167814120	1	0.02
2	1.55	CHLORIDE	12.759	3848275	14270285	1	0.00
3	1.95	NITRITE	330.454	60037895	293911383	1	0.24
4	3.30	NITRATE	884.194	75090225	921872029	1	0.00
5	4.93		0.000	65151	639549	1	
6	5.67	PHOSPHATE	203.083	5672064	70848942	1	6.30
7	7.33	SULFATE	542.667	32080875	572587082	1	0.00
		Totals	2050.784	234500271	2041943389		

File: 95091421.d39 Sample: 95-7945-C1/QS4A - B16



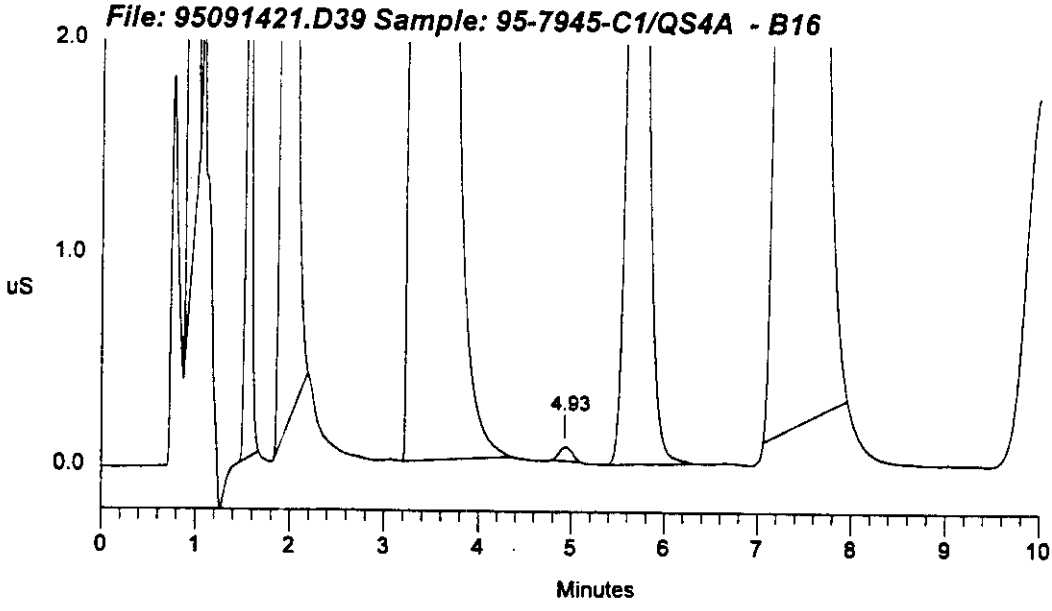
Data Reprocessed On 09/22/1995 03:18:58

Sample Name: 95-7945-C1/QS4A - B16		Date: 09/14/1995 21:50:52	
Data File : C:\DX\DATA\9509142\95091421.D39			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 39 Vial:B16			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	77.627	57705787	167814120	1	0.02
2	1.55	CHLORIDE	12.759	3848275	14270285	1	0.00
3	1.95	NITRITE	330.454	60037895	293911383	1	0.24
4	3.30	NITRATE	884.194	75090225	921872029	1	0.00
5	4.93		0.000	65151	639549	1	
6	5.67	PHOSPHATE	203.083	5672064	70848942	1	6.30
7	7.33	SULFATE	542.667	32080875	572587082	1	0.00
		Totals	2050.784	234500271	2041943389		



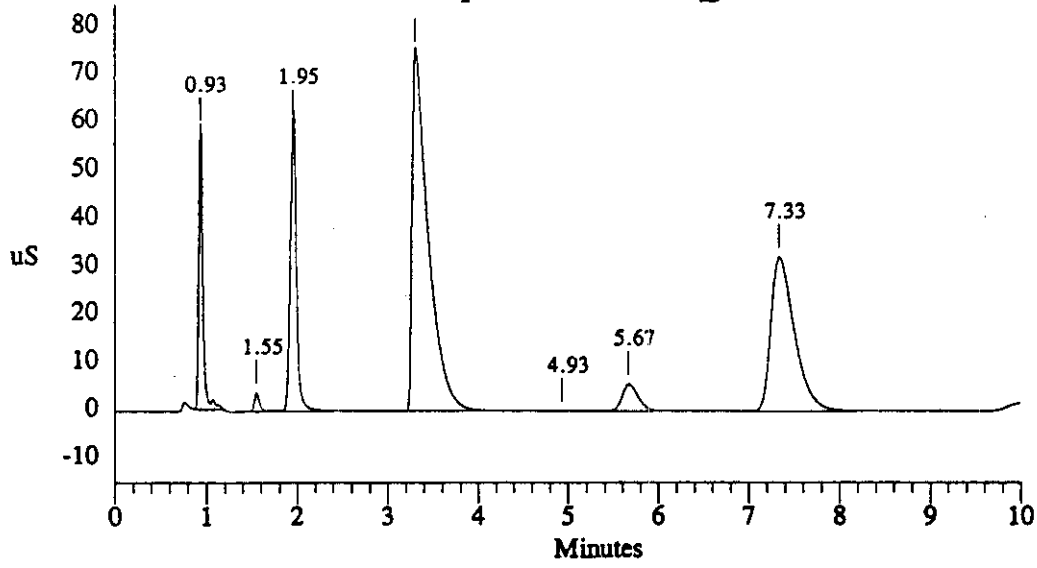
Sample Name: 95-7945-C1/QS4A - B16 Date: 09/14/1995 21:50:52
Data File : C:\DX\DATA\9509142\95091421.D39
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 39 Vial:B16 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	84.208	58103531	182758109	1	0.02
2	1.55	CHLORIDE	14.765	3957458	16975004	1	0.00
3	1.95	NITRITE	339.568	60184214	302366836	1	0.24
4	3.30	NITRATE	884.589	75092351	922735138	1	0.00
5	4.93		0.000	69535	739954	1	
6	5.67	PHOSPHATE	203.264	5672590	70917755	1	6.30
7	7.33	SULFATE	553.400	32250587	586995289	1	0.00
		Totals	2079.794	235330266	2083488085		

File: 95091421.D39 Sample: 95-7945-C1/QS4A - B16



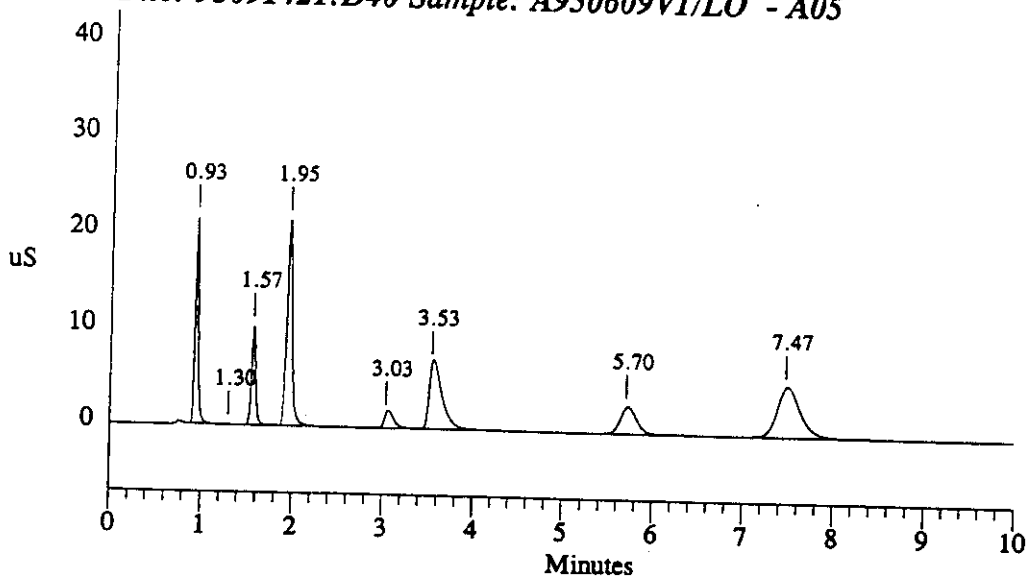
Sample Name: A950609V1/LO - A05
Data File : C:\DX\DATA\9509142\95091421.D40
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 40 Vial:A05
Analyst : MMO Column: AG4A/AS4A
Date: 09/14/1995 22:03:28
Detector:PED-Cond.

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.958	21373384	54603868	1	-1.05
2	1.30		0.000	33048	169703	1	
3	1.57	CHLORIDE	26.611	10259013	33182466	1	0.00
4	1.95	NITRITE	107.560	21397533	91216135	1	-0.83
5	3.03	BROMIDE	28.317	1443565	13579555	1	3.12
6	3.53	NITRATE	104.176	6771248	70553125	1	0.00
7	5.70	PHOSPHATE	110.817	2767933	36819774	1	-0.13
8	7.47	SULFATE	108.019	5188310	94286617	1	0.00
		Totals	512.458	69234034	394411242		

File: 95091421.D40 Sample: A950609V1/LO - A05



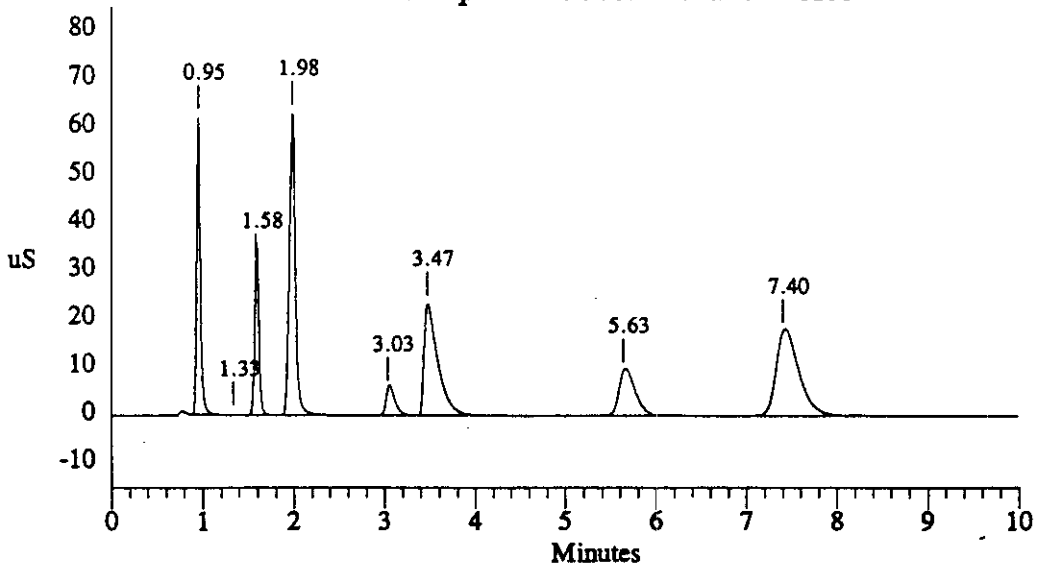
Sample Name: A950609V2/MID - A05 Date: 09/14/1995 22:16:29
Data File : C:\DX\DATA\9509142\95091421.D41
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 41 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	27.077	61805755	175987366	1	-0.34
2	1.33		0.000	111721	574406	1	
3	1.58	CHLORIDE	27.436	30955474	115706176	1	0.00
4	1.98	NITRITE	110.288	62830601	294290268	1	-0.20
5	3.03	BROMIDE	28.197	5278601	43235689	1	2.04
6	3.47	NITRATE	108.346	23059047	242842087	1	0.00
7	5.63	PHOSPHATE	112.298	9251871	124268726	1	0.60
8	7.40	SULFATE	110.449	17505396	319196557	1	0.00
		Totals	524.089	210798466	1316101274		

File: 95091421.D41 Sample: A950609V2/MID - A05



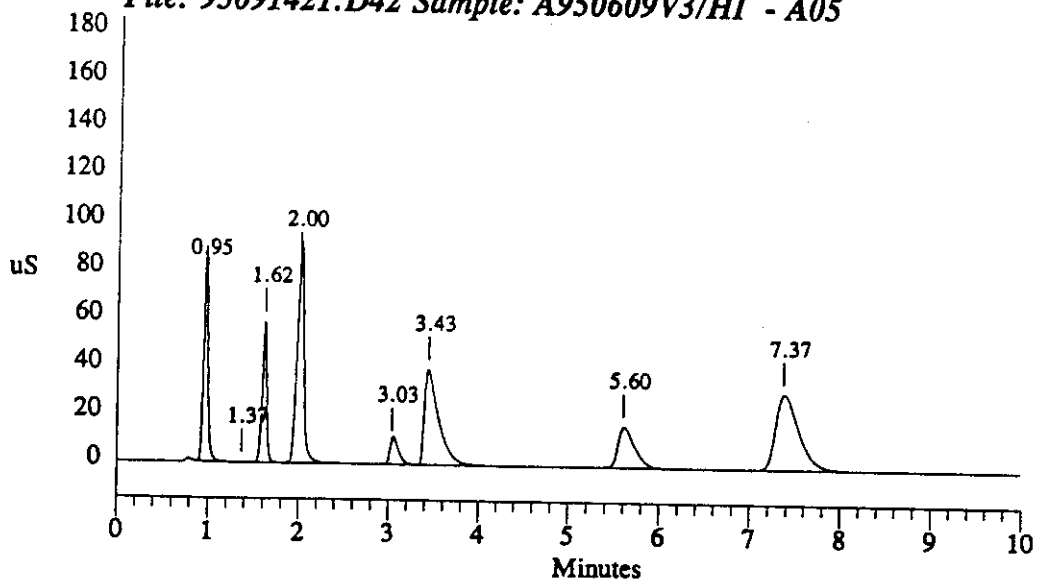
Sample Name: A950609V3/HI - A05 Date: 09/14/1995 22:29:56
Data File : C:\DX\DATA\9509142\95091421.D42
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 42 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.734	69574914	296968790	1	-2.39
2	1.37		0.000	154265	782522	1	
3	1.62	CHLORIDE	26.758	58598332	204850190	1	0.00
4	2.00	NITRITE	107.273	82432959	488412889	1	-1.43
5	3.03	BROMIDE	27.537	9962311	75368585	1	-0.07
6	3.43	NITRATE	106.370	39569919	433163334	1	0.00
7	5.60	PHOSPHATE	110.018	17160820	223714780	1	0.97
8	7.37	SULFATE	108.257	31581762	570749047	1	0.00
		Totals	512.947	309035282	2294010136		

File: 95091421.D42 Sample: A950609V3/HI - A05



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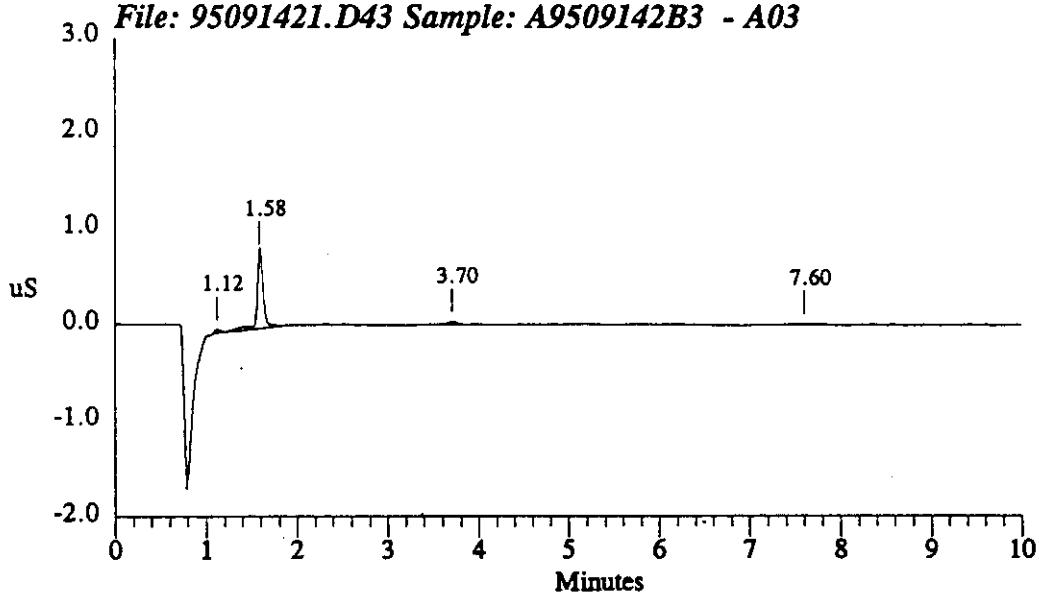
Sample Name: A9509142B3  - A03              Date: 09/14/1995 22:46:24
Data File  : C:\DX\DATA\9509142\95091421.D43
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 43  Vial:A03        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	34983	152987	1	
2	1.58	CHLORIDE	0.257	778163	4094529	1	0.00
3	3.70	NITRATE	0.254	33703	394847	1	0.00
4	7.60	SULFATE	0.228	10156	143714	1	0.00
		Totals	0.738	857005	4786077		

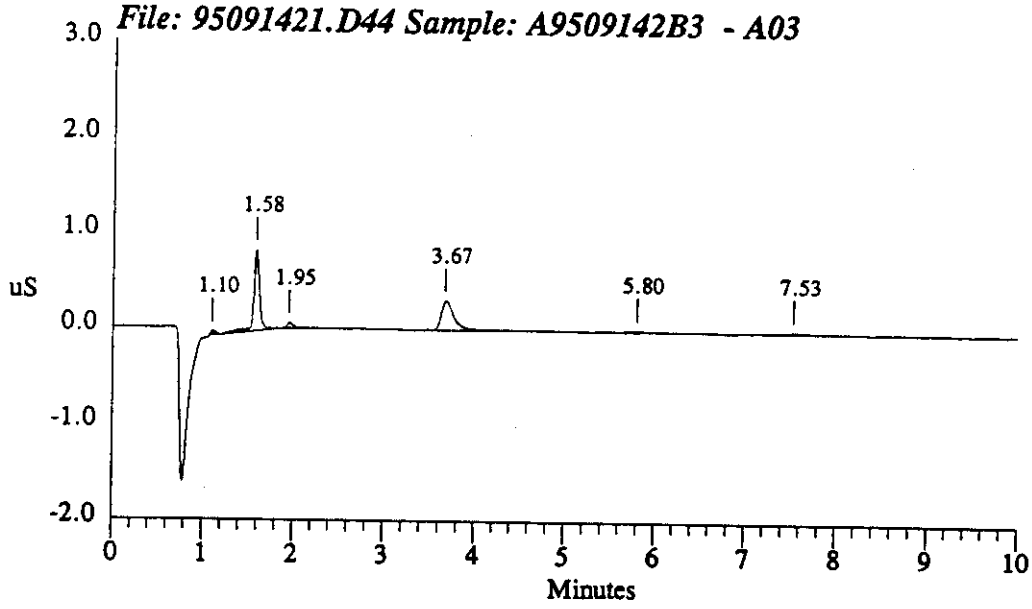


Sample Name: A9509142B3 - A03 Date: 09/14/1995 23:02:44
Data File : C:\DX\DATA\9509142\95091421.D44
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 44 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.10		0.000	38059	159263	1	
2	1.58	CHLORIDE	0.250	848352	3915656	1	0.00
3	1.95	NITRITE	0.242	58358	311962	1	-1.87
4	3.67	NITRATE	0.459	304802	3228527	1	0.00
5	5.80	PHOSPHATE	0.278	13602	250393	1	-2.08
6	7.53	SULFATE	0.236	15324	283431	1	0.00
		Totals	1.465	1278497	8149231		



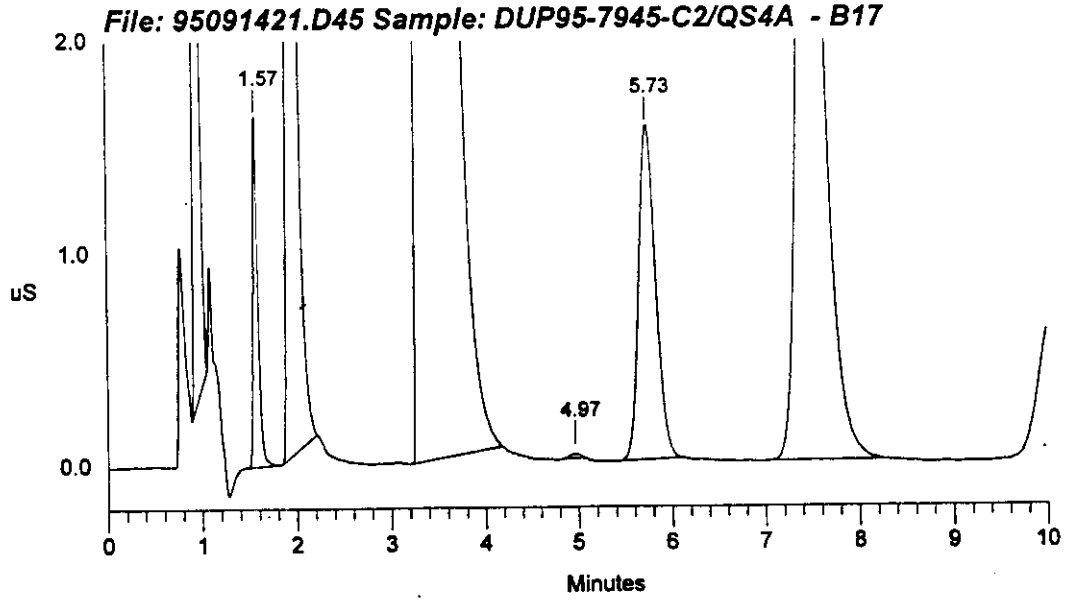
Data Reprocessed On 09/22/1995 03:19:28

Sample Name: DUP95-7945-C2/QS4A - B17		Date: 09/14/1995 23:15:14	
Data File : C:\DX\DATA\9509142\95091421.D45			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 45 Vial:B17			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	59.615	18358020	47754230	1	0.72
2	1.57	CHLORIDE	16.330	1623154	5945197	1	0.00
3	1.95	NITRITE	342.332	24554243	117491987	1	-0.83
4	3.33	NITRATE	2083.716	69026817	822679933	1	0.00
5	4.97		0.000	22145	154628	1	
6	5.73	PHOSPHATE	156.259	1554992	19760125	1	6.48
7	7.47	SULFATE	238.076	4475072	82353885	1	0.00
		Totals	2896.329	119614442	1096139985		



Data Reprocessed On 09/22/1995 02:54:55

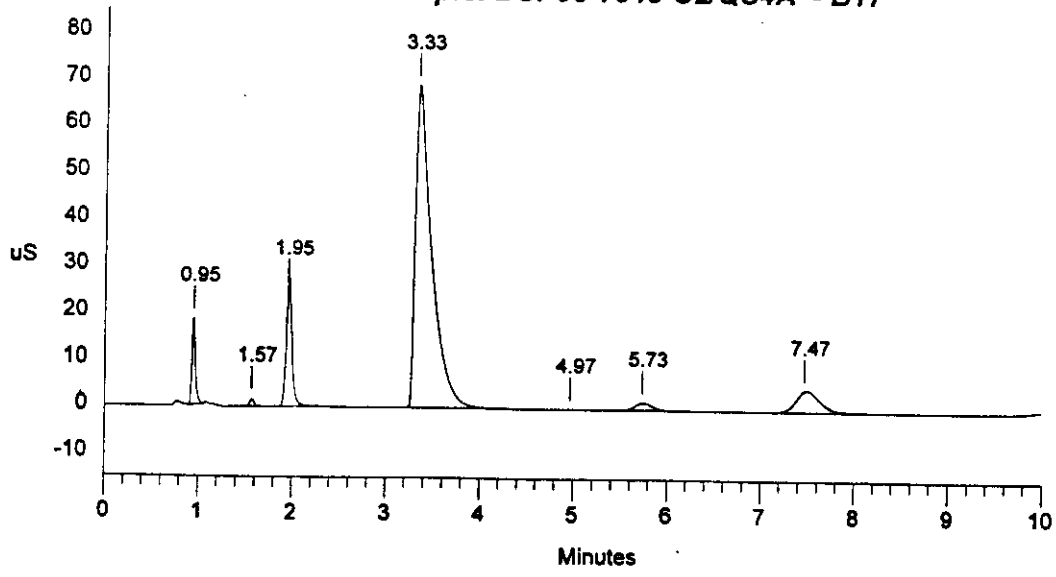
Sample Name:	DUP95-7945-C2/QS4A - B17	Date:	09/14/1995 23:15:14
Data File :	C:\DX\DATA\9509142\95091421.d45		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 45 Vial:B17	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	59.615	18358020	47754230	1	0.72
2	1.57	CHLORIDE	16.330	1623154	5945197	1	0.00
3	1.95	NITRITE	342.332	24554243	117491987	1	-0.83
4	3.33	NITRATE	2083.716	69026817	822679933	1	0.00
5	4.97		0.000	22145	154628	1	
6	5.73	PHOSPHATE	156.259	1554992	19760125	1	6.48
7	7.47	SULFATE	238.076	4475072	82353885	1	0.00
		Totals	2896.329	119614442	1096139985		

File: 95091421.d45 Sample: DUP95-7945-C2/QS4A - B17



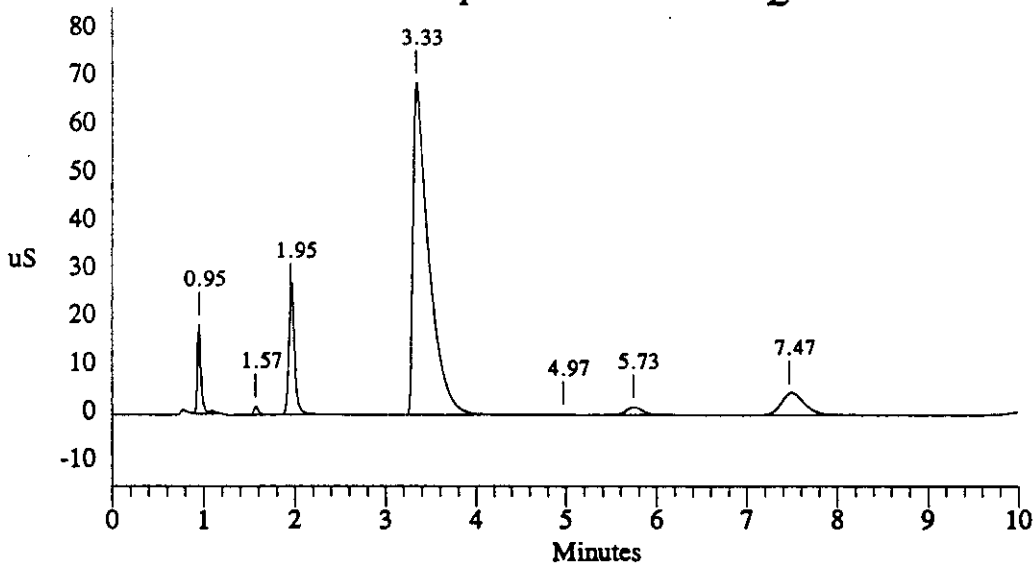
Sample Name: DUP95-7945-C2/QS4A - B17 Date: 09/14/1995 23:15:14
Data File : C:\DX\DATA\9509142\95091421.D45
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 45 Vial:B17 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	64.127	18438710	51725192	1	0.72
2	1.57	CHLORIDE	19.476	1684413	7618886	1	0.00
3	1.95	NITRITE	349.316	24592024	119997630	1	-0.83
4	3.33	NITRATE	2087.950	69036849	825688084	1	0.00
5	4.97		0.000	32163	330955	1	
6	5.73	PHOSPHATE	160.586	1563130	20362973	1	6.48
7	7.47	SULFATE	239.731	4480309	82969397	1	0.00
		Totals	2921.186	119827599	1108693116		

File: 95091421.D45 Sample: DUP95-7945-C2/QS4A - B17



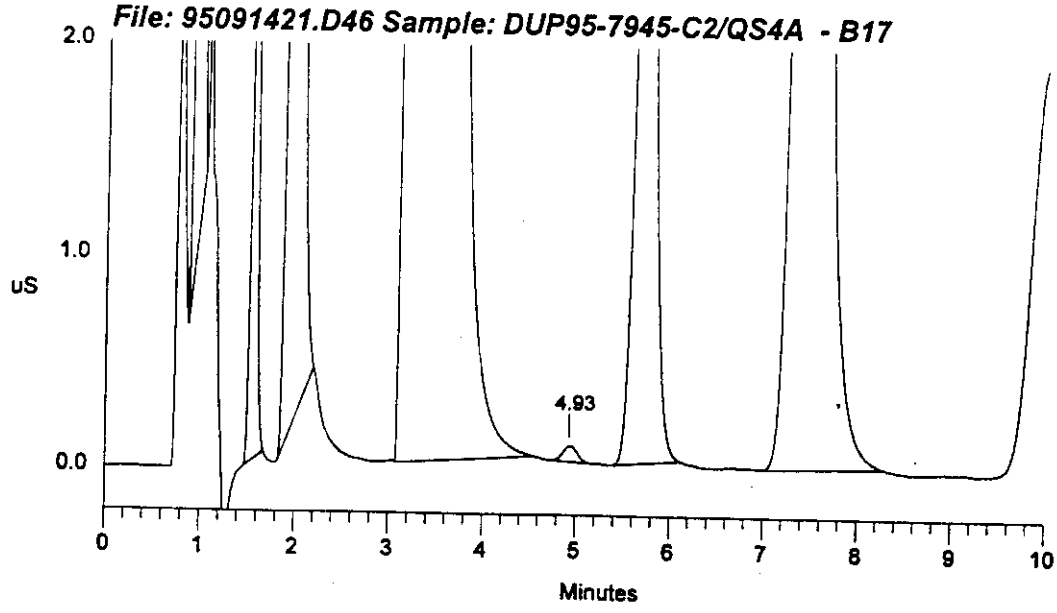
Data Reprocessed On 09/22/1995 00:28:58

Sample Name: DUP95-7945-C2/QS4A - B17		Date: 09/14/1995 23:27:51	
Data File : C:\DX\DATA\9509142\95091421.D46			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 46 Vial:B17			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	61.568	44561595	131581078	1	0.36
2	1.55	CHLORIDE	13.822	4019395	15702417	1	0.00
3	1.95	NITRITE	364.570	64586106	325633564	1	0.24
4	3.17	NITRATE	312.287	183879475	2461633181	1	0.00
5	4.93		0.000	71726	797924	1	
6	5.67	PHOSPHATE	166.713	4435919	57192692	1	5.14
7	7.40	SULFATE	255.562	13306503	238988965	1	0.00
		Totals	1174.522	314860720	3231529821		



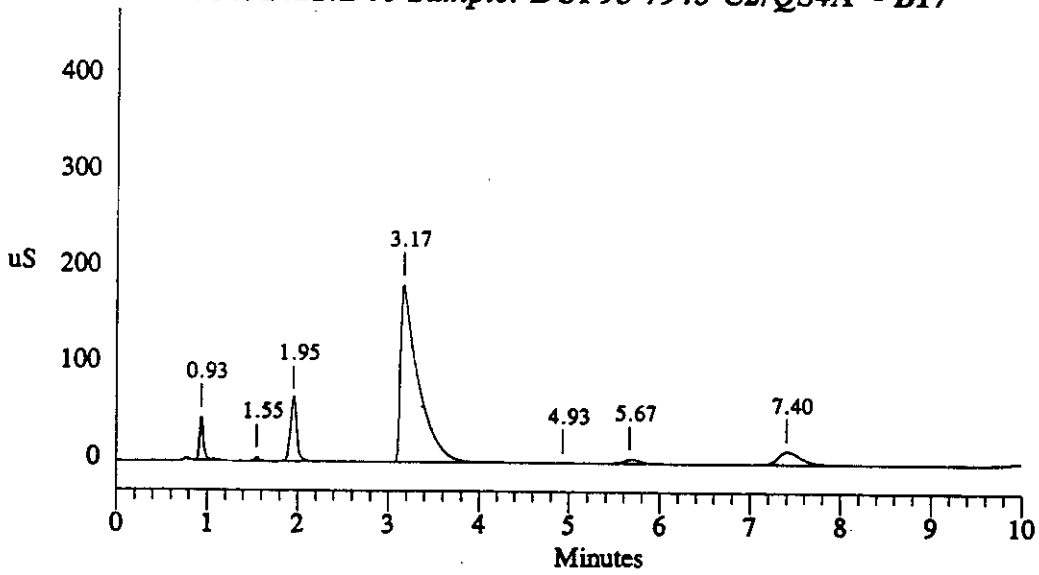
Sample Name: DUP95-7945-C2/QS4A - B17 Date: 09/14/1995 23:27:51
Data File : C:\DX\DATA\9509142\95091421.D46
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 46 Vial:B17 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	66.417	44823272	142487238	1	0.02
2	1.55	CHLORIDE	16.899	4188184	19865651	1	0.00
3	1.95	NITRITE	373.841	64745736	334287524	1	0.24
4	3.17	NITRATE	311.069	183880852	2462647019	1	0.00
5	4.93	PHOSPHATE	7.208	71540	804361	1	-3.56
6	5.67		0.000	4446882	58017433	1	
7	7.40	SULFATE	256.616	13313911	240074448	1	0.00
		Totals	1032.051	315470378	3258183674		

File: 95091421.D46 Sample: DUP95-7945-C2/QS4A - B17



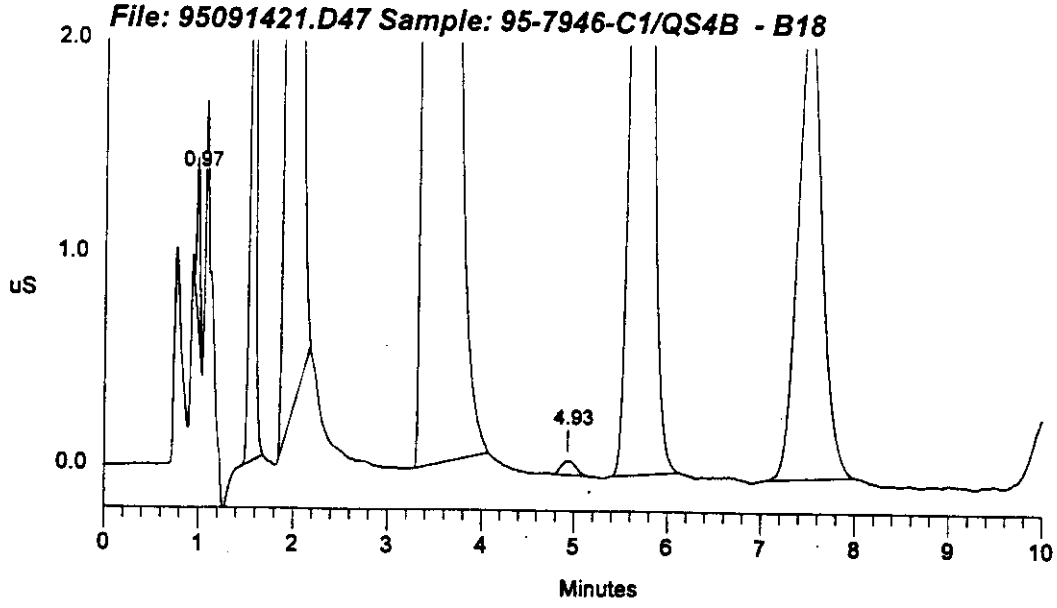
Data Reprocessed On 09/22/1995 03:20:13

Sample Name: 95-7946-C1/QS4B - B18		Date: 09/14/1995 23:40:27	
Data File : C:\DX\DATA\9509142\95091421.D47			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 47 Vial:B18			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.885	472982	1918896	1	3.59
2	1.55	CHLORIDE	12.688	3843557	14174867	1	0.00
3	1.97	NITRITE	382.394	71972712	342284563	1	1.09
4	3.40	NITRATE	548.862	40692508	450616570	1	0.00
5	4.93		0.000	65665	713383	1	
6	5.67	PHOSPHATE	251.386	7225815	89520577	1	3.17
7	7.47	SULFATE	48.037	2148479	39058968	1	0.00
		Totals	1246.251	126421718	938287824		



Data Reprocessed On 09/22/1995 02:54:57

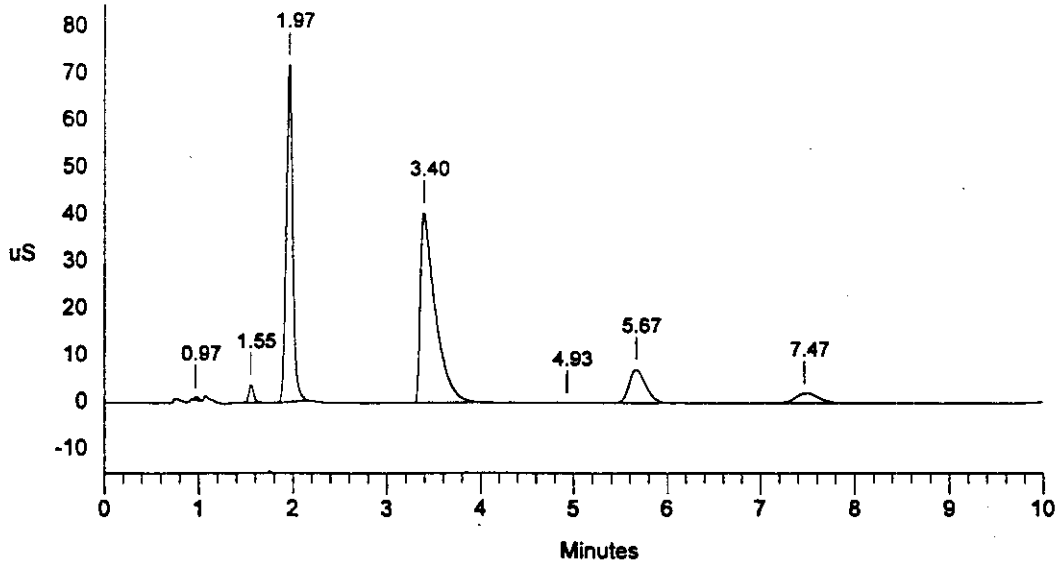
Sample Name: 95-7946-C1/QS4B - B18		Date: 09/14/1995 23:40:27	
Data File : C:\DX\DATA\9509142\95091421.d47			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 47 Vial:B18			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.885	472982	1918896	1	3.59
2	1.55	CHLORIDE	12.688	3843557	14174867	1	0.00
3	1.97	NITRITE	382.394	71972712	342284563	1	1.09
4	3.40	NITRATE	548.862	40692508	450616570	1	0.00
5	4.93		0.000	65665	713383	1	
6	5.67	PHOSPHATE	251.386	7225815	89520577	1	3.17
7	7.47	SULFATE	48.037	2148479	39058968	1	0.00
		Totals	1246.251	126421718	938287824		

File: 95091421.d47 Sample: 95-7946-C1/QS4B - B18



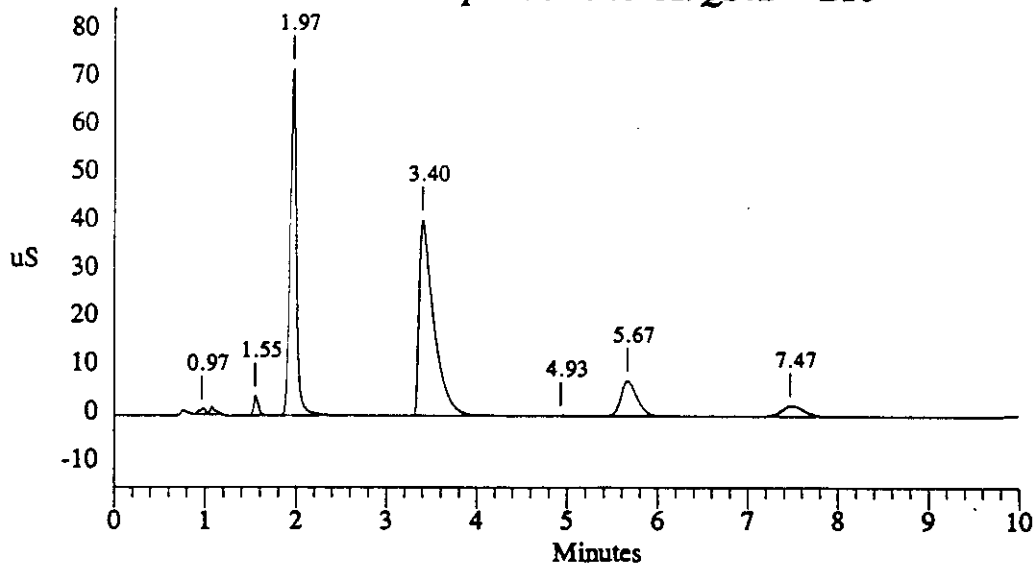
Sample Name: 95-7946-C1/QS4B - B18 Date: 09/14/1995 23:40:27
Data File : C:\DX\DATA\9509142\95091421.D47
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 47 Vial:B18 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	7.669	1054211	12334678	1	3.59
2	1.55	CHLORIDE	14.906	3958082	17166403	1	0.00
3	1.97	NITRITE	394.389	72198830	353520470	1	1.09
4	3.40	NITRATE	551.604	40705706	453461387	1	0.00
5	4.93		0.000	69202	846934	1	
6	5.67	PHOSPHATE	253.479	7239486	90344439	1	3.17
7	7.47	SULFATE	50.184	2173356	41004723	1	0.00
		Totals	1272.232	127398873	968679033		

File: 95091421.D47 Sample: 95-7946-C1/QS4B - B18



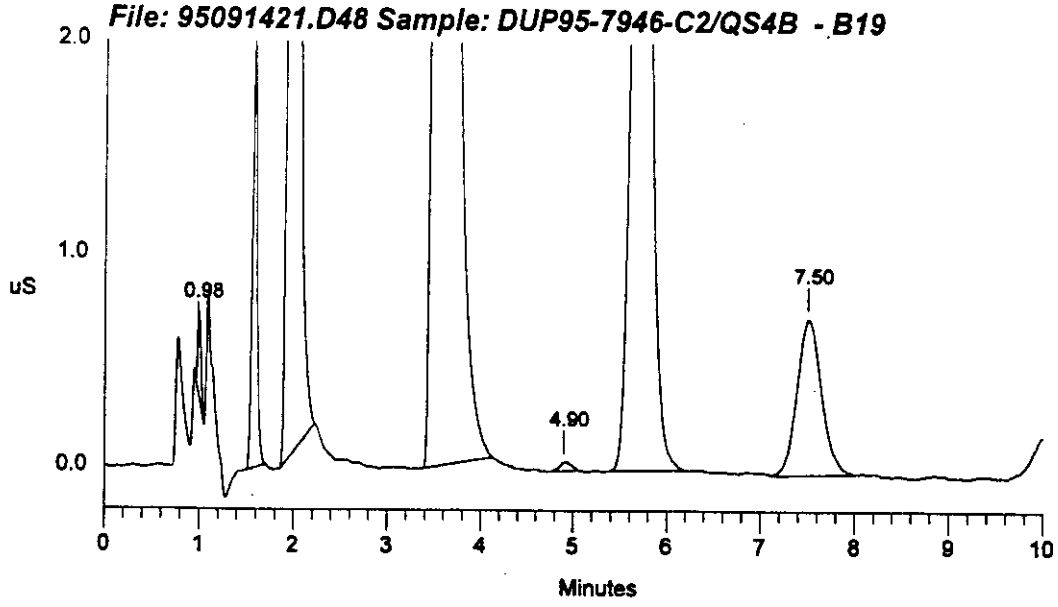
Data Reprocessed On 09/22/1995 03:20:30

Sample Name: DUP95-7946-C2/QS4B - B19		Date: 09/14/1995 23:52:58	
Data File : C:\DX\DATA\9509142\95091421.D48			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 48 Vial:B19			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	6.118	263151	967254	1	4.26
2	1.57	CHLORIDE	18.277	1803906	6980390	1	0.00
3	1.97	NITRITE	494.920	37491362	172504611	1	0.02
4	3.50	NITRATE	703.163	19085385	206626337	1	0.00
5	4.90		0.000	37396	383695	1	
6	5.67	PHOSPHATE	503.281	5443699	70176177	1	0.23
7	7.50	SULFATE	48.533	733434	13341746	1	0.00
		Totals	1774.292	64858333	470980210		



Data Reprocessed On 09/22/1995 02:54:58

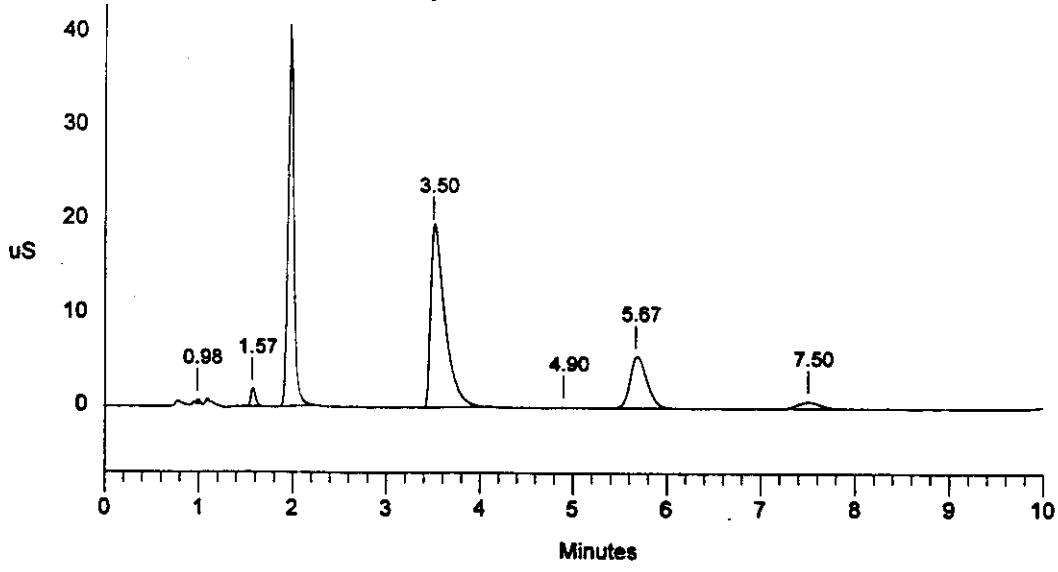
Sample Name:	DUP95-7946-C2/QS4B - B19 Date: 09/14/1995 23:52:58
Data File :	C:\DX\DATA\9509142\95091421.d48
Method :	c:\dx\method\2anions2.met
ACI Address:	1 System: 2 Inject#: 48 Vial:B19 Detector:PED-Cond.
Analyst :	MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	6.118	263151	967254	1	4.26
2	1.57	CHLORIDE	18.277	1803906	6980390	1	0.00
3	1.97	NITRITE	494.920	37491362	172504611	1	0.02
4	3.50	NITRATE	703.163	19085385	206626337	1	0.00
5	4.90		0.000	37396	383695	1	
6	5.67	PHOSPHATE	503.281	5443699	70176177	1	0.23
7	7.50	SULFATE	48.533	733434	13341746	1	0.00
		Totals	1774.292	64858333	470980210		

File: 95091421.d48 Sample: DUP95-7946-C2/QS4B - B19



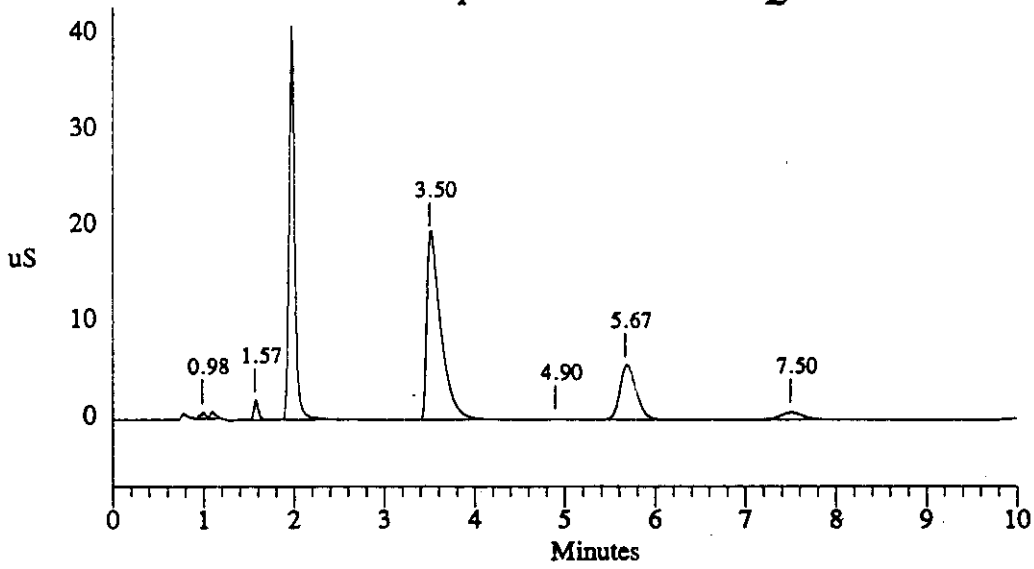
Sample Name: DUP95-7946-C2/QS4B - B19 Date: 09/14/1995 23:52:58
Data File : C:\DX\DATA\9509142\95091421.D48
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 48 Vial:B19 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	11.586	522709	5725066	1	4.26
2	1.57	CHLORIDE	21.335	1868016	8610188	1	0.00
3	1.97	NITRITE	507.410	37556610	177032848	1	0.02
4	3.50	NITRATE	709.204	19097299	208595635	1	0.00
5	4.90		0.000	41655	518134	1	
6	5.67	PHOSPHATE	503.670	5444447	70235298	1	0.23
7	7.50	SULFATE	50.241	738008	13950790	1	0.00
		Totals	1803.446	65268744	484667959		

File: 95091421.D48 Sample: DUP95-7946-C2/QS4B - B19



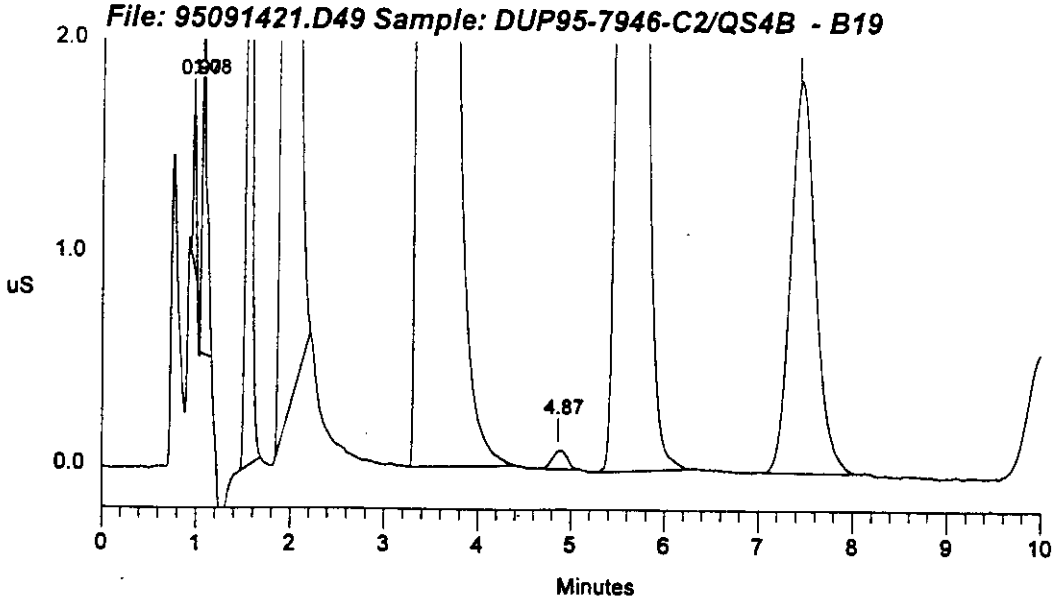
Data Reprocessed On 09/22/1995 03:20:47

Sample Name: DUP95-7946-C2/QS4B - B19		Date: 09/15/1995 00:05:34	
Data File : C:\DX\DATA\9509142\95091421.D49			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 49 Vial:B19			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.778	704659	1685933	1	3.59
2	1.08		0.000	1140854	5316702	1	
3	1.55	CHLORIDE	15.475	4779642	17936182	1	0.00
4	1.97	NITRITE	475.018	80288831	429688923	1	1.09
5	3.37	NITRATE	666.044	43086452	581569575	1	0.00
6	4.87		0.000	85255	982395	1	
7	5.57	PHOSPHATE	500.451	15367927	198497880	1	2.36
8	7.43	SULFATE	41.938	1807396	33545869	1	0.00
		Totals	1701.703	147261018	1269223459		



Data Reprocessed On 09/22/1995 02:54:58

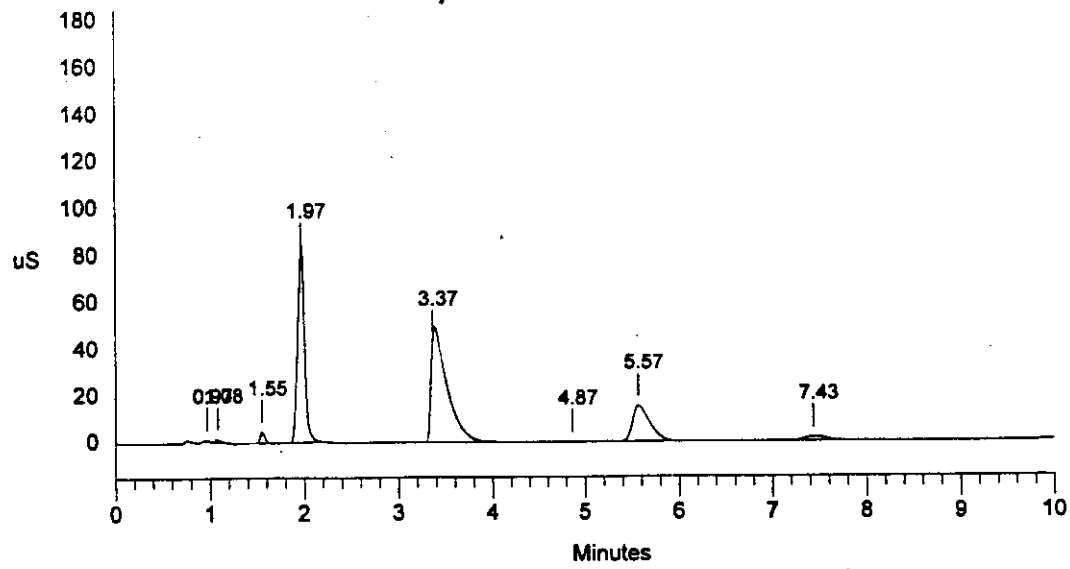
Sample Name: DUP95-7946-C2/QS4B - B19		Date: 09/15/1995 00:05:34	
Data File : C:\DX\DATA\9509142\95091421.d49			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 49 Vial:B19			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.778	704659	1685933	1	3.59
2	1.08		0.000	1140854	5316702	1	
3	1.55	CHLORIDE	15.475	4779642	17936182	1	0.00
4	1.97	NITRITE	475.018	80288831	429688923	1	1.09
5	3.37	NITRATE	666.044	43086452	581569575	1	0.00
6	4.87		0.000	85255	982395	1	
7	5.57	PHOSPHATE	500.451	15367927	198497880	1	2.36
8	7.43	SULFATE	41.938	1807396	33545869	1	0.00
		Totals	1701.703	147261018	1269223459		

File: 95091421.d49 Sample: DUP95-7946-C2/QS4B - B19



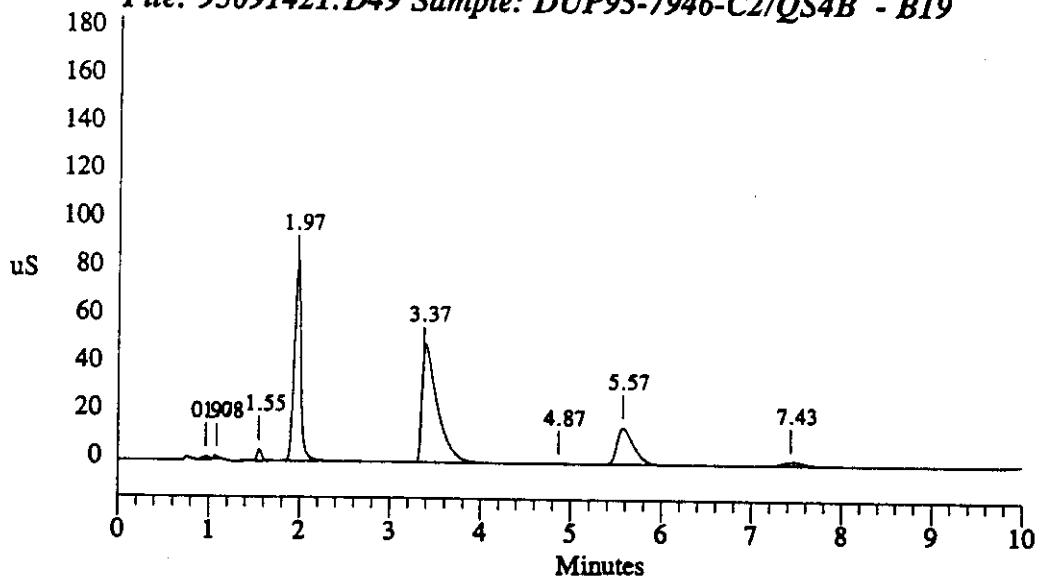
Sample Name: DUP95-7946-C2/QS4B - B19 Date: 09/15/1995 00:05:34
Data File : C:\DX\DATA\9509142\95091421.D49
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 49 Vial:B19 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.713	1335041	5895281	2	3.59
2	1.08		0.000	1227998	5878211	2	
3	1.55	CHLORIDE	18.429	4931161	21944885	1	0.00
4	1.97	NITRITE	489.030	80523819	443042452	1	1.09
5	3.37	NITRATE	666.394	43087405	581994445	1	0.00
6	4.87		0.000	88890	1120648	1	
7	5.57	PHOSPHATE	501.924	15372458	199224659	1	2.36
8	7.43	SULFATE	42.352	1809968	33920119	1	0.00
		Totals	1722.841	148376741	1293020700		

File: 95091421.D49 Sample: DUP95-7946-C2/QS4B - B19



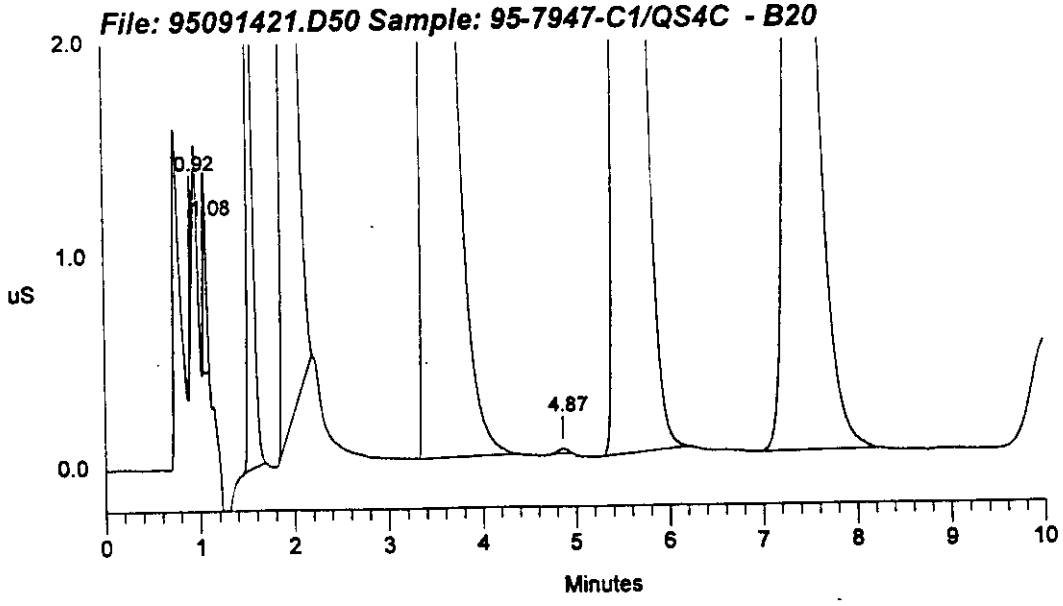
Data Reprocessed On 09/22/1995 03:21:38

Sample Name:	95-7947-C1/QS4C - B20	Date:	09/15/1995 00:18:11
Data File :	C:\DX\DATA\9509142\95091421.D50		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 50 Vial:B20	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	2.378	476086	816333	1	-1.77
2	1.08		0.000	565737	2133894	1	
3	1.55	CHLORIDE	12.371	3653067	13748422	1	0.00
4	1.97	NITRITE	382.525	71027692	342407128	1	1.09
5	3.43	NITRATE	485.934	34284467	387642705	1	0.00
6	4.87		0.000	24725	160048	1	
7	5.53	PHOSPHATE	615.366	19661552	259490299	1	-0.23
8	7.40	SULFATE	138.313	6712226	122914220	1	0.00
		Totals	1636.887	136405552	1129313050		



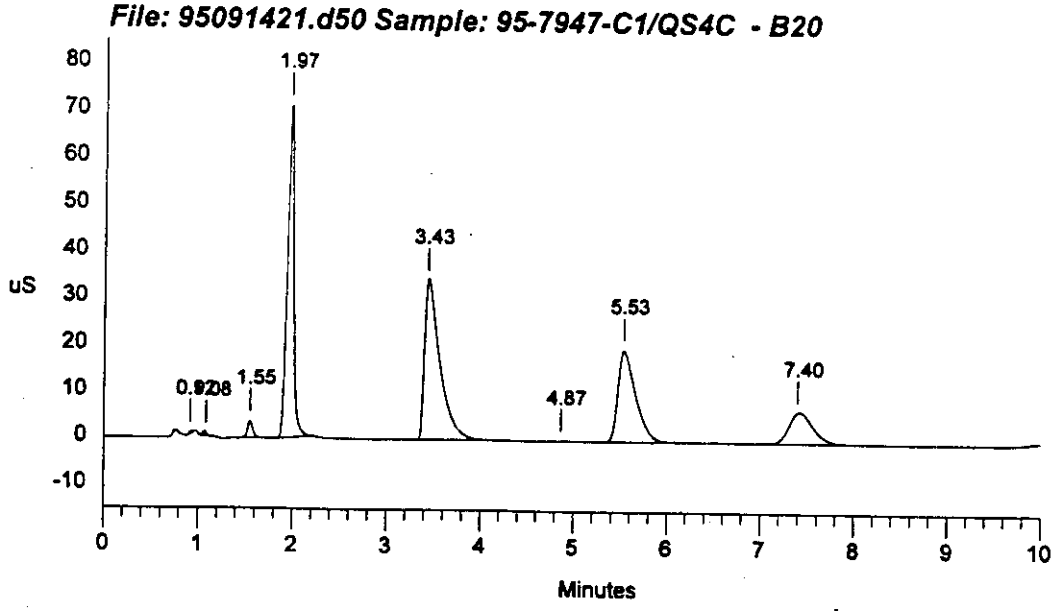
Data Reprocessed On 09/22/1995 02:54:59

Sample Name: 95-7947-C1/QS4C - B20		Date: 09/15/1995 00:18:11	
Data File : C:\DX\DATA\9509142\95091421.d50			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 50 Vial:B20			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	2.378	476086	816333	1	-1.77
2	1.08		0.000	565737	2133894	1	
3	1.55	CHLORIDE	12.371	3653067	13748422	1	0.00
4	1.97	NITRITE	382.525	71027692	342407128	1	1.09
5	3.43	NITRATE	485.934	34284467	387642705	1	0.00
6	4.87		0.000	24725	160048	1	
7	5.53	PHOSPHATE	615.366	19661552	259490299	1	-0.23
8	7.40	SULFATE	138.313	6712226	122914220	1	0.00
		Totals	1636.887	136405552	1129313050		



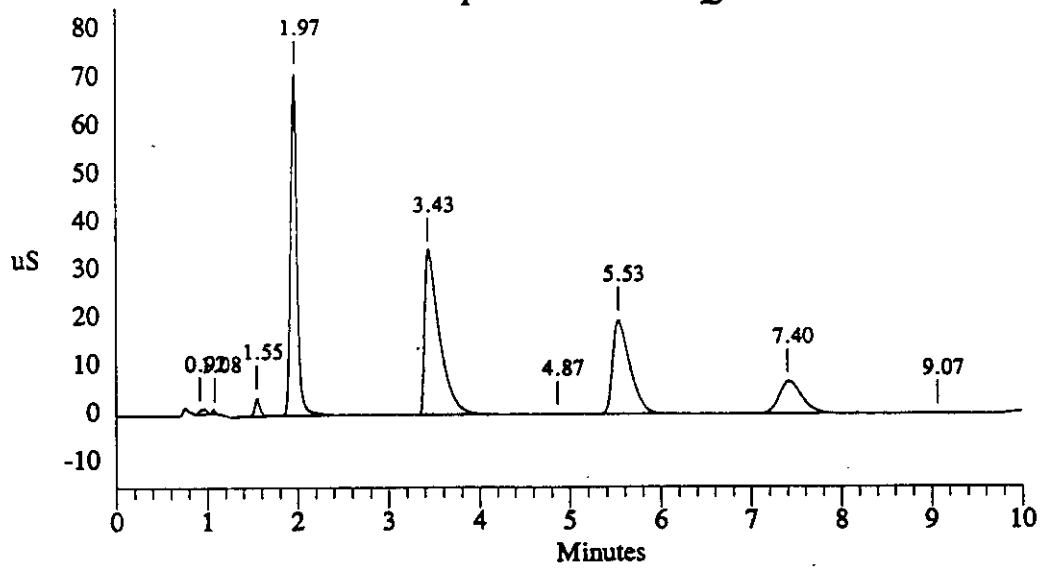
Sample Name: 95-7947-C1/QS4C - B20 Date: 09/15/1995 00:18:11
Data File : C:\DX\DATA\9509142\95091421.D50
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 50 Vial:B20 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.92	FLUORIDE	4.556	884899	5554717	2	-1.77
2	1.08		0.000	579643	2234419	2	
3	1.55	CHLORIDE	15.390	3807303	17821145	1	0.00
4	1.97	NITRITE	394.026	71233118	353179183	1	1.09
5	3.43	NITRATE	486.345	34285742	388040576	1	0.00
6	4.87		0.000	34732	314150	1	
7	5.53	PHOSPHATE	616.857	19668402	260347949	1	-0.23
8	7.40	SULFATE	138.804	6716585	123382575	1	0.00
9	9.07		0.000	6956	148758	1	
		Totals	1655.978	137217380	1151023471		

File: 95091421.D50 Sample: 95-7947-C1/QS4C - B20



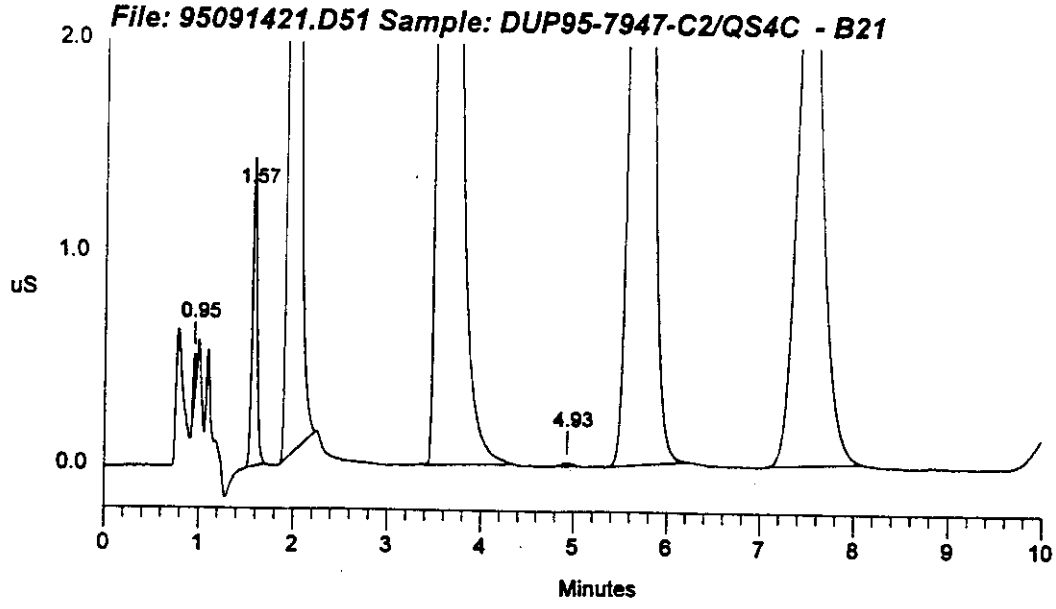
Data Reprocessed On 09/22/1995 03:22:05

Sample Name: DUP95-7947-C2/QS4C - B21		Date: 09/15/1995 00:30:39	
Data File : C:\DX\DATA\9509142\95091421.D51			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 51 Vial:B21			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	5.409	221357	350327	1	0.72
2	1.57	CHLORIDE	14.588	1155636	5019887	1	0.00
3	1.97	NITRITE	370.585	27837876	127635670	1	0.02
4	3.53	NITRATE	469.414	11584588	132880538	1	0.00
5	4.93		0.000	13667	121929	1	
6	5.67	PHOSPHATE	681.342	7877992	97903870	1	-0.72
7	7.47	SULFATE	150.749	2738979	50199708	1	0.00
		Totals	1692.087	51430096	414111929		



Data Reprocessed On 09/22/1995 02:55:00

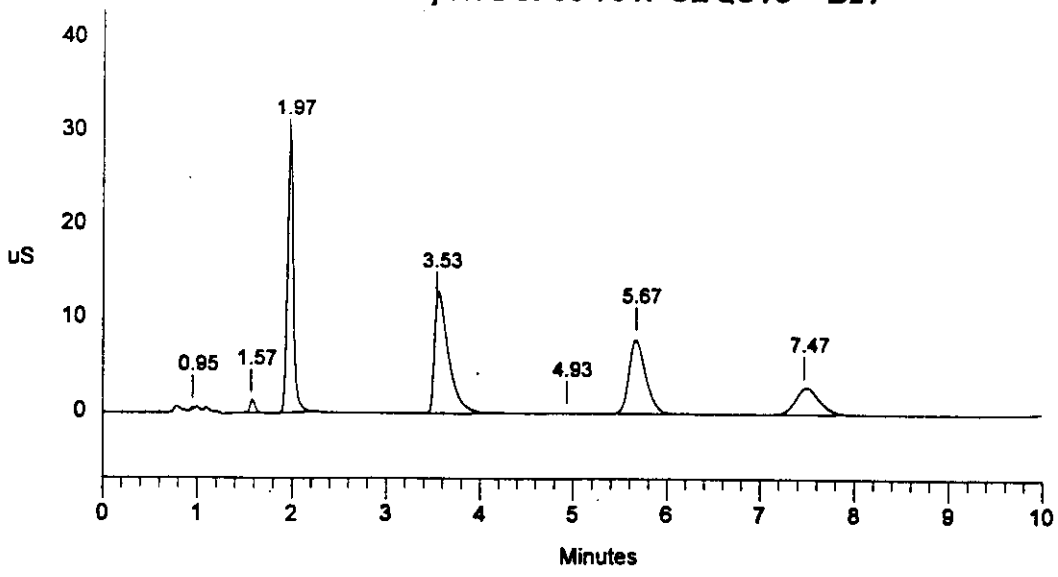
Sample Name: DUP95-7947-C2/QS4C - B21		Date: 09/15/1995 00:30:39	
Data File : C:\DX\DATA\9509142\95091421.d51			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 51 Vial:B21			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	5.409	221357	350327	1	0.72
2	1.57	CHLORIDE	14.588	1155636	5019887	1	0.00
3	1.97	NITRITE	370.585	27837876	127635670	1	0.02
4	3.53	NITRATE	469.414	11584588	132880538	1	0.00
5	4.93		0.000	13667	121929	1	
6	5.67	PHOSPHATE	681.342	7877992	97903870	1	-0.72
7	7.47	SULFATE	150.749	2738979	50199708	1	0.00
		Totals	1692.087	51430096	414111929		

File: 95091421.d51 Sample: DUP95-7947-C2/QS4C - B21



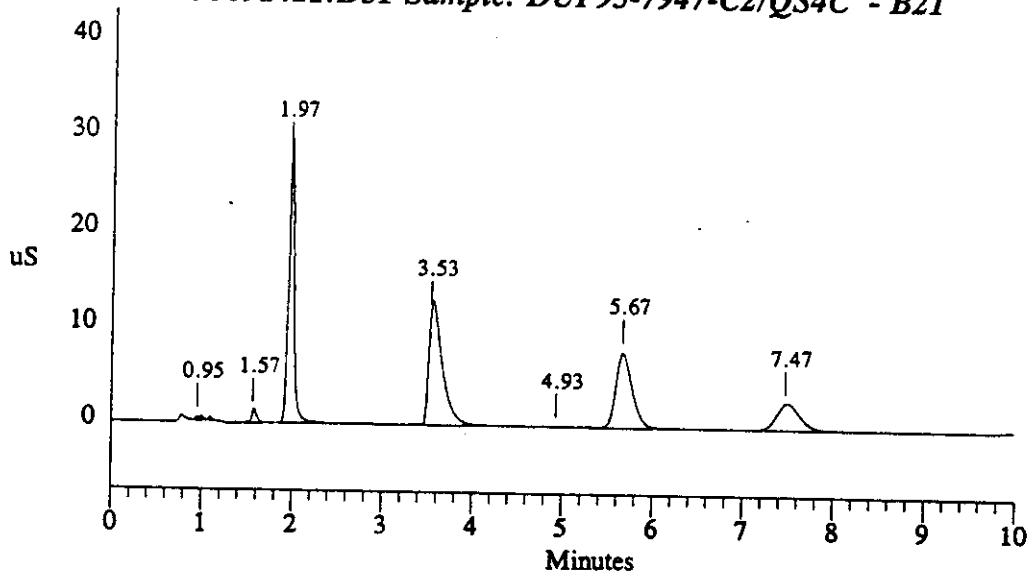
Sample Name: DUP95-7947-C2/QS4C - B21 Date: 09/15/1995 00:30:39
Data File : C:\DX\DATA\9509142\95091421.D51
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 51 Vial:B21 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	8.790	399271	3291565	1	0.72
2	1.57	CHLORIDE	17.590	1219530	6614855	1	0.00
3	1.97	NITRITE	379.801	27886929	130948797	1	0.02
4	3.53	NITRATE	470.074	11585453	133082404	1	0.00
5	4.93		0.000	16270	176628	1	
6	5.67	PHOSPHATE	686.851	7887244	98784760	1	-0.72
7	7.47	SULFATE	153.496	2750206	51201579	1	0.00
		Totals	1716.602	51744903	424100587		

File: 95091421.D51 Sample: DUP95-7947-C2/QS4C - B21



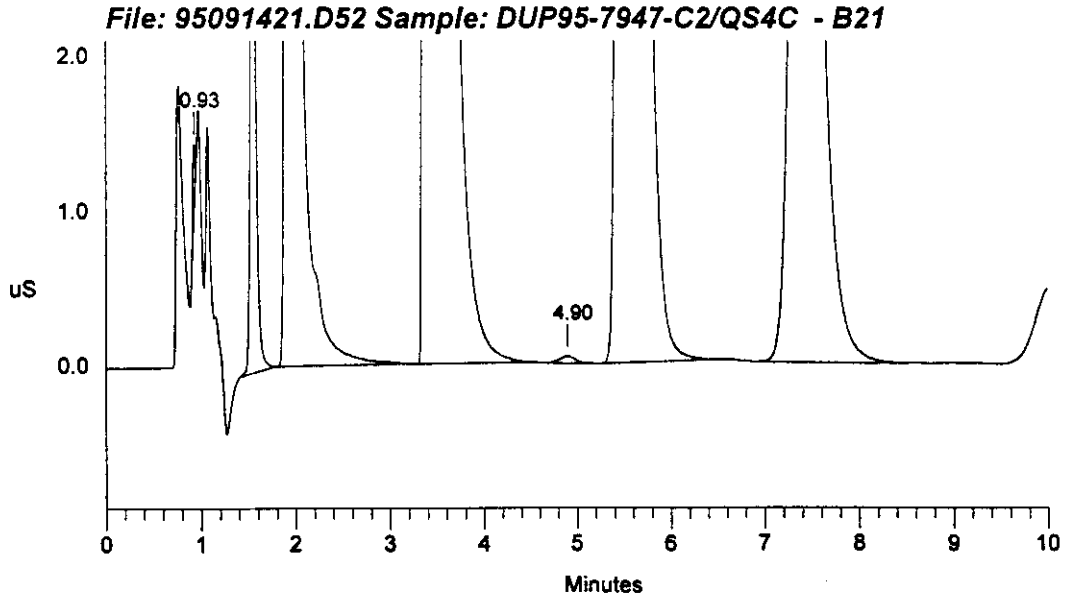
Data Reprocessed On 09/22/1995 00:50:12

Sample Name: DUP95-7947-C2/QS4C - B21				Date: 09/15/1995 00:43:16	
Data File : C:\DX\DATA\9509142\95091421.D52					
Method : c:\dx\method\2anions2.met					
ACI Address: 1 System: 2 Inject#: 52 Vial:B21				Detector:PED-Cond.	
Analyst : MMO			Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	2.389	461310	840914	1	0.02
2	1.55	CHLORIDE	13.841	3945872	15728885	1	0.00
3	1.97	NITRITE	436.716	75755925	393364582	1	1.09
4	3.40	NITRATE	542.708	36835833	444263560	1	0.00
5	4.90		0.000	44831	609230	1	
6	5.50	PHOSPHATE	733.684	23811985	335283838	1	0.14
7	7.40	SULFATE	175.804	8637477	159078873	1	0.00
		Totals	1905.142	149493232	1349169882		



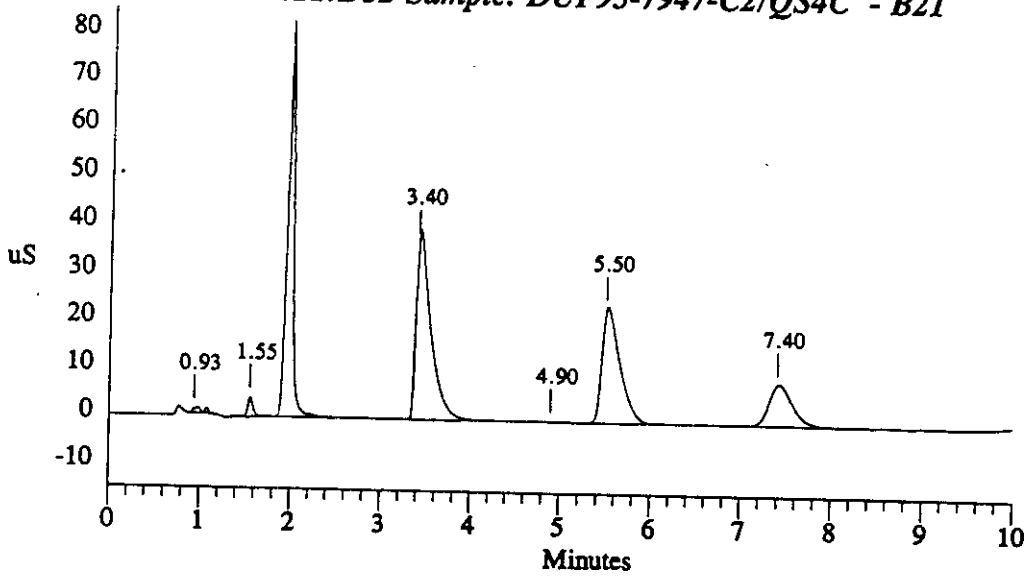
Sample Name: DUP95-7947-C2/QS4C - B21 Date: 09/15/1995 00:43:16
Data File : C:\DX\DATA\9509142\95091421.D52
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 52 Vial:B21 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	6.353	1059488	9465738	1	0.02
2	1.55	CHLORIDE	16.832	4099246	19773818	1	0.00
3	1.97	NITRITE	436.716	75755925	393364582	1	1.09
4	3.40	NITRATE	542.708	36835833	444263560	1	0.00
5	4.90		0.000	44831	609230	1	
6	5.50	PHOSPHATE	733.684	23811985	335283838	1	0.14
7	7.40	SULFATE	175.804	8637477	159078873	1	0.00
		Totals	1912.096	150244785	1361839639		

File: 95091421.D52 Sample: DUP95-7947-C2/QS4C - B21



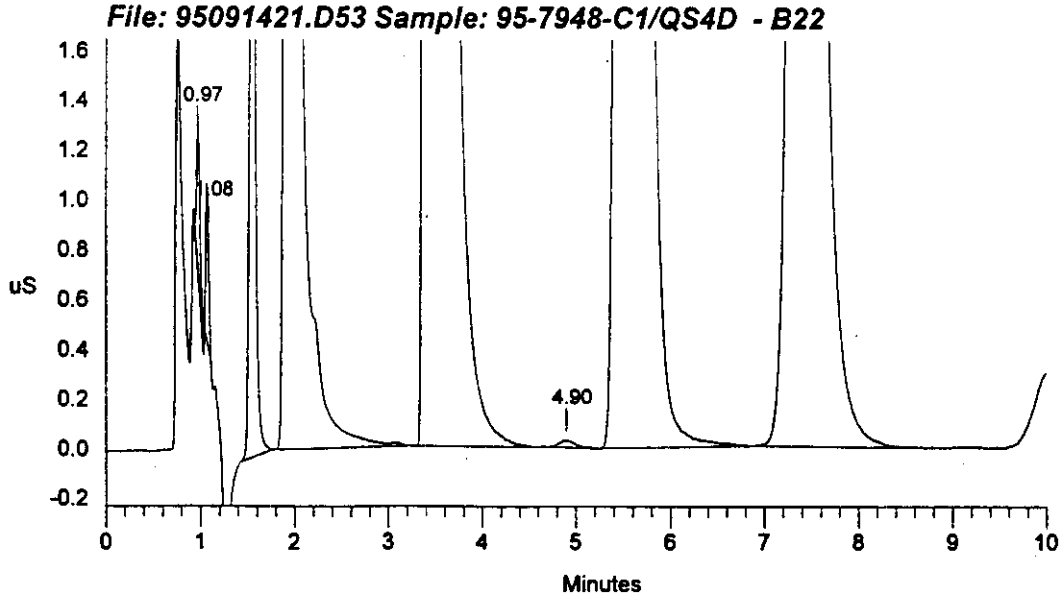
Data Reprocessed On 09/22/1995 00:53:21

Sample Name:	95-7948-C1/QS4D - B22	Date:	09/15/1995 00:55:52
Data File :	C:\DX\DATA\9509142\95091421.D53		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 53 Vial:B22	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.724	509806	1569050	1	3.59
2	1.08		0.000	460298	1357933	1	
3	1.55	CHLORIDE	12.049	3436519	13316627	1	0.00
4	1.95	NITRITE	381.891	63486661	341814026	1	0.24
5	3.43	NITRATE	471.638	33807399	373904054	1	0.00
6	4.90		0.000	26844	360182	1	
7	5.50	PHOSPHATE	766.862	25897196	360364716	1	-0.83
8	7.40	SULFATE	202.592	10233331	185447461	1	0.00
		Totals	1837.757	137858054	1278134049		



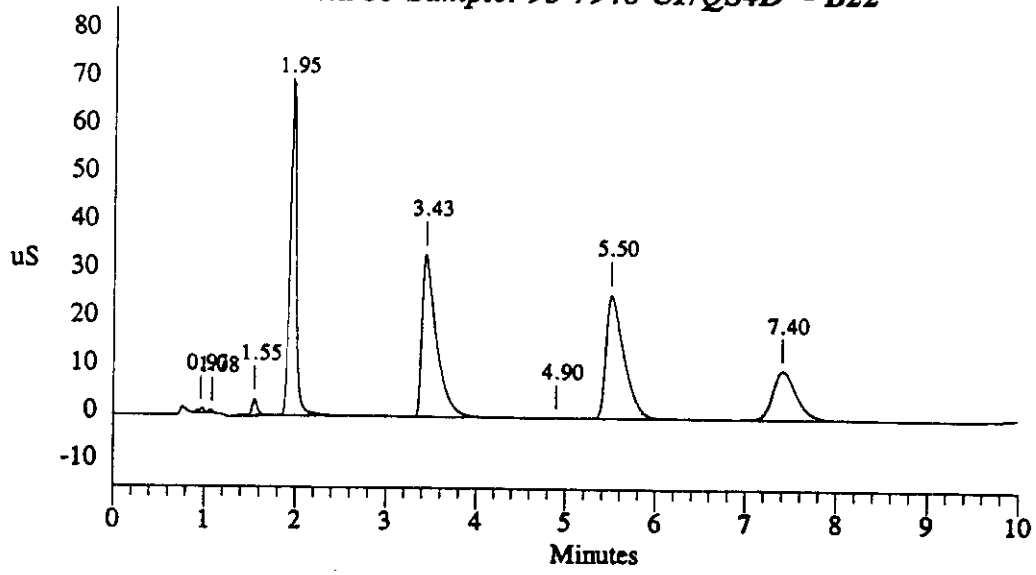
Sample Name: 95-7948-C1/QS4D - B22 Date: 09/15/1995 00:55:52
Data File : C:\DX\DATA\9509142\95091421.D53
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 53 Vial:B22 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.913	897744	4154202	2	3.59
2	1.08		0.000	511600	1652640	2	
3	1.55	CHLORIDE	14.932	3583940	17200937	1	0.00
4	1.95	NITRITE	381.891	63486661	341814026	1	0.24
5	3.43	NITRATE	471.638	33807399	373904054	1	0.00
6	4.90		0.000	26844	360182	1	
7	5.50	PHOSPHATE	766.862	25897196	360364716	1	-0.83
8	7.40	SULFATE	202.592	10233331	185447461	1	0.00
		Totals	1841.828	138444715	1284898218		

File: 95091421.D53 Sample: 95-7948-C1/QS4D - B22



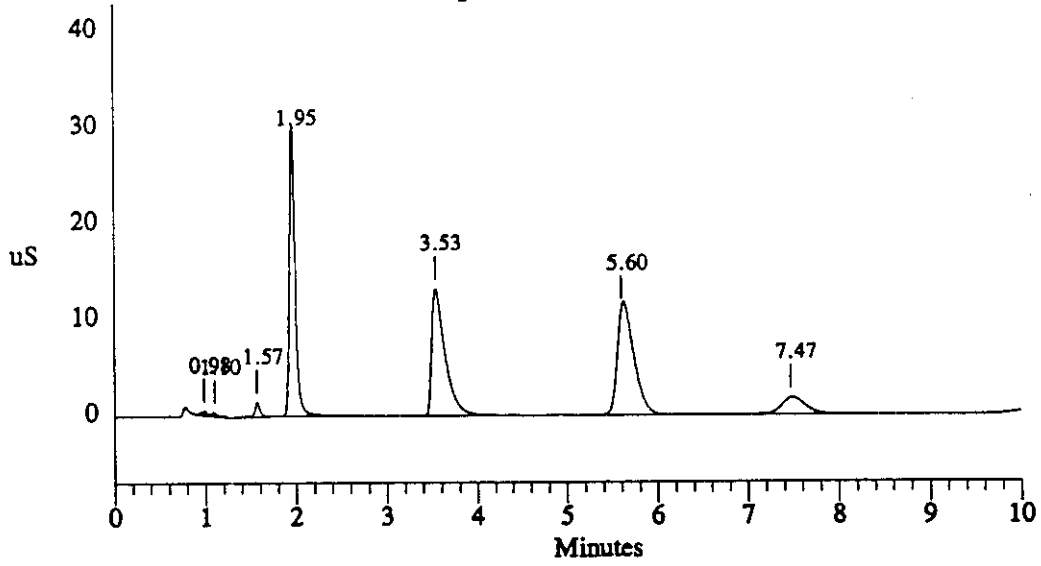
Sample Name: DUP95-7948-C2/QS4D - B23 Date: 09/15/1995 01:08:22
Data File : C:\DX\DATA\9509142\95091421.D54
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 54 Vial:B23 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	7.140	403191	1855690	2	4.26
2	1.10		0.000	363211	2700813	2	
3	1.57	CHLORIDE	19.195	1511969	7469291	1	0.00
4	1.95	NITRITE	390.848	26306102	134922525	1	-0.83
5	3.53	NITRATE	477.447	13174024	135340506	1	0.00
6	5.60	PHOSPHATE	988.329	11064634	149466375	1	-1.89
7	7.47	SULFATE	100.497	1729813	31977625	1	0.00
		Totals	1983.456	54552944	463732824		

File: 95091421.D54 Sample: DUP95-7948-C2/QS4D - B23



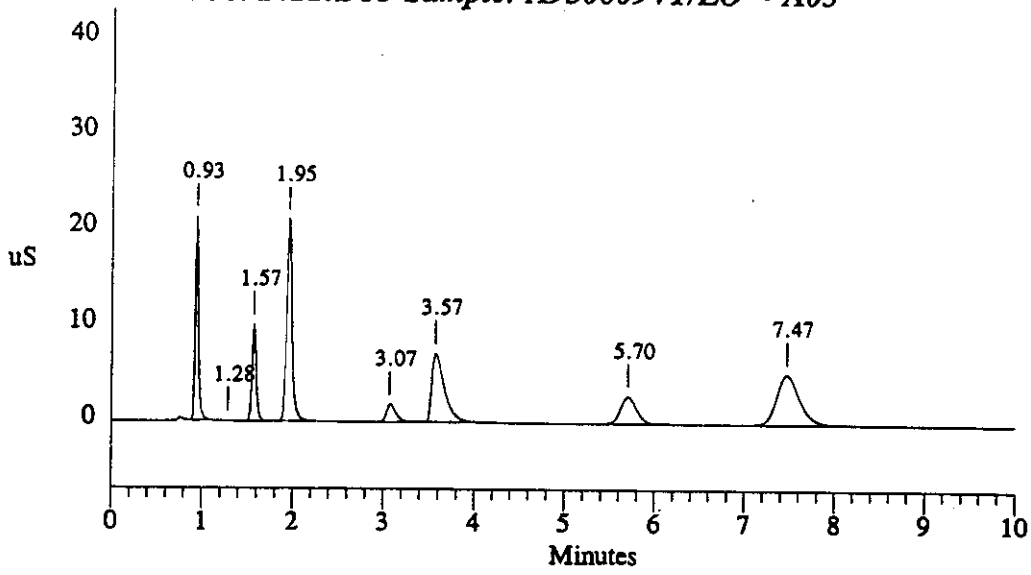
Sample Name: A950609V1/LO - A05 Date: 09/15/1995 01:20:58
Data File : C:\DX\DATA\9509142\95091421.D55
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 55 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.822	21217011	54304150	1	-1.05
2	1.28		0.000	42912	277287	1	
3	1.57	CHLORIDE	26.386	10059245	32870767	1	0.00
4	1.95	NITRITE	106.703	20974528	90451515	1	-0.83
5	3.07	BROMIDE	28.265	1802129	13553321	1	4.26
6	3.57	NITRATE	103.939	7162911	70381162	1	0.00
7	5.70	PHOSPHATE	109.470	2860215	36337268	1	-1.07
8	7.47	SULFATE	107.203	5260636	93523128	1	0.00
		Totals	508.788	69379587	391698598		

File: 95091421.D55 Sample: A950609V1/LO - A05



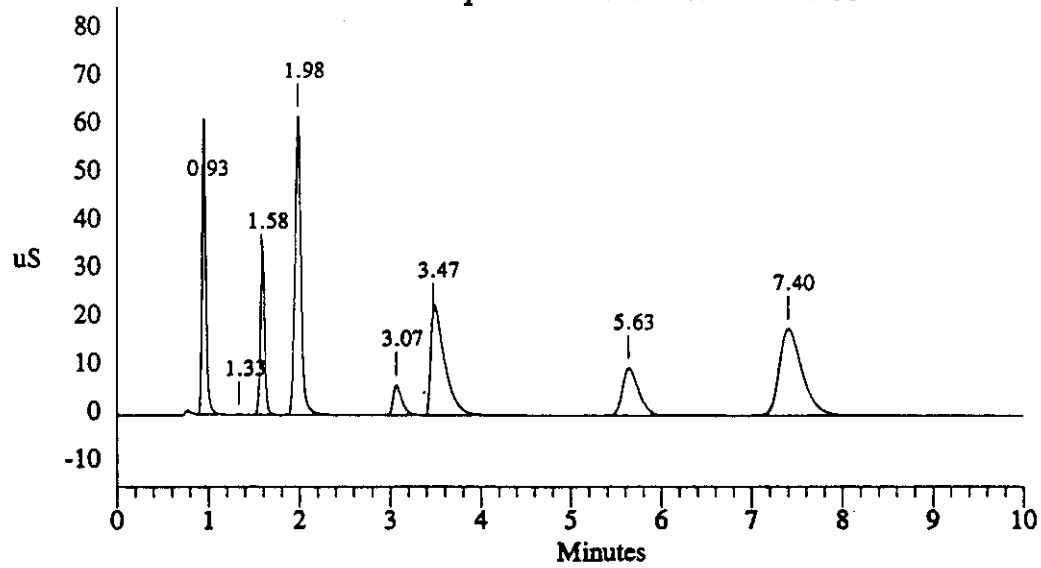
Sample Name: A950609V2/MID - A05 Date: 09/15/1995 01:34:00
Data File : C:\DX\DATA\9509142\95091421.D56
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 56 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.937	41518421	175039853	1	-2.09
2	1.33		0.000	118317	584260	1	
3	1.58	CHLORIDE	27.340	30776145	115248559	1	0.00
4	1.98	NITRITE	109.559	62204197	292263541	1	-0.20
5	3.07	BROMIDE	27.911	6265385	42753829	1	3.16
6	3.47	NITRATE	107.732	20583872	241295385	1	0.00
7	5.63	PHOSPHATE	111.667	9854145	123473513	1	0.60
8	7.40	SULFATE	109.618	18028199	316484405	1	0.00
		Totals	520.764	189348679	1307143345		

File: 95091421.D56 Sample: A950609V2/MID - A05



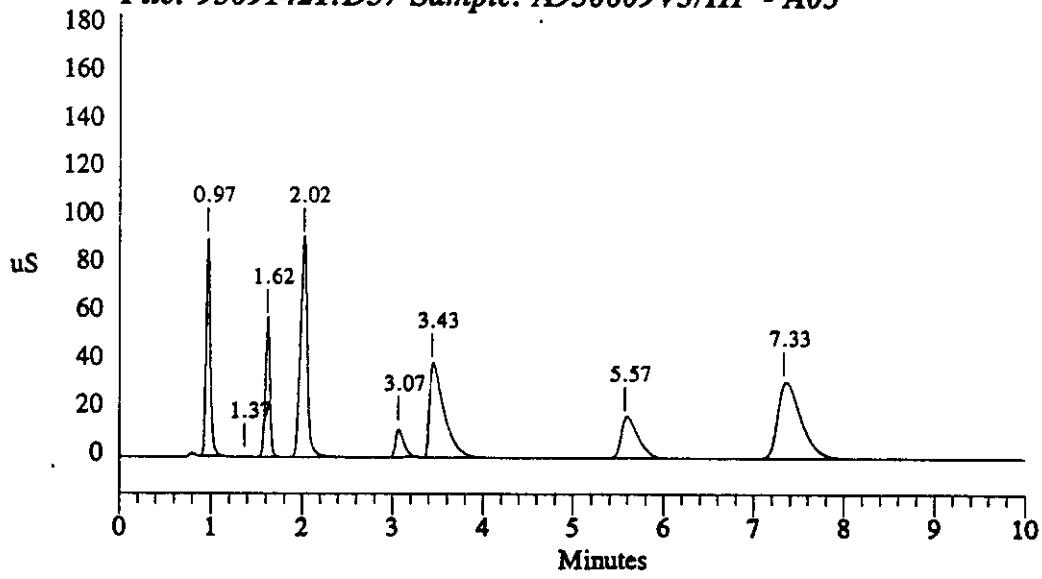
Sample Name: A950609V3/HI - A05 Date: 09/15/1995 01:47:25
Data File : C:\DX\DATA\9509142\95091421.D57
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 57 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	27.037	89885232	300530419	1	-0.68
2	1.37		0.000	150903	818278	1	
3	1.62	CHLORIDE	27.191	56017216	208978207	1	0.00
4	2.02	NITRITE	108.608	90243241	494847345	1	-0.61
5	3.07	BROMIDE	27.593	11555578	75552310	1	1.03
6	3.43	NITRATE	107.289	38007588	437846917	1	0.00
7	5.57	PHOSPHATE	110.745	15989810	225622271	1	0.37
8	7.33	SULFATE	109.068	30946954	576156998	1	0.00
		Totals	517.532	332796521	2320352745		

File: 95091421.D57 Sample: A950609V3/HI - A05

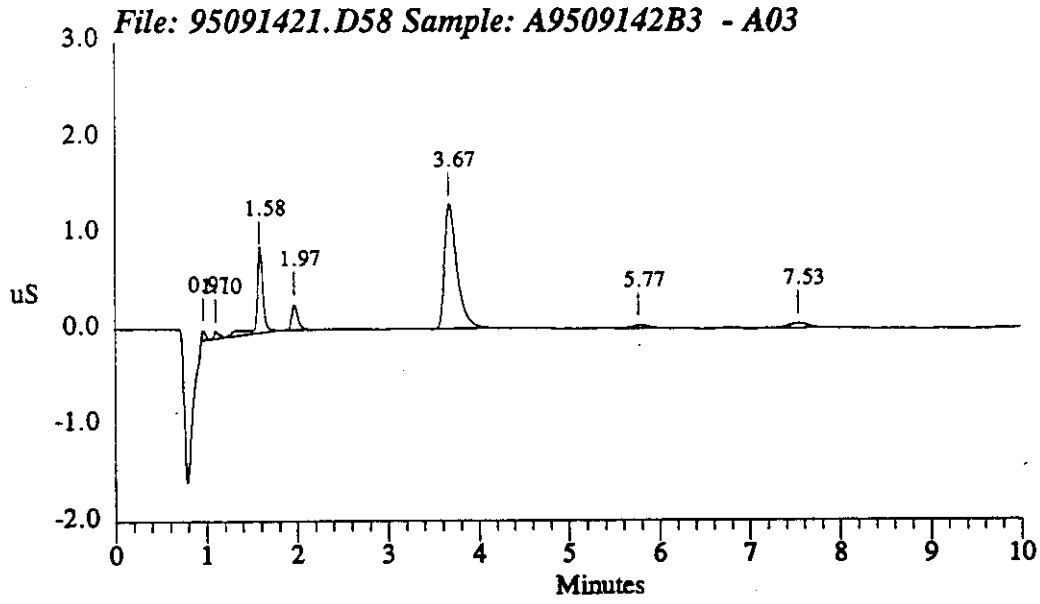


Sample Name: A9509142B3 - A03 Date: 09/15/1995 02:03:53
Data File : C:\DX\DATA\9509142\95091421.D58
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 58 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	0.106	100740	274265	1	1.41
2	1.10		0.000	72829	321112	2	
3	1.58	CHLORIDE	0.271	831711	4480333	2	0.00
4	1.97	NITRITE	0.319	268862	1657580	1	-1.04
5	3.67	NITRATE	1.120	1292752	12393658	1	0.00
6	5.77	PHOSPHATE	0.316	35227	504674	1	-2.64
7	7.53	SULFATE	0.269	53708	869624	1	0.00
		Totals	2.401	2655829	20501246		

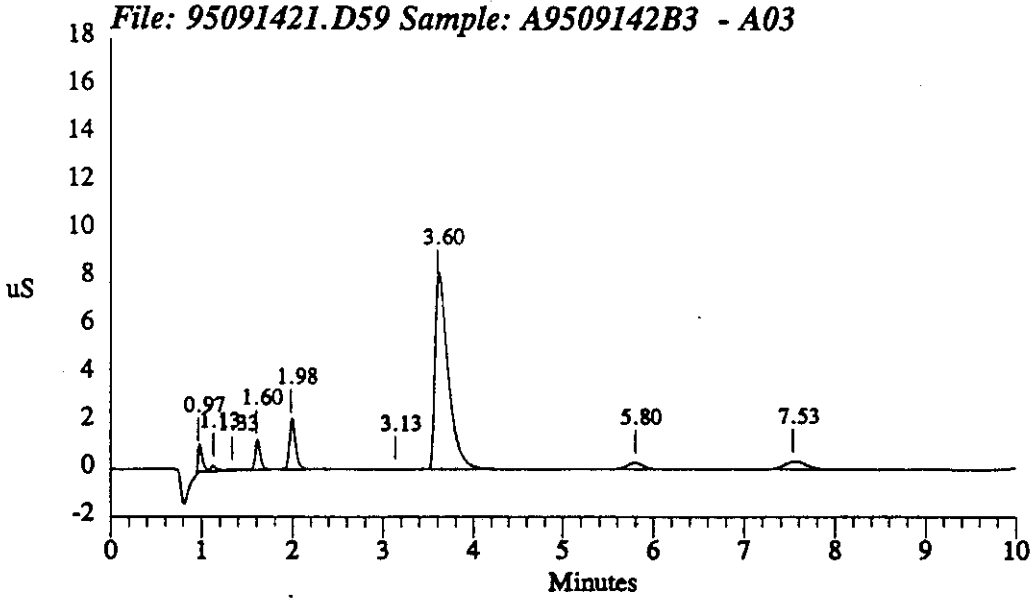


Sample Name: A9509142B3 - A03 Date: 09/15/1995 02:20:14
Data File : C:\DX\DATA\9509142\95091421.D59
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 59 Vial:A03 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	0.188	904488	3830811	2	0.35
2	1.13		0.000	228327	1129473	2	
3	1.33		0.000	74509	915570	2	
4	1.60	CHLORIDE	0.299	1133008	5219928	2	0.00
5	1.98	NITRITE	0.804	1961955	10186659	1	-1.24
6	3.13	BROMIDE	0.026	16588	145235	1	4.30
7	3.60	NITRATE	6.110	7788116	83736417	1	0.00
8	5.80	PHOSPHATE	0.806	277585	3823722	1	-0.26
9	7.53	SULFATE	0.585	331558	6485324	1	0.00
		Totals	8.820	12716136	115473139		



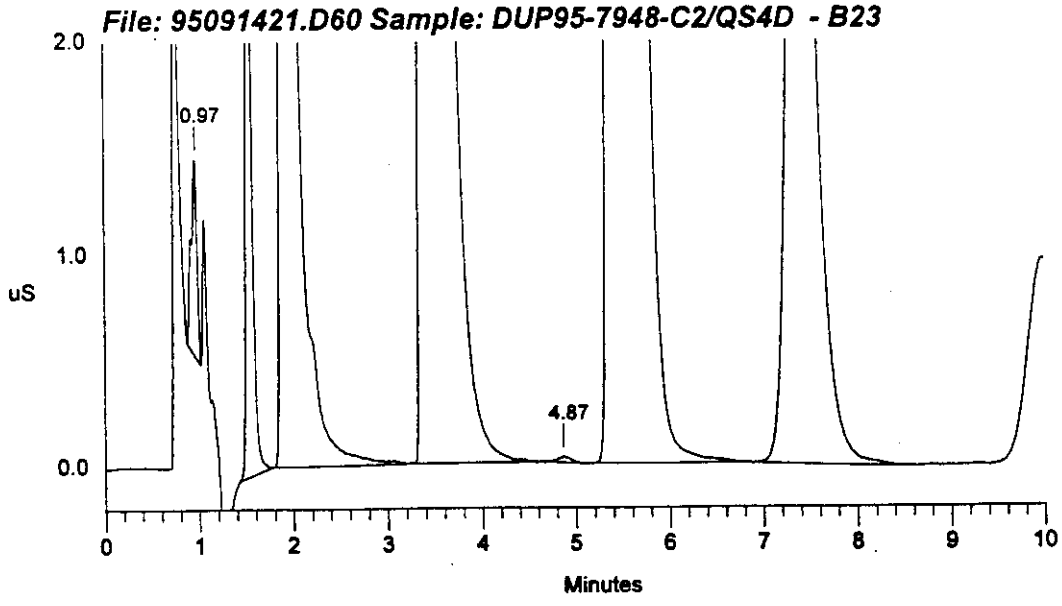
Data Reprocessed On 09/22/1995 00:54:44

Sample Name:	DUP95-7948-C2/QS4D - B23	Date:	09/15/1995 02:32:50
Data File :	C:\DX\DATA\9509142\95091421.D60		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 60 Vial:B23	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.804	928755	3918026	1	4.72
2	1.53	CHLORIDE	13.279	3589717	14971413	1	0.00
3	1.95	NITRITE	428.916	73614212	385999094	1	1.33
4	3.40	NITRATE	524.964	36692306	426193471	1	0.00
5	4.87		0.000	28560	291981	1	
6	5.43	PHOSPHATE	887.800	32481212	485195757	1	-1.07
7	7.40	SULFATE	107.630	4999848	93922733	1	0.00
		Totals	1966.394	152334609	1410492474		



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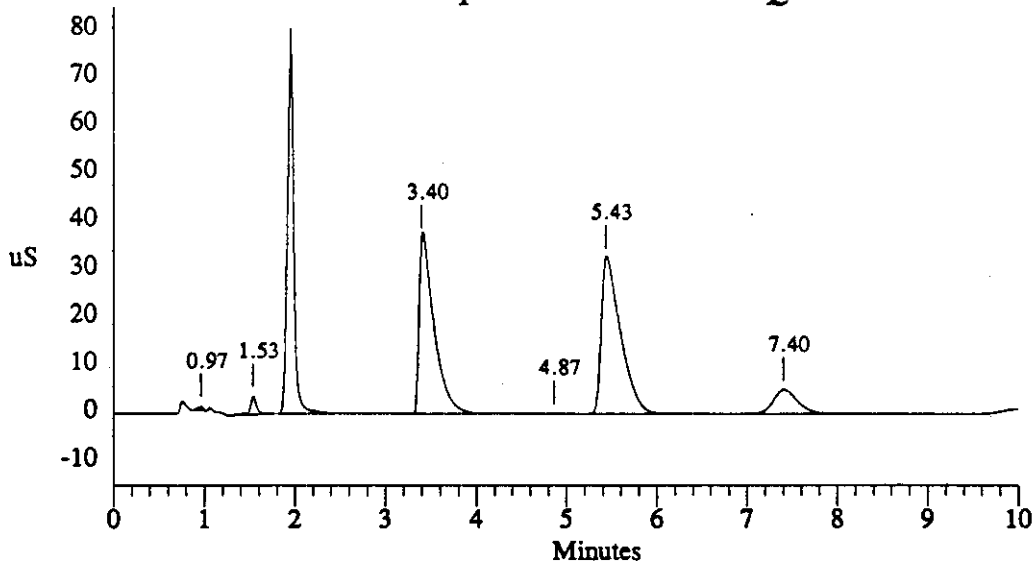
Sample Name: DUP95-7948-C2/QS4D  - B23      Date: 09/15/1995 02:32:50
Data File  : C:\DX\DATA\9509142\95091421.D60
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 60  Vial:B23        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	5	1	3000	5Hz	0.00	10.00	30000	

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.601	858613	3477011	1	4.72
2	1.53	CHLORIDE	16.986	3793396	19983617	1	0.00
3	1.95	NITRITE	428.916	73614212	385999094	1	1.33
4	3.40	NITRATE	524.964	36692306	426193471	1	0.00
5	4.87		0.000	28560	291981	1	
6	5.43	PHOSPHATE	887.800	32481212	485195757	1	-1.07
7	7.40	SULFATE	107.630	4999848	93922733	1	0.00
		Totals	1969.898	152468147	1415063663		

File: 95091421.D60 Sample: DUP95-7948-C2/QS4D - B23



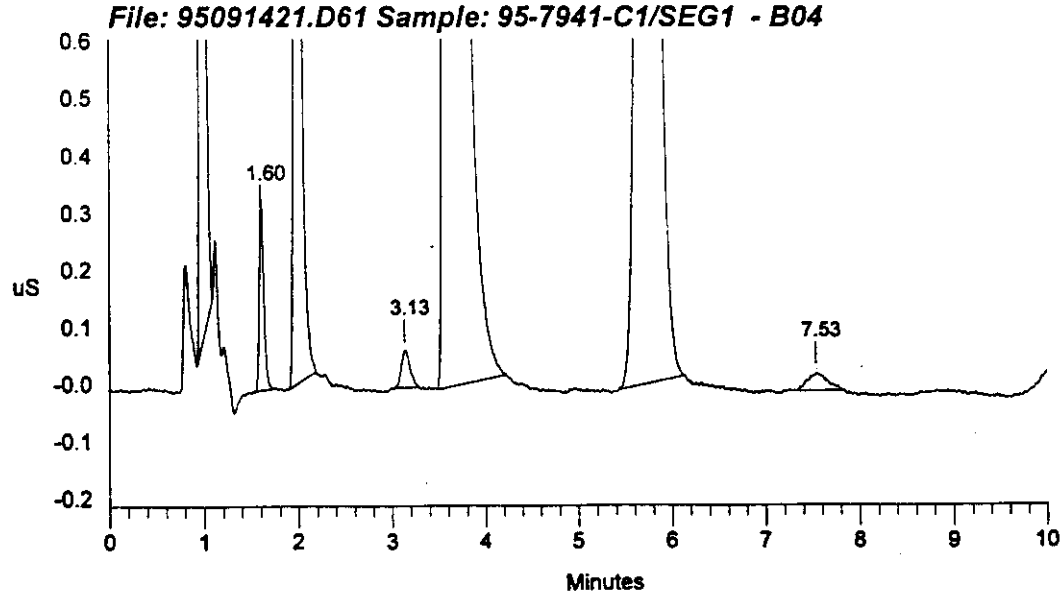
Data Reprocessed On 09/18/1995 08:28:33

Sample Name: 95-7941-C1/SEG1 - B04		Date: 09/15/1995 02:45:19	
Data File : C:\DX\DATA\9509142\95091421.D61			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 61 Vial:B04			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	67.969	6281105	25271085	1	0.35
2	1.60	CHLORIDE	14.509	304875	1139063	1	0.00
3	1.98	NITRITE	91.834	2518118	12195992	1	-1.24
4	3.13	BROMIDE	5.596	63118	423418	1	4.30
5	3.60	NITRATE	567.068	7411480	77290963	1	0.00
6	5.73	PHOSPHATE	669.728	3644695	45163249	1	-1.41
7	7.53	SULFATE	24.452	29611	442082	1	0.00
		Totals	1441.156	20253003	161925852		



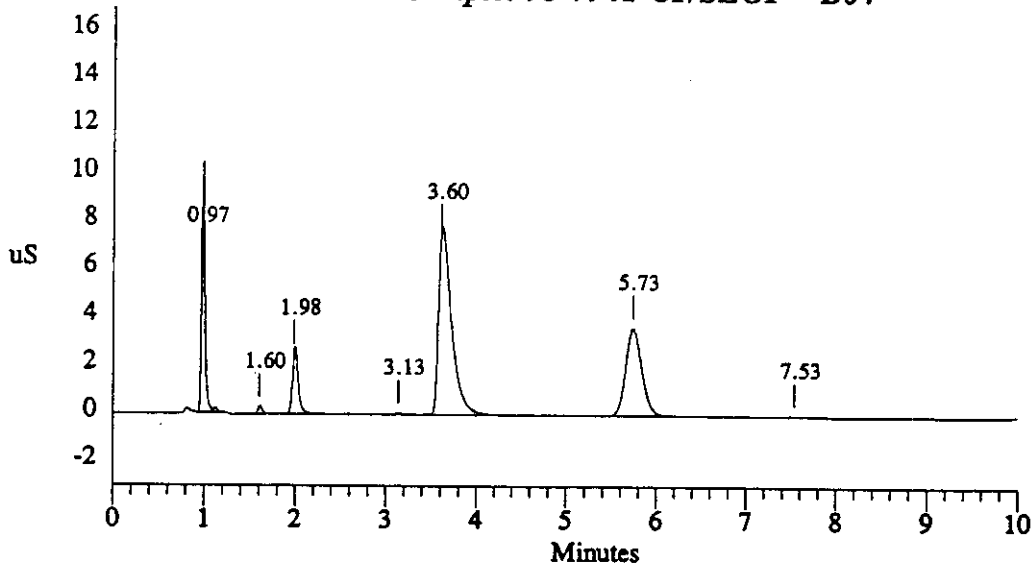
Sample Name: 95-7941-C1/SEG1 - B04 Date: 09/15/1995 02:45:19
Data File : C:\DX\DATA\9509142\95091421.D61
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 61 Vial:B04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	70.940	6308187	26570646	1	0.35
2	1.60	CHLORIDE	16.247	321947	1597853	1	0.00
3	1.98	NITRITE	95.714	2527787	12878637	1	-1.24
4	3.13	BROMIDE	6.371	67045	496643	1	4.30
5	3.60	NITRATE	573.439	7416657	78223101	1	0.00
6	5.73	PHOSPHATE	686.222	3660025	46362991	1	-1.41
7	7.53	SULFATE	24.673	31548	481126	1	0.00
		Totals	1473.606	20333195	166610998		

File: 95091421.D61 Sample: 95-7941-C1/SEG1 - B04



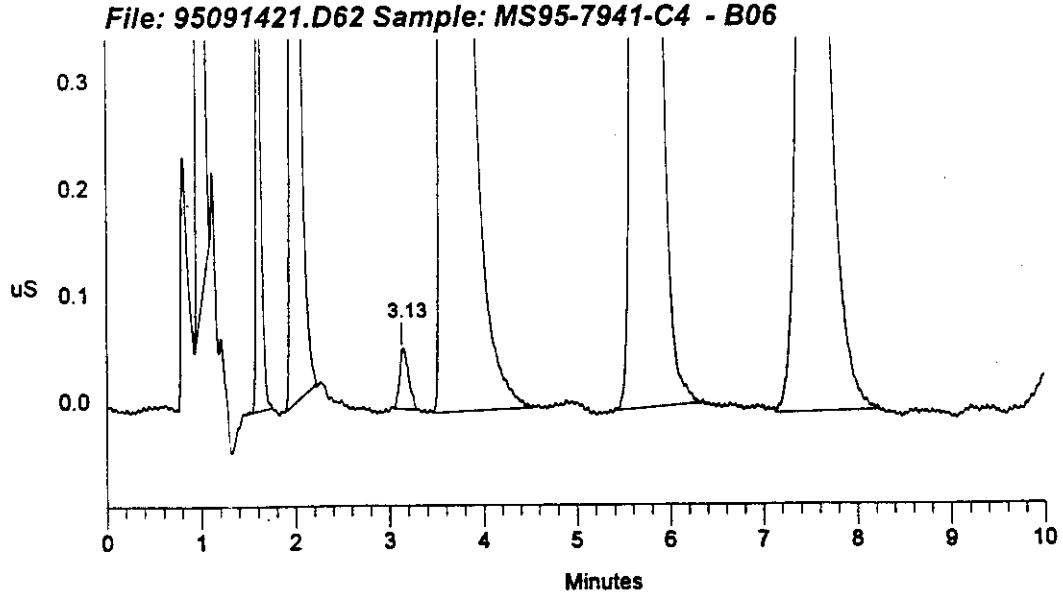
Data Reprocessed On 09/18/1995 08:30:03

Sample Name: MS95-7941-C4 - B06		Date: 09/15/1995 02:57:45	
Data File : C:\DX\DATA\9509142\95091421.D62			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 62 Vial:B06			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	69.074	10113682	25754604	1	1.03
2	1.62	CHLORIDE	17.537	571247	1938494	1	0.00
3	2.00	NITRITE	114.650	3683406	16211205	1	-1.43
4	3.13	BROMIDE	5.137	50934	380184	1	3.23
5	3.60	NITRATE	652.194	8323720	89802812	1	0.00
6	5.73	PHOSPHATE	670.395	3589210	45211684	1	-1.41
7	7.53	SULFATE	140.764	1163189	21152137	1	0.00
		Totals	1669.751	27495389	200451120		



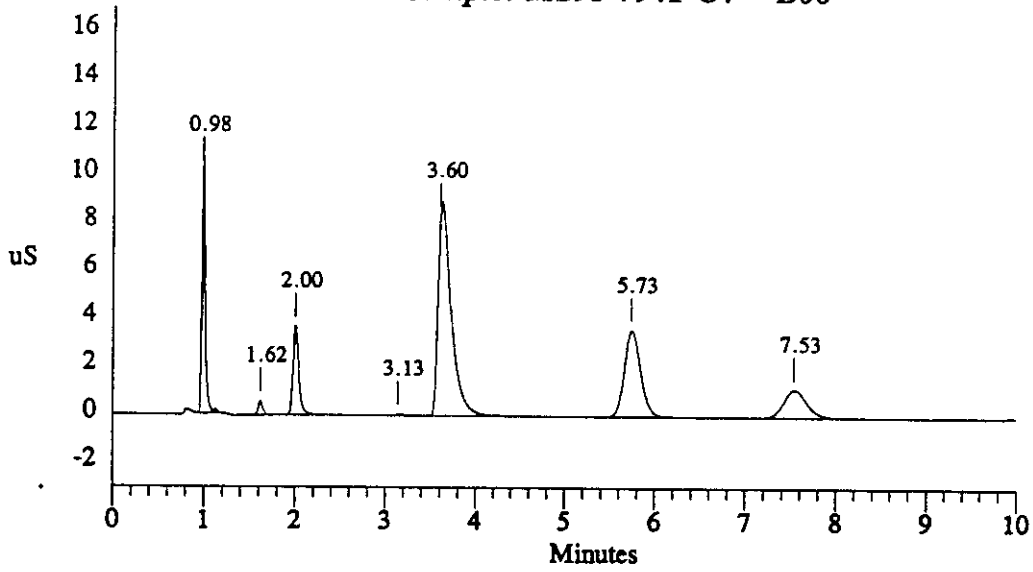
Sample Name: MS95-7941-C4 - B06 Date: 09/15/1995 02:57:45
Data File : C:\DX\DATA\9509142\95091421.D62
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 62 Vial:B06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	71.212	10142205	26689771	1	1.03
2	1.62	CHLORIDE	19.466	590412	2448200	1	0.00
3	2.00	NITRITE	118.449	3692422	16880007	1	-1.43
4	3.13	BROMIDE	6.102	55014	471224	1	3.23
5	3.60	NITRATE	655.328	8324413	90265922	1	0.00
6	5.73	PHOSPHATE	677.569	3592946	45733300	1	-1.41
7	7.53	SULFATE	140.064	1159583	21026664	1	0.00
		Totals	1688.190	27556995	203515089		

File: 95091421.D62 Sample: MS95-7941-C4 - B06



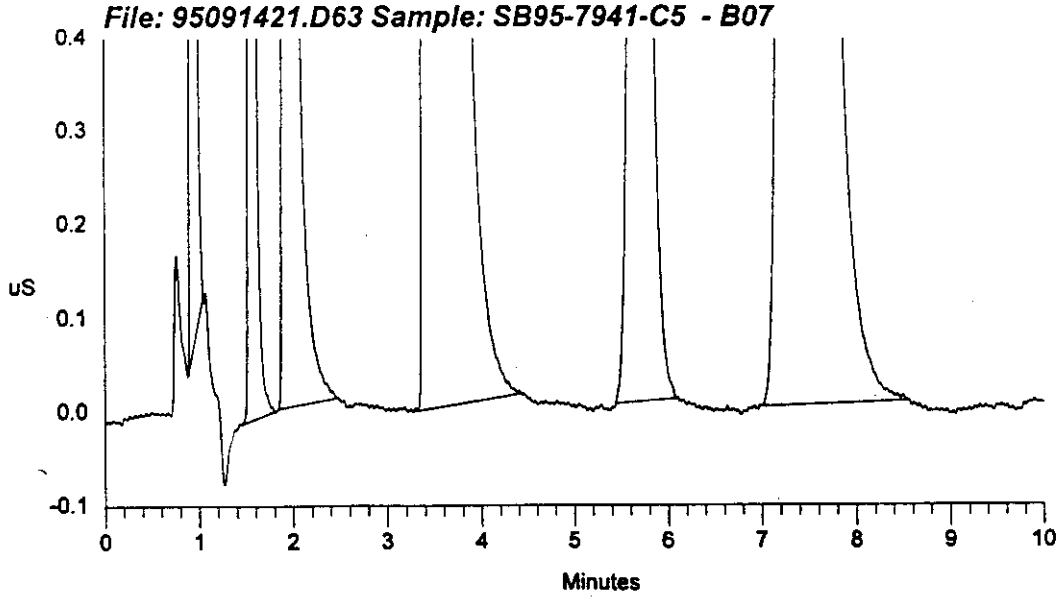
Data Reprocessed On 09/18/1995 08:35:02

Sample Name: SB95-7941-C5 - B07		Date: 09/15/1995 03:10:34	
Data File : C:\DX\DATA\9509142\95091421.D63			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 63 Vial:B07			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	5.337	7232537	18892727	1	-1.05
2	1.57	CHLORIDE	6.185	3957262	13748117	1	0.00
3	1.95	NITRITE	48.043	17781793	80985863	1	-0.83
4	3.43	NITRATE	216.386	26447410	337498987	1	0.00
5	5.70	PHOSPHATE	36.415	1852605	23366290	1	2.77
6	7.37	SULFATE	156.021	16469621	298330130	1	0.00
		Totals	468.388	73741228	772822114		



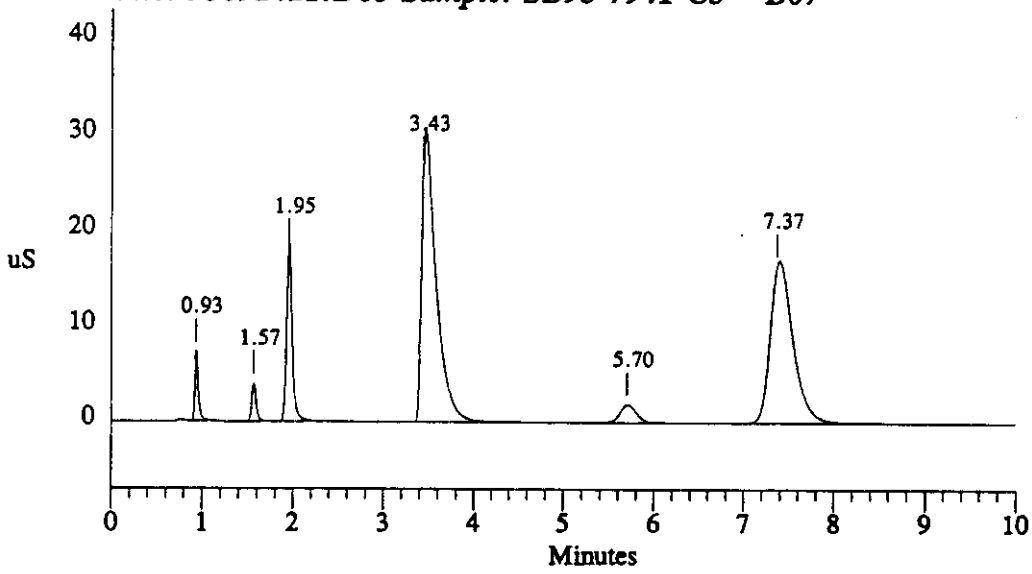
Sample Name: SB95-7941-C5 - B07 Date: 09/15/1995 03:10:34
Data File : C:\DX\DATA\9509142\95091421.D63
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 63 Vial:B07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	5.485	7256963	19537386	1	-1.05
2	1.57	CHLORIDE	6.433	3980230	14413839	1	0.00
3	1.95	NITRITE	48.215	17786466	81292779	1	-0.83
4	3.43	NITRATE	216.641	26449069	337967226	1	0.00
5	5.70	PHOSPHATE	37.214	1862741	23925891	1	2.77
6	7.37	SULFATE	156.386	16474767	299112015	1	0.00
		Totals	470.373	73810237	776249136		

File: 95091421.D63 Sample: SB95-7941-C5 - B07

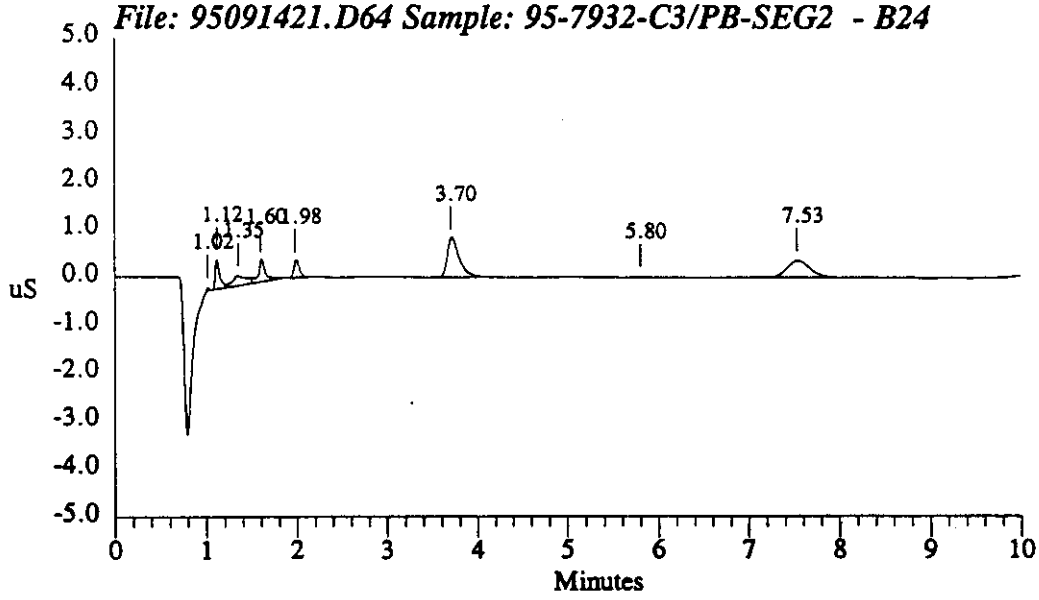


Sample Name: 95-7932-C3/PB-SEG2 - B24 Date: 09/15/1995 03:27:02
Data File : C:\DX\DATA\9509142\95091421.D64
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 64 Vial:B24 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02	FLUORIDE	0.102	58419	89306	1	5.54
2	1.12		0.000	618235	2158537	2	
3	1.35		0.000	207117	2217930	2	
4	1.60	CHLORIDE	0.203	427006	2672354	2	0.00
5	1.98	NITRITE	0.319	332495	1668428	1	-1.24
6	3.70	NITRATE	0.808	801050	8056818	1	0.00
7	5.80	PHOSPHATE	0.276	20934	231636	1	-2.96
8	7.53	SULFATE	0.588	354526	6524571	1	0.00
		Totals	2.296	2819782	23619579		



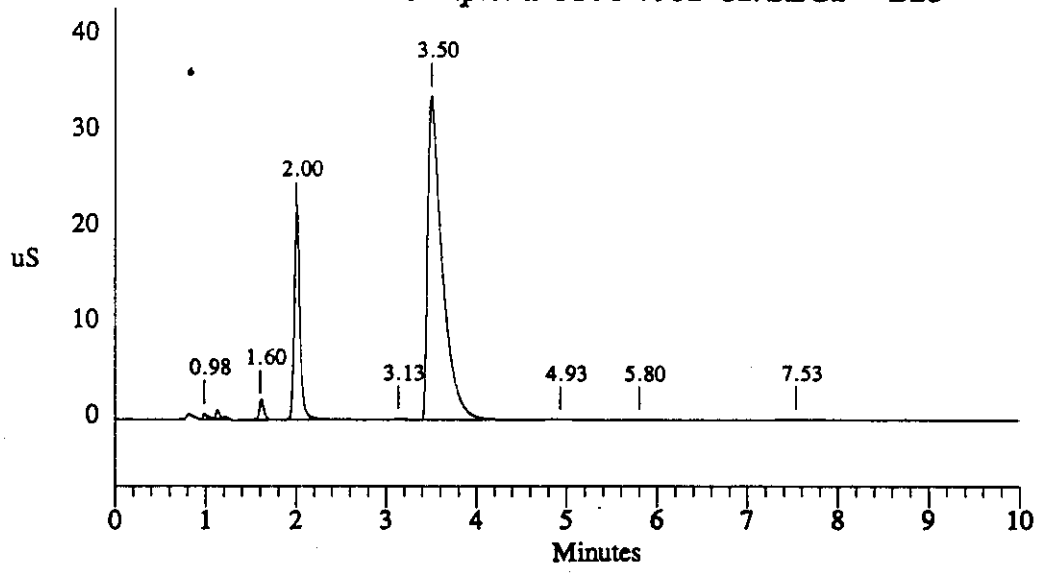
Sample Name: DUP95-7932-C2/SEG2 - B25 Date: 09/15/1995 03:39:27
Data File : C:\DX\DATA\9509142\95091421.D65
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 65 Vial:B25 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	24.120	616882	6137295	1	2.08
2	1.60	CHLORIDE	43.462	1759364	8821736	1	0.00
3	2.00	NITRITE	573.319	21398656	97559259	1	-0.41
4	3.13	BROMIDE	8.237	99899	672774	1	4.30
5	3.50	NITRATE	2365.737	33849993	375345311	1	0.00
6	4.93		0.000	28577	284039	1	
7	5.80	PHOSPHATE	32.483	38841	564195	1	2.59
8	7.53	SULFATE	33.333	94681	2014423	1	0.00
		Totals	3080.690	57886893	491399032		

File: 95091421.D65 Sample: DUP95-7932-C2/SEG2 - B25



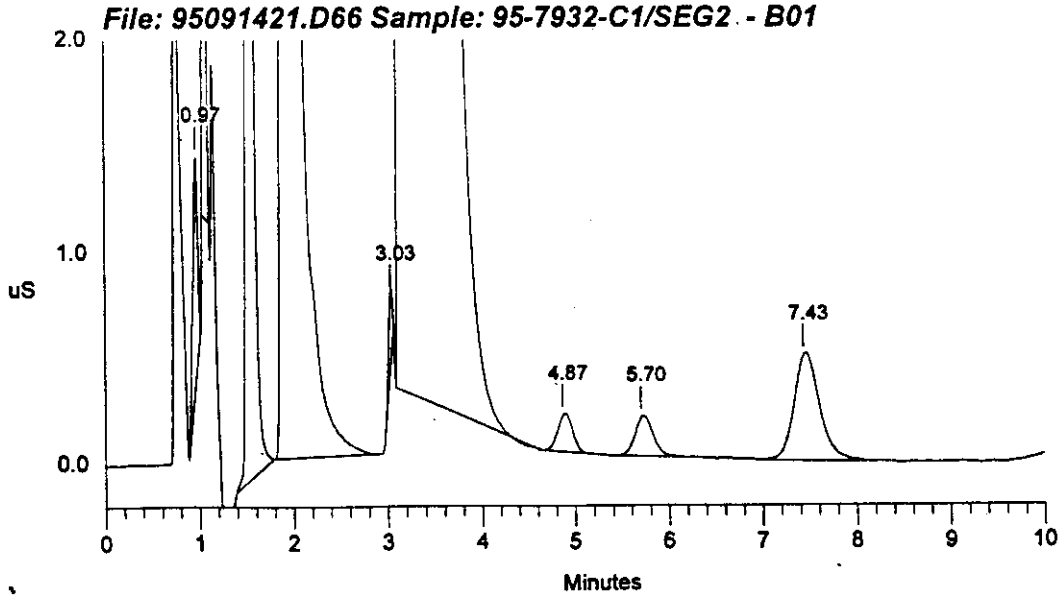
Data Reprocessed On 09/22/1995 00:35:27

Sample Name: 95-7932-C1/SEG2 - B01		Date: 09/15/1995 03:52:04	
Data File : C:\DX\DATA\9509142\95091421.D66			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 66 Vial:B01			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.820	1055212	3951518	1	5.07
2	1.08		0.000	2302773	9312333	1	
3	1.53	CHLORIDE	34.370	9521394	44025656	1	0.00
4	1.97	NITRITE	588.583	93321081	538948017	1	2.19
5	3.03	BROMIDE	2.228	337764	947196	1	5.36
6	3.20	NITRATE	358.923	168634309	2422088842	1	0.00
7	4.87		0.000	162727	1960010	1	
8	5.70	PHOSPHATE	12.379	176878	2552718	1	4.66
9	7.43	SULFATE	15.220	489206	9606908	1	0.00
		Totals	1015.523	276001344	3033393198		



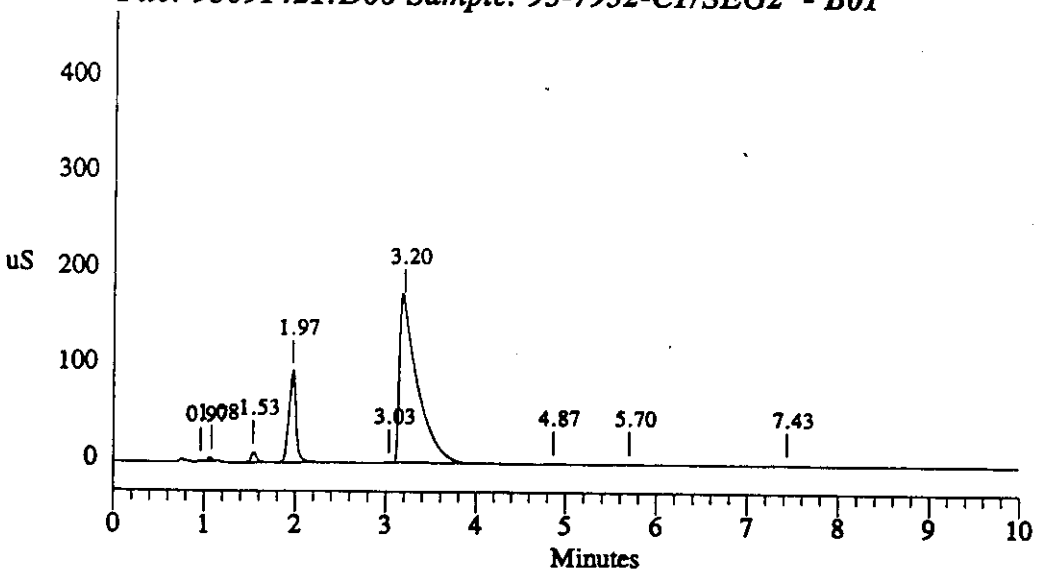
Sample Name: 95-7932-C1/SEG2 - B01 Date: 09/15/1995 03:52:04
Data File : C:\DX\DATA\9509142\95091421.D66
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 66 Vial:B01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.820	1055212	3951518	1	4.72
2	1.08		0.000	2302773	9312333	1	
3	1.53	CHLORIDE	37.756	9719260	48817083	1	0.00
4	1.97	NITRITE	588.583	93321081	538948017	1	2.19
5	3.03	BROMIDE	2.228	337764	947196	1	5.36
6	3.20	NITRATE	379.970	168263174	2403758730	1	0.00
7	4.87	PHOSPHATE	10.628	162727	1960010	1	-5.85
8	5.70		0.000	177380	2669577	1	
9	7.43	SULFATE	15.220	489206	9606908	1	0.00
		Totals	1038.204	275828578	3019971371		

File: 95091421.D66 Sample: 95-7932-C1/SEG2 - B01



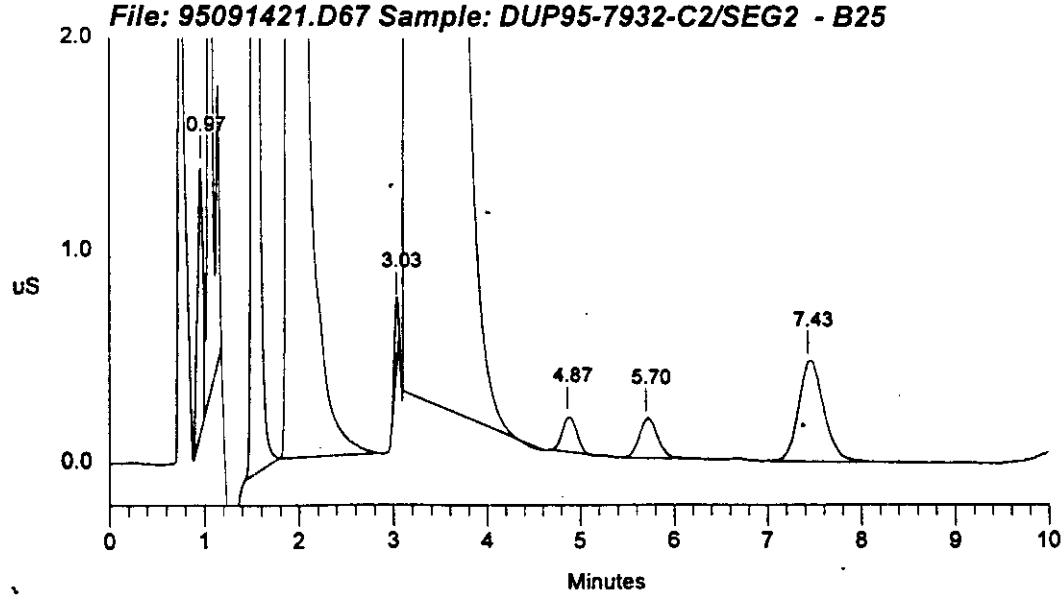
Data Reprocessed On 09/22/1995 00:37:54

Sample Name: DUP95-7932-C2/SEG2 - B25		Date: 09/15/1995 04:04:40	
Data File : C:\DX\DATA\9509142\95091421.D67			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 67 Vial:B25			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.227	1237147	4838075	2	5.07
2	1.07		0.000	4419667	16117996	2	
3	1.53	CHLORIDE	32.707	9386545	41685904	1	0.00
4	1.97	NITRITE	564.360	92426195	515442889	1	2.19
5	3.03	BROMIDE	2.085	318275	879615	1	5.36
6	3.20	NITRATE	488.278	164150489	2303890848	1	0.00
7	4.87		0.000	156276	1760540	1	
8	5.70	PHOSPHATE	12.505	177726	2595240	1	4.66
9	7.43	SULFATE	14.586	466707	9042973	1	0.00
		Totals	1118.748	272739026	2896254080		



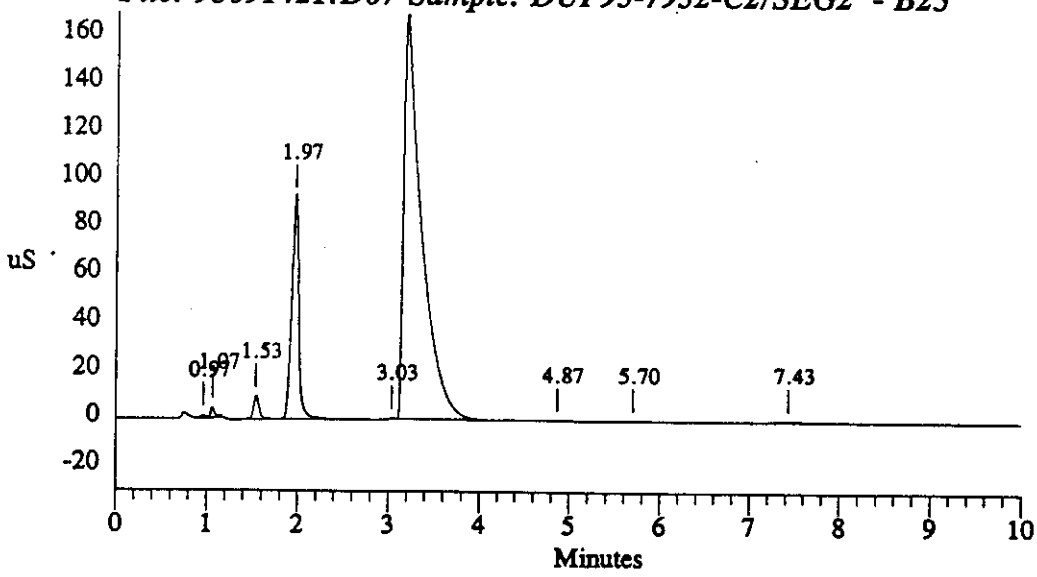
Sample Name: DUP95-7932-C2/SEG2 - B25 Date: 09/15/1995 04:04:40
Data File : C:\DX\DATA\9509142\95091421.D67
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 67 Vial:B25 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.227	1237147	4838075	2	4.72
2	1.07		0.000	4419667	16117996	2	
3	1.53	CHLORIDE	36.939	9631842	47656718	1	0.00
4	1.97	NITRITE	564.360	92426195	515442889	1	2.19
5	3.03	BROMIDE	2.085	318275	879615	1	5.36
6	3.20	NITRATE	488.278	164150489	2303890848	1	0.00
7	4.87	PHOSPHATE	10.038	156276	1760540	1	-5.85
8	5.70		0.000	177726	2595240	1	
9	7.43	SULFATE	14.586	466707	9042973	1	0.00
		Totals	1120.512	272984324	2902224894		

File: 95091421.D67 Sample: DUP95-7932-C2/SEG2 - B25



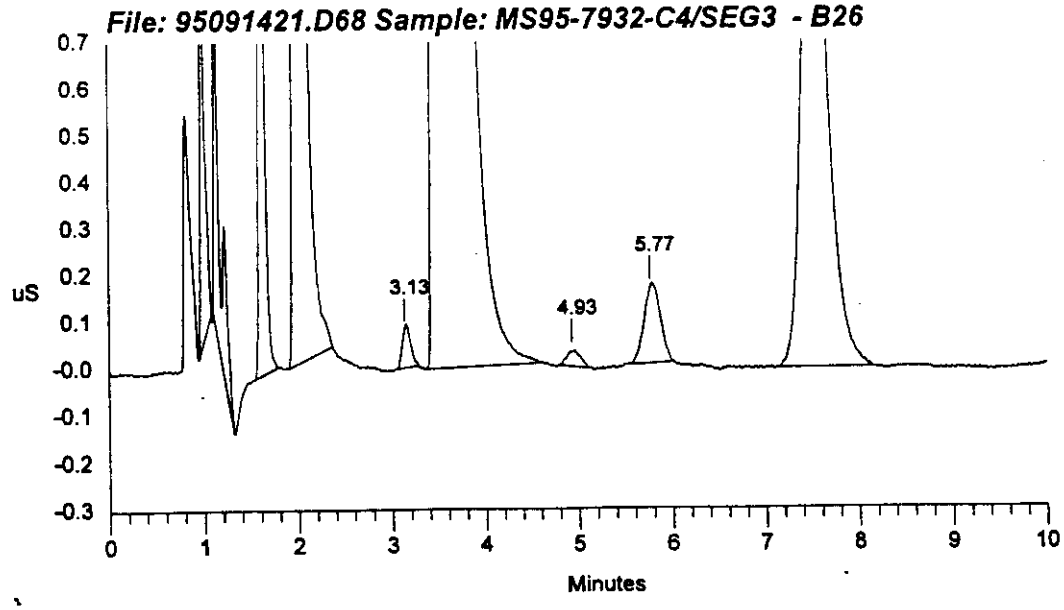
Data Reprocessed On 09/18/1995 08:40:25

Sample Name: MS95-7932-C4/SEG3 - B26		Date: 09/15/1995 04:17:07	
Data File : C:\DX\DATA\9509142\95091421.D68			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 68 Vial:B26			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	16.902	794447	2996133	1	1.03
2	1.15		0.000	603888	3407740	1	
3	1.62	CHLORIDE	40.540	2231027	8042426	1	0.00
4	2.02	NITRITE	572.431	22479803	97400621	1	-0.61
5	3.13	BROMIDE	7.206	79853	575425	1	3.23
6	3.50	NITRATE	2387.626	33904543	379537790	1	0.00
7	4.93		0.000	32133	345502	1	
8	5.77	PHOSPHATE	54.660	160120	2062977	1	2.00
9	7.53	SULFATE	158.463	1343873	24325934	1	0.00
		Totals	3237.828	61629688	518694548		



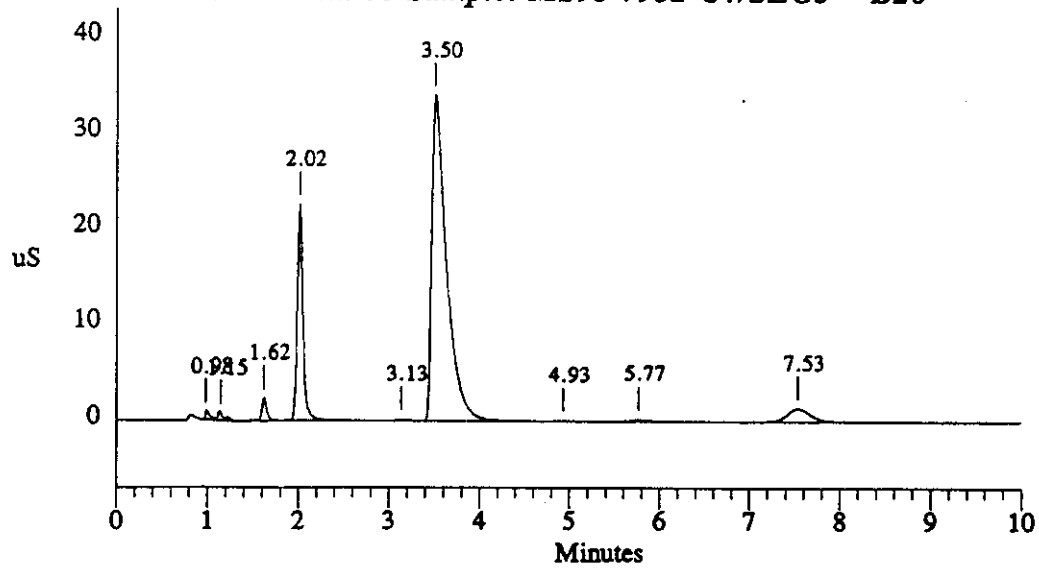
Sample Name: MS95-7932-C4/SEG3 - B26 Date: 09/15/1995 04:17:07
Data File : C:\DX\DATA\9509142\95091421.D68
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 68 Vial:B26 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	17.103	751767	3083909	2	1.03
2	1.15		0.000	694784	4194826	2	
3	1.62	CHLORIDE	45.922	2282144	9478633	1	0.00
4	2.02	NITRITE	579.068	22492373	98586711	1	-0.61
5	3.13	BROMIDE	7.623	81574	614846	1	3.23
6	3.50	NITRATE	2388.638	33905039	379732186	1	0.00
7	4.93		0.000	33854	366216	1	
8	5.77	PHOSPHATE	64.238	172358	2711323	1	2.00
9	7.53	SULFATE	159.937	1347064	24590519	1	0.00
		Totals	3262.530	61760956	523359170		

File: 95091421.D68 Sample: MS95-7932-C4/SEG3 - B26



Data Reprocessed On 09/21/1995 00:36:25

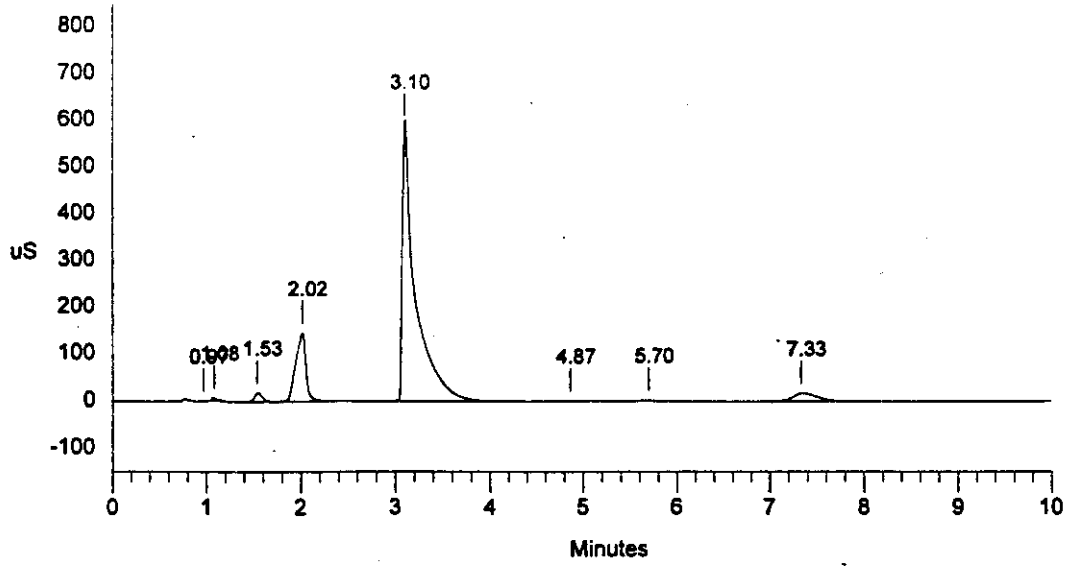
Sample Name:	MS95-7932-C4/SEG2 - B26	Date:	09/15/1995 04:29:56
Data File :	C:\DX\DATA\9509142\95091421.d69		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 69 Vial:B26	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.021	1293732	4433780	1	4.72
2	1.08		0.000	6888588	26143578	1	
3	1.53	CHLORIDE	38.330	18801962	106784938	1	0.00
4	2.02	NITRITE	569.820	145191351	1107374592	1	4.79
5	3.10	BROMIDE	-58534.541	589340455	5706624892	1	7.68
6	4.87		0.000	306253	3575567	1	
7	5.70	PHOSPHATE	41.475	2159845	26920434	1	1.79
8	7.33	SULFATE	168.318	17361328	324967824	1	0.00
		Totals	-57714.578	781343513	7306825603		

File: 95091421.d69 Sample: MS95-7932-C4/SEG2 - B26



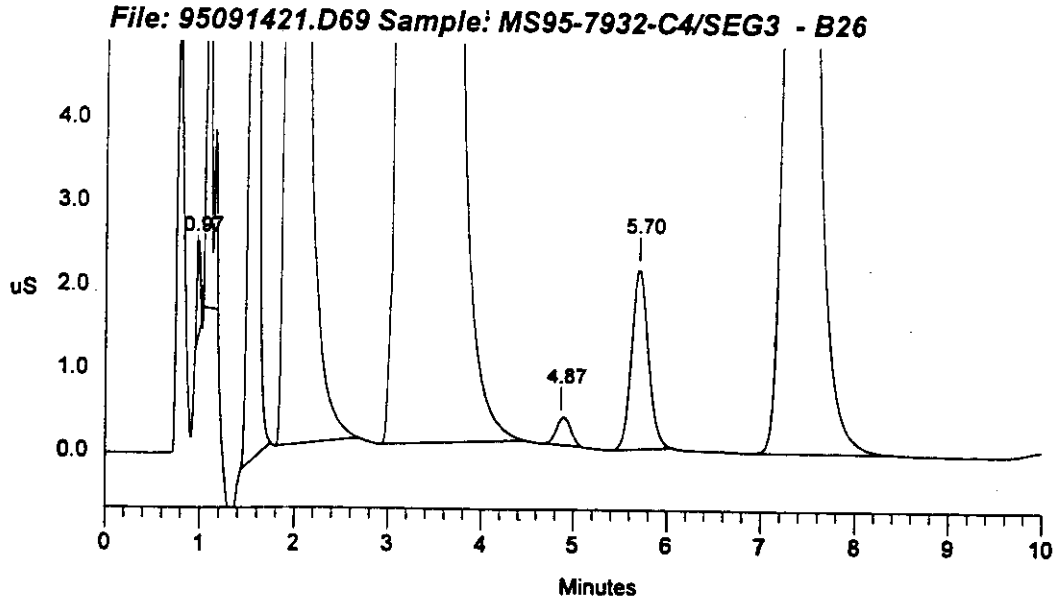
Data Reprocessed On 09/18/1995 08:37:02

Sample Name: MS95-7932-C4/SEG3 - B26		Date: 09/15/1995 04:29:56	
Data File : C:\DX\DATA\9509142\95091421.D69			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 69 Vial:B26			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	1.649	879643	2815834	1	4.72
2	1.08		0.000	6888588	26143578	1	
3	1.53	CHLORIDE	38.708	18850910	107973249	1	0.00
4	2.02	NITRITE	572.355	145260705	1112945580	1	4.79
5	3.10	BROMIDE	-58534.541	589340455	5706624892	1	7.68
6	4.87		0.000	306253	3575567	1	
7	5.70	PHOSPHATE	41.539	2161532	26965866	1	1.79
8	7.33	SULFATE	168.318	17361328	324967824	1	0.00
		Totals	-57711.972	781049415	7312012388		



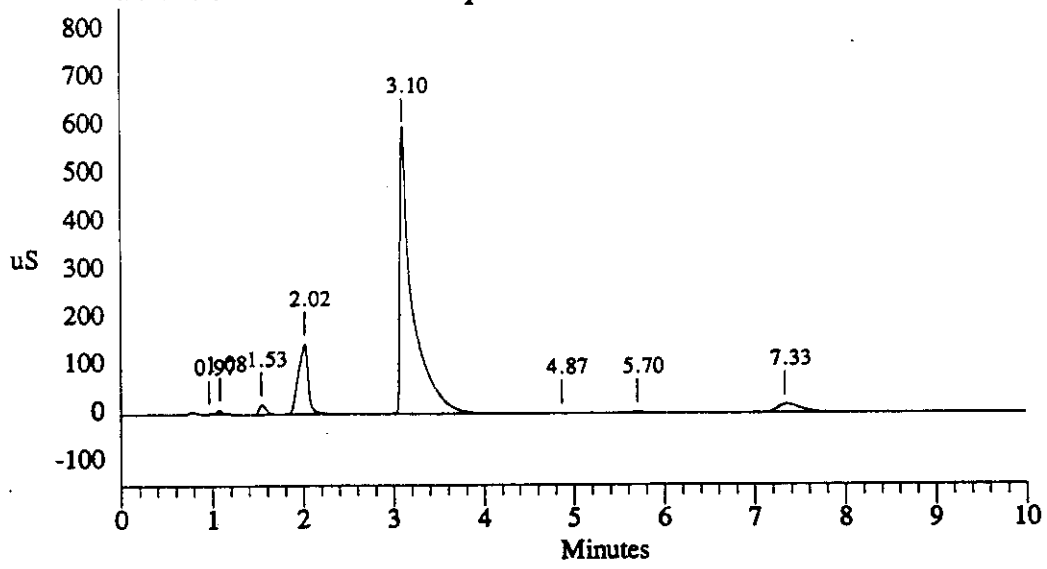
Sample Name: MS95-7932-C4/SEG3 - B26 Date: 09/15/1995 04:29:56
Data File : C:\DX\DATA\9509142\95091421.D69
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 69 Vial:B26 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	10	1	3000	5Hz	0.00	10.00	30000	

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	2.610	1713288	6997690	2	4.72
2	1.08		0.000	7484457	30300631	2	
3	1.53	CHLORIDE	41.202	19247570	115858170	1	0.00
4	2.02	NITRITE	573.499	145279561	1115462095	1	4.79
5	3.10	BROMIDE	-58572.065	589344123	5708363776	1	7.68
6	4.87		0.000	310195	3690638	1	
7	5.70	PHOSPHATE	43.640	2182194	28448031	1	1.79
8	7.33	SULFATE	168.669	17365113	325736917	1	0.00
		Totals	-57742.445	782926502	7334857948		

File: 95091421.D69 Sample: MS95-7932-C4/SEG3 - B26



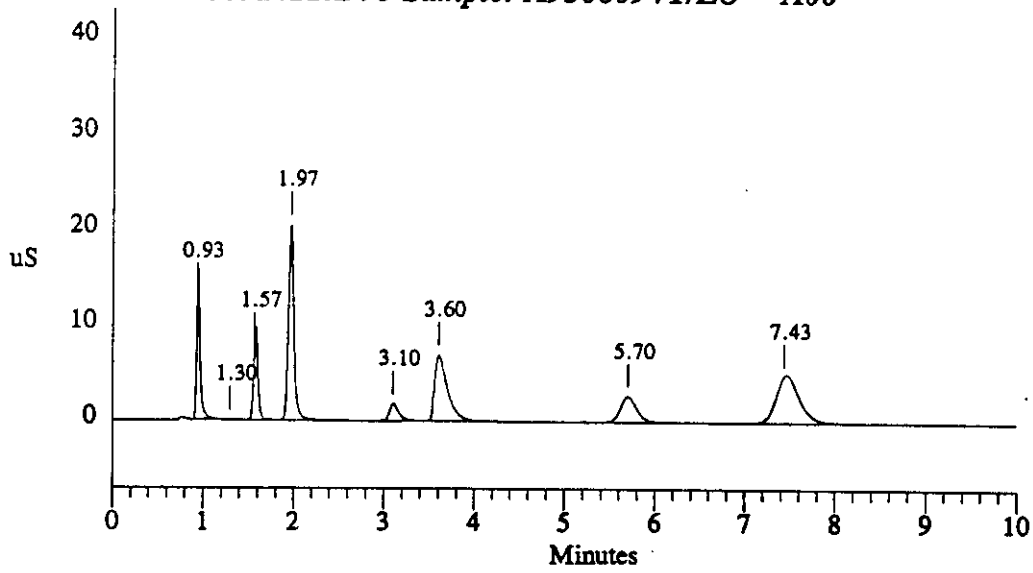
Sample Name: A950609V1/LO - A06 Date: 09/15/1995 04:42:32
Data File : C:\DX\DATA\9509142\95091421.D70
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 70 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	5	1	3000	5Hz	0.00	10.00	30000	

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	21.662	12891470	42955116	3	-1.05
2	1.30		0.000	64837	435280	4	
3	1.57	CHLORIDE	25.671	7803409	31881699	1	0.00
4	1.97	NITRITE	104.569	20525552	88547863	1	0.02
5	3.10	BROMIDE	27.234	1792962	13042672	1	5.39
6	3.60	NITRATE	101.839	6931737	68854761	1	0.00
7	5.70	PHOSPHATE	104.221	2687077	34461700	1	-1.98
8	7.43	SULFATE	103.806	4903484	90346086	1	0.00
		Totals	489.004	57600530	370525177		

File: 95091421.D70 Sample: A950609V1/LO - A06



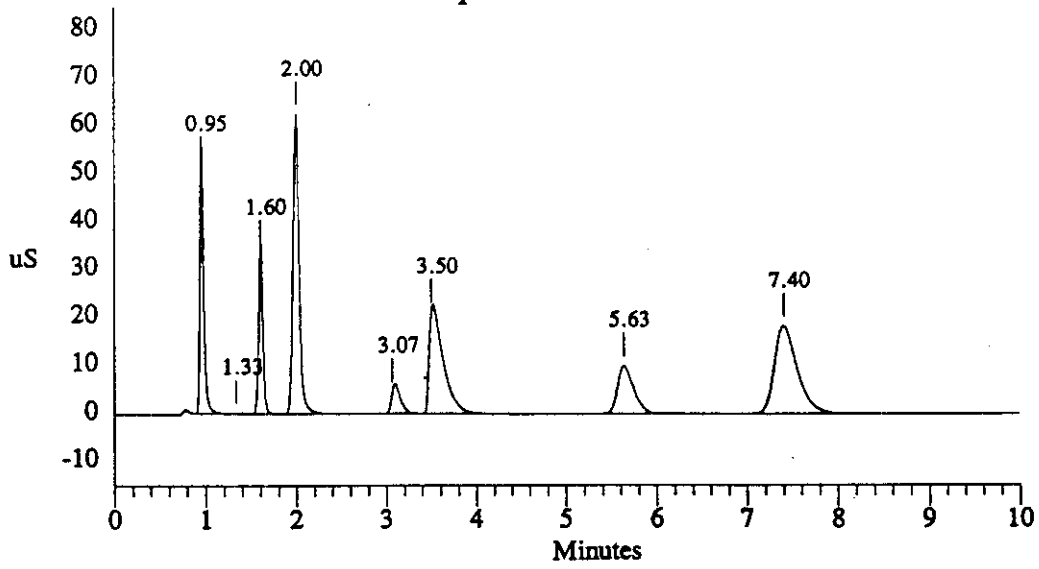
Sample Name: A950609V2/MID - A06 Date: 09/15/1995 04:55:34
Data File : C:\DX\DATA\9509142\95091421.D71
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 71 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	25.615	50856584	166038452	2	-1.38
2	1.33		0.000	126012	739198	2	
3	1.60	CHLORIDE	27.481	33540533	115919842	1	0.00
4	2.00	NITRITE	110.393	62547482	294584290	1	-0.41
5	3.07	BROMIDE	28.117	4576411	43100726	1	2.08
6	3.50	NITRATE	108.211	21150127	242501146	1	0.00
7	5.63	PHOSPHATE	112.424	9941305	124428268	1	-0.36
8	7.40	SULFATE	110.399	18222419	319033951	1	0.00
		Totals	522.639	200960873	1306345874		

File: 95091421.D71 Sample: A950609V2/MID - A06



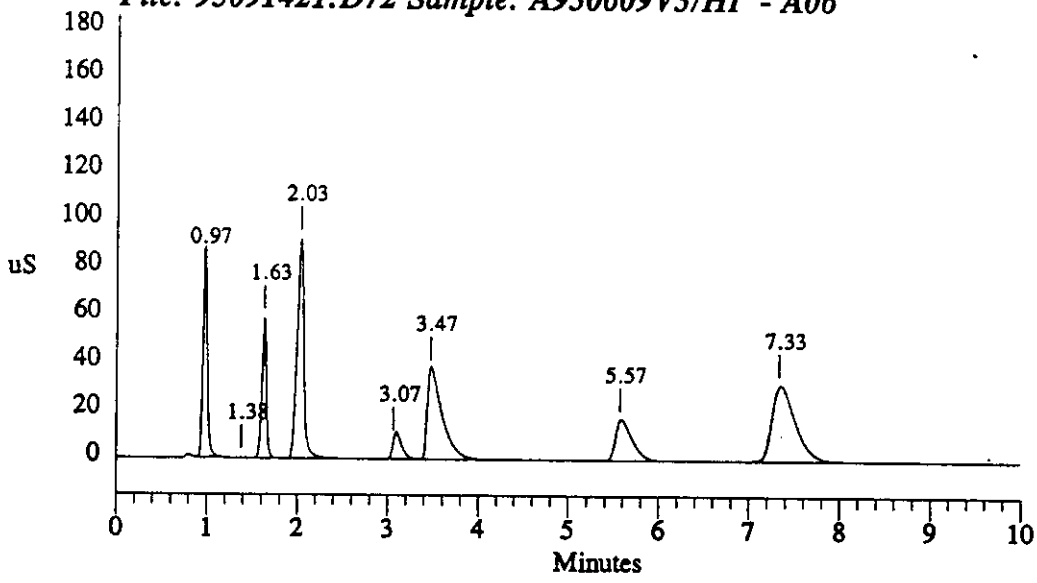
Sample Name: A950609V3/HI - A06 Date: 09/15/1995 05:08:59
Data File : C:\DX\DATA\9509142\95091421.D72
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 72 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.197	73576760	290689549	1	-1.69
2	1.38		0.000	154411	769739	1	
3	1.63	CHLORIDE	27.108	58623572	208178443	1	0.00
4	2.03	NITRITE	108.327	91934615	493492402	1	-0.81
5	3.07	BROMIDE	27.589	8071615	75536458	1	0.00
6	3.47	NITRATE	106.456	37588538	433601899	1	0.00
7	5.57	PHOSPHATE	110.602	16719043	225244745	1	-0.60
8	7.33	SULFATE	108.916	31568073	575141194	1	0.00
		Totals	515.194	318236626	2302654428		

File: 95091421.D72 Sample: A950609V3/HI - A06

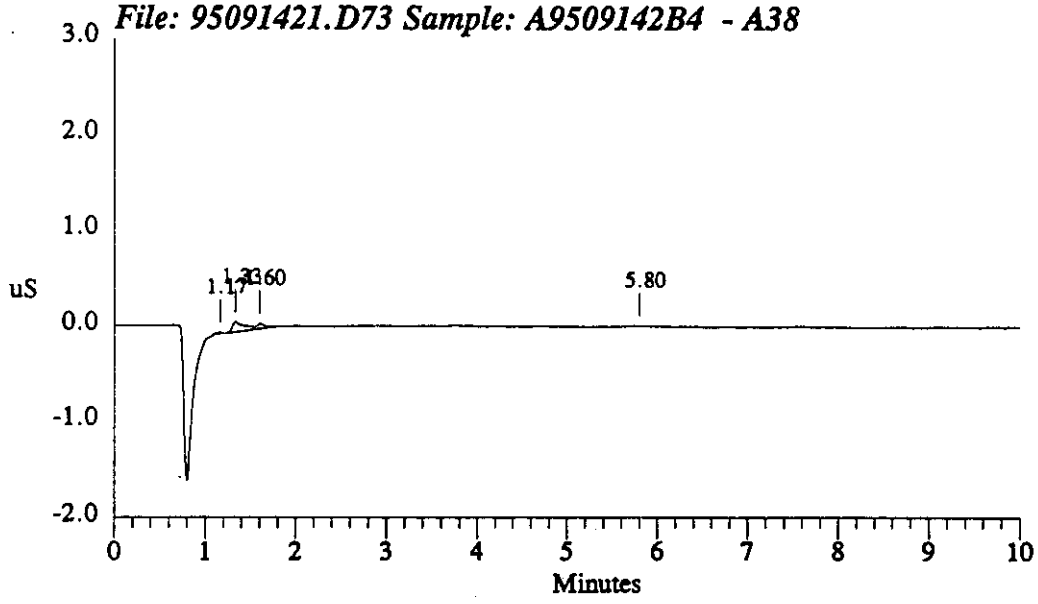


Sample Name: A9509142B4 - A38 Date: 09/15/1995 05:25:27
Data File : C:\DX\DATA\9509142\95091421.D73
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 73 Vial:A38 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	18871	74923	1	
2	1.33		0.000	106726	991321	2	
3	1.60	CHLORIDE	0.114	53991	311807	2	0.00
4	5.80	PHOSPHATE	0.275	11366	229444	1	3.57
		Totals	0.389	190954	1607495		

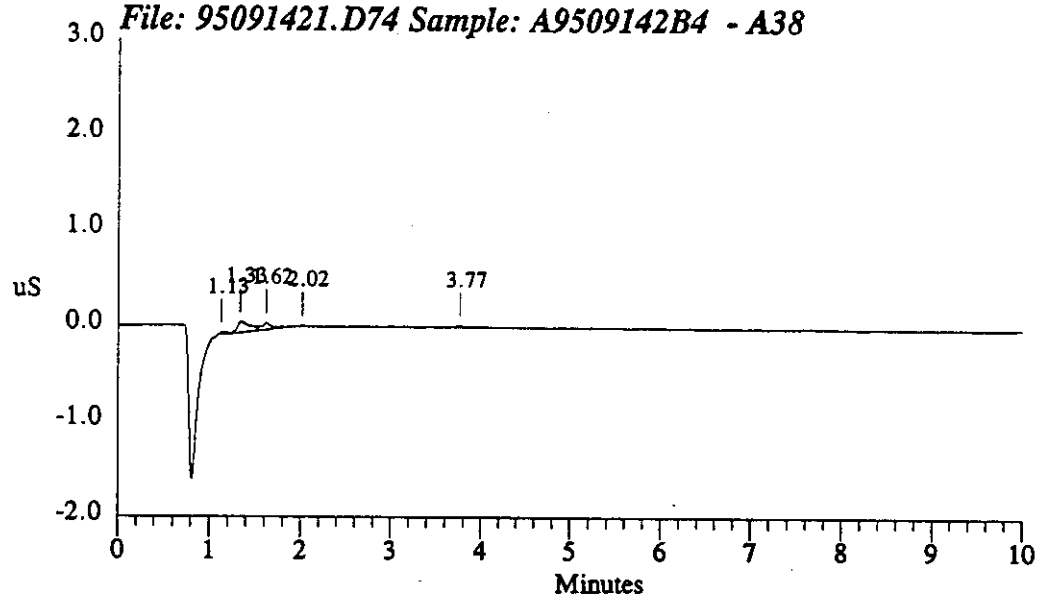


Sample Name: A9509142B4 - A38 Date: 09/15/1995 05:41:54
Data File : C:\DX\DATA\9509142\95091421.D74
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 74 Vial:A38 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	16320	83200	1	
2	1.33		0.000	116244	1085289	2	
3	1.62	CHLORIDE	0.125	74021	613414	2	0.00
4	2.02	NITRITE	0.242	16185	308271	1	-0.61
5	3.77	NITRATE	0.240	17337	207205	1	0.00
		Totals	0.607	240107	2297379		



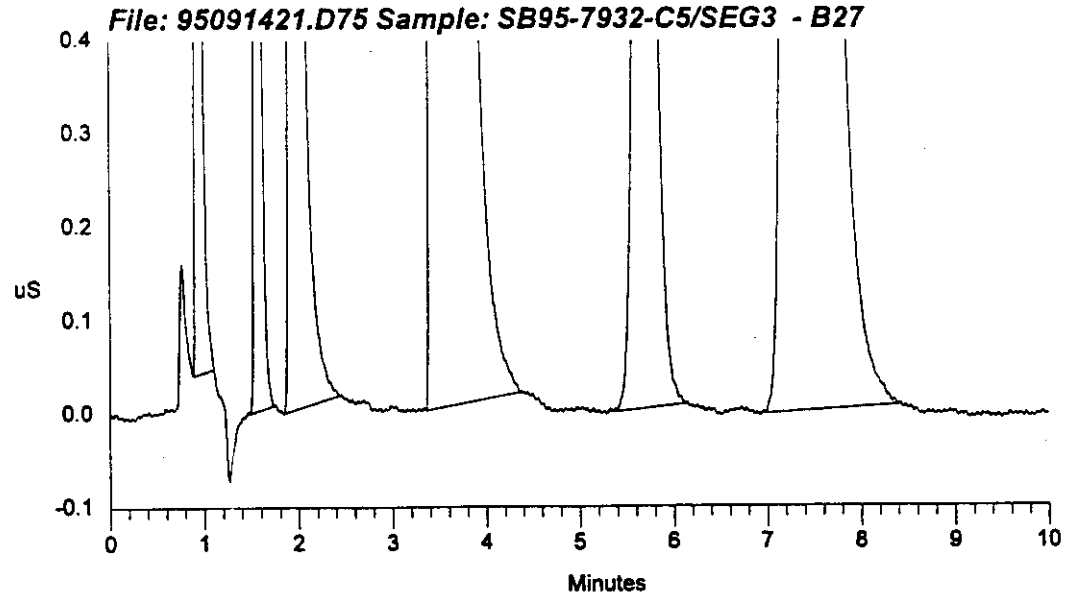
Data Reprocessed On 09/18/1995 08:53:59

Sample Name: SB95-7932-C5/SEG3 - B27		Date: 09/15/1995 05:54:42	
Data File : C:\DX\DATA\9509142\95091421.D75			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 75 Vial:B27			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	5.316	6764366	18798154	1	-1.05
2	1.57	CHLORIDE	5.527	3316182	11980405	1	0.00
3	1.95	NITRITE	46.489	15416468	78218050	1	-0.83
4	3.47	NITRATE	212.773	29167103	330873301	1	0.00
5	5.70	PHOSPHATE	35.860	1824872	22977035	1	1.79
6	7.37	SULFATE	152.977	16437032	291813335	1	0.00
		Totals	458.941	72926023	754660279		



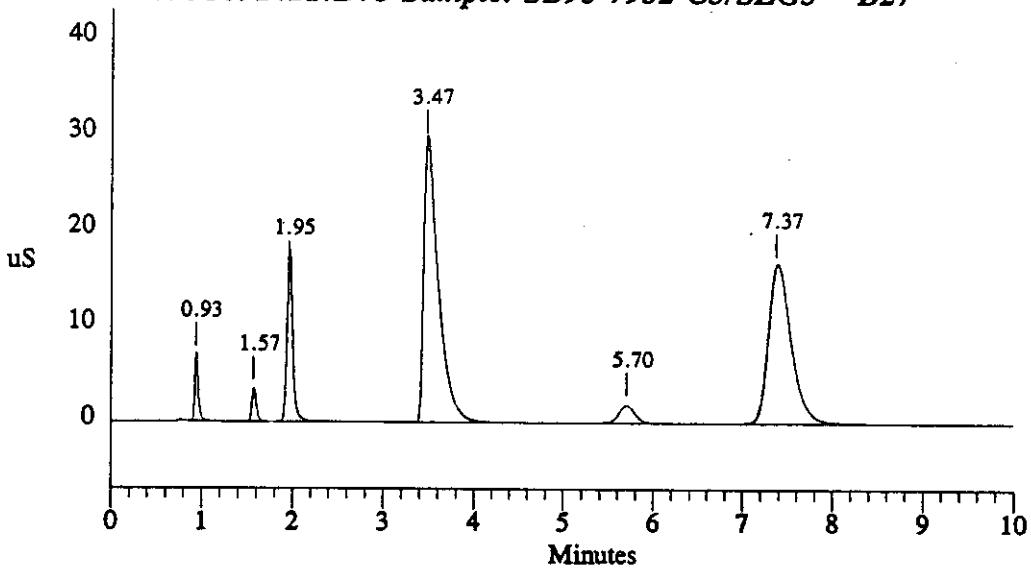
Sample Name: SB95-7932-C5/SEG3 - B27 Date: 09/15/1995 05:54:42
Data File : C:\DX\DATA\9509142\95091421.D75
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 75 Vial:B27 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	5.316	6764366	18798154	1	-1.05
2	1.57	CHLORIDE	5.865	3348308	12886397	1	0.00
3	1.95	NITRITE	46.835	15419539	78834300	1	-0.83
4	3.47	NITRATE	213.220	29169182	331690893	1	0.00
5	5.70	PHOSPHATE	36.306	1828989	23289588	1	1.79
6	7.37	SULFATE	153.434	16442355	292790035	1	0.00
		Totals	460.975	72972739	758289367		

File: 95091421.D75 Sample: SB95-7932-C5/SEG3 - B27



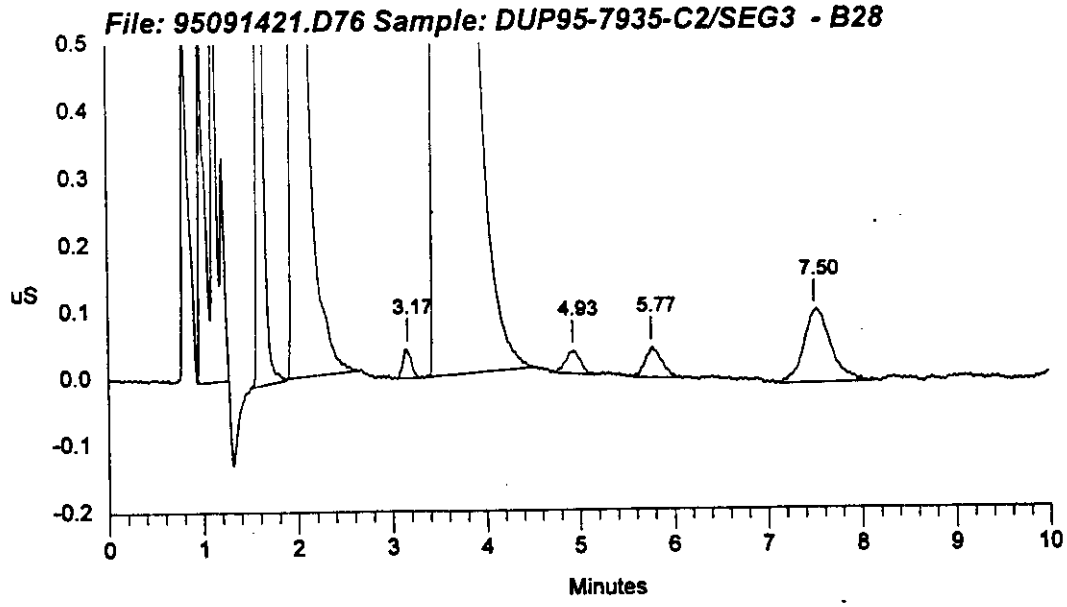
C#C-,Ÿ Data Reprocessed On 09/20/1995 12:26:29

Sample Name:	DUP95-7935-C2/SEG3 - B28	Date:	09/15/1995 06:07:08
Data File :	C:\DX\DATA\9509142\95091421.D76		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 76 Vial:B28	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	24.213	590127	6177652	1	1.03
2	1.62	CHLORIDE	39.552	2194444	7778860	1	0.00
3	2.00	NITRITE	592.390	20707748	100968151	1	-1.43
4	3.17	BROMIDE	3.938	40954	267057	1	4.33
5	3.50	NITRATE	2126.555	25329556	330658917	1	0.00
6	4.93		0.000	32080	370402	1	
7	5.77	PHOSPHATE	32.492	43291	564843	1	2.00
8	7.50	SULFATE	34.446	106216	2211581	1	0.00
		Totals	2853.585	49044414	448997461		



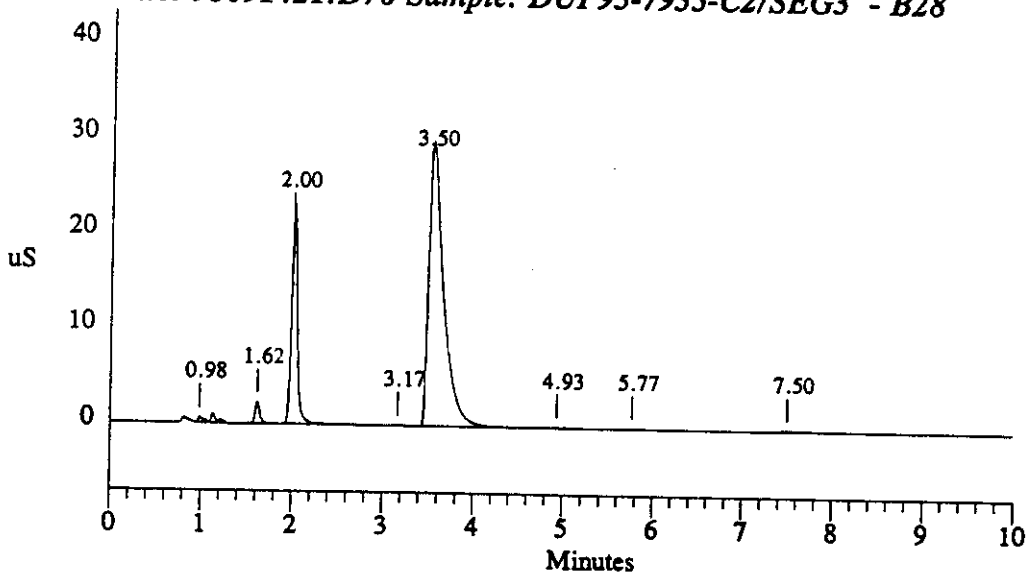
Sample Name: DUP95-7935-C2/SEG3 - B28 Date: 09/15/1995 06:07:08
Data File : C:\DX\DATA\9509142\95091421.D76
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 76 Vial:B28 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	24.213	590127	6177652	1	1.03
2	1.62	CHLORIDE	44.423	2241596	9078122	1	0.00
3	2.00	NITRITE	594.611	20709392	101365242	1	-1.43
4	3.17	BROMIDE	3.887	40616	262249	1	4.33
5	3.50	NITRATE	2128.243	25330425	330967384	1	0.00
6	4.93		0.000	30323	359080	1	
7	5.77	PHOSPHATE	32.492	43291	564843	1	2.00
8	7.50	SULFATE	34.446	106216	2211581	1	0.00
		Totals	2862.314	49091985	450986152		

File: 95091421.D76 Sample: DUP95-7935-C2/SEG3 - B28



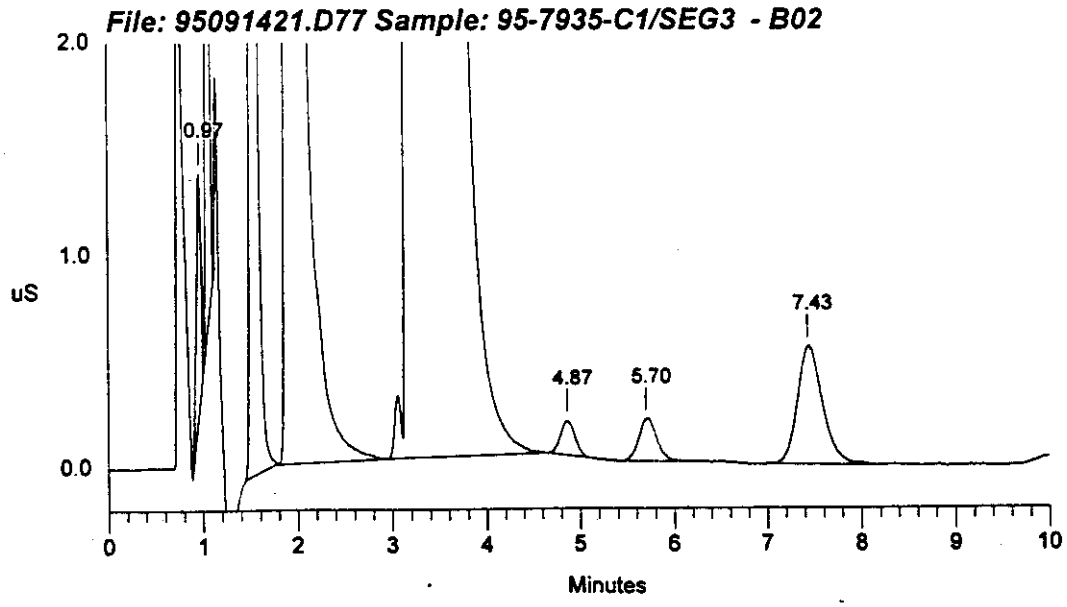
Data Reprocessed On 09/22/1995 00:40:16

Sample Name: 95-7935-C1/SEG3 - B02		Date: 09/15/1995 06:19:45	
Data File : C:\DX\DATA\9509142\95091421.D77			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 77 Vial:B02			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.802	1109232	3913104	2	5.07
2	1.07		0.000	4200955	11167679	2	
3	1.53	CHLORIDE	34.245	9281310	43849465	1	0.00
4	1.97	NITRITE	601.320	91012800	551351842	1	2.19
5	3.20	NITRATE	641.768	152237377	2141138392	1	0.00
6	4.87		0.000	161975	1721394	1	
7	5.70	PHOSPHATE	12.845	197789	2710379	1	4.66
8	7.43	SULFATE	16.158	555492	10442042	1	0.00
		Totals	1310.138	258756930	2766294295		



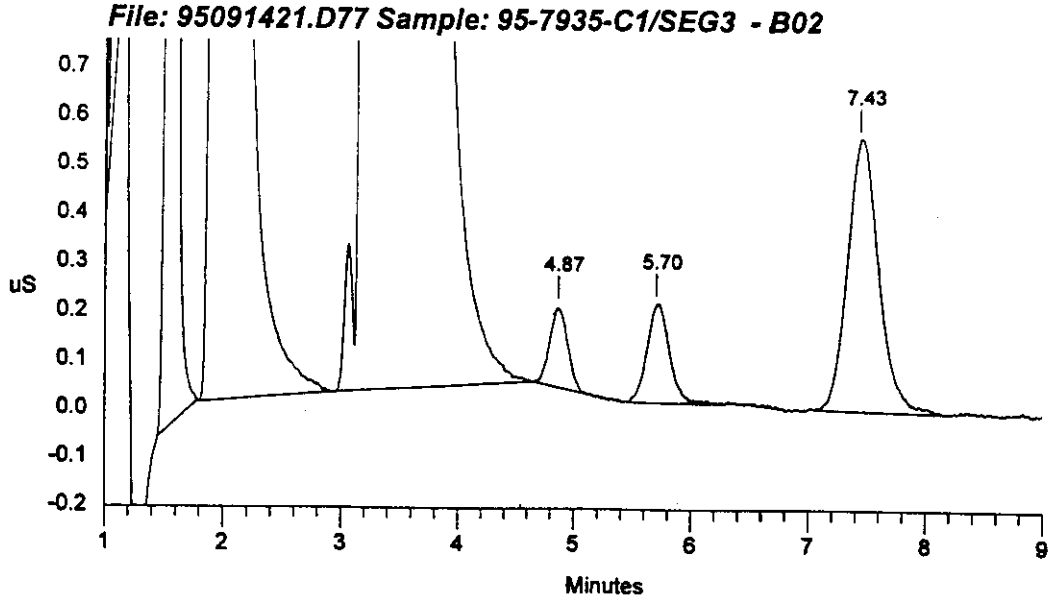
Data Reprocessed On 09/20/1995 12:26:06

Sample Name: 95-7935-C1/SEG3 - B02		Date: 09/15/1995 06:19:45	
Data File : C:\DX\DATA\9509142\95091421.D77			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 77 Vial:B02			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	1.00	9.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.802	1109232	3913104	2	4.72
2	1.07		0.000	4200955	11167679	2	
3	1.53	CHLORIDE	34.245	9281310	43849465	1	0.00
4	1.97	NITRITE	601.320	91012800	551351842	1	2.19
5	3.20	NITRATE	641.768	152237377	2141138392	1	0.00
6	4.87	PHOSPHATE	9.922	161975	1721394	1	-5.85
7	5.70		0.000	197789	2710379	1	
8	7.43	SULFATE	16.158	555492	10442042	1	0.00
		Totals	1307.216	258756930	2766294295		



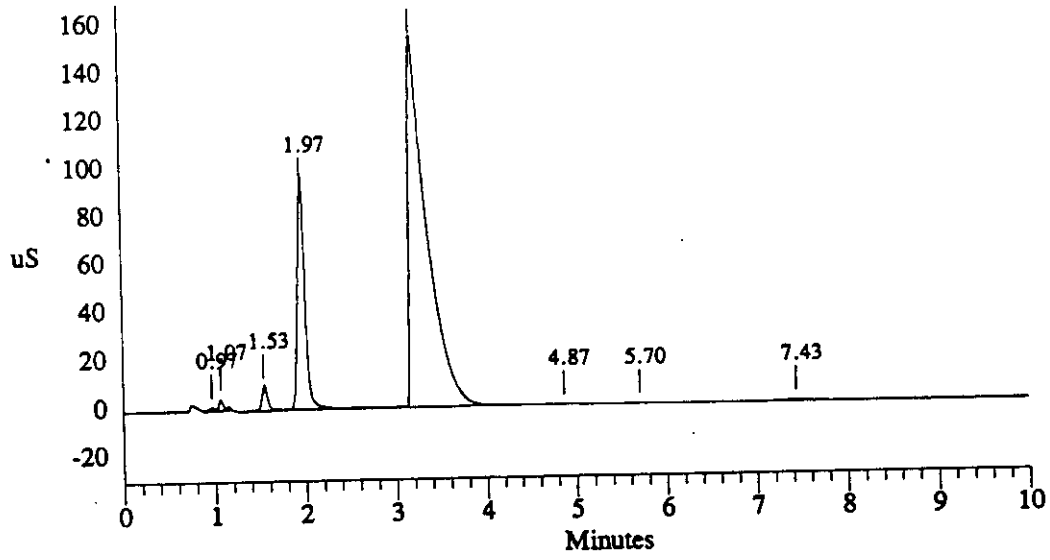
Sample Name: 95-7935-C1/SEG3 - B02 Date: 09/15/1995 06:19:45
Data File : C:\DX\DATA\9509142\95091421.D77
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 77 Vial:B02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.193	1283582	4764528	2	4.72
2	1.07		0.000	4602108	17000272	2	
3	1.53	CHLORIDE	38.506	9534165	49882461	1	0.00
4	1.97	NITRITE	601.320	91012800	551351842	1	2.19
5	3.20	NITRATE	641.768	152237377	2141138392	1	0.00
6	4.87	PHOSPHATE	9.922	161975	1721394	1	-5.85
7	5.70		0.000	199628	3097576	1	
8	7.43	SULFATE	16.158	555492	10442042	1	0.00
		Totals	1311.868	259587128	2779398507		

File: 95091421.D77 Sample: 95-7935-C1/SEG3 - B02



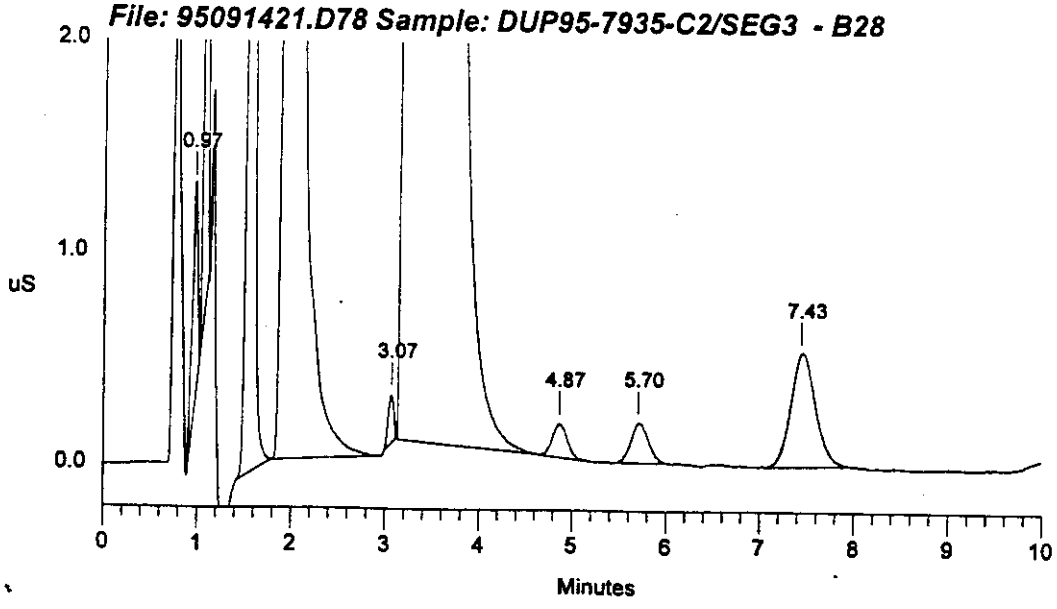
Data Reprocessed On 09/22/1995 00:41:30

Sample Name: DUP95-7935-C2/SEG3 - B28		Date: 09/15/1995 06:32:22	
Data File : C:\DX\DATA\9509142\95091421.D78			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 78 Vial:B28			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.796	1048889	3899875	2	3.94
2	1.08		0.000	2633929	10655863	2	
3	1.55	CHLORIDE	32.790	10108296	41802798	1	0.00
4	1.97	NITRITE	576.195	86358798	526914037	1	1.09
5	3.07	BROMIDE	2.159	227219	914712	1	5.38
6	3.23	NITRATE	728.993	144833529	2031623338	1	0.00
7	4.87		0.000	158354	1728595	1	
8	5.70	PHOSPHATE	12.099	184740	2457989	1	3.58
9	7.43	SULFATE	15.369	530737	9739316	1	0.00
		Totals	1371.403	246084491	2629736522		



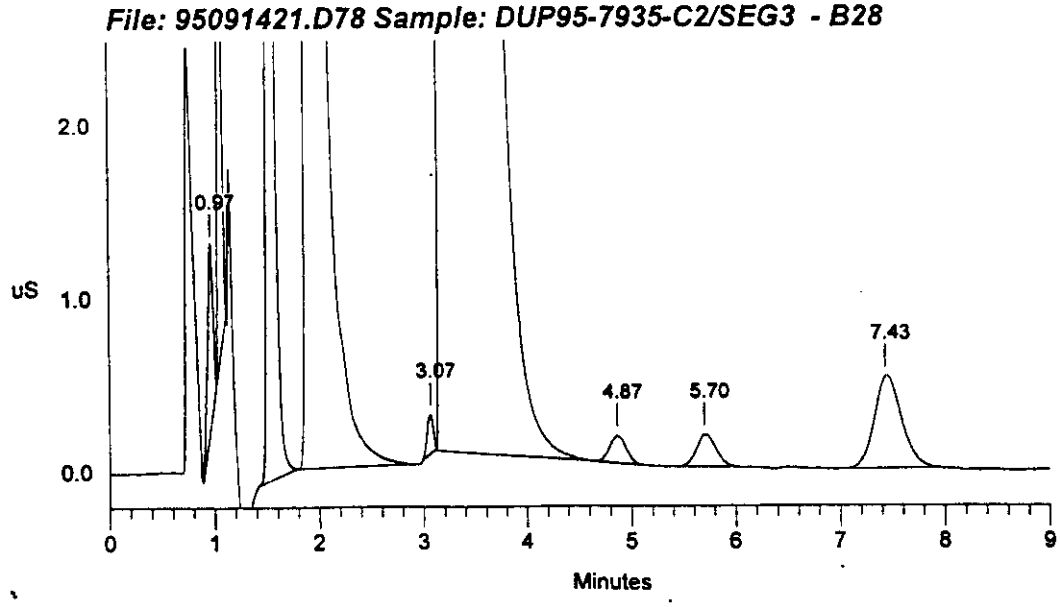
Data Reprocessed On 09/20/1995 12:34:22 d#da\X aY-,B

Sample Name: DUP95-7935-C2/SEG3 - B28		Date: 09/15/1995 06:32:22	
Data File : C:\DX\DATA\9509142\95091421.D78			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 78 Vial:B28			Detector:PED-Cond.
Analyst : MMO .	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	9.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.796	1048889	3899875	2	3.59
2	1.08		0.000	2633929	10655863	2	
3	1.55	CHLORIDE	32.790	10108296	41802798	1	0.00
4	1.97	NITRITE	576.195	86358798	526914037	1	1.09
5	3.07	BROMIDE	2.159	227219	914712	1	5.38
6	3.23	NITRATE	728.993	144833529	2031623338	1	0.00
7	4.87	PHOSPHATE	9.943	158354	1728595	1	-6.82
8	5.70		0.000	184740	2457989	1	
9	7.43	SULFATE	15.369	530737	9739316	1	0.00
		Totals	1369.247	246084491	2629736522		



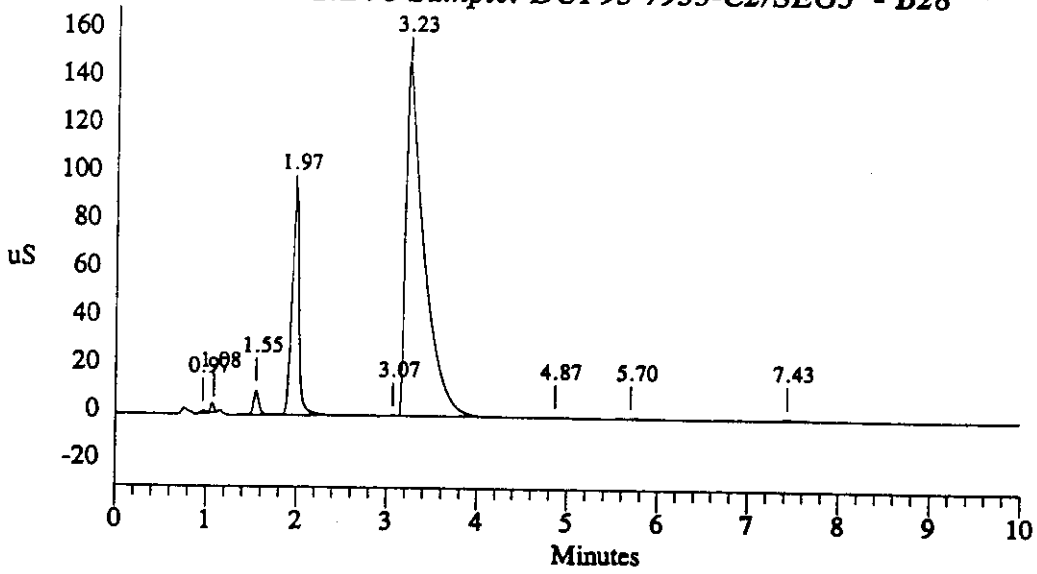
Sample Name: DUP95-7935-C2/SEG3 - B28 Date: 09/15/1995 06:32:22
Data File : C:\DX\DATA\9509142\95091421.D78
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 78 Vial:B28 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	3.791	1048889	3889547	2	3.59
2	1.08		0.000	2633929	10430194	2	
3	1.55	CHLORIDE	36.800	10324509	47460185	1	0.00
4	1.97	NITRITE	576.195	86358798	526914037	1	1.09
5	3.07	BROMIDE	1.356	157915	535324	1	5.38
6	3.23	NITRATE	731.841	144753607	2027751109	1	0.00
7	4.87	PHOSPHATE	9.559	156221	1598579	1	-6.82
8	5.70		0.000	187200	2638555	1	
9	7.43	SULFATE	15.752	535309	10080517	1	0.00
		Totals	1375.295	246156377	2631298047		

File: 95091421.D78 Sample: DUP95-7935-C2/SEG3 - B28



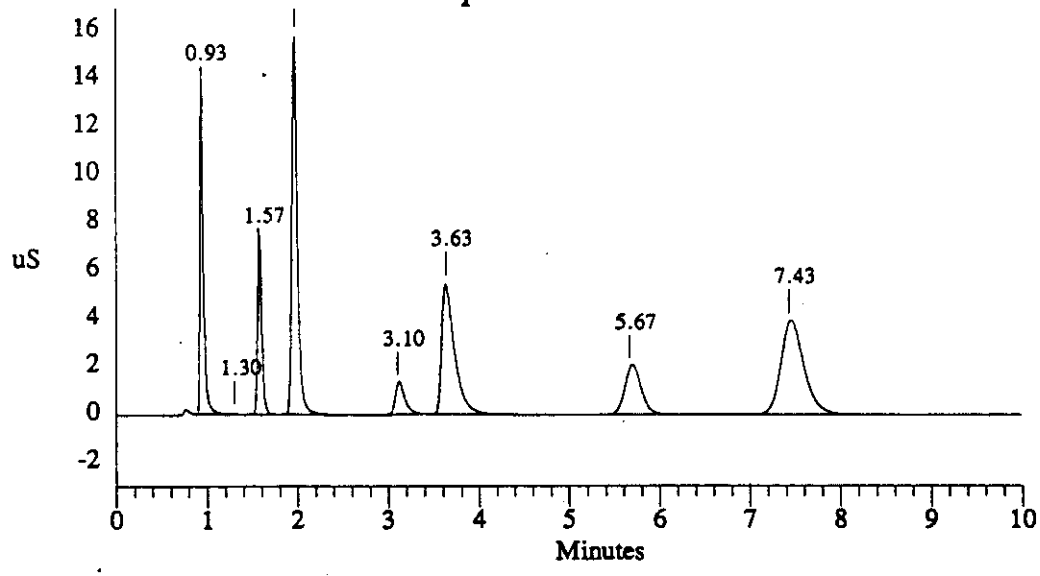
```
Sample Name: A950609V1/LO  - A07            Date: 09/15/1995 06:44:58
Data File  : C:\DX\DATA\9509142\95091421.D79
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 79  Vial:A07        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	18.903	13144303	36898011	3	-1.05
2	1.30		0.000	46865	285901	4	
3	1.57	CHLORIDE	20.266	6385528	24451176	1	0.00
4	1.97	NITRITE	82.300	15800444	68720759	1	0.02
5	3.10	BROMIDE	21.451	1263984	10194895	1	5.39
6	3.63	NITRATE	80.120	5386857	53173092	1	0.00
7	5.67	PHOSPHATE	82.486	1963862	26757378	1	-3.45
8	7.43	SULFATE	82.542	3863849	70600919	1	0.00
		Totals	388.069	47855692	291082130		

File: 95091421.D79 Sample: A950609V1/LO - A07



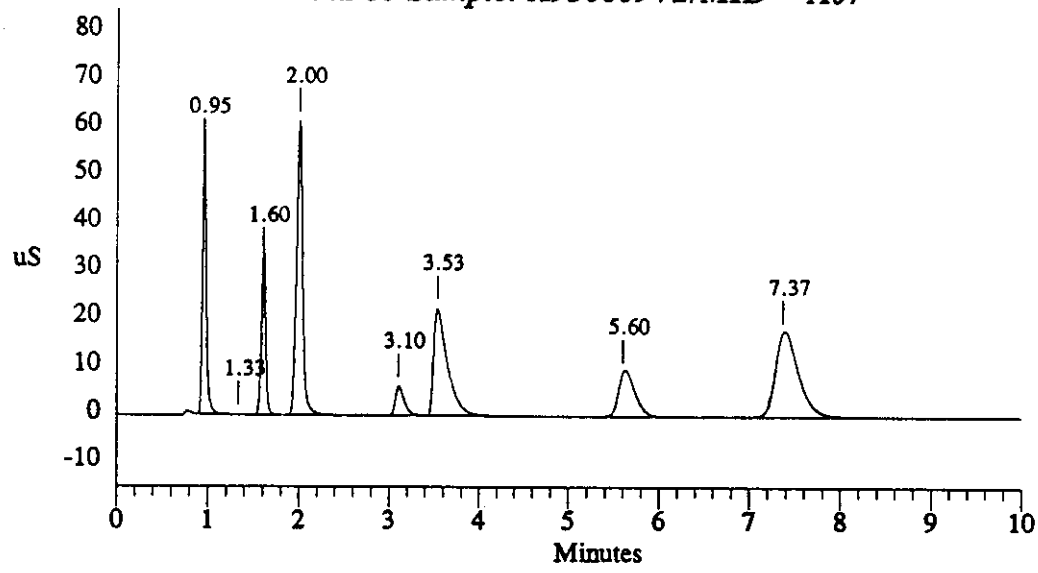
Sample Name: A950609V2/MID - A07 Date: 09/15/1995 06:58:00
Data File : C:\DX\DATA\9509142\95091421.D80
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 80 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.244	54860139	170318522	1	-1.38
2	1.33		0.000	106498	581050	1	
3	1.60	CHLORIDE	27.302	32196201	115064824	1	0.00
4	2.00	NITRITE	109.036	61395197	290810061	1	-0.41
5	3.10	BROMIDE	27.849	6017305	42650441	1	3.19
6	3.53	NITRATE	105.641	22241140	236039964	1	0.00
7	5.60	PHOSPHATE	111.102	9185692	122763018	1	-1.89
8	7.37	SULFATE	109.109	17579698	314824661	1	0.00
		Totals	516.283	203581870	1293052541		

File: 95091421.D80 Sample: A950609V2/MID - A07



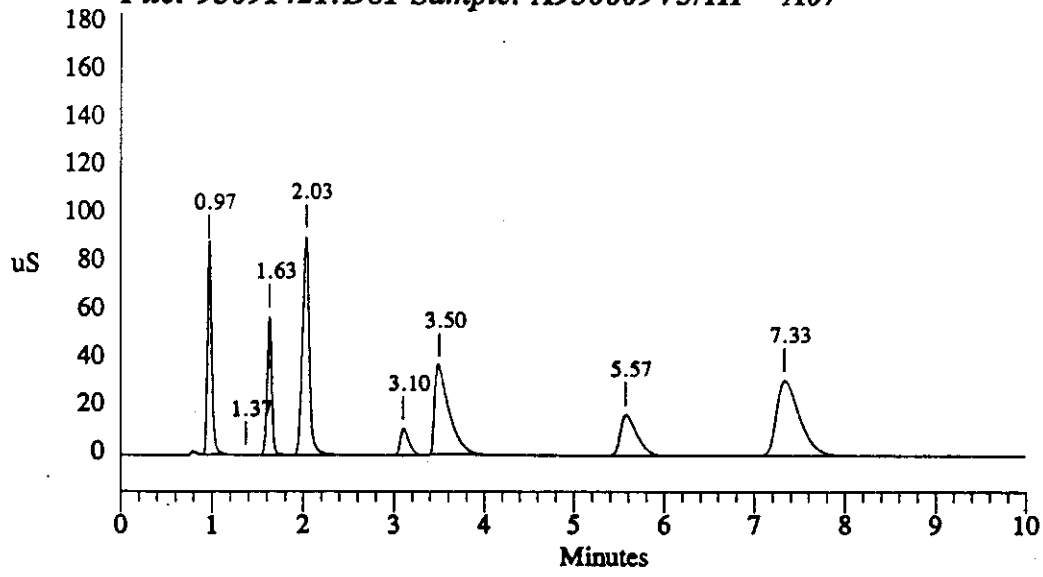
Sample Name: A950609V3/HI - A07 Date: 09/15/1995 07:11:26
Data File : C:\DX\DATA\9509142\95091421.D81
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 81 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.532	86038605	294609098	1	-1.69
2	1.37		0.000	138865	833742	1	
3	1.63	CHLORIDE	26.860	57910151	205817455	1	0.00
4	2.03	NITRITE	107.239	90855669	488249313	1	-0.81
5	3.10	BROMIDE	27.470	11106740	75147808	1	1.09
6	3.50	NITRATE	101.171	36965646	407120197	1	0.00
7	5.57	PHOSPHATE	109.414	17168545	222133556	1	-1.54
8	7.33	SULFATE	107.573	31614898	566202718	1	0.00
		Totals	506.258	331799120	2260113886		

File: 95091421.D81 Sample: A950609V3/HI - A07



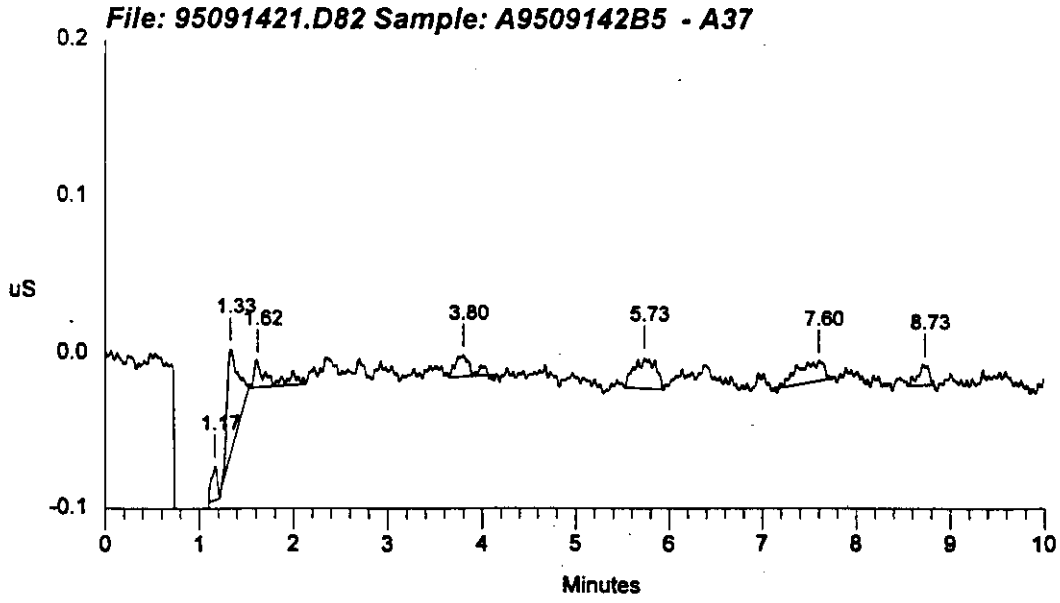
Data Reprocessed On 09/20/1995 12:37:53

Sample Name: A9509142B5 - A37		Date: 09/15/1995 07:27:55	
Data File : C:\DX\DATA\9509142\95091421.D82			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 82 Vial:A37			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	21391	92331	1	
2	1.33		0.000	67243	532308	1	
3	1.62	CHLORIDE	0.109	16379	189958	1	0.00
4	3.80	NITRATE	0.236	13134	153889	1	0.00
5	5.73	PHOSPHATE	0.288	19915	316683	1	-6.60
6	7.60	SULFATE	0.234	12370	260480	1	0.00
7	8.73		0.000	12167	106957	1	
		Totals	0.868	162599	1652606		

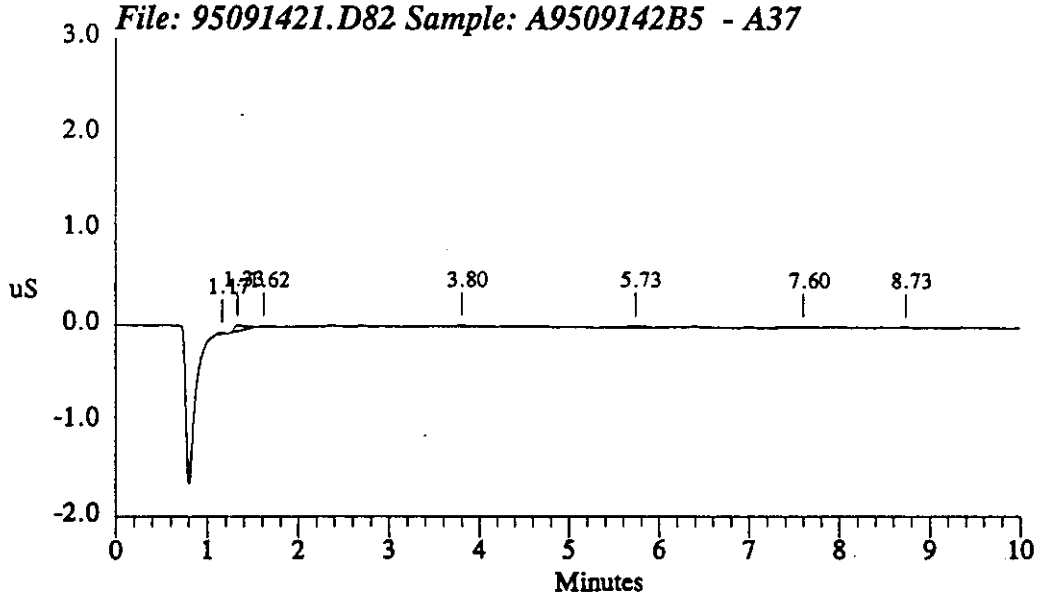


Sample Name: A9509142B5 - A37 Date: 09/15/1995 07:27:55
Data File : C:\DX\DATA\9509142\95091421.D82
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 82 Vial:A37 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	21391	92331	1	
2	1.33		0.000	67243	532308	1	
3	1.62	CHLORIDE	0.109	16379	189958	1	0.00
4	3.80	NITRATE	0.236	13134	153889	1	0.00
5	5.73	PHOSPHATE	0.288	19915	316683	1	-6.60
6	7.60	SULFATE	0.234	12370	260480	1	0.00
7	8.73		0.000	12167	106957	1	
		Totals	0.868	162599	1652606		

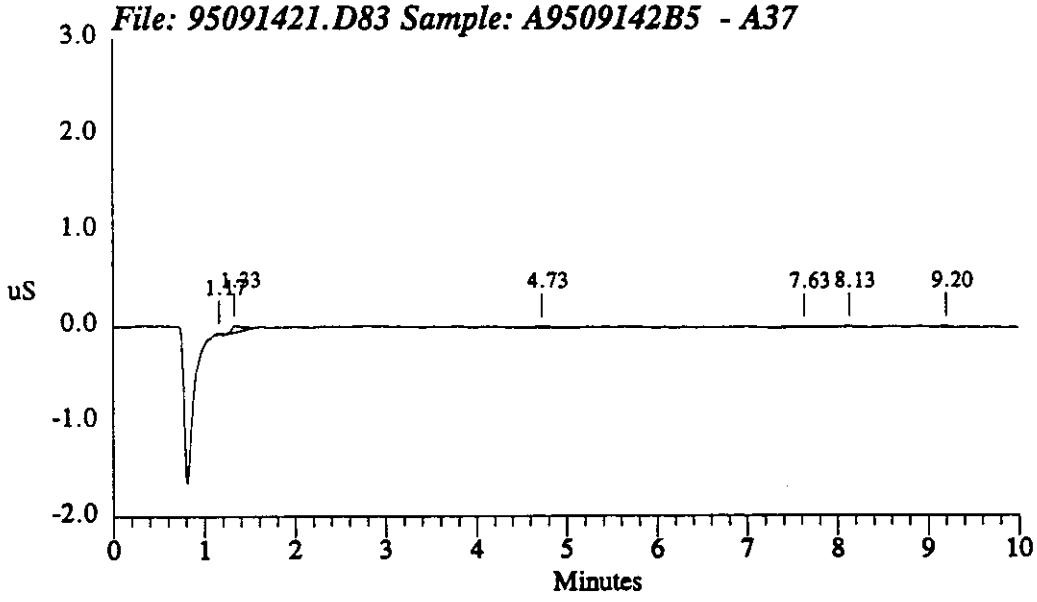


Sample Name:	A9509142B5 - A37 Date: 09/15/1995 07:44:20
Data File :	C:\DX\DATA\9509142\95091421.D83
Method :	c:\dx\method\2anions2.met
ACI Address:	1 System: 2 Inject#: 83 Vial:A37 Detector:PED-Cond.
Analyst :	MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	20760	96642	1	
2	1.33		0.000	72227	619037	1	
3	4.73		0.000	15272	244152	1	
4	7.63	SULFATE	0.230	8949	191696	1	0.00
5	8.13		0.000	15054	185609	1	
6	9.20		0.000	19779	155255	1	
		Totals	0.230	152041	1492390		

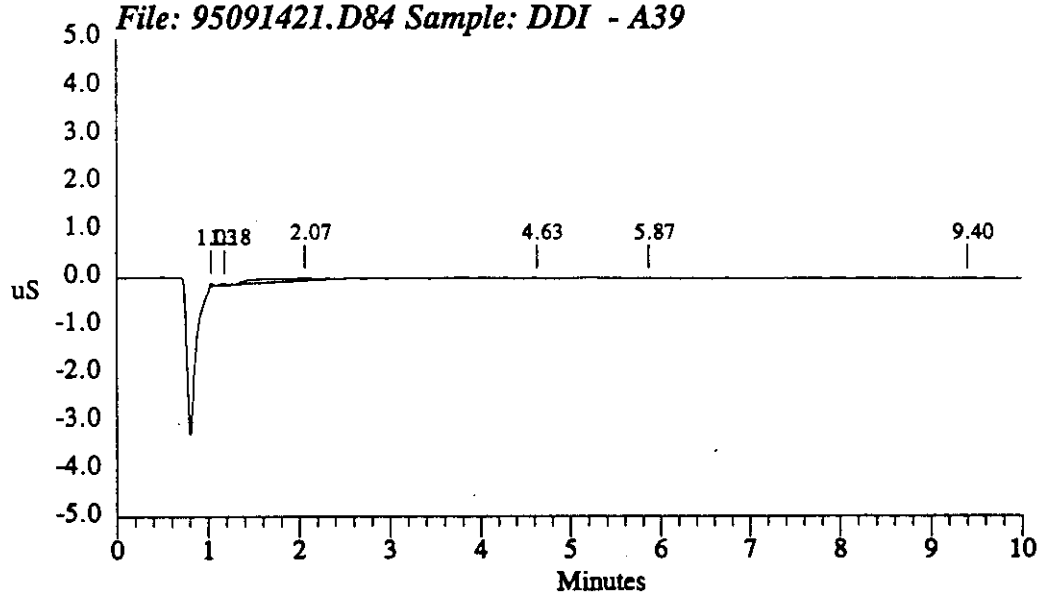


Sample Name: DDI - A39 Date: 09/15/1995 08:00:47
Data File : C:\DX\DATA\9509142\95091421.D84
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 84 Vial:A39 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	100	1	3000	5Hz	0.00	10.00	30000	

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.03	FLUORIDE	0.103	55521	115461	1	5.08
2	1.18		0.000	38528	159225	1	
3	2.07	NITRITE	0.420	52040	3444714	1	0.81
4	4.63		0.000	11812	152801	1	
5	5.87	PHOSPHATE	0.260	13202	123920	1	4.76
6	9.40		0.000	13087	180129	1	
		Totals	0.783	184190	4176250		

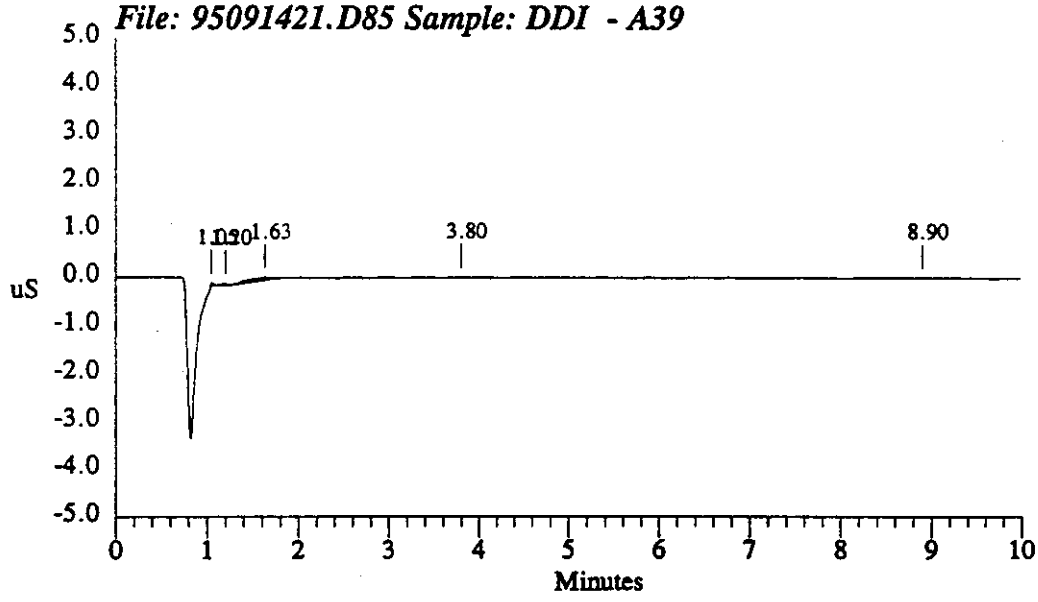


Sample Name: DDI - A39 Date: 09/15/1995 08:17:14
Data File : C:\DX\DATA\9509142\95091421.D85
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 85 Vial:A39 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.05	FLUORIDE	0.103	57989	119373	1	6.78
2	1.20		0.000	28407	71344	1	
3	1.63	CHLORIDE	0.139	54913	973614	1	0.00
4	3.80	NITRATE	0.248	20975	318866	1	0.00
5	8.90		0.000	14064	247708	1	
		Totals	0.490	176347	1730904		



AI-450 AS3500 Editor - 09081SCH.AS3

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Template (.PRP)
1	A04	5	1	A950609V1/LO	1anions1	95090811	1	1	
2	A04	15	1	A950609V2/MID	1anions1	95090811	1	1	
3	A04	25	1	A950609V3/HI	1anions1	95090811	1	1	
4	A01	100	1	A950908B1	1anions1	95090811	1	1	
5	A05	100	1	95-7941-C3/BLANK	1anions1	95090811	1	1	
6	A06	1	1	95-7941-C1/SEG 1	1anions1	95090811	1	1	
7	A07	1	1	95-7942-C1/QS2A	1anions1	95090811	1	1	
8	A08	1	1	95-7943-C1/QS2D	1anions1	95090811	1	1	
9	A09	1	1	95-7944-C1/QS3A	1anions1	95090811	1	1	
10	A10	1	1	95-7945-C1/QS4A	1anions1	95090811	1	1	
11	A11	1	1	95-7946-C1/QS4B	1anions1	95090811	1	1	
12	A12	1	1	95-7947-C1/QS4C	1anions1	95090811	1	1	
13	A13	1	1	95-7948-C1/QS4D	1anions1	95090811	1	1	
14	A04	5	1	A950609V1/LO	1anions1	95090811	1	1	
15	A04	15	1	A950609V2/MID	1anions1	95090811	1	1	
16	A04	25	1	A950609V3/HI	1anions1	95090811	1	1	
17	A03	100	1	A950908B2	1anions1	95090811	1	1	

More Run Parameters

#	Vial Pos	Oven Ctl	Oven Set	Cool Ctl	Cool Set	Cycle Time	Flush Vol	Visc Factor	Prep Visc	Inj Type	Needle Height
1	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
2	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
3	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
4	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
5	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
6	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
7	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
8	A08	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
9	A09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
10	A10	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
11	A11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
12	A12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
13	A13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
14	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
15	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
16	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
17	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

Comment:
Calibrated 2/10/95

AI-450 AS3500 Editor - 09081SCH.AS3

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Template (.PRP)
1	A04	5	1	A950609V1/LO	1anions1	95090811	1		1
2	A04	15	1	A950609V2/MID	1anions1	95090811	1		1
3	A04	25	1	A950609V3/HI	1anions1	95090811	1		1
4	A01	100	1	A950908B1 ↓PO4	1anions1	95090811	1		1
5	A05	100	1	95-7941-C3/BLANK	1anions1	95090811	1		1
6	A06	1	1	95-7941-C1/SEG 1 20X	1anions1	95090811	1		1
7	A07	1	1	95-7942-C1/QS2A 100X+5X, 10X	1anions1	95090811	1		1
8	A08	1	1	95-7943-C1/QS2D 20X	1anions1	95090811	1		1
9	A09	1	1	95-7944-C1/QS3A 20X	1anions1	95090811	1		1
10	A10	1	1	95-7945-C1/QS4A 20X	1anions1	95090811	1		1
11	A11	1	1	95-7946-C1/QS4B 20X	1anions1	95090811	1		1
12	A12	1	1	95-7947-C1/QS4C 20X	1anions1	95090811	1		1
13	A13	1	1	95-7948-C1/QS4D 20X	1anions1	95090811	1		1
14	A04	5	1	A950609V1/LO	1anions1	95090811	1		1
15	A04	15	1	A950609V2/MID	1anions1	95090811	1		1
16	A04	25	1	A950609V3/HI	1anions1	95090811	1		1
17	A02	100	1	A950908B2	1anions1	95090811	1		1

More Run Parameters

#	Vial Pos	Oven Ctl	Oven Set	Cool Ctl	Cool Set	Cycle Time	Flush Vol	Visc Factor	Prep Visc	Inj Type	Needle Height
1	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
2	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
3	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
4	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
5	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
6	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
7	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
8	A08	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
9	A09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
10	A10	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
11	A11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
12	A12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
13	A13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
14	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
15	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
16	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
17	A02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

Comment:
Calibrated 2/10/95

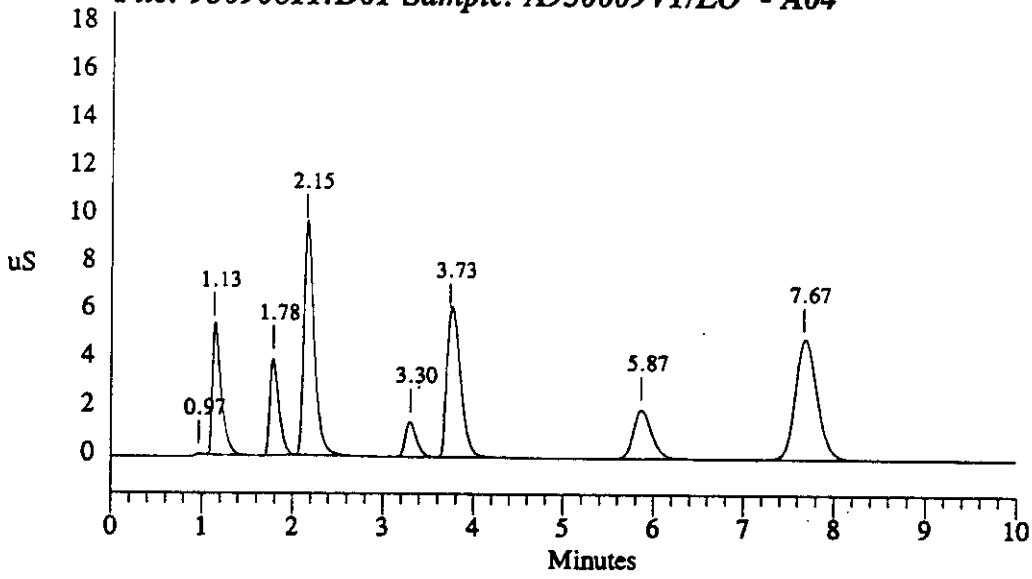
Sample Name: A950609V1/LO - A04 Date: 09/08/1995 18:38:06
Data File : C:\DX\DATA\9509081\95090811.D01
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 1 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97		0.000	32194	150329	2	
2	1.13	FLUORIDE	23.062	5360567	37594627	2	-1.04
3	1.78	CHLORIDE	23.628	3996641	27524958	1	0.00
4	2.15	NITRITE	95.300	9487616	77978897	1	-0.45
5	3.30	BROMIDE	24.471	1450663	12447716	1	3.97
6	3.73	NITRATE	94.649	5836199	66226111	1	0.00
7	5.87	PHOSPHATE	93.286	2040199	29557855	1	0.42
8	7.67	SULFATE	95.715	4955465	84349748	1	0.00
		Totals	450.111	33159543	335830242		

File: 95090811.D01 Sample: A950609V1/LO - A04



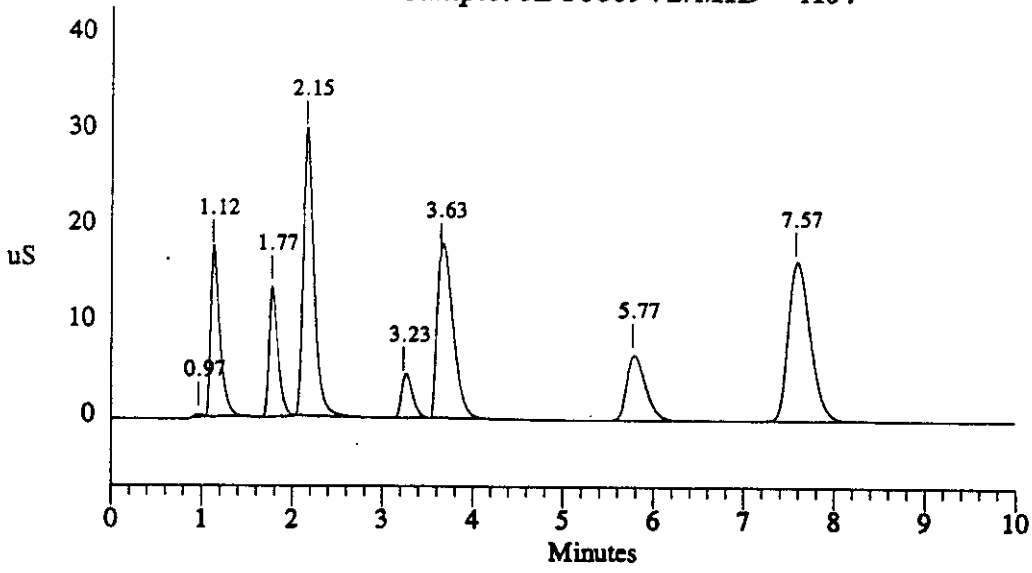
Sample Name: A950609V2/MID - A04 Date: 09/08/1995 18:51:08
Data File : C:\DX\DATA\9509081\95090811.D02
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 2 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97		0.000	226952	1249050	2	
2	1.12	FLUORIDE	23.903	17051547	124445198	2	-1.58
3	1.77	CHLORIDE	24.329	13333256	91272821	1	0.00
4	2.15	NITRITE	98.615	29417157	248532118	1	0.49
5	3.23	BROMIDE	25.268	3939285	38869505	1	2.83
6	3.63	NITRATE	97.885	16849529	219254998	1	0.00
7	5.77	PHOSPHATE	98.173	6671309	100879858	1	1.43
8	7.57	SULFATE	99.860	16314338	283974489	1	0.00
		Totals	468.033	103803373	1108478035		

File: 95090811.D02 Sample: A950609V2/MID - A04



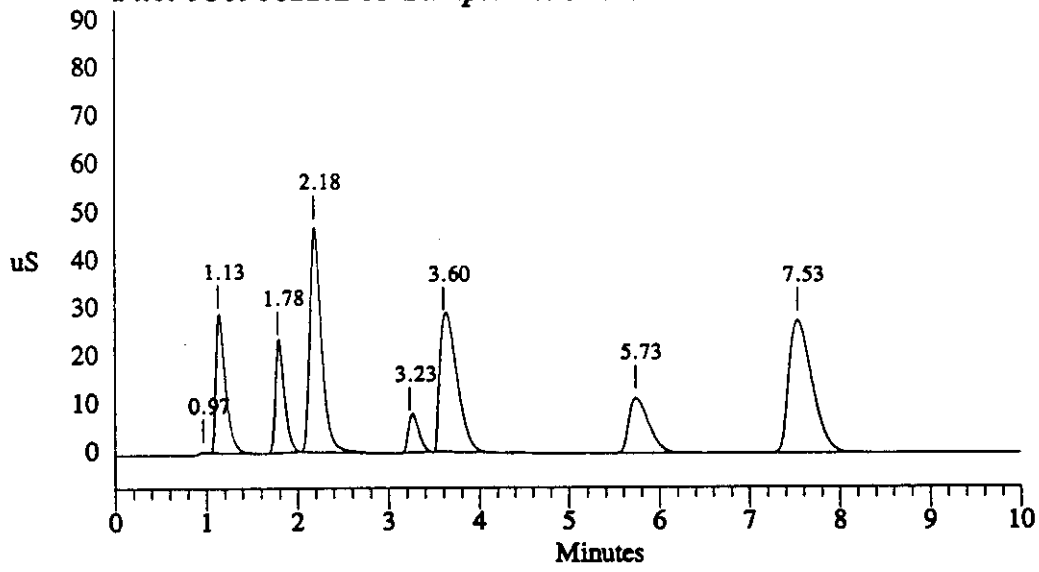
Sample Name: A950609V3/HI - A04 Date: 09/08/1995 19:04:34
Data File : C:\DX\DATA\9509081\95090811.D03
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 3 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97		0.000	110900	481547	2	
2	1.13	FLUORIDE	24.104	28198393	215475715	2	-1.04
3	1.78	CHLORIDE	24.352	22707151	160347870	1	0.00
4	2.18	NITRITE	99.225	46755874	418667791	1	1.10
5	3.23	BROMIDE	25.838	6830771	65612858	1	1.87
6	3.60	NITRATE	96.796	27554592	377387838	1	0.00
7	5.73	PHOSPHATE	99.023	11565795	181378506	1	1.78
8	7.53	SULFATE	99.789	27795014	500967259	1	0.00
		Totals	469.127	171518490	1920319385		

File: 95090811.D03 Sample: A950609V3/HI - A04



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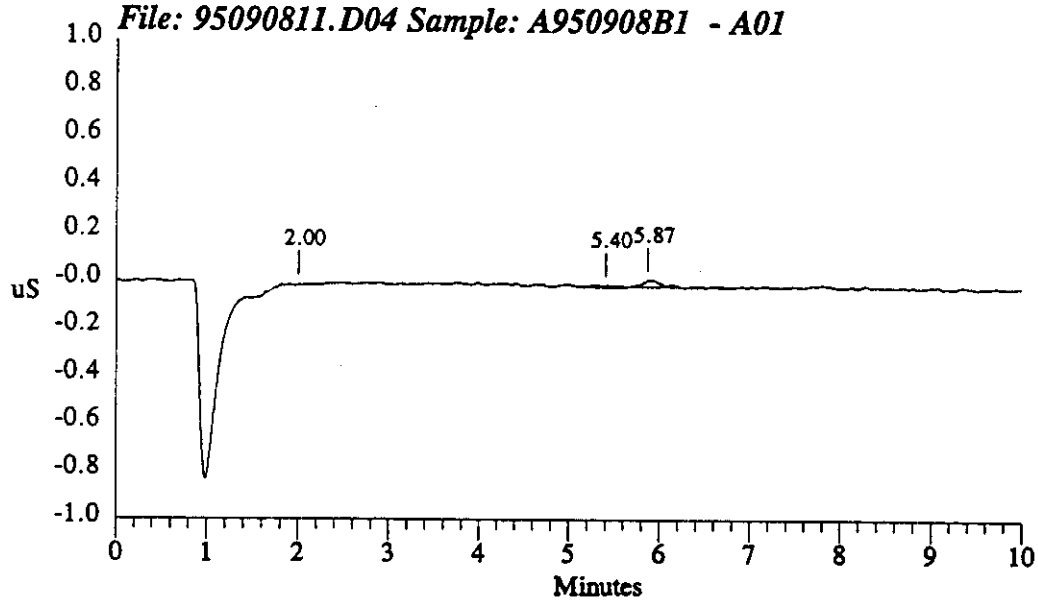
Sample Name: A950908B1  - A01                    Date: 09/08/1995 19:21:05
Data File  : C:\DX\DATA\9509081\95090811.D04
Method     : c:\dx\method\1anions1.met
ACI Address: 1  System: 1  Inject#: 4   Vial:A01          Detector:PED-Cond.
Analyst    : MMO             Column: AG4A/AS4A-SC
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	2.00		0.000	4684	35116	1	
2	5.40	PHOSPHATE	0.204	7359	211540	1	-4.14
3	5.87		0.000	27509	517589	1	
		Totals	0.204	39552	764245		

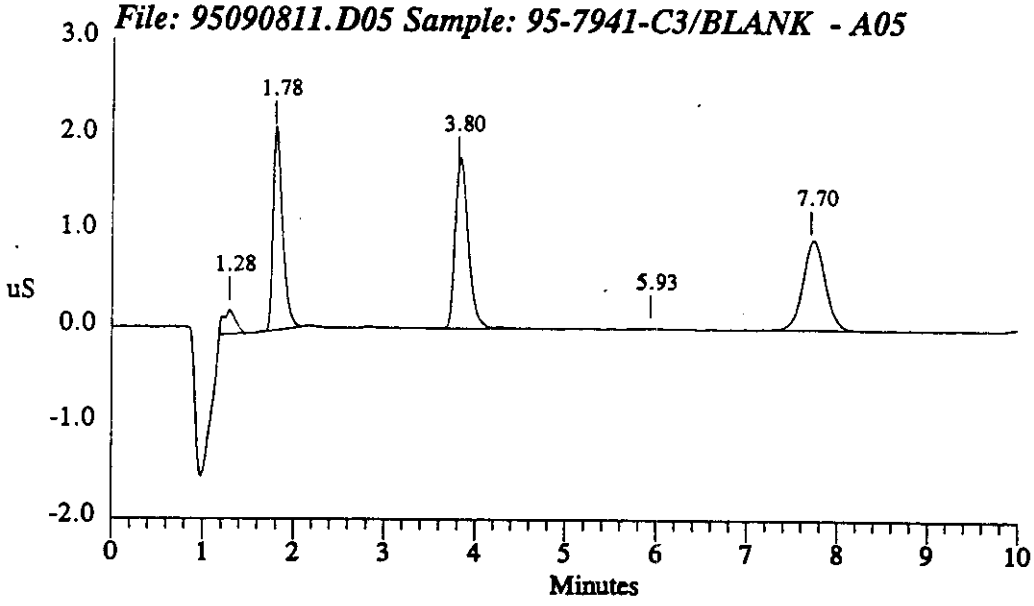


Sample Name: 95-7941-C3/BLANK - A05 Date: 09/08/1995 19:37:35
Data File : C:\DX\DATA\9509081\95090811.D05
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 5 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.28		0.000	254004	2428923	1	
2	1.78	CHLORIDE	0.687	2046879	15378472	1	0.00
3	3.80	NITRATE	1.461	1651937	18228409	1	0.00
4	5.93	PHOSPHATE	0.201	14003	196154	1	-0.22
5	7.70	SULFATE	1.085	899627	16269055	1	0.00
		Totals	3.435	4866450	52501013		



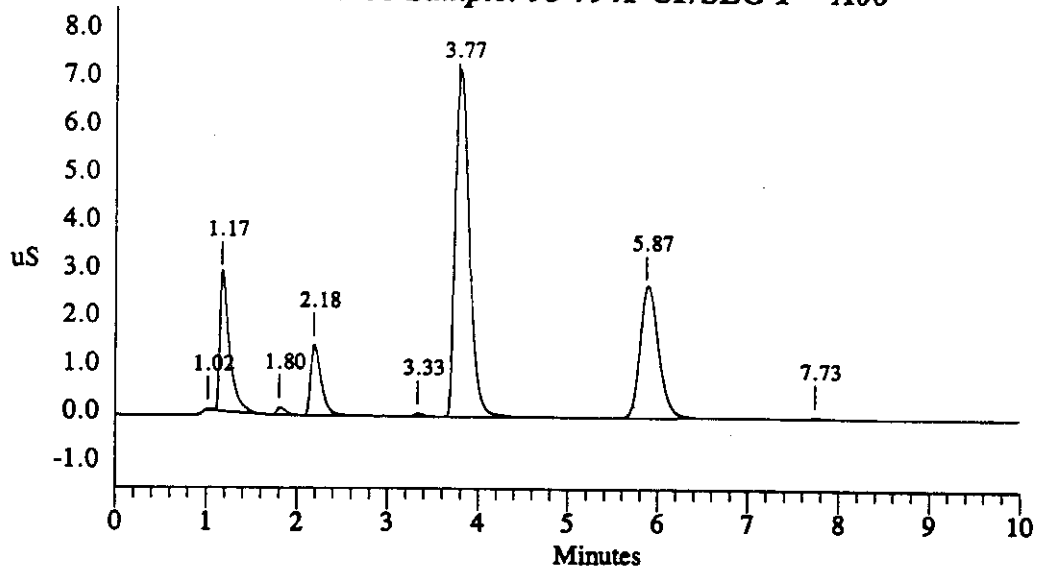
Sample Name: 95-7941-C1/SEG 1 - A06 Date: 09/08/1995 19:50:03
Data File : C:\DX\DATA\9509081\95090811.D06
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 6 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02		0.000	17242	89812	2	
2	1.17	FLUORIDE	68.413	2848011	21252524	2	0.93
3	1.80	CHLORIDE	9.564	144214	1064139	1	0.00
4	2.18	NITRITE	88.800	1451655	11982657	1	0.16
5	3.33	BROMIDE	9.684	63415	615595	1	4.05
6	3.77	NITRATE	559.798	6691789	79105259	1	0.00
7	5.87	PHOSPHATE	622.191	2696101	40105629	1	-0.47
8	7.73	SULFATE	21.694	32560	590575	1	0.00
		Totals	1380.144	13944989	154806190		

File: 95090811.D06 Sample: 95-7941-C1/SEG 1 - A06



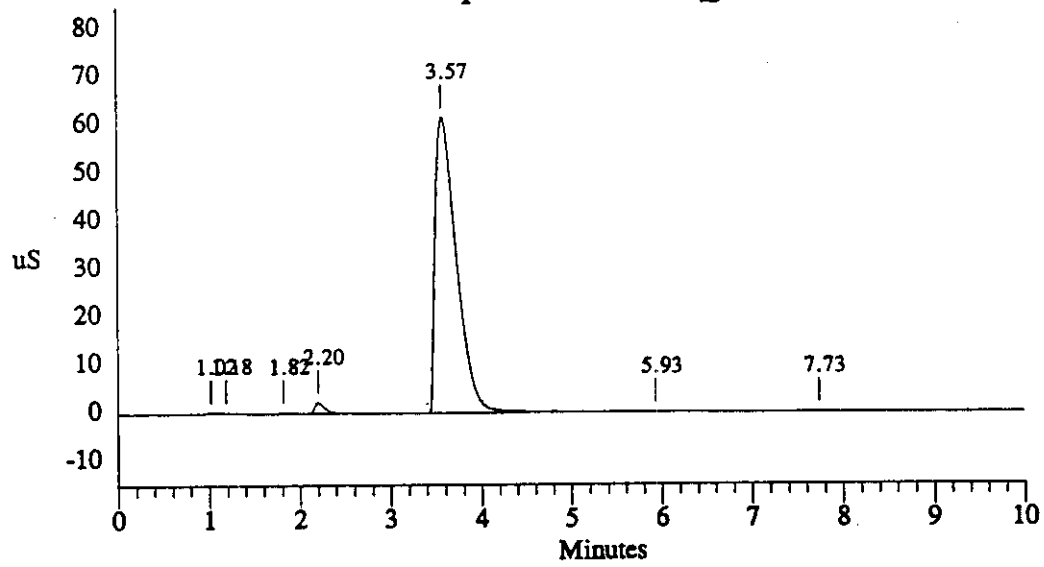
Sample Name: 95-7942-C1/QS2A - A07 Date: 09/08/1995 20:02:31
Data File : C:\DX\DATA\9509081\95090811.D07
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 7 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02		0.000	110678	765079	2	
2	1.18	FLUORIDE	12.030	148077	1769179	2	1.43
3	1.82	CHLORIDE	12.304	223073	1721267	1	0.00
4	2.20	NITRITE	126.082	2240345	18330205	1	0.00
5	3.57	NITRATE	5402.740	61615335	998092134	1	0.00
6	5.93	PHOSPHATE	29.437	68292	796550	1	6.31
7	7.73	SULFATE	23.513	50158	917891	1	0.00
		Totals	5606.106	64455957	1022392306		

File: 95090811.D07 Sample: 95-7942-C1/QS2A - A07



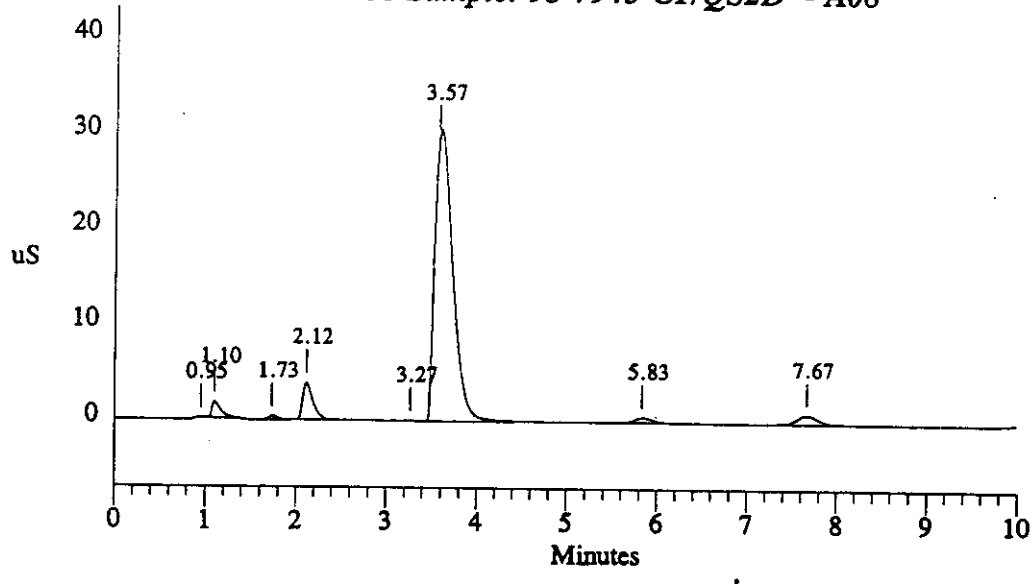
Sample Name: 95-7943-C1/QS2D - A08 Date: 09/08/1995 20:14:59
Data File : C:\DX\DATA\9509081\95090811.D08
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 8 Vial:A08 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95		0.000	51589	237248	1	
2	1.10	FLUORIDE	41.332	1711135	11872811	1	-1.18
3	1.73	CHLORIDE	16.631	375278	2760303	1	0.00
4	2.12	NITRITE	205.575	3896769	31863539	1	0.84
5	3.27	BROMIDE	5.932	32560	219013	1	5.89
6	3.57	NITRATE	2652.161	29521071	418075236	1	0.00
7	5.83	PHOSPHATE	144.128	552115	8231807	1	4.52
8	7.67	SULFATE	106.369	941537	15877799	1	0.00
		Totals	3172.127	37082054	489137755		

File: 95090811.D08 Sample: 95-7943-C1/QS2D - A08



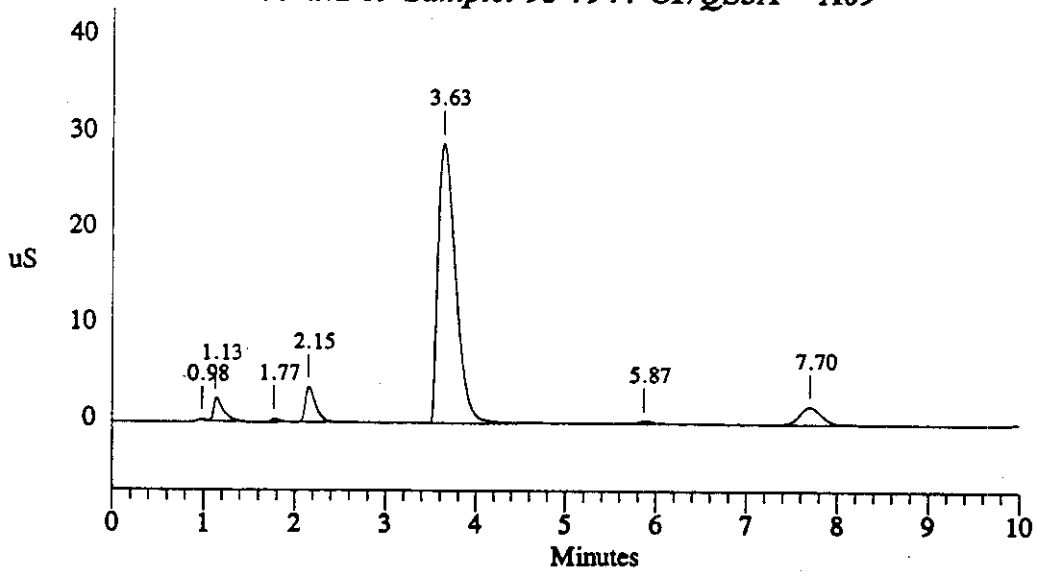
Sample Name: 95-7944-C1/QS3A - A09 Date: 09/08/1995 20:27:26
Data File : C:\DX\DATA\9509081\95090811.D09
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 9 Vial:A09 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98		0.000	100704	591821	2	
2	1.13	FLUORIDE	59.374	2326034	18117432	2	-0.11
3	1.77	CHLORIDE	15.647	329133	2523961	1	0.00
4	2.15	NITRITE	194.691	3610269	30010690	1	0.49
5	3.63	NITRATE	2522.046	29105290	395170716	1	0.00
6	5.87	PHOSPHATE	82.546	275734	4229878	1	3.19
7	7.70	SULFATE	187.376	1833586	30600999	1	0.00
		Totals	3061.681	37580751	481245497		

File: 95090811.D09 Sample: 95-7944-C1/QS3A - A09



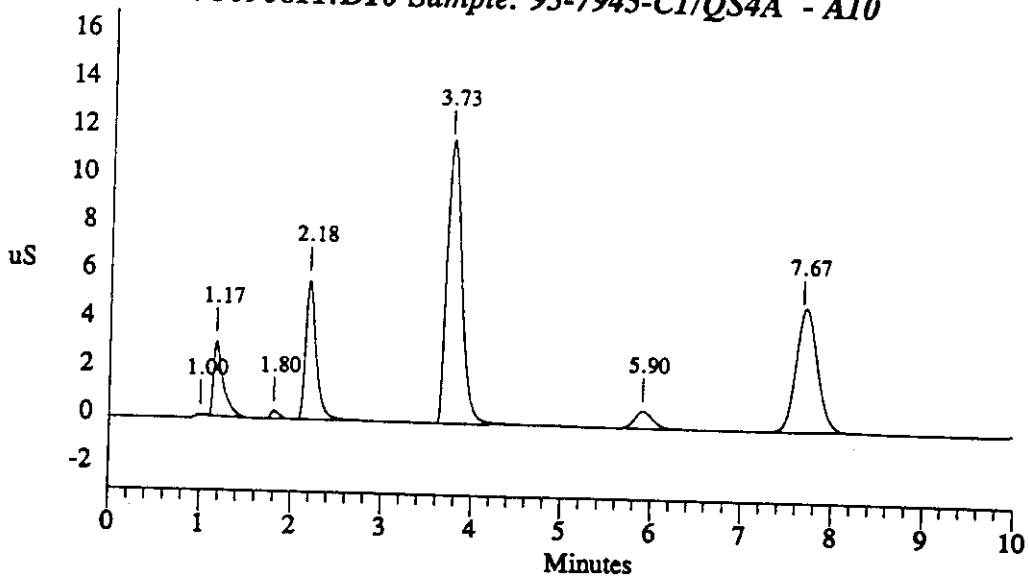
Sample Name: 95-7945-C1/QS4A - A10 Date: 09/08/1995 20:39:54
Data File : C:\DX\DATA\9509081\95090811.D10
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 10 Vial:A10 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00		0.000	54472	303229	2	
2	1.17	FLUORIDE	73.388	3117694	22980252	2	0.93
3	1.80	CHLORIDE	15.322	339148	2445779	1	0.00
4	2.18	NITRITE	297.793	5806232	47561944	1	0.16
5	3.73	NITRATE	936.358	11678980	136058974	1	0.00
6	5.90	PHOSPHATE	177.799	717554	10429561	1	0.99
7	7.67	SULFATE	484.620	4974931	85479636	1	0.00
		Totals	1985.280	26689010	305259374		

File: 95090811.D10 Sample: 95-7945-C1/QS4A - A10



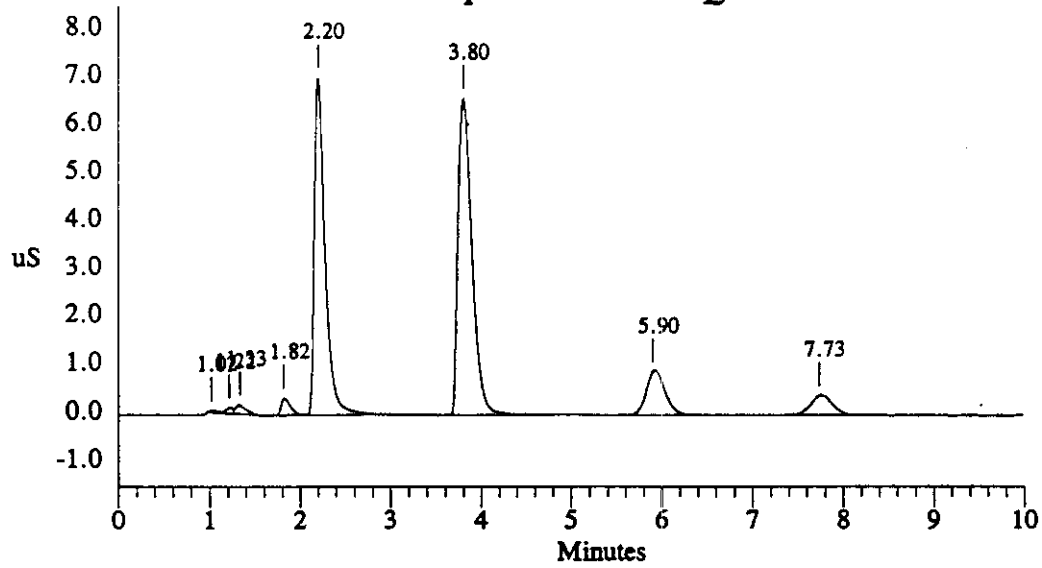
Sample Name: 95-7946-C1/QS4B - A11 Date: 09/08/1995 20:52:21
Data File : C:\DX\DATA\9509081\95090811.D11
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 11 Vial:A11 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02		0.000	34390	235193	2	
2	1.22	FLUORIDE	8.738	115777	637197	2	4.29
3	1.33		0.000	182078	1318172	2	
4	1.82	CHLORIDE	15.609	347359	2514704	1	0.00
5	2.20	NITRITE	356.854	7025828	57615048	1	0.00
6	3.80	NITRATE	506.268	6602906	71130901	1	0.00
7	5.90	PHOSPHATE	226.590	892072	13626370	1	-0.78
8	7.73	SULFATE	57.774	403707	7091716	1	0.00
		Totals	1171.833	15604118	154169301		

File: 95090811.D11 Sample: 95-7946-C1/QS4B - A11



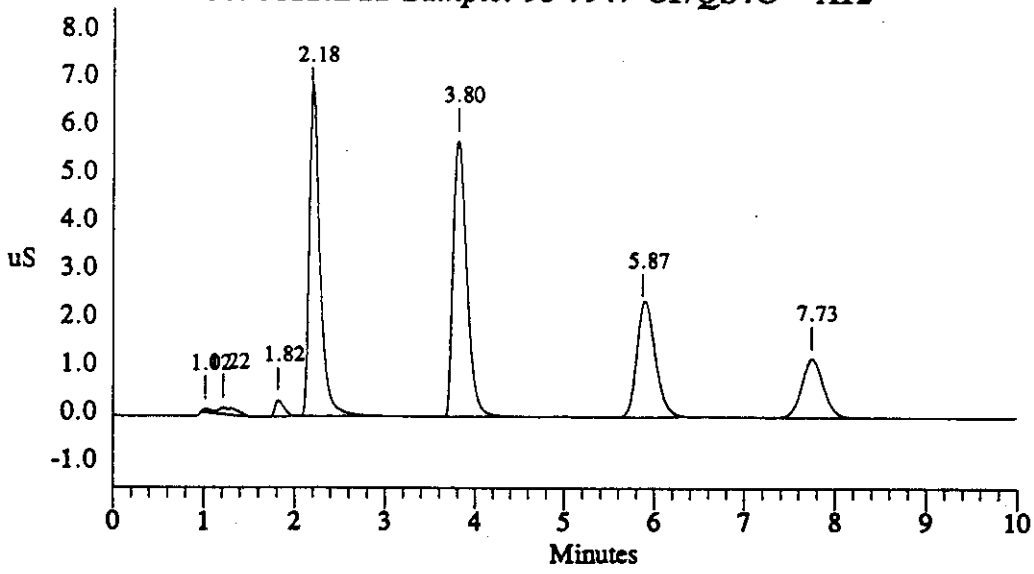
Sample Name: 95-7947-C1/QS4C - A12 Date: 09/08/1995 21:04:46
Data File : C:\DX\DATA\9509081\95090811.D12
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 12 Vial:A12 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02		0.000	65948	454413	2	
2	1.22	FLUORIDE	12.837	139367	2046933	2	4.29
3	1.82	CHLORIDE	15.426	340774	2470718	1	0.00
4	2.18	NITRITE	353.229	6580344	56997982	1	-0.76
5	3.80	NITRATE	438.064	5745587	61012903	1	0.00
6	5.87	PHOSPHATE	546.041	2306928	34928427	1	-1.34
7	7.73	SULFATE	133.863	1225468	20864096	1	0.00
		Totals	1499.459	16404416	178775472		

File: 95090811.D12 Sample: 95-7947-C1/QS4C - A12



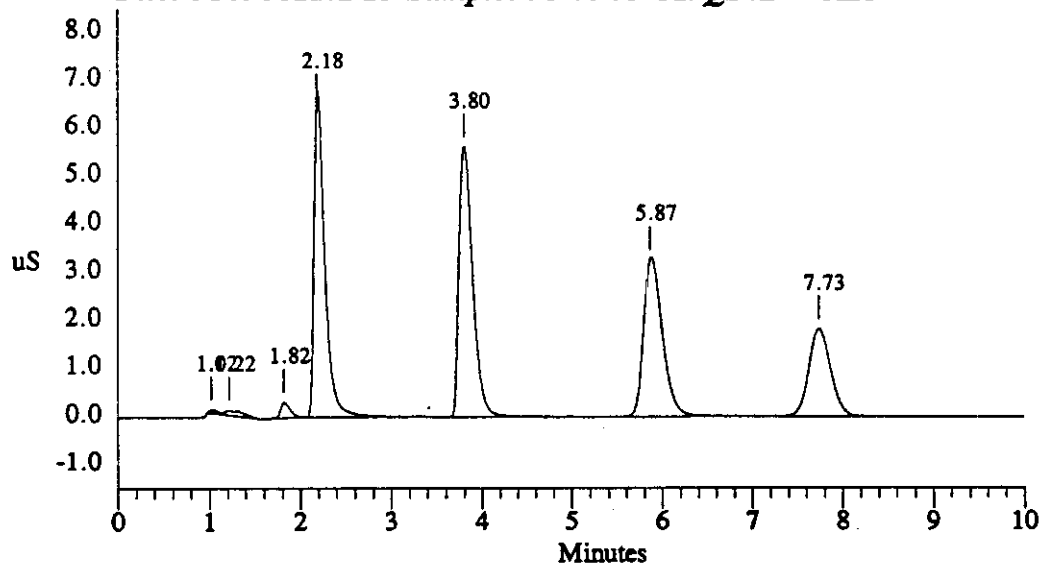
Sample Name: 95-7948-C1/QS4D - A13 Date: 09/08/1995 21:17:11
Data File : C:\DX\DATA\9509081\95090811.D13
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 13 Vial:A13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.02		0.000	69327	468896	2	
2	1.22	FLUORIDE	11.703	107254	1656610	2	4.29
3	1.82	CHLORIDE	15.076	324607	2386748	1	0.00
4	2.18	NITRITE	346.073	6460617	55779967	1	-0.76
5	3.80	NITRATE	430.733	5628607	59928151	1	0.00
6	5.87	PHOSPHATE	743.810	3280976	48457420	1	-1.34
7	7.73	SULFATE	188.451	1827274	30797103	1	0.00
		Totals	1735.845	17698662	199474895		

File: 95090811.D13 Sample: 95-7948-C1/QS4D - A13



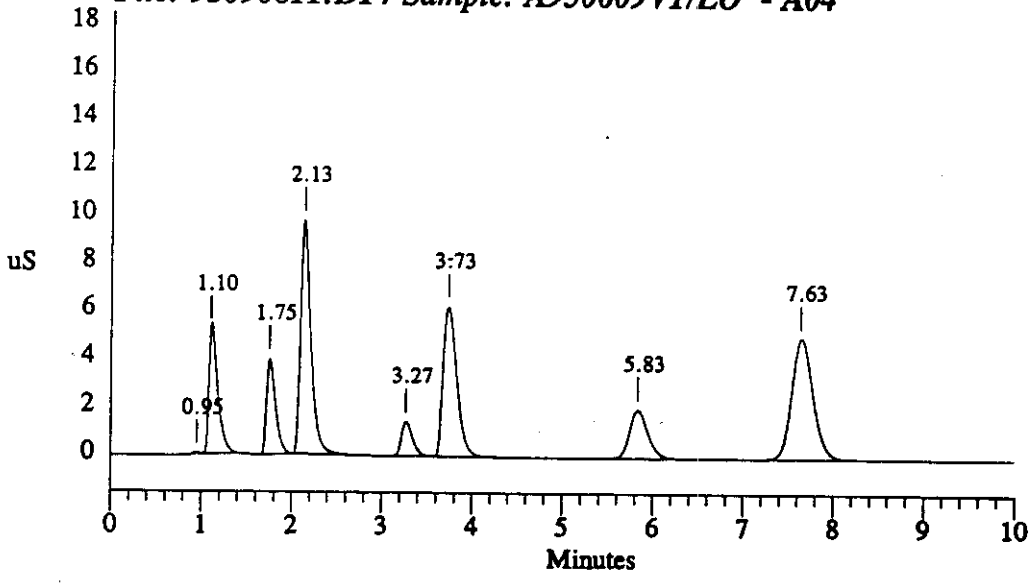
Sample Name: A950609V1/LO - A04 Date: 09/08/1995 21:29:51
Data File : C:\DX\DATA\9509081\95090811.D14
Method : c:\dx\method\lanions1.met
ACI Address: 1 System: 1 Inject#: 14 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95		0.000	46788	239588	2	
2	1.10	FLUORIDE	22.812	5189114	37157680	2	-2.12
3	1.75	CHLORIDE	23.717	3992652	27635920	1	0.00
4	2.13	NITRITE	95.377	9751396	78044030	1	0.66
5	3.27	BROMIDE	24.467	1448073	12445772	1	4.88
6	3.73	NITRATE	94.992	6253210	66480773	1	0.00
7	5.83	PHOSPHATE	92.640	2055117	29340924	1	-0.15
8	7.63	SULFATE	95.639	5051355	84278465	1	0.00
		Totals	449.645	33787705	335623153		

File: 95090811.D14 Sample: A950609V1/LO - A04



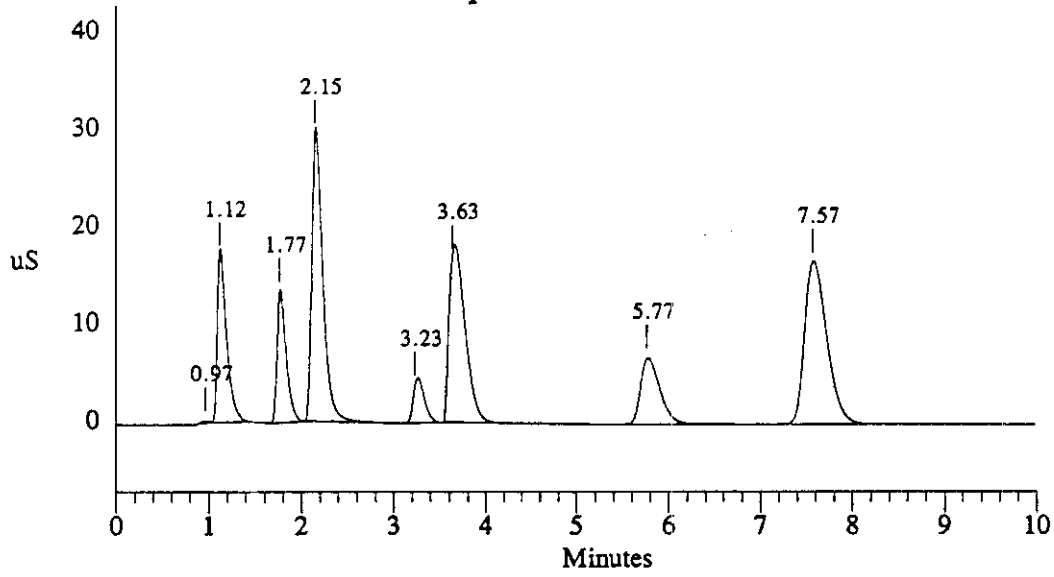
Sample Name: A950609V2/MID - A04	Date: 09/08/1995 21:42:52
Data File : C:\DX\DATA\9509081\95090811.D15	
Method : c:\dx\method\1anions1.met	
ACI Address: 1 System: 1 Inject#: 15 Vial:A04	Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97		0.000	230519	1259316	2	
2	1.12	FLUORIDE	23.935	17043750	124622818	2	-1.58
3	1.77	CHLORIDE	24.351	13347969	91360883	1	0.00
4	2.15	NITRITE	99.334	29528301	250365219	1	0.49
5	3.23	BROMIDE	25.228	3898873	38808714	1	2.83
6	3.63	NITRATE	97.566	16825357	218490764	1	0.00
7	5.77	PHOSPHATE	98.729	6797410	101505743	1	1.43
8	7.57	SULFATE	99.956	16631636	284272829	1	0.00
		Totals	469.100	104303816	1110686286		

File: 95090811.D15 Sample: A950609V2/MID - A04



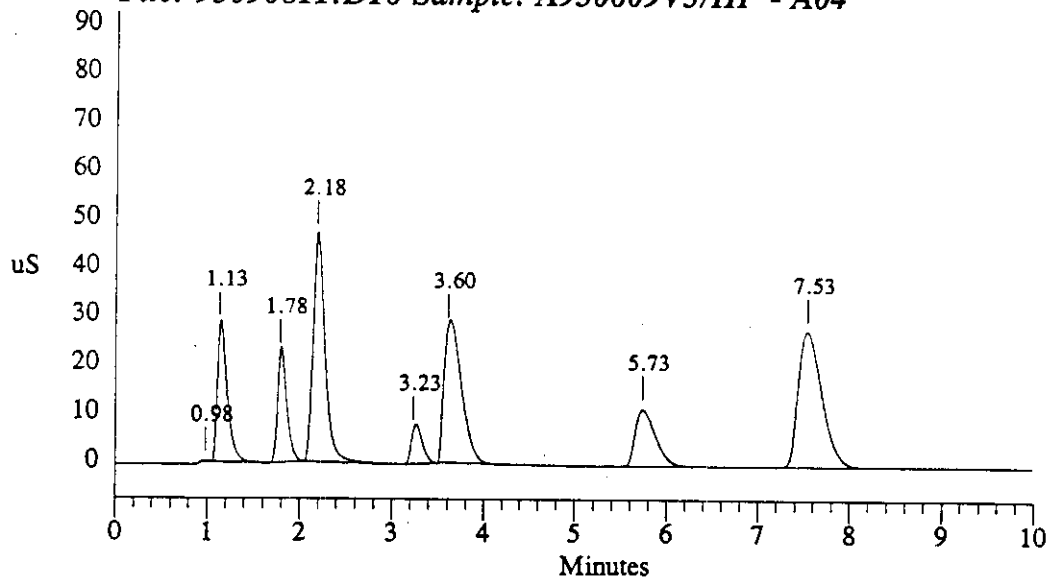
Sample Name: A950609V3/HI - A04 Date: 09/08/1995 21:56:19
Data File : C:\DX\DATA\9509081\95090811.D16
Method : c:\dx\method\1anions1.met
ACI Address: 1 System: 1 Inject#: 16 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A-SC

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98		0.000	127769	498833	2	
2	1.13	FLUORIDE	24.057	28031143	215026791	2	-1.04
3	1.78	CHLORIDE	24.517	22494618	161581470	1	0.00
4	2.18	NITRITE	99.117	46869746	418208628	1	1.10
5	3.23	BROMIDE	25.866	6950454	65681878	1	1.87
6	3.60	NITRATE	97.062	27814615	378538904	1	0.00
7	5.73	PHOSPHATE	99.632	11658520	182694222	1	1.78
8	7.53	SULFATE	100.098	27903791	502753026	1	0.00
		Totals	470.348	171850657	1924983753		

File: 95090811.D16 Sample: A950609V3/HI - A04



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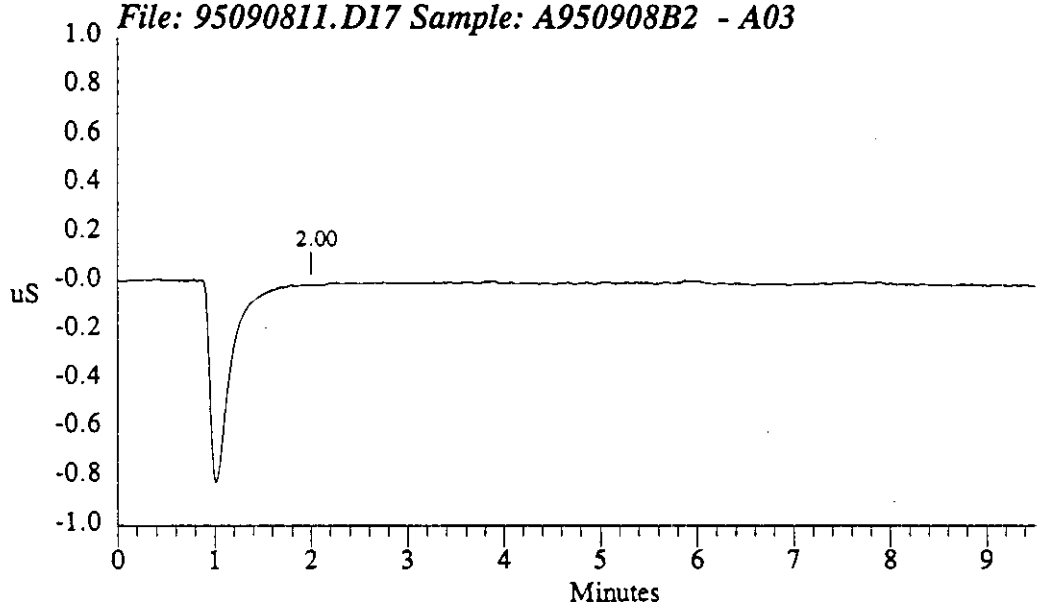
Sample Name: A950908B2  - A03                Date: 09/08/1995 22:28:27
Data File  : C:\DX\DATA\9509081\95090811.D17
Method     : c:\dx\method\1anions1.met
ACI Address: 1  System: 1  Inject#: 17  Vial:A03        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A-SC
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	2856	5Hz	0.00	9.52	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95090811.D17 Sample: A950908B2 - A03



AI-450 AS3500 Editor - 09182SCH.AS3

#	Vial Pos	Inj. Vol.	Inj/ Vial	Sample	Method (.MET)	Data	Dil.	Int. Std.	Template (.PRP)
1	A04	5	1	A950609V1/LO	2anions2	95091821	1	1	
2	A04	15	1	A950609V2/MID	2anions2	95091821	1	1	
3	A04	25	1	A950609V3/HI	2anions2	95091821	1	1	
4	A01	100	1	A9509182B1	2anions2	95091821	1	1	
5	A04	5	1	A950609V1/LO	2anions2	95091821	1	1	
6	A04	15	1	A950609V2/MID	2anions2	95091821	1	1	
7	A08	1	1	SPIKE CHECK 950713	2anions2	95091821	1	1	
8	A06	1	1	AUTOCAL1R	2anions2	95091821	1	1	
9	A06	2	1	AUTOCAL2R	2anions2	95091821	1	1	
10	A07	5	1	AUTOCAL3R	2anions2	95091821	1	1	
11	A07	10	1	AUTOCAL4R	2anions2	95091821	1	1	
12	A07	20	1	AUTOCAL5R	2anions2	95091821	1	1	
13	A07	30	1	AUTOCAL6R	2anions2	95091821	1	1	
14	A06	1	1	CAL CHECK 1	2anions2	95091821	1	1	
15	A07	30	1	CAL CHECK 6	2anions2	95091821	1	1	
16	A04	5	1	A950609V1/LO	2anions2	95091821	1	1	
17	A04	15	1	A950609V2/MID	2anions2	95091821	1	1	
18	A04	25	1	A950609V3/HI	2anions2	95091821	1	1	
19	A01	100	3	A9509182B2	2anions2	95091821	1	1	
20	A08	1	1	SPIKE CHECK 950713	2anions2	95091821	1	1	
21	A09	100	1	95-7932-C1/SEG2	2anions2	95091821	100	1	
22	A10	100	1	MS95-7932-C1/SEG2	2anions2	95091821	100	1	
23	A11	100	1	MSD95-7932-C1/SEG2	2anions2	95091821	100	1	
24	A12	100	1	95-7932-C1/SEG2	2anions2	95091821	20	1	
25	A13	100	1	MS95-7932-C1/SEG2	2anions2	95091821	20	1	
26	A14	100	1	MSD95-7932-C1/SEG2	2anions2	95091821	20	1	
27	B26	5	1	MS95-7932-C4/SEG2	2anions2	95091421	1	1	
28	A15	100	1	95-7941-C1/SEG1	2anions2	95091821	50	1	
29	A16	100	1	MS95-7941-C1/SEG1	2anions2	95091821	50	1	
30	A17	100	1	MSD95-7941-C1/SEG1	2anions2	95091821	50	1	
31	A05	5	1	A950609V1/LO	2anions2	95091821	1	1	
32	A05	15	1	A950609V2/MID	2anions2	95091821	1	1	
33	A05	25	1	A950609V3/HI	2anions2	95091821	1	1	
34	A02	100	1	A9509182B3	2anions2	95091821	1	1	
35	A18	100	1	95-7941-C1/SEG1	2anions2	95091821	20	1	
36	A19	100	1	MS95-7941-C1/SEG1	2anions2	95091821	20	1	
37	A20	100	1	MSD95-7941-C1/SEG1	2anions2	95091821	20	1	
38	A21	100	1	MS95-7932-C4/SEG2	2anions2	95091421	100	1	
39	A22	100	1	MS95-7932-C4/SEG2	2anions2	95091421	20	1	
40	A23	100	1	MS95-7941-C4/SEG1	2anions2	95091421	100	1	
41	A24	100	1	MS95-7941-C4/SEG1	2anions2	95091421	20	1	
42	A05	5	1	A950609V1/LO	2anions2	95091421	1	1	
43	A05	15	1	A950609V2/MID	2anions2	95091421	1	1	
44	A05	25	1	A950609V3/HI	2anions2	95091421	1	1	
45	A03	100	1	A9509182B4	2anions2	95091421	1	1	
46	A39	100	2	DDI	2anions2	95091421	1	1	
47	A40	1	1	NO RUN	2shutdn	95091421	1	1	

More Run Parameters

#	Vial Pos	Oven Ctl	Oven Set	Cool Ctl	Cool Set	Cycle Time	Flush Vol	Visc Factor	Prep Visc	Inj Type	Needle Height

1	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
2	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
3	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
4	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
5	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
6	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
7	A08	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
8	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
9	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
10	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
11	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
12	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
13	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
14	A06	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
15	A07	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
16	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
17	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
18	A04	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
19	A01	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
20	A08	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
21	A09	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
22	A10	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
23	A11	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
24	A12	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
25	A13	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
26	A14	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
27	B26	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
28	A15	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
29	A16	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
30	A17	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
31	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
32	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
33	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
34	A02	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
35	A18	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
36	A19	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
37	A20	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
38	A21	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
39	A22	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
40	A23	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
41	A24	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
42	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
43	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
44	A05	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
45	A03	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
46	A39	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0
47	A40	Off	18	Off	0	0.00	500	Viscous	Viscous	Push	2.0

Comment:

DIONEX METHOD PARAMETERS - 2ANIONS2.MET

Method Comment: CALIBRATED ON 07/31/95 USING CAL STDS PREPD. 06/09/95. *** FLOW RATE: 1.8 MLS/ MIN*** SRS WAS SUPPLIED WITH DDI WATER VIA A POSITIVE DISPLACEMENT PUMP AT 14 STROKE RATE.
Column ID: AG4A/AS4A
Analyst ID: MMO

System Parameters

System Name: ANIONS2	
Number of Detectors	1
Run Time (minutes)	10.00
Sampling Rate (seconds)	0.20
Detector 1 Type	PED-Cond.
Detector 1 real time plot scale maximum (uS)	10.000
minimum	-1.000
Save Data File	Yes
Data File Name: C:\DX\DATA\9502102\95021021.D08	

-- DETECTOR 1 PARAMETERS --

Report Options

Create ASCII Report File	No
Print Report	Yes
Print All Components	No
Print Components Found	No
Print Missing Components	No
Print All Peaks	Yes
Print Unknown Peaks	No
Print Chromatogram	Yes
Autoscale Chromatogram Maximum	Yes
Autoscale Maximum Value Delay (minutes)	0.0
Autoscale Chromatogram Minimum	Yes
Autoscale Minimum Value Delay (minutes)	0.0
Fill Peaks with Color	No
Draw Grid Lines on Chromatogram	No
Show Component Fraction Numbers	No
Label with Peak Number	No
Label with Retention Times on Chromatogram	Yes
Label with Component Name	No
Format File Name: C:\DX\METHOD\DEFAULT.PRF	

Integration Parameters

Starting Peak Width (seconds)	10.0
Peak Threshold	24.662
Peak Area Reject	30000
Area Reject for Reference Peaks	30000

Data Events

Time	Description
0.00	Force exponential skim
0.00	Stop peak detection
0.85	Start peak detection
1.08	Void volume treatment for this peak
2.00	Force baseline at start of all peaks
2.70	Double bunching factor

Calibration Parameters

Number Of Levels for Calibration	6
Force Calibration Curve Through Origin	No
Calibration Fit Type	Quadratic
Replace Or Average Calibrations	Replace
External or Internal Calibration	External
Calculate Unknowns by Area or Height	Area
Default Sample Volume	100.0
Default Dilution Factor	1.0
Default Response Factor for Unknown Peaks	0.0
Calibration Standard Volume	100.0
Internal Standard Amount in Samples	1.0
Amount Units	ppm

Component Table -- Last Modified: 14:00 on Mon, 18 Sep 1995

Component # 1 FLUORIDE Retention Time 0.98
Reference Comp. CHLORIDE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 8.16165E-002
K1 = 2.11865E-008
K2 = -1.11257E-018

Level	Amount	Area	Height
1	2.50000E-001	7688848	2989495
2	5.00000E-001	20814795	6368331
3	1.25000E+000	54095213	12675747
4	2.50000E+000	115247767	41482205
5	5.00000E+000	235116739	75389138
6	7.50000E+000	356783699	102103335

Component # 2 CHLORIDE Retention Time 1.63
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 9.31211E-002
K1 = 3.48126E-008
K2 = -2.27204E-017

Level	Amount	Area	Height
1	2.50000E-001	4845472	1281974
2	5.00000E-001	12762730	3791184
3	1.25000E+000	32854046	9149777
4	2.50000E+000	71439884	21545453
5	5.00000E+000	158532798	42934701
6	7.50000E+000	254764252	61024964

Component # 3 NITRITE Retention Time 2.05
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.91038E-001
K1 = 5.15522E-008
K2 = -1.26181E-018

Level	Amount	Area	Height
1	5.00000E-001	6598712	1410918
2	1.00000E+000	16783393	3563434
3	5.00000E+000	91218361	20860747
4	1.00000E+001	190789608	36750621
5	2.00000E+001	389503942	70520219
6	3.00000E+001	586048139	99052306

Component # 4 BROMIDE Retention Time 3.10
Reference Comp. CHLORIDE Window Size 8.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.19464E-002
K1 = 9.55817E-008
K2 = -1.36222E-016

Level	Amount	Area	Height
1	2.50000E-001	2117672	270324
2	5.00000E-001	5299024	627037
3	1.25000E+000	13300785	1792125
4	2.50000E+000	26693754	2995385
5	5.00000E+000	56751424	7463468
6	7.50000E+000	89685794	13302163

Component # 5 NITRATE Retention Time 3.47
Reference Comp. NITRATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 2.08237E-001
K1 = 6.58582E-008
K2 = -2.03650E-017

Level	Amount	Area	Height
1	5.00000E-001	5394104	510985
2	1.00000E+000	13657420	1345961
3	5.00000E+000	72719418	7206070
4	1.00000E+001	152684299	13922341
5	2.00000E+001	339571749	28086330
6	3.00000E+001	542230875	46711030

Component # 6 PHOSPHATE Retention Time 5.70
Reference Comp. NITRATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.85536E-001
K1 = 1.33466E-007
K2 = -8.59730E-017

Level	Amount	Area	Height
1	5.00000E-001	2766551	190273
2	1.00000E+000	7130851	481994
3	5.00000E+000	35850351	2699095
4	1.00000E+001	75695444	5833662
5	2.00000E+001	168444924	12619223
6	3.00000E+001	269720570	19920959

Component # 7 SULFATE Retention Time 7.50
Reference Comp. SULFATE Window Size 10.00 %
Amount = K0 + K1*Area + K2*Area**2
K0 = 1.60341E-001
K1 = 5.20750E-008
K2 = -1.30835E-017

Level	Amount	Area	Height
1	5.00000E-001	7462291	379976
2	1.00000E+000	18300828	942354
3	5.00000E+000	92954239	5015693
4	1.00000E+001	194977955	10689588
5	2.00000E+001	431622216	23332161
6	3.00000E+001	692233250	36665126

Timed Events File: C:\DX\METHOD\2ANIONS2.TE

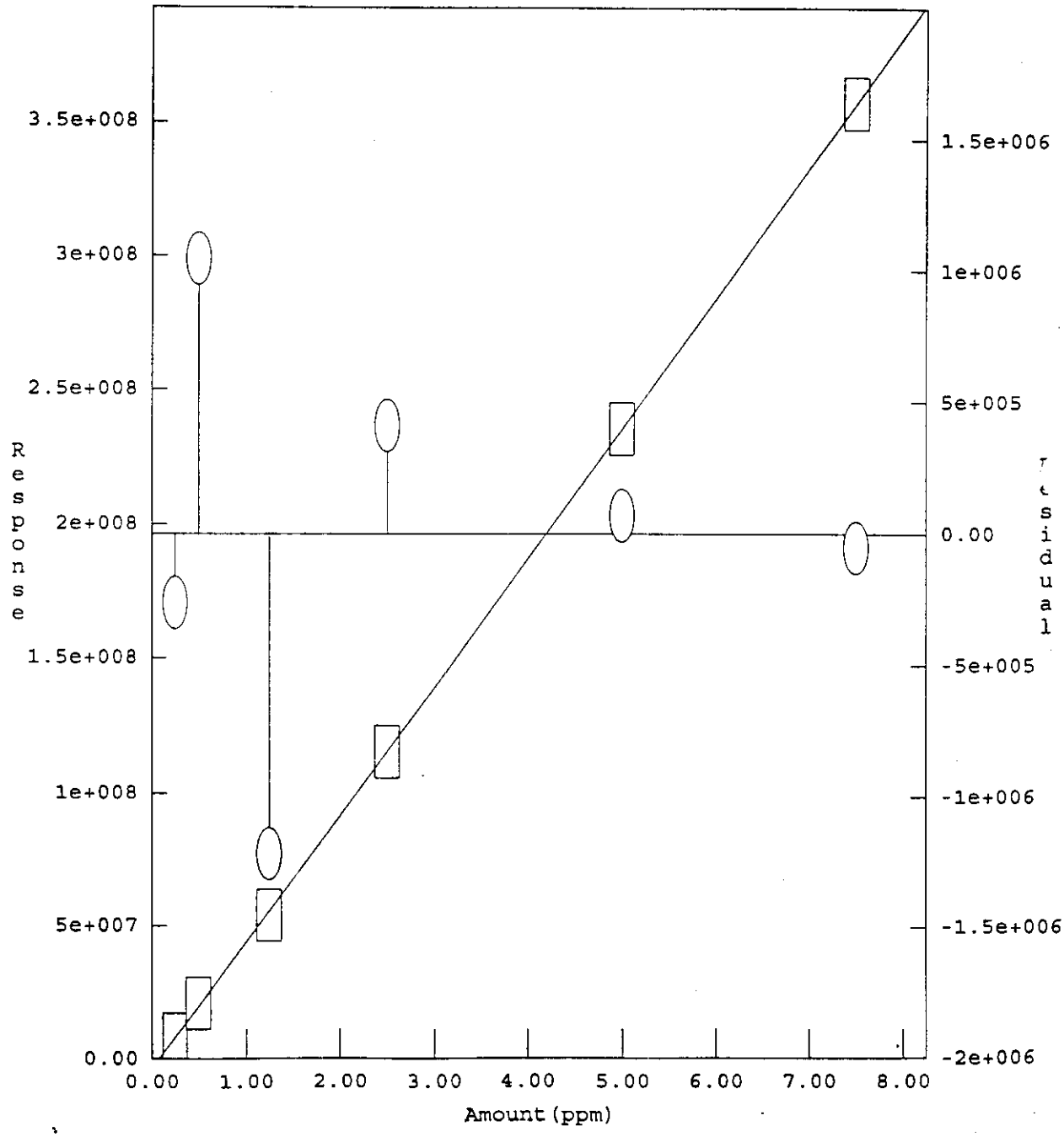
Step	Time	Description
Init		PED AutoOffset Off
Init		PED Cell ON
Init		PED Recorder Mark OFF
Init		PED Recorder Range = 0.100 uS
Init		ACI RLY 2 OFF
Init		ACI RLY 3 OFF
Init		ACI RLY 4 OFF
Init		ACI HOLD 2 OFF
Init		ACI TTL 3 OFF
Init		ACI TTL 4 OFF
Init		ACI Regen ON
Init		GPM Start
Init		GPM Hold Gradient Clock
Init		GPM Reset ON
1	0.0	PED AutoOffset ON
1	0.0	GPM Run Gradient Clock
1	0.0	GPM Reset OFF
2	0.1	Start Sampling

```
 Lo Pressure Limit = 0
Hi Pressure Limit = 5000
Eluent 1 - Eluant 1 CO3 / HCO3
Eluent 2 - Eluant 2
Eluent 3 - Eluant 3
Eluent 4 - Eluant 4
V5 Off - Off
V5 On  - On
V6 Off - Off
V6 On  -
```

Time	Flow	%1	%2	%3	%4	V5	V6	Comment
0.0	1.8	100	0	0	0	0	0	1CLEANUP
0.1	1.8	100	0	0	0	0	0	
1.1	1.8	100	0	0	0	0	0	

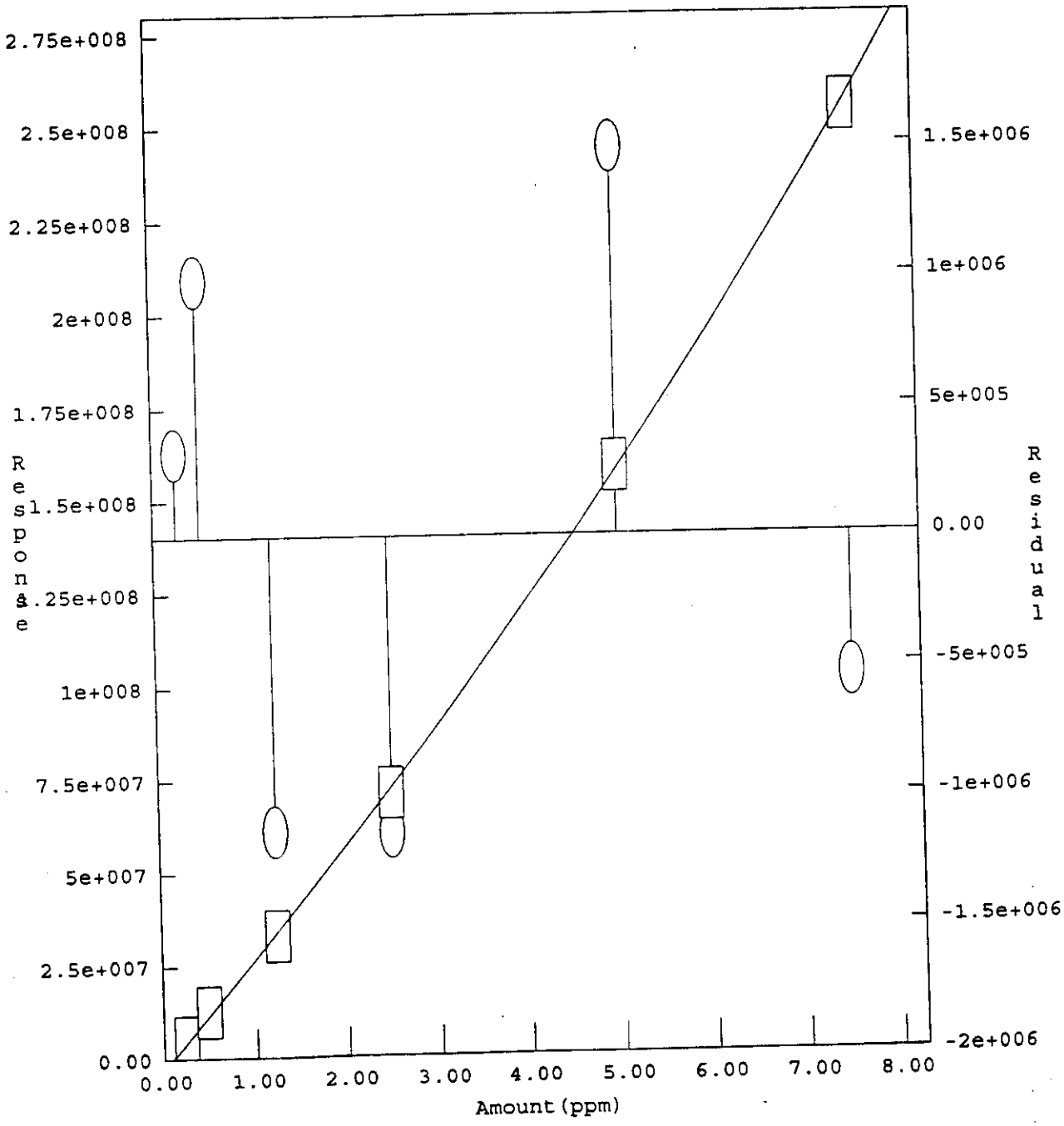
```
 PED file: C:\DX\METHOD\2ANIONS2.PCD
Temperature:   1.7  Deg. C
```

Method: 2ANIONS2.MET - Last Updated: 14:00 Component: FLUORIDE
Fit Type: Quadratic
r^2 = 0.999970 Sum(abs(Residuals)) = 3.0474e+006
Amt = (-1.112567e-018 * Resp²)+
(2.118654e-008 * Resp)+ 0.0816
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\2ANIONS2.MET

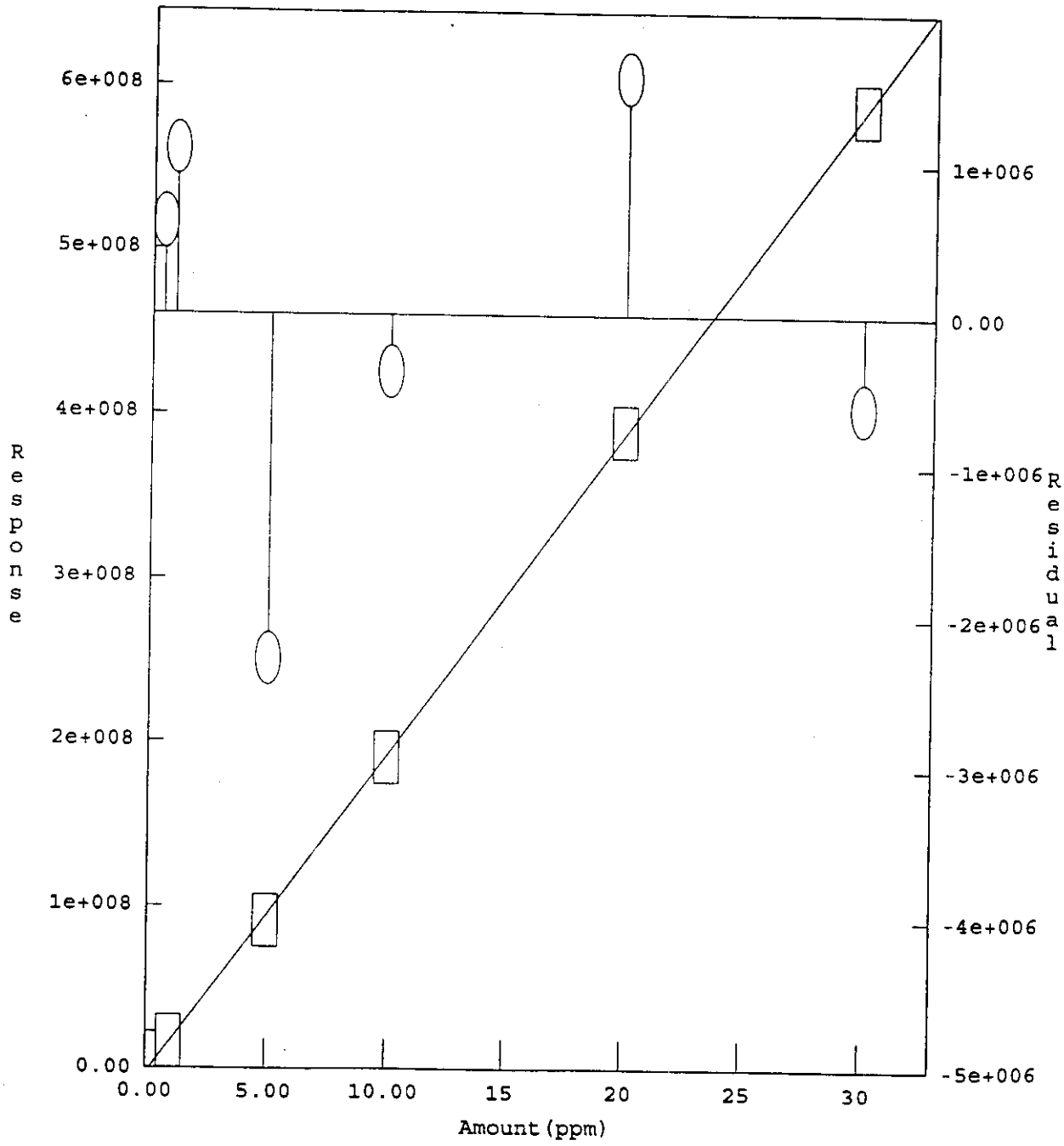
Component: CHLORIDE
Fit Type: Quadratic
r^2 = 0.999859 Sum(abs(Residuals)) = 5.6019e+006
Amt = (-2.272037e-017 * Resp^2)+
(3.481260e-008 * Resp)+ 0.0931
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\2ANIONS2.MET

Component: NITRITE
Fit Type: Quadratic
r^2 = 0.999963 Sum(abs(Residuals)) = 6.5202e+006
Amt = (-1.261808e-018 * Resp²)+
(5.155222e-008 * Resp)+ 0.1910
Standardization: External
Calibration: Area

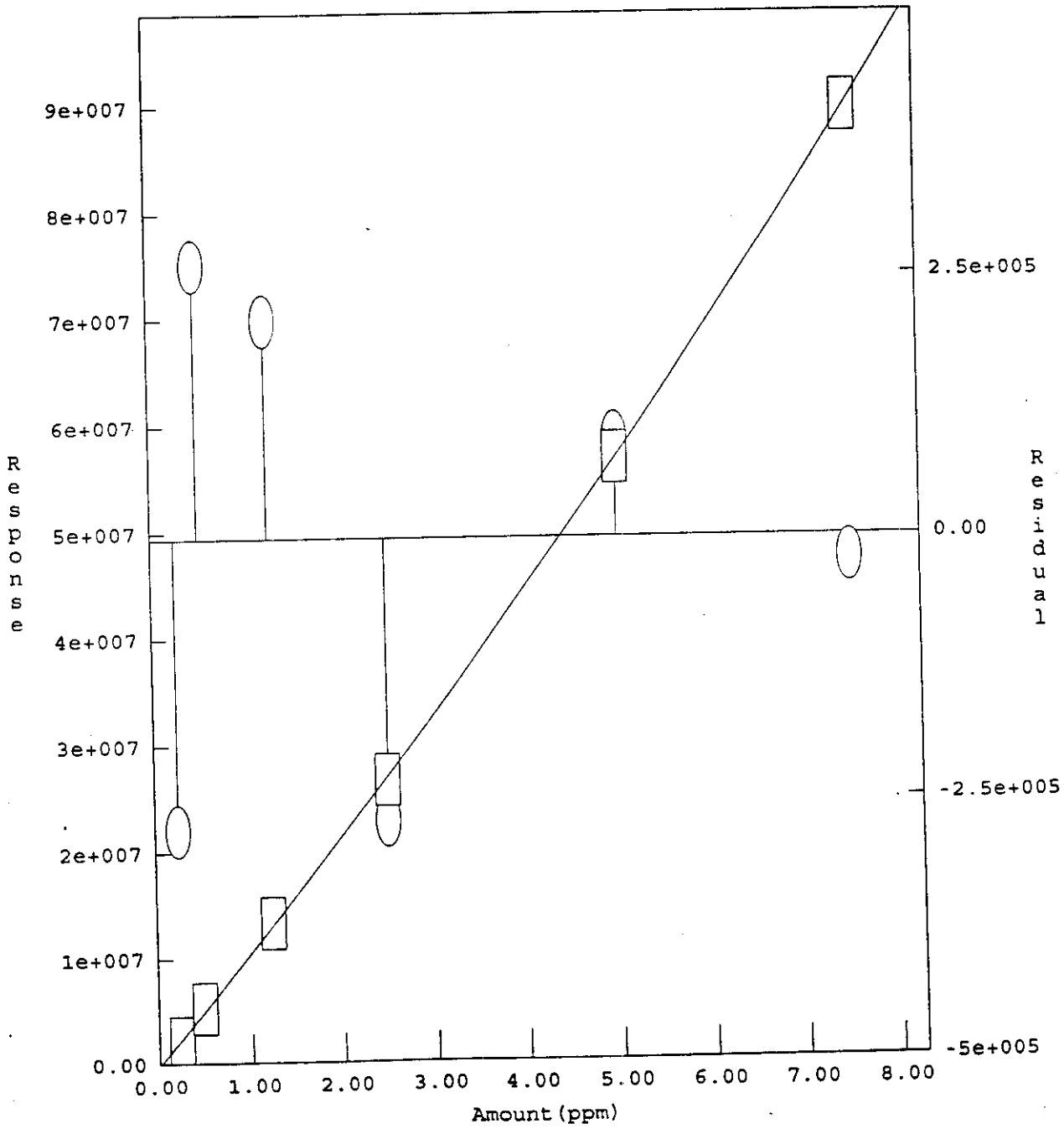
WHC-SD-WM-DP-145, REV. 1



Method: C:\DX\METHOD\2ANIONS2.MET

WHC-SD-WM-DP-145, REV. 1

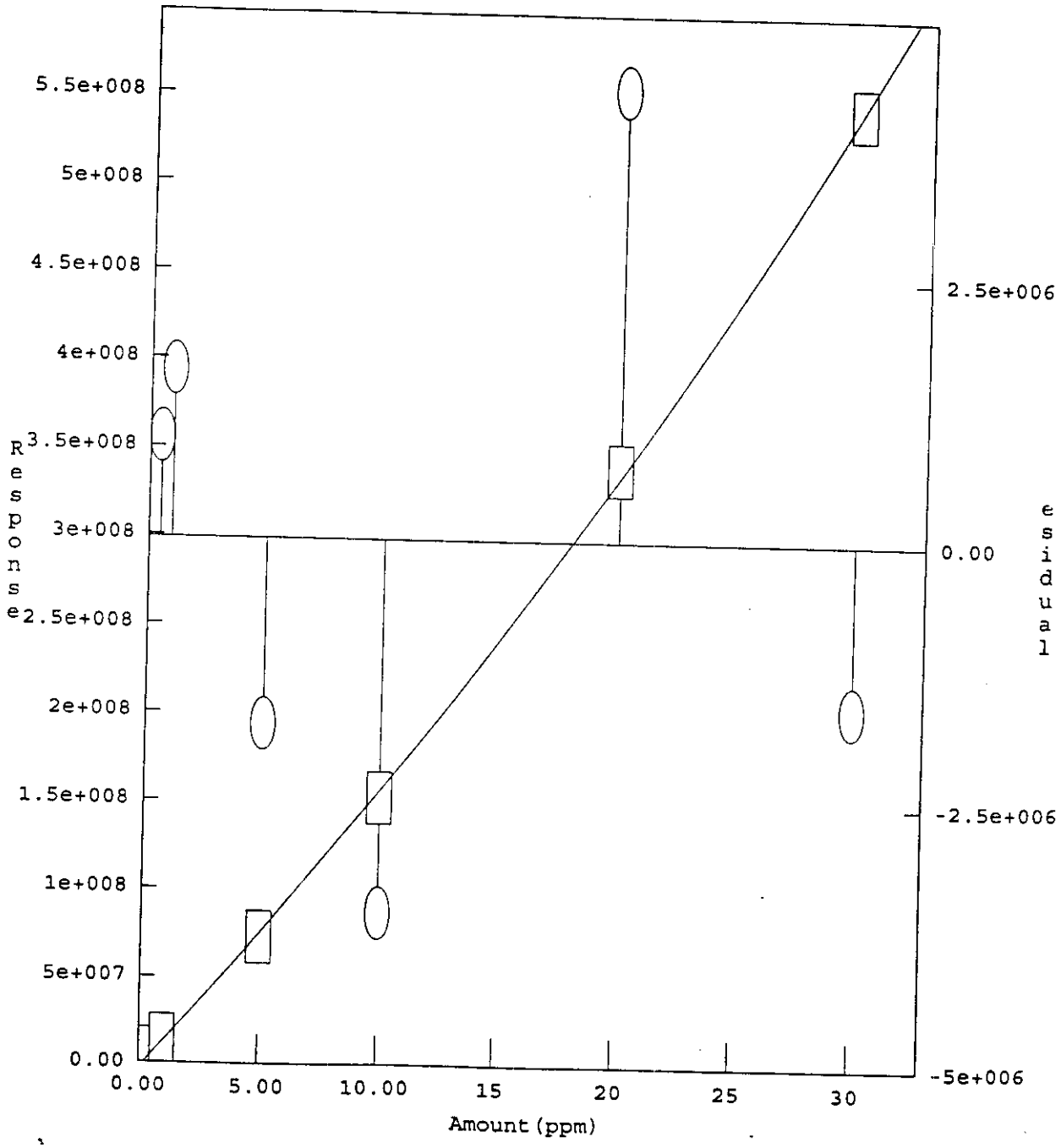
Component: BROMIDE
Fit Type: Quadratic
r^2 = 0.999945 Sum(abs(Residuals)) = 1.1296e+006
Amt = (-1.362223e-016 * Resp^2)+
(9.558171e-008 * Resp)+ 0.0219
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\2ANIONS2.MET

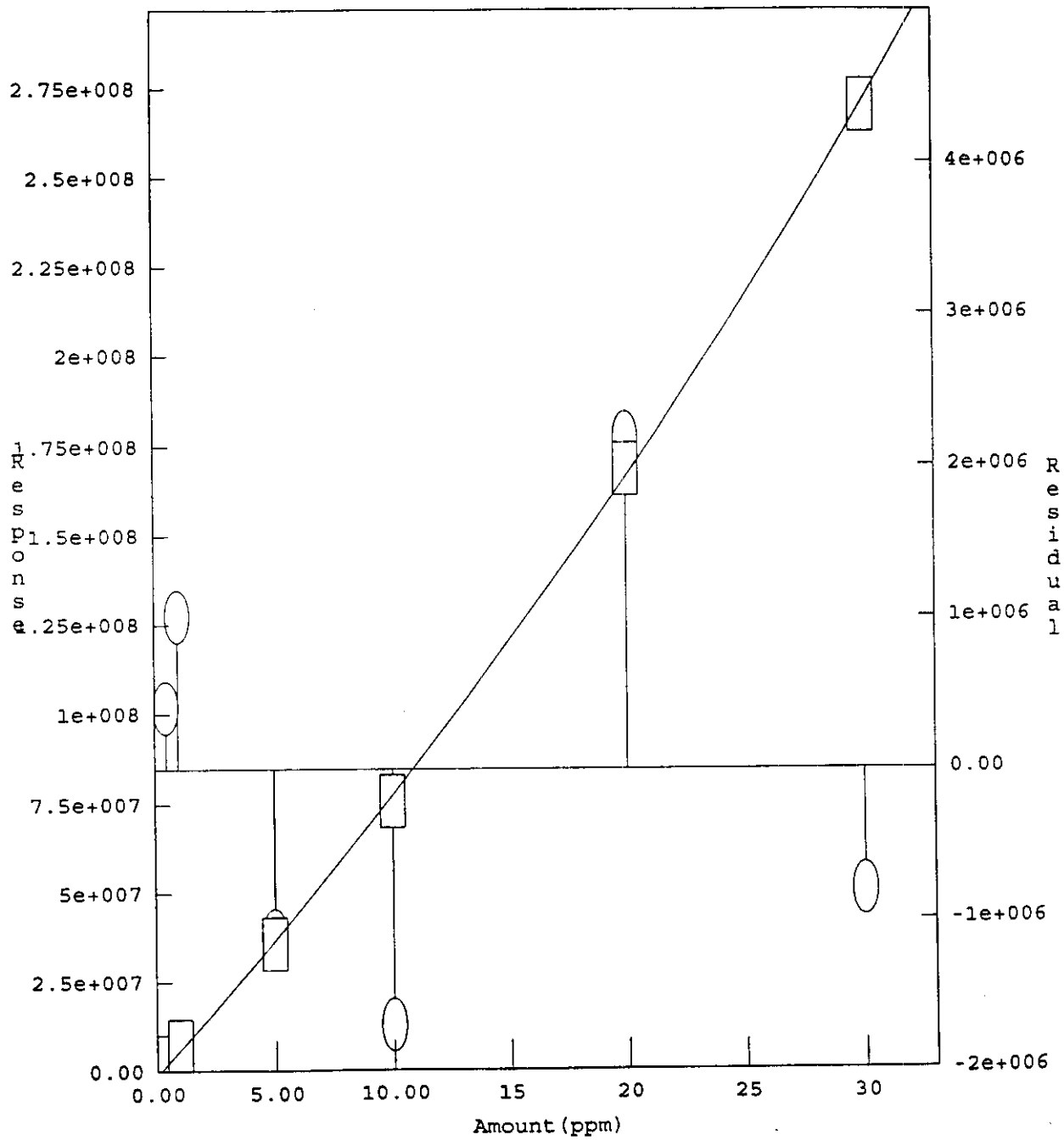
Component: NITRATE
Fit Type: Quadratic
r^2 = 0.999817 Sum(abs(Residuals)) = 1.3713e+007
Amt = (-2.036502e-017 * Resp^2)+
(6.585818e-008 * Resp)+ 0.2082
Standardization: External
Calibration: Area

WHC-SD-WM-DP-145, REV. 1



Method: C:\DX\METHOD\2ANIONS2.MET

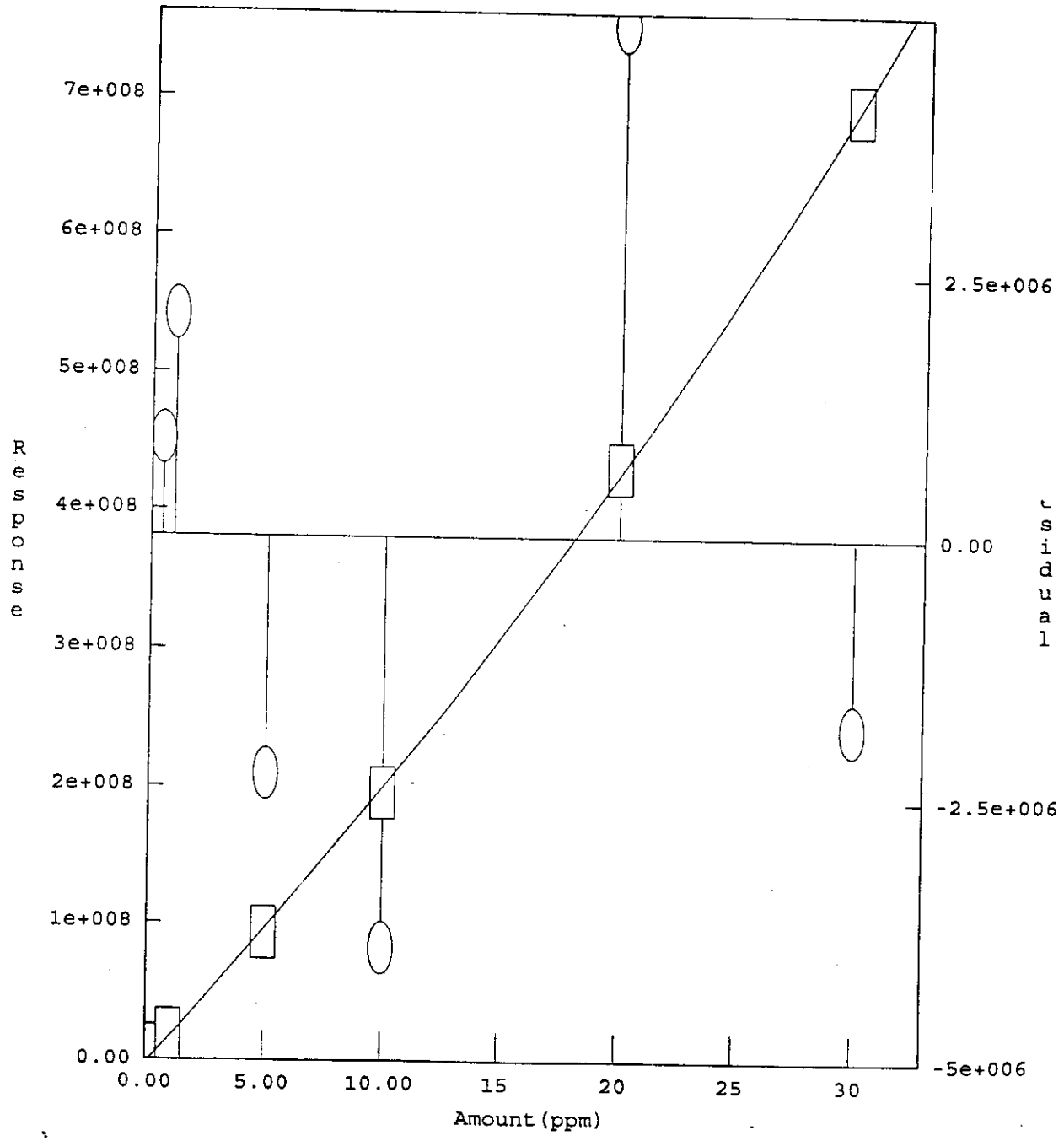
Component: PHOSPHATE WHC-SD-WM-DP-145, REV. 1
Fit Type: Quadratic
r^2 = 0.999799 Sum(abs(Residuals)) = 7.1964e+006
Amt = (-8.597305e-017 * Resp^2)+
(1.334660e-007 * Resp)+ 0.1855
Standardization: External
Calibration: Area



Method: C:\DX\METHOD\2ANIONS2.MET

Component: SULFATE
Fit Type: Quadratic
r^2 = 0.999849 Sum(abs(Residuals)) = 1.59e+007
Amt = (-1.308355e-017 * Resp^2)+
(5.207496e-008 * Resp)+ 0.1603
Standardization: External
Calibration: Area

WHC-SD-WM-DP-145, REV. 1



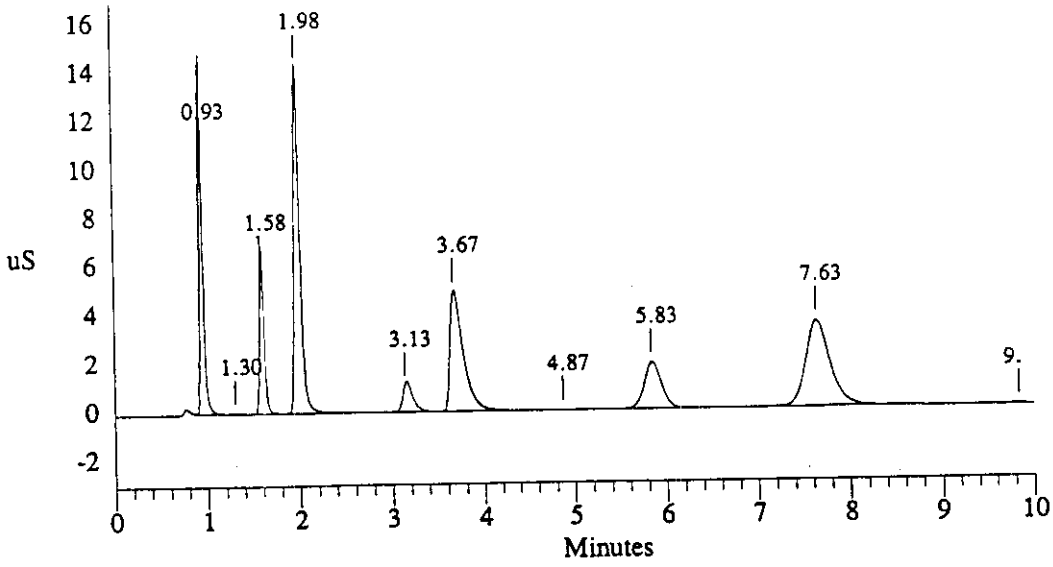
Sample Name: A950609V1/LO - A04 Date: 09/18/1995 11:21:52
Data File : C:\DX\DATA\9509182\95091821.D01
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 1 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	19.668	10567606	38576422	2	-2.09
2	1.30		0.000	41843	243697	2	
3	1.58	CHLORIDE	19.289	5965790	23117181	1	0.00
4	1.98	NITRITE	77.158	14265855	64152720	1	-0.20
5	3.13	BROMIDE	20.472	1100736	9715838	1	5.40
6	3.67	NITRATE	75.805	4923314	50079925	1	0.00
7	4.87		0.000	17014	247955	1	
8	5.83	PHOSPHATE	79.104	1909510	25567261	1	-1.52
9	7.63	SULFATE	77.643	3554554	66084896	1	0.00
10	9.83		0.000	6212	45620	1	
		Totals	369.138	42352433	277831516		

File: 95091821.D01 Sample: A950609V1/LO - A04



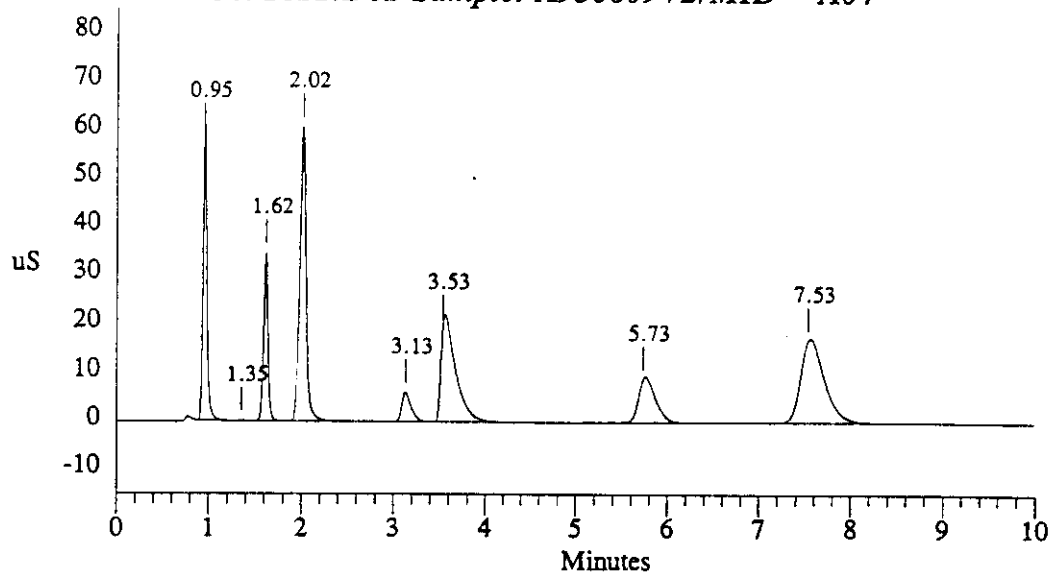
Sample Name: A950609V2/MID - A04 Date: 09/18/1995 11:34:54
Data File : C:\DX\DATA\9509182\95091821.D02
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 2 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	27.160	58379140	176553926	1	-2.39
2	1.35		0.000	127650	627929	1	
3	1.62	CHLORIDE	27.393	34521449	115502166	1	0.00
4	2.02	NITRITE	109.901	60673987	293214682	1	-0.61
5	3.13	BROMIDE	28.062	6116500	43007918	1	3.23
6	3.53	NITRATE	108.342	19238794	242832989	1	0.00
7	5.73	PHOSPHATE	111.664	8982240	123469855	1	0.45
8	7.53	SULFATE	110.281	17012340	318647051	1	0.00
		Totals	522.802	205052101	1313856516		

File: 95091821.D02 Sample: A950609V2/MID - A04



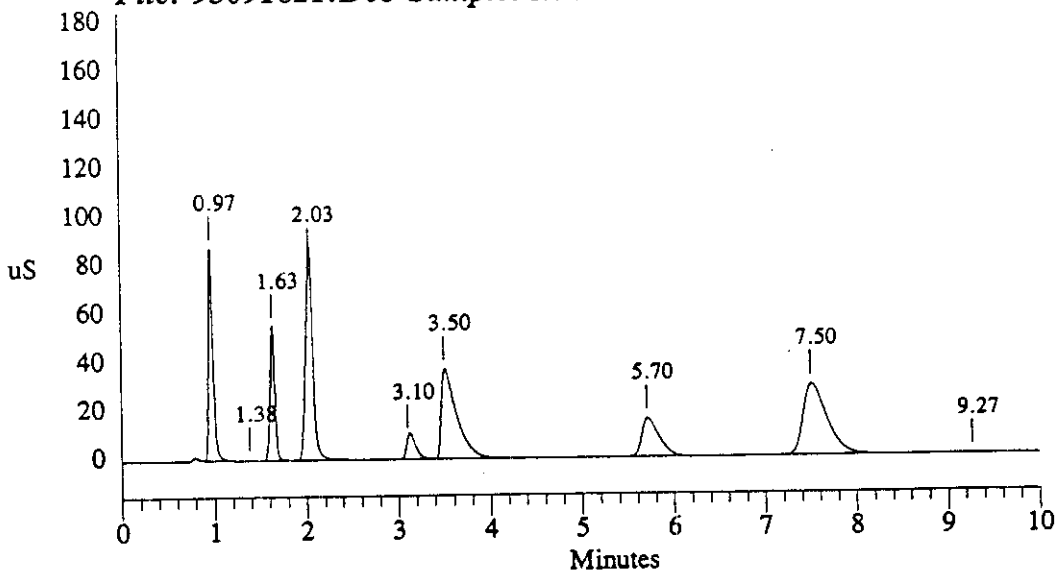
Sample Name: A950609V3/HI - A04 Date: 09/18/1995 11:48:18
Data File : C:\DX\DATA\9509182\95091821.D03
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 3 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.522	87379926	294485542	1	-1.69
2	1.38		0.000	170502	891844	1	
3	1.63	CHLORIDE	26.588	54947375	203237789	1	0.00
4	2.03	NITRITE	105.903	82398123	481824117	1	-0.81
5	3.10	BROMIDE	27.032	8786699	73718269	1	1.09
6	3.50	NITRATE	104.762	36760541	425032285	1	0.00
7	5.70	PHOSPHATE	105.836	15863697	212904700	1	0.82
8	7.50	SULFATE	104.870	29418266	548412426	1	0.00
9	9.27		0.000	13856	142478	1	
		Totals	501.512	315738985	2240649449		

File: 95091821.D03 Sample: A950609V3/HI - A04



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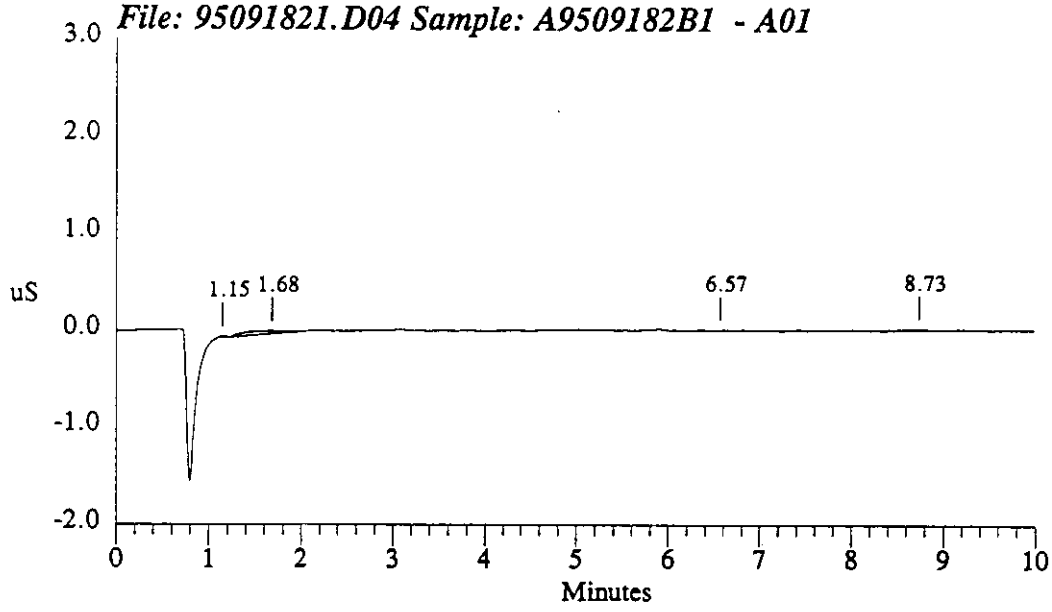
Sample Name: A9509182B1  - A01              Date: 09/18/1995 12:04:47
Data File  : C:\DX\DATA\9509182\95091821.D04
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 4   Vial:A01        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.15		0.000	16294	69986	1	
2	1.68	CHLORIDE	0.145	32741	1140341	1	0.00
3	6.57		0.000	4724	166456	1	
4	8.73		0.000	8650	250867	1	
		Totals	0.145	62409	1627651		



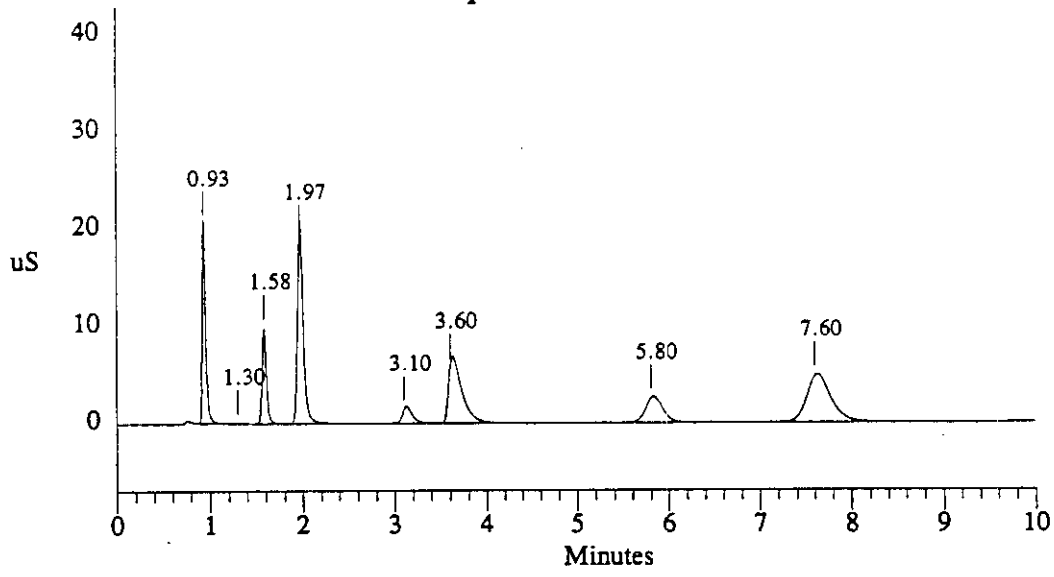
Sample Name: A950609V1/LO - A04 Date: 09/18/1995 12:17:23
Data File : C:\DX\DATA\9509182\95091821.D05
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 5 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.352	20406730	53269336	1	-2.09
2	1.30		0.000	47669	298016	1	
3	1.58	CHLORIDE	25.815	9802055	32079880	1	0.00
4	1.97	NITRITE	105.774	19042850	89622874	1	-1.04
5	3.10	BROMIDE	27.757	1424302	13301491	1	4.28
6	3.60	NITRATE	103.128	5750044	69791291	1	0.00
7	5.80	PHOSPHATE	108.632	2542882	36037461	1	-0.26
8	7.60	SULFATE	106.837	4841526	93179807	1	0.00
		Totals	504.294	63858058	387580155		

File: 95091821.D05 Sample: A950609V1/LO - A04



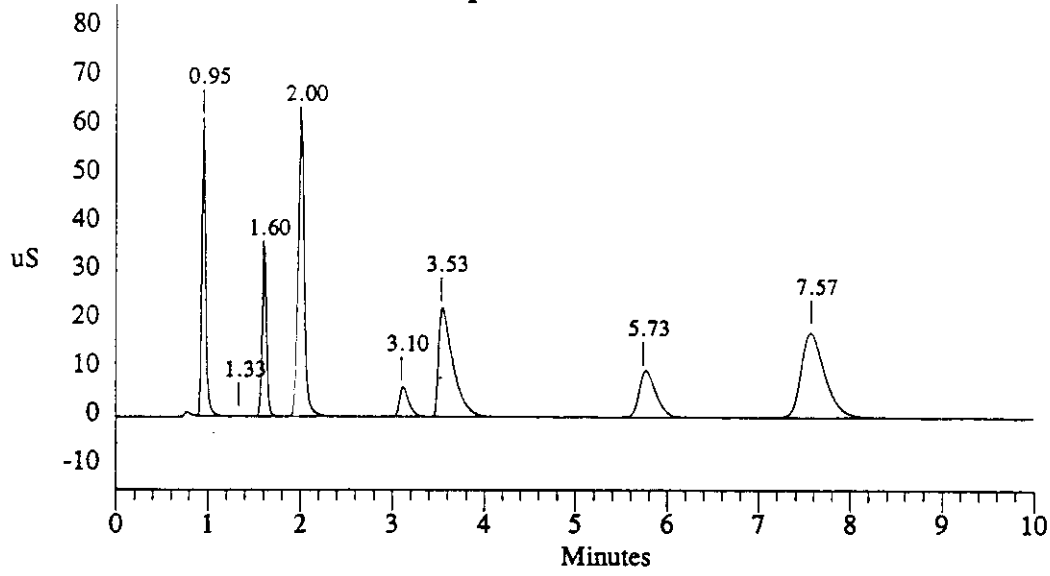
Sample Name: A950609V2/MID - A04 Date: 09/18/1995 12:30:25
Data File : C:\DX\DATA\9509182\95091821.D06
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 6 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	27.369	60431414	177977693	1	-1.38
2	1.33		0.000	123398	737645	1	
3	1.60	CHLORIDE	27.720	29372505	117066150	1	0.00
4	2.00	NITRITE	110.974	57142143	296198716	1	-0.41
5	3.10	BROMIDE	28.259	5504156	43340890	1	3.19
6	3.53	NITRATE	108.640	21950665	243584803	1	0.00
7	5.73	PHOSPHATE	112.809	8811361	124914114	1	0.45
8	7.57	SULFATE	110.492	17592610	319335494	1	0.00
		Totals	526.262	200928252	1323155503		

File: 95091821.D06 Sample: A950609V2/MID - A04



Data Reprocessed On 09/22/1995 03:35:42

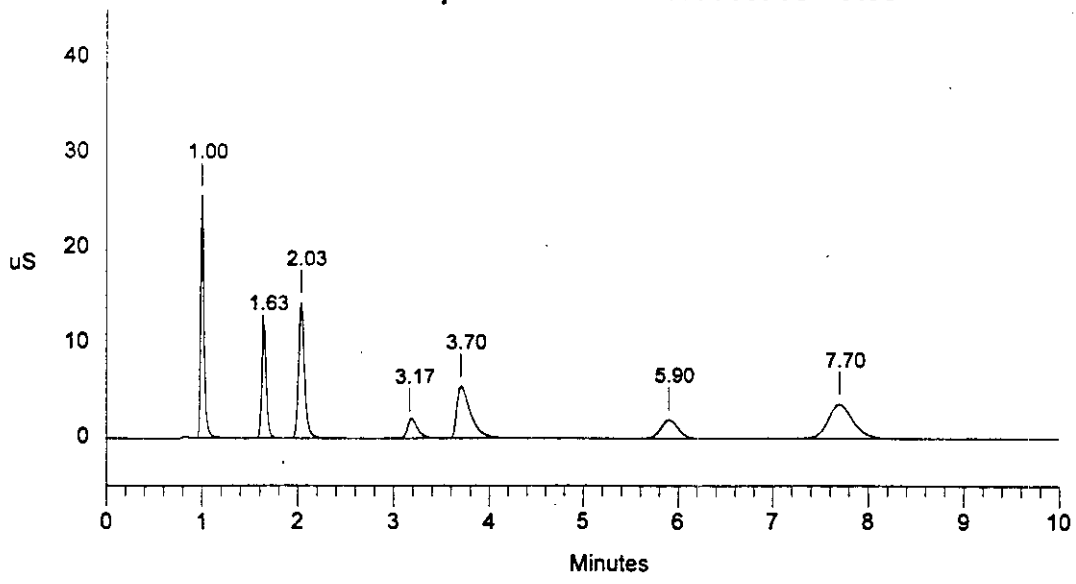
Sample Name: SPIKE CHECK 950713 - A08		Date: 09/18/1995 12:42:51	
Data File : C:\DX\DATA\9509182\95091821.D07			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 7	Vial:A08		Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	156.750	25443264	64290410	1	1.69
2	1.63	CHLORIDE	154.603	9498629	39181979	1	0.00
3	2.03	NITRITE	377.931	14231690	62757582	1	-0.81
4	3.17	BROMIDE	162.022	1808763	15615802	1	3.26
5	3.70	NITRATE	408.798	5416323	54349991	1	0.00
6	5.90	PHOSPHATE	406.536	1977776	26342222	1	-1.29
7	7.70	SULFATE	392.222	3589627	66823059	1	0.00
		Totals	2058.862	61966072	329361045		

File: 95091821.D07 Sample: SPIKE CHECK 950713 - A08



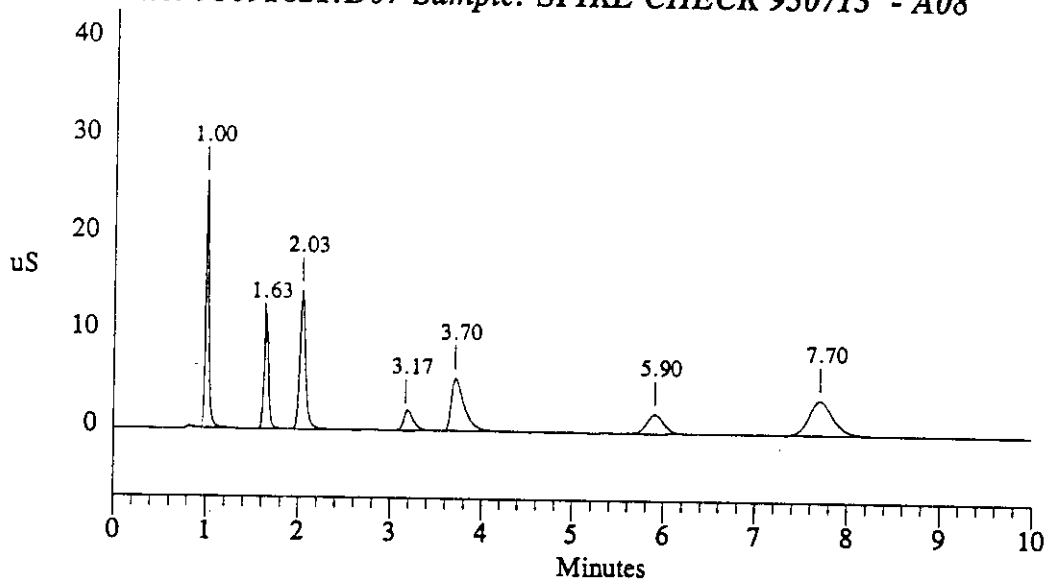
Sample Name: SPIKE CHECK 950713 - A08 Date: 09/18/1995 12:42:51
Data File : C:\DX\DATA\9509182\95091821.D07
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 7 Vial:A08 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	156.750	25443264	64290410	1	1.69
2	1.63	CHLORIDE	154.603	9498629	39181979	1	0.00
3	2.03	NITRITE	377.931	14231690	62757582	1	-0.81
4	3.17	BROMIDE	162.022	1808763	15615802	1	3.26
5	3.70	NITRATE	408.798	5416323	54349991	1	0.00
6	5.90	PHOSPHATE	406.536	1977776	26342222	1	-1.29
7	7.70	SULFATE	392.222	3589627	66823059	1	0.00
		Totals	2058.862	61966072	329361045		

File: 95091821.D07 Sample: SPIKE CHECK 950713 - A08



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL1R - A06 Date: Mon Sep 18 12:55:18 1995
Raw File : C:\DX\DATA\9509182\95091821.D08
Method : c:\dx\method\2anions2.met Calibration Level: 1
ACI Address: 1 System : 2 Inject#: 8 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.98	1.00	1.00	8.824e+006	7.689e+006	7.689e+006
2	CHLORIDE	1.63	1.63	1.63	5.668e+006	4.845e+006	4.845e+006
3	NITRITE	2.05	2.03	2.03	7.324e+006	6.599e+006	6.599e+006
4	BROMIDE	3.07	3.20	3.20	2.573e+006	2.118e+006	2.118e+006
5	NITRATE	3.47	3.77	3.77	6.283e+006	5.394e+006	5.394e+006
6	PHOSPHATE	5.60	5.93	5.93	2.499e+006	2.767e+006	2.767e+006
7	SULFATE	7.37	7.73	7.73	7.554e+006	7.462e+006	7.462e+006

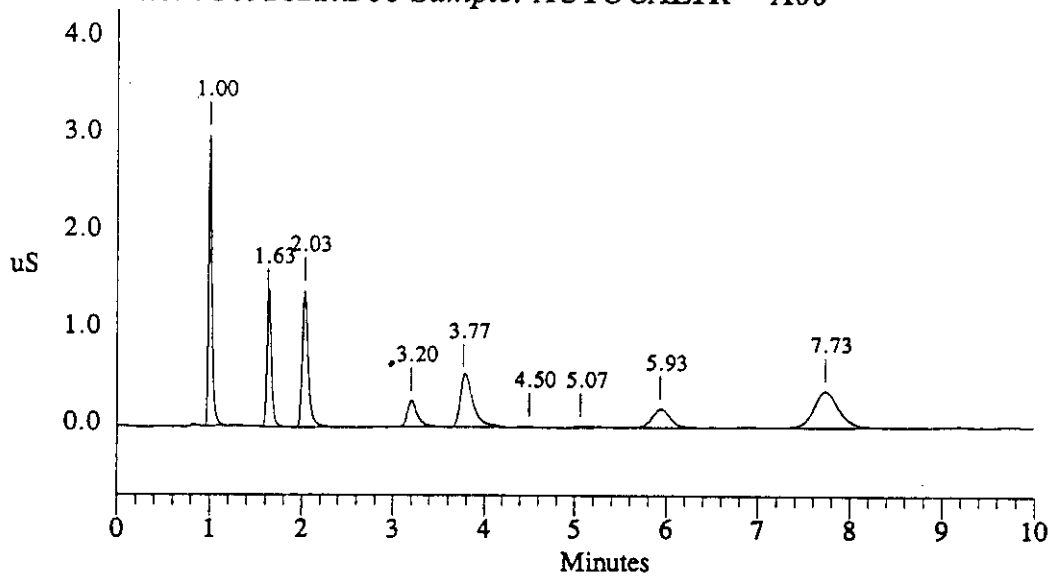
Sample Name: AUTOCAL1R - A06 Date: 09/18/1995 12:55:18
Data File : C:\DX\DATA\9509182\95091821.D08
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 8 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	0.250	2989495	7688848	1	1.69
2	1.63	CHLORIDE	0.250	1281974	4845472	1	0.00
3	2.03	NITRITE	0.500	1410918	6598712	1	-0.81
4	3.20	BROMIDE	0.250	270324	2117672	1	4.35
5	3.77	NITRATE	0.500	510985	5394104	1	0.00
6	4.50		0.000	15388	233630	1	
7	5.07		0.000	14231	269059	1	
8	5.93	PHOSPHATE	0.500	190273	2766551	1	-2.49
9	7.73	SULFATE	0.500	379976	7462291	1	0.00
		Totals	2.750	7063563	37376338		

File: 95091821.D08 Sample: AUTOCAL1R - A06



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL2R - A06 Date: Mon Sep 18 13:07:47 1995
Raw File : C:\DX\DATA\9509182\95091821.D09
Method : c:\dx\method\2anions2.met Calibration Level: 2
ACI Address: 1 System : 2 Inject#: 9 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	1.00	0.95	0.95	1.659e+007	2.081e+007	2.081e+007
2	CHLORIDE	1.63	1.60	1.60	1.045e+007	1.276e+007	1.276e+007
3	NITRITE	2.03	1.98	1.98	1.349e+007	1.678e+007	1.678e+007
4	BROMIDE	3.20	3.13	3.13	4.334e+006	5.299e+006	5.299e+006
5	NITRATE	3.77	3.70	3.70	1.122e+007	1.366e+007	1.366e+007
6	PHOSPHATE	5.93	5.87	5.87	5.485e+006	7.131e+006	7.131e+006
7	SULFATE	7.73	7.67	7.67	1.462e+007	1.830e+007	1.830e+007

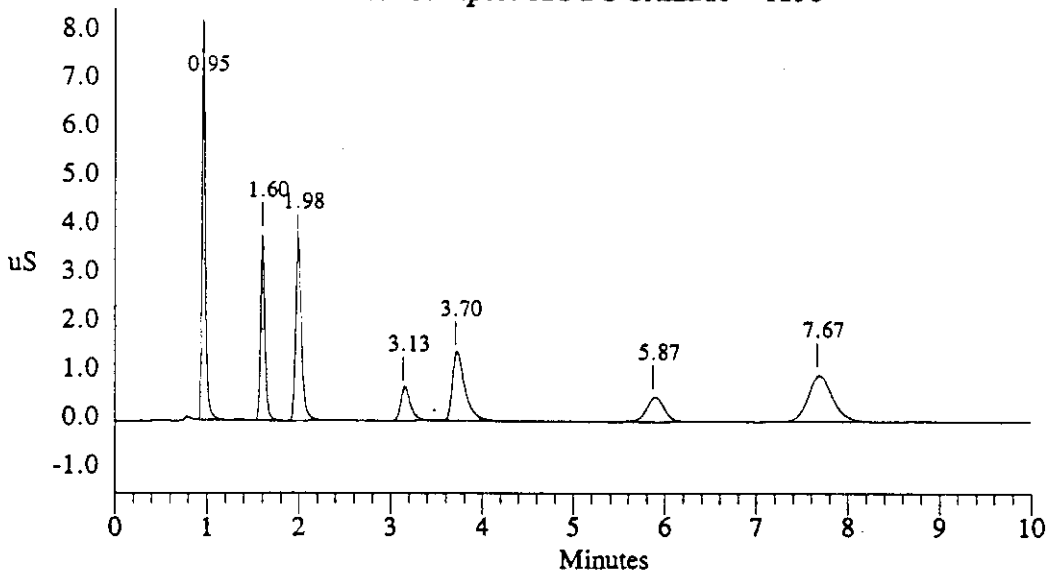
```
Sample Name: AUTOCAL2R  - A06                Date: 09/18/1995 13:07:47
Data File  : C:\DX\DATA\9509182\95091821.D09
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 9   Vial:A06        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	2	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	0.500	6368331	20814795	1	-3.02
2	1.60	CHLORIDE	0.500	3791184	12762730	1	0.00
3	1.98	NITRITE	1.000	3563434	16783393	1	-0.43
4	3.13	BROMIDE	0.500	627037	5299024	1	-0.04
5	3.70	NITRATE	1.000	1345961	13657420	1	0.00
6	5.87	PHOSPHATE	1.000	481994	7130851	1	0.66
7	7.67	SULFATE	1.000	942354	18300828	1	0.00
		Totals	5.500	17120295	94749041		

File: 95091821.D09 Sample: AUTOCAL2R - A06



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL3R - A07 Date: Mon Sep 18 13:20:25 1995
Raw File : C:\DX\DATA\9509182\95091821.D10
Method : c:\dx\method\2anions2.met Calibration Level: 3
ACI Address: 1 System : 2 Inject#: 10 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.95	0.93	0.93	4.867e+007	5.410e+007	5.410e+007
2	CHLORIDE	1.60	1.58	1.58	2.957e+007	3.285e+007	3.285e+007
3	NITRITE	1.98	1.98	1.98	8.181e+007	9.122e+007	9.122e+007
4	BROMIDE	3.13	3.13	3.13	1.199e+007	1.330e+007	1.330e+007
5	NITRATE	3.70	3.63	3.63	6.456e+007	7.272e+007	7.272e+007
6	PHOSPHATE	5.87	5.83	5.83	3.209e+007	3.585e+007	3.585e+007
7	SULFATE	7.67	7.63	7.63	8.349e+007	9.295e+007	9.295e+007

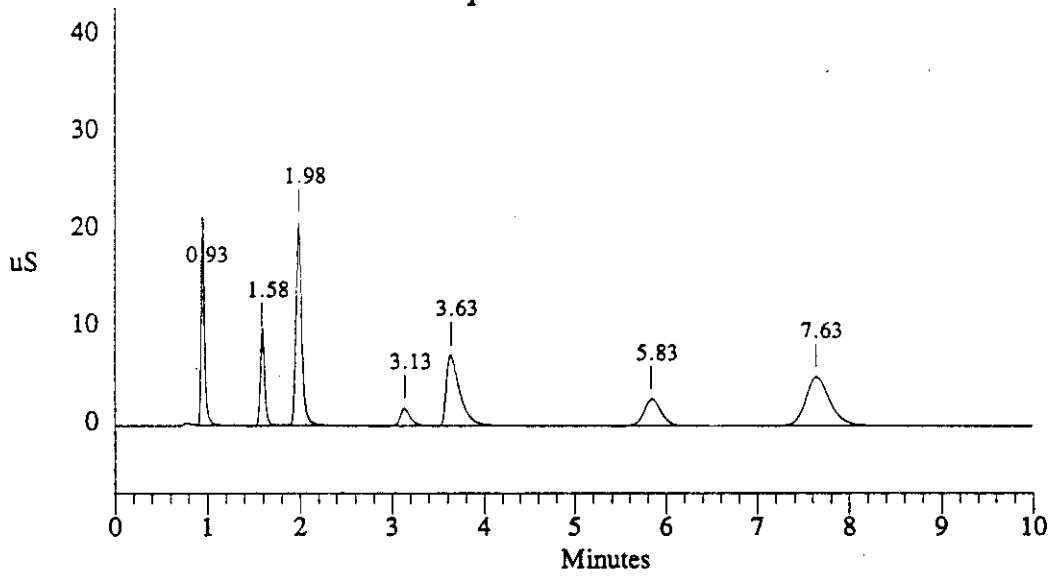
Sample Name:	AUTOCAL3R - A07	Date:	09/18/1995 13:20:25
Data File :	C:\DX\DATA\9509182\95091821.D10		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 10 Vial:A07	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	1.250	12675747	54095213	1	-0.72
2	1.58	CHLORIDE	1.250	9149777	32854046	1	0.00
3	1.98	NITRITE	5.000	20860747	91218361	1	1.05
4	3.13	BROMIDE	1.250	1792125	13300785	1	1.05
5	3.63	NITRATE	5.000	7206070	72719418	1	0.00
6	5.83	PHOSPHATE	5.000	2699095	35850351	1	1.26
7	7.63	SULFATE	5.000	5015693	92954239	1	0.00
		Totals	23.750	59399253	392992413		

File: 95091821.D10 Sample: AUTOCAL3R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL4R - A07 Date: Mon Sep 18 13:33:15 1995
Raw File : C:\DX\DATA\9509182\95091821.D11
Method : c:\dx\method\2anions2.met Calibration Level: 4
ACI Address: 1 System : 2 Inject#: 11 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.93	0.95	0.95	1.047e+008	1.152e+008	1.152e+008
2	CHLORIDE	1.58	1.60	1.60	6.480e+007	7.144e+007	7.144e+007
3	NITRITE	1.98	1.98	1.98	1.728e+008	1.908e+008	1.908e+008
4	BROMIDE	3.13	3.10	3.10	2.444e+007	2.669e+007	2.669e+007
5	NITRATE	3.63	3.57	3.57	1.397e+008	1.527e+008	1.527e+008
6	PHOSPHATE	5.83	5.80	5.80	6.832e+007	7.570e+007	7.570e+007
7	SULFATE	7.63	7.60	7.60	1.800e+008	1.950e+008	1.950e+008

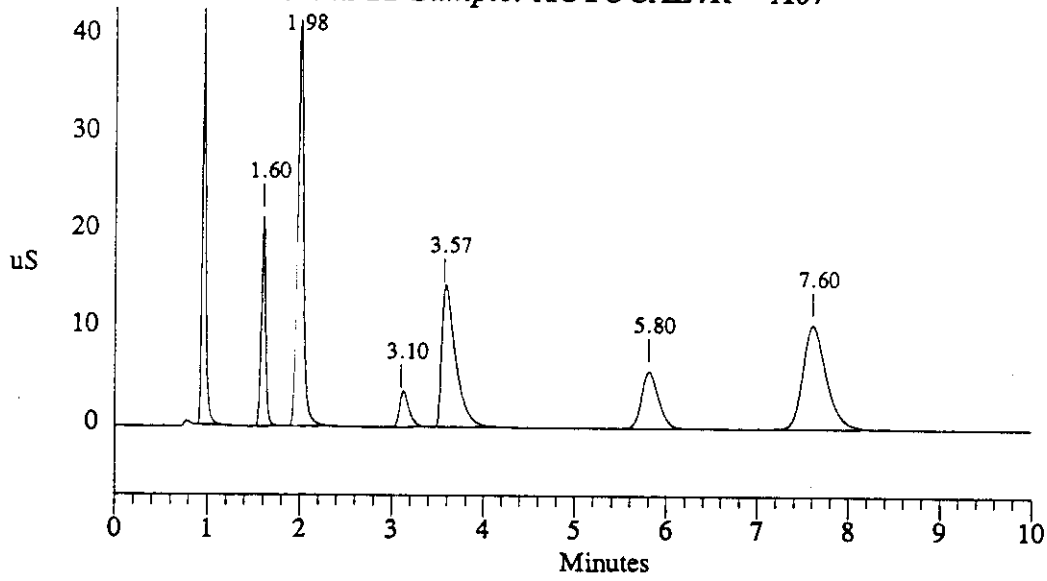
Sample Name: AUTOCAL4R - A07 Date: 09/18/1995 13:33:15
Data File : C:\DX\DATA\9509182\95091821.D11
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 11 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	10	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	2.500	41482205	115247767	1	0.73
2	1.60	CHLORIDE	2.500	21545453	71439884	1	0.00
3	1.98	NITRITE	10.000	36750621	190789608	1	-1.04
4	3.10	BROMIDE	2.500	2995385	26693754	1	-2.09
5	3.57	NITRATE	10.000	13922341	152684299	1	0.00
6	5.80	PHOSPHATE	10.000	5833662	75695444	1	1.29
7	7.60	SULFATE	10.000	10689588	194977955	1	0.00
		Totals	47.500	133219255	827528711		

File: 95091821.D11 Sample: AUTOCAL4R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL5R - A07 Date: Mon Sep 18 13:46:29 1995
Raw File : C:\DX\DATA\9509182\95091821.D12
Method : c:\dx\method\2anions2.met Calibration Level: 5
ACI Address: 1 System : 2 Inject#: 12 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.95	0.97	0.97	2.207e+008	2.351e+008	2.351e+008
2	CHLORIDE	1.60	1.62	1.62	1.468e+008	1.585e+008	1.585e+008
3	NITRITE	1.98	2.02	2.02	3.618e+008	3.895e+008	3.895e+008
4	BROMIDE	3.10	3.10	3.10	5.221e+007	5.675e+007	5.675e+007
5	NITRATE	3.57	3.50	3.50	3.118e+008	3.396e+008	3.396e+008
6	PHOSPHATE	5.80	5.73	5.73	1.533e+008	1.684e+008	1.684e+008
7	SULFATE	7.60	7.53	7.53	4.007e+008	4.316e+008	4.316e+008

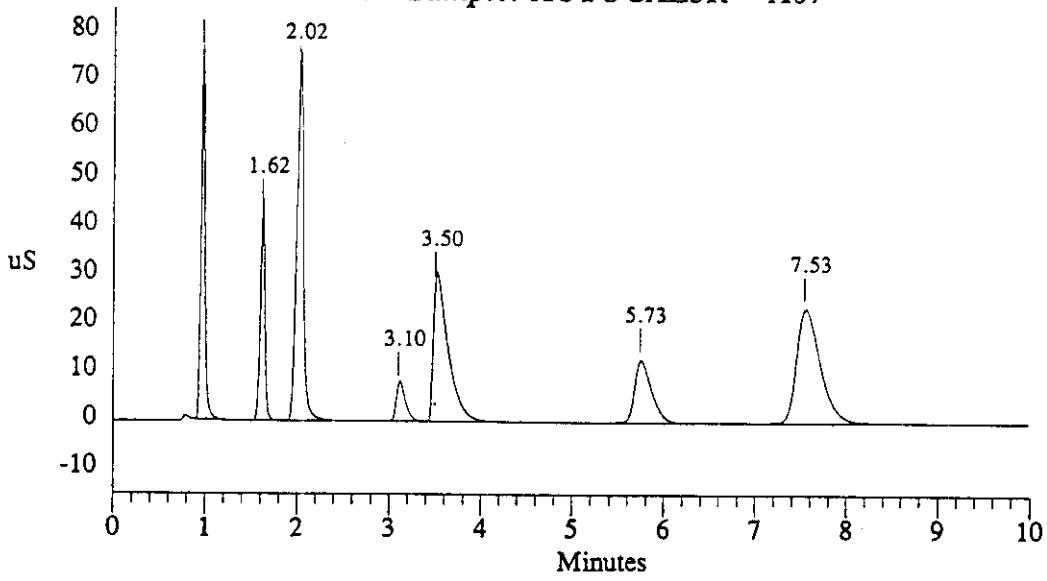
Sample Name: AUTOCAL5R - A07 Date: 09/18/1995 13:46:29
Data File : C:\DX\DATA\9509182\95091821.D12
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 12 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	20	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	5.000	75389138	235116739	1	0.71
2	1.62	CHLORIDE	5.000	42934701	158532798	1	0.00
3	2.02	NITRITE	20.000	70520219	389503942	1	0.63
4	3.10	BROMIDE	5.000	7463468	56751424	1	-1.03
5	3.50	NITRATE	20.000	28086330	339571749	1	0.00
6	5.73	PHOSPHATE	20.000	12619223	168444924	1	0.73
7	7.53	SULFATE	20.000	23332161	431622216	1	0.00
		Totals	95.000	260345241	1779543793		

File: 95091821.D12 Sample: AUTOCAL5R - A07



********** AUTOMATIC CALIBRATION UPDATE **********

Sample Name: AUTOCAL6R - A07 Date: Mon Sep 18 14:00:08 1995
Raw File : C:\DX\DATA\9509182\95091821.D13
Method : c:\dx\method\2anions2.met Calibration Level: 6
ACI Address: 1 System : 2 Inject#: 13 Detector: PED-Cond.

********** COMPONENTS FOUND IN THIS RUN **********

COMP NUM	COMPONENT NAME	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPONSE	MEASURED RESPONSE	NEW RESPONSE
1	FLUORIDE	0.97	0.98	0.98	3.348e+008	3.568e+008	3.568e+008
2	CHLORIDE	1.62	1.63	1.63	2.359e+008	2.548e+008	2.548e+008
3	NITRITE	2.02	2.05	2.05	5.489e+008	5.860e+008	5.860e+008
4	BROMIDE	3.10	3.10	3.10	8.357e+007	8.969e+007	8.969e+007
5	NITRATE	3.50	3.47	3.47	5.037e+008	5.422e+008	5.422e+008
6	PHOSPHATE	5.73	5.70	5.70	2.501e+008	2.697e+008	2.697e+008
7	SULFATE	7.53	7.50	7.50	6.501e+008	6.922e+008	6.922e+008

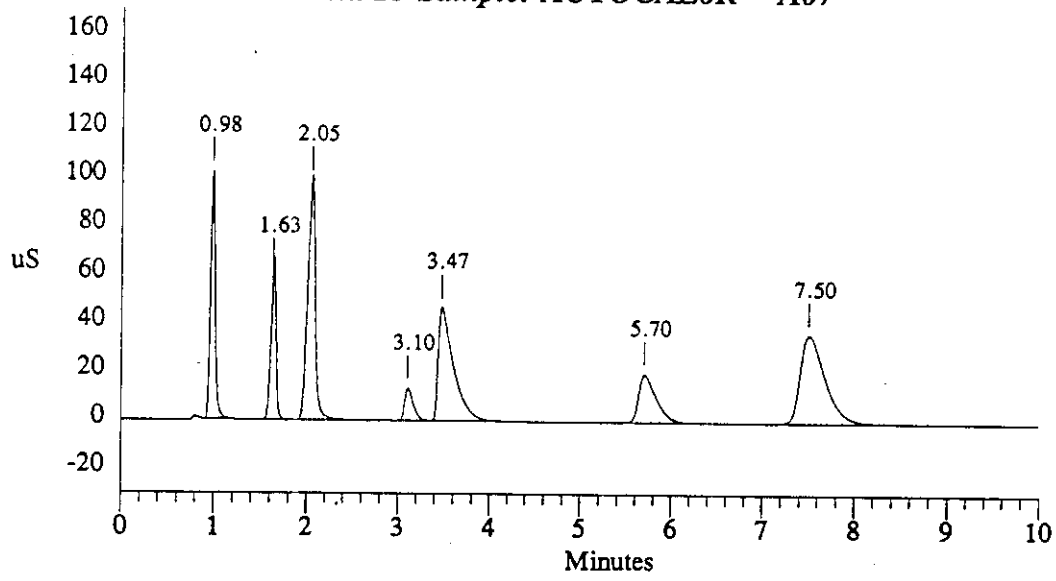
Sample Name: AUTOCAL6R - A07 Date: 09/18/1995 14:00:08
Data File : C:\DX\DATA\9509182\95091821.D13
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 13 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	30	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	7.500	102103335	356783699	1	0.69
2	1.63	CHLORIDE	7.500	61024964	254764252	1	0.00
3	2.05	NITRITE	30.000	99052306	586048139	1	0.62
4	3.10	BROMIDE	7.500	13302163	89685794	1	-1.02
5	3.47	NITRATE	30.000	46711030	542230875	1	0.00
6	5.70	PHOSPHATE	30.000	19920959	269720570	1	0.37
7	7.50	SULFATE	30.000	36665126	692233250	1	0.00
		Totals	142.500	378779883	2791466579		

File: 95091821.D13 Sample: AUTOCAL6R - A07



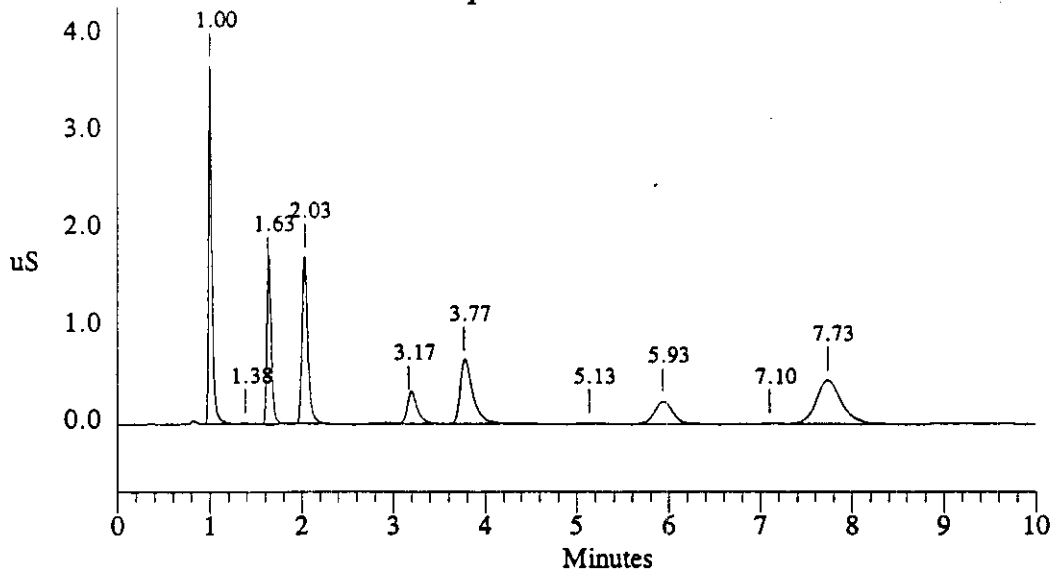
Sample Name: CAL CHECK 1 - A06 Date: 09/18/1995 14:12:36
Data File : C:\DX\DATA\9509182\95091821.D14
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 14 Vial:A06 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	28.462	3685355	9586369	2	1.69
2	1.38		0.000	16050	155391	2	
3	1.63	CHLORIDE	29.652	1581806	5865104	1	0.00
4	2.03	NITRITE	58.467	1714298	7637102	1	-0.81
5	3.17	BROMIDE	30.124	259871	2934278	1	2.15
6	3.77	NITRATE	64.699	657190	6675881	1	0.00
7	5.13		0.000	16320	225190	1	
8	5.93	PHOSPHATE	64.391	236554	3442022	1	-4.20
9	7.10		0.000	11993	171633	1	
10	7.73	SULFATE	61.998	455847	8846079	1	0.00
		Totals	337.792	8635283	45539047		

File: 95091821.D14 Sample: CAL CHECK 1 - A06



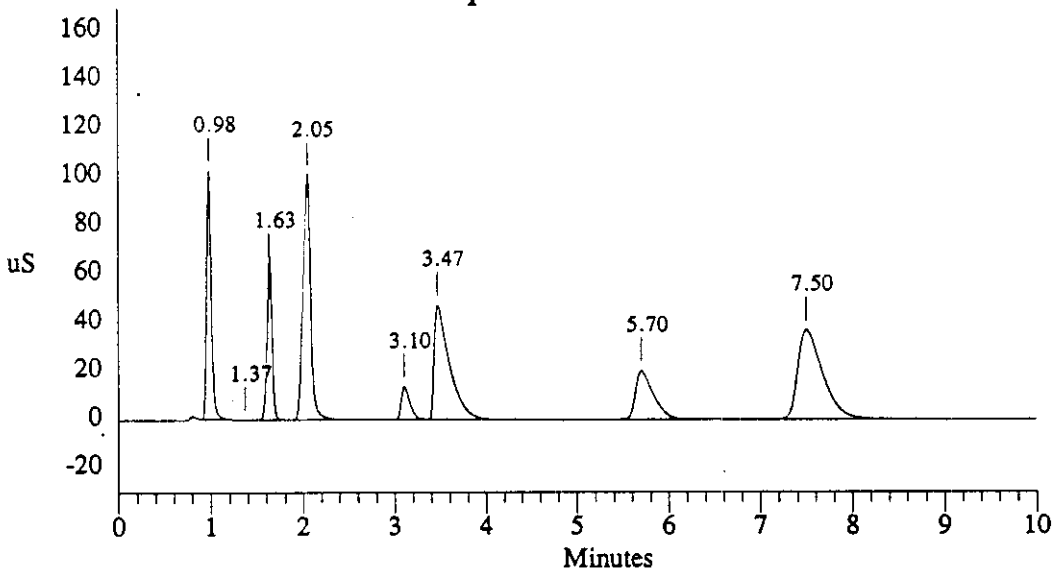
Sample Name: CAL CHECK 6 - A07 Date: 09/18/1995 14:26:15
Data File : C:\DX\DATA\9509182\95091821.D15
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 15 Vial:A07 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	30	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	25.097	102077103	358252942	1	0.00
2	1.37		0.000	45150	255709	1	
3	1.63	CHLORIDE	24.980	63157737	255039973	1	0.00
4	2.05	NITRITE	100.639	100565094	590481960	1	0.00
5	3.10	BROMIDE	25.115	13594188	90192758	1	0.00
6	3.47	NITRATE	100.517	47208189	547360068	1	0.00
7	5.70	PHOSPHATE	100.479	20082747	272186628	1	0.00
8	7.50	SULFATE	100.554	36995094	698939918	1	0.00
		Totals	477.380	383725302	2812709956		

File: 95091821.D15 Sample: CAL CHECK 6 - A07



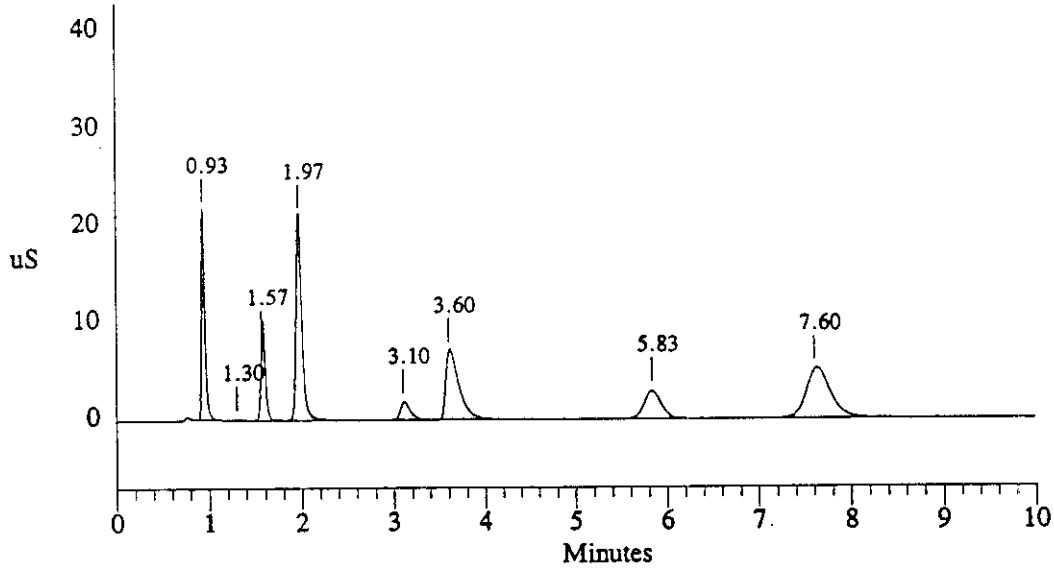
Sample Name: A950609V1/LO - A04 Date: 09/18/1995 14:38:52
Data File : C:\DX\DATA\9509182\95091821.D16
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 16 Vial:A04 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	25.206	21474683	55796403	1	-1.05
2	1.30		0.000	46006	230375	1	
3	1.57	CHLORIDE	24.876	7831180	33798730	1	0.00
4	1.97	NITRITE	100.170	20887220	93663375	1	0.02
5	3.10	BROMIDE	26.309	1743510	13804414	1	4.26
6	3.60	NITRATE	96.292	6919408	71526018	1	0.00
7	5.83	PHOSPHATE	100.451	2849160	37129612	1	-1.45
8	7.60	SULFATE	100.089	4997776	95303833	1	0.00
		Totals	473.393	66748943	401252760		

File: 95091821.D16 Sample: A950609V1/LO - A04



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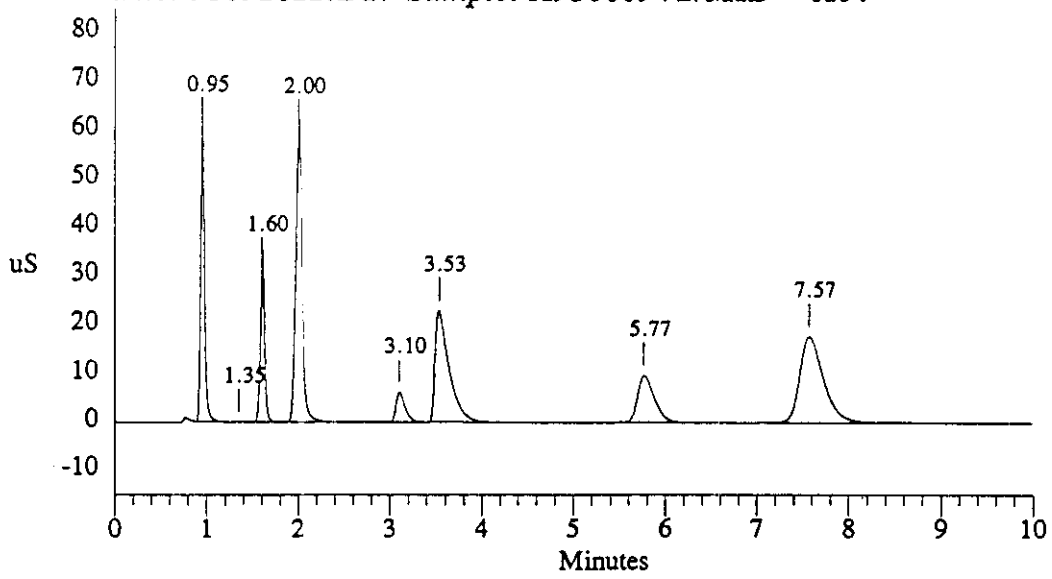
Sample Name: A950609V2/MID  - A04          Date: 09/18/1995 14:51:53
Data File  : C:\DX\DATA\9509182\95091821.D17
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 17  Vial:A04        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	25.857	59755381	180935923	1	-1.38
2	1.35		0.000	125447	654485	1	
3	1.60	CHLORIDE	25.714	31144581	117067336	1	0.00
4	2.00	NITRITE	103.589	59548894	299906239	1	-0.41
5	3.10	BROMIDE	26.425	6254578	43999404	1	2.08
6	3.53	NITRATE	99.753	23030164	242172578	1	0.00
7	5.77	PHOSPHATE	104.553	9804628	126408024	1	-0.74
8	7.57	SULFATE	104.095	17815889	322971199	1	0.00
		Totals	489.987	207479561	1334115189		

File: 95091821.D17 Sample: A950609V2/MID - A04



Sample Name:	A950609V3/HI - A04
Data File :	C:\DX\DATA\9509182\95091821.D18
Method :	c:\dx\method\2anions2.met
ACI Address:	1 System: 2 Inject#: 18 Vial:A04
Analyst :	MMO

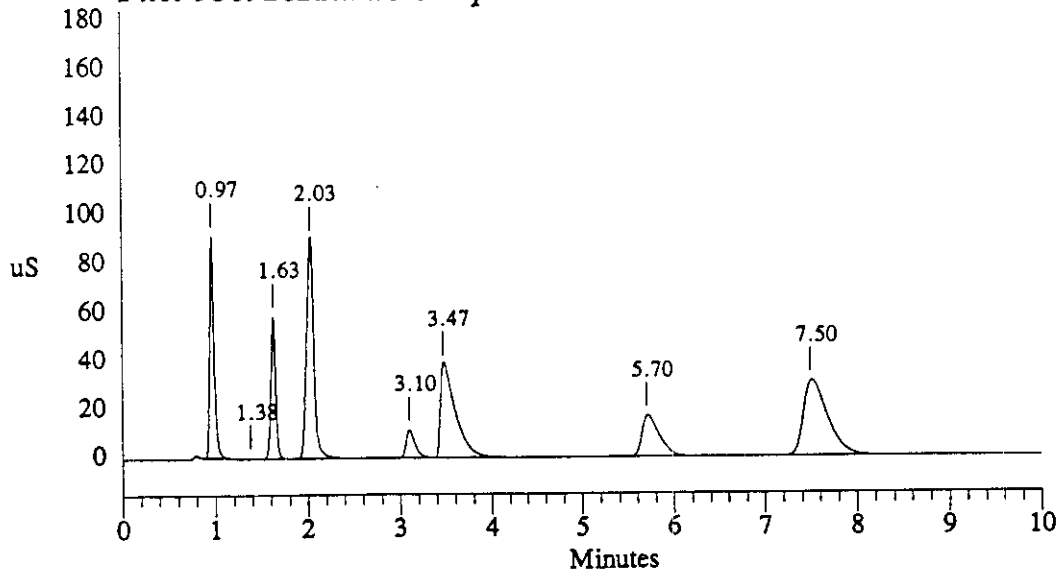
Date: 09/18/1995 15:05:18
Detector:PED-Cond.
Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	25.717	91475717	304471110	1	-1.69
2	1.38		0.000	178605	948869	1	
3	1.63	CHLORIDE	25.901	58789449	212912248	1	0.00
4	2.03	NITRITE	103.408	89945465	503982327	1	-0.81
5	3.10	BROMIDE	26.354	11629652	77192214	1	0.00
6	3.47	NITRATE	101.591	38377362	443229001	1	0.00
7	5.70	PHOSPHATE	105.206	16911494	229646493	1	0.00
8	7.50	SULFATE	104.476	31203305	584250092	1	0.00
		Totals	492.652	338511049	2356632354		

File: 95091821.D18 Sample: A950609V3/HI - A04

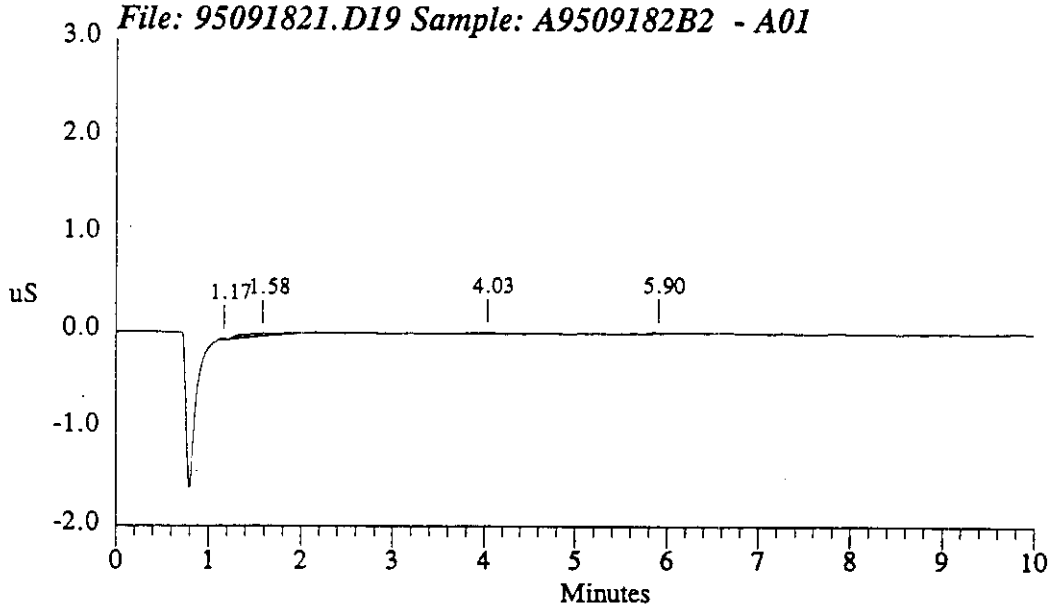


Sample Name: A9509182B2 - A01 Date: 09/18/1995 15:21:46
Data File : C:\DX\DATA\9509182\95091821.D19
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 19 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.17		0.000	18096	73342	1	
2	1.58	CHLORIDE	0.125	30677	922615	1	0.00
3	4.03		0.000	16044	471907	1	
4	5.90	PHOSPHATE	0.238	15819	393046	1	3.51
		Totals	0.363	80635	1860910		

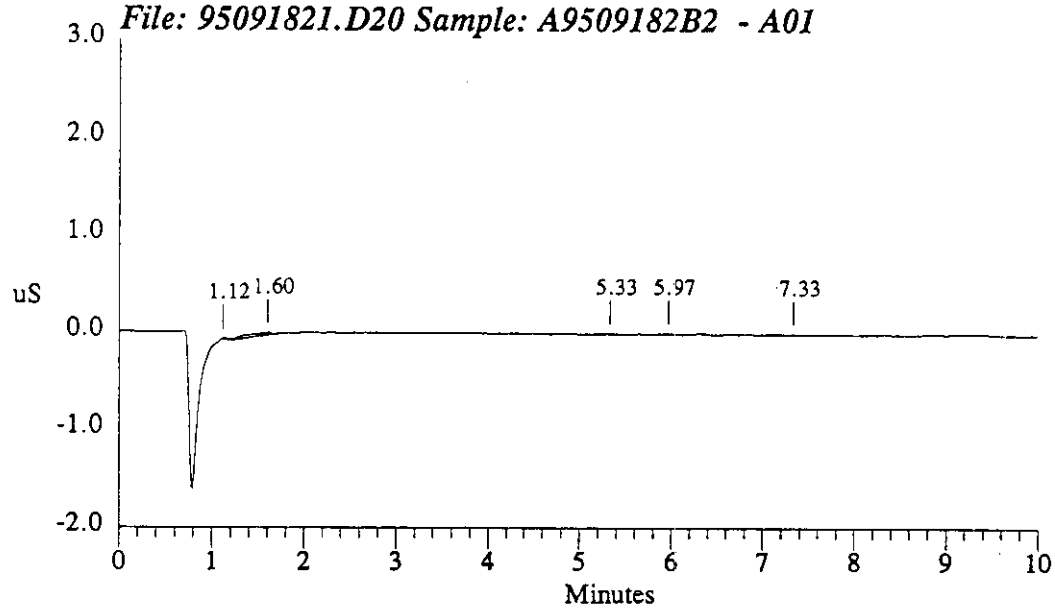


Sample Name: A9509182B2 - A01 Date: 09/18/1995 15:38:12
Data File : C:\DX\DATA\9509182\95091821.D20
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 20 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	14976	72098	1	
2	1.60	CHLORIDE	0.116	26682	663019	1	0.00
3	5.33		0.000	8125	170518	1	
4	5.97	PHOSPHATE	0.205	11099	142932	1	4.68
5	7.33	SULFATE	0.172	6071	215217	1	0.00
		Totals	0.492	66952	1263783		

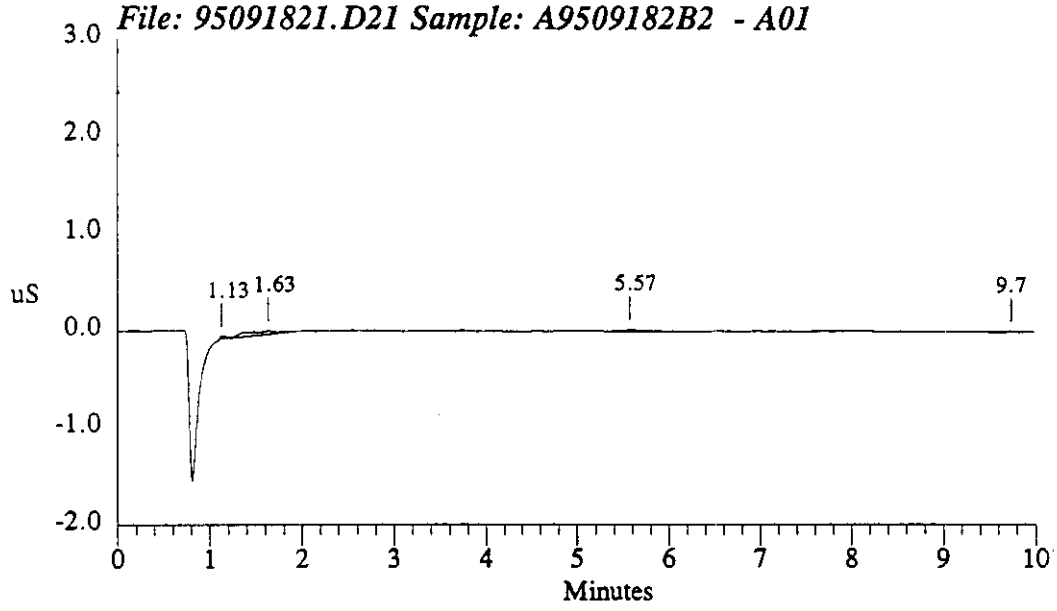


Sample Name: A9509182B2 - A01 Date: 09/18/1995 15:54:31
Data File : C:\DX\DATA\9509182\95091821.D21
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 21 Vial:A01 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	19678	82356	1	
2	1.63	CHLORIDE	0.129	37578	1020819	1	0.00
3	5.57	PHOSPHATE	0.231	20321	342119	1	-2.34
4	9.73		0.000	9606	119669	1	
		Totals	0.360	87183	1564963		



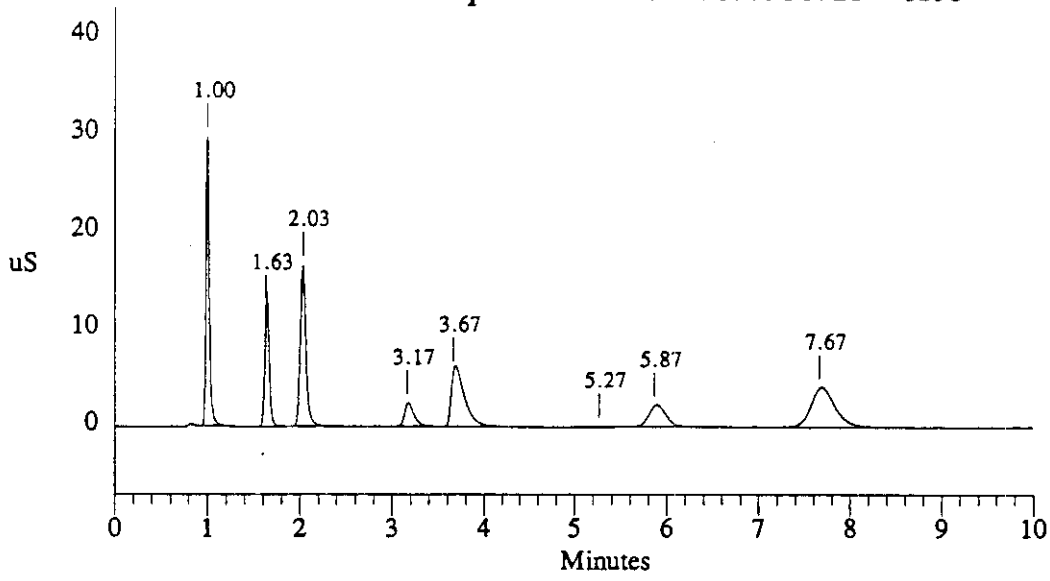
Sample Name: SPIKE CHECK 950713 - A08 Date: 09/18/1995 16:06:57
Data File : C:\DX\DATA\9509182\95091821.D22
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 22 Vial:A08 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	166.408	29683843	74986994	1	1.69
2	1.63	CHLORIDE	161.298	12129514	44978588	1	0.00
3	2.03	NITRITE	394.976	16576033	73041454	1	-0.81
4	3.17	BROMIDE	169.629	2359577	17978018	1	2.15
5	3.67	NITRATE	425.647	5725784	62683981	1	0.00
6	5.27		0.000	9139	244506	1	
7	5.87	PHOSPHATE	407.130	2140654	29681720	1	-2.69
8	7.67	SULFATE	408.878	4009976	76924977	1	0.00
		Totals	2133.965	72634521	380520237		

File: 95091821.D22 Sample: SPIKE CHECK 950713 - A08



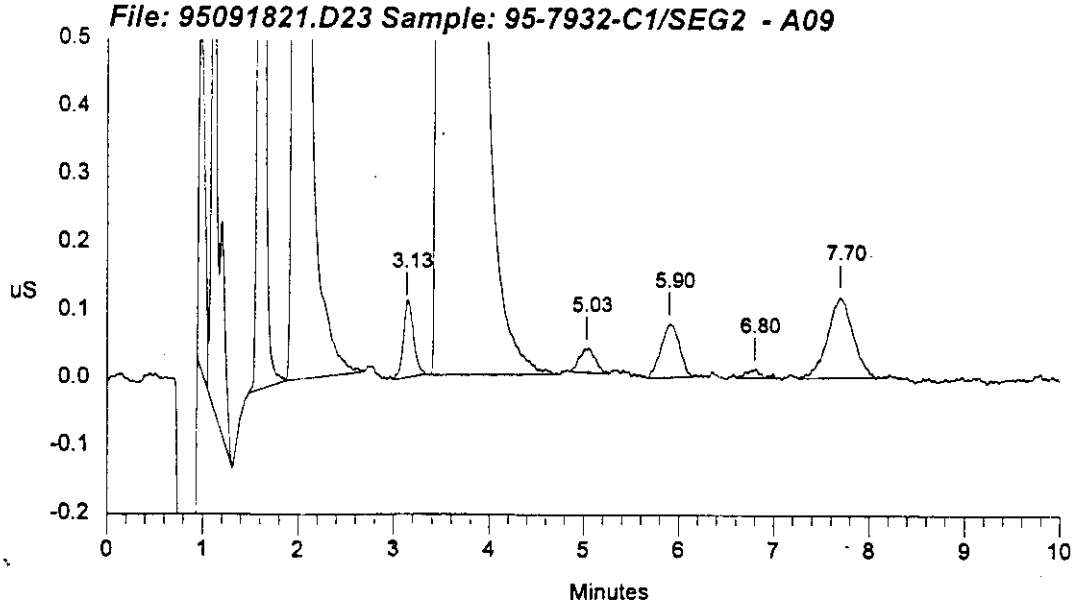
Data Reprocessed On 09/20/1995 22:33:28

Sample Name:	95-7932-C1/SEG2 - A09	Date:	09/18/1995 16:23:25
Data File :	C:\DX\DATA\9509182\95091821.D23		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 23 Vial:A09	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	12.858	475303	2217000	2	0.35
2	1.12		0.000	862081	4393757	2	
3	1.60	CHLORIDE	43.898	2322864	10000043	1	0.00
4	2.00	NITRITE	573.848	21774370	107893056	1	-0.41
5	3.13	BROMIDE	10.186	107706	837113	1	3.18
6	3.50	NITRATE	2415.914	35864703	417599432	1	0.00
7	5.03		0.000	34814	412483	1	
8	5.90	PHOSPHATE	32.829	78082	1070339	1	2.5.
9	6.80		0.000	11417	131440	1	
10	7.70	SULFATE	27.536	119396	2209982	1	0.00
		Totals	3117.069	61650736	546764645		



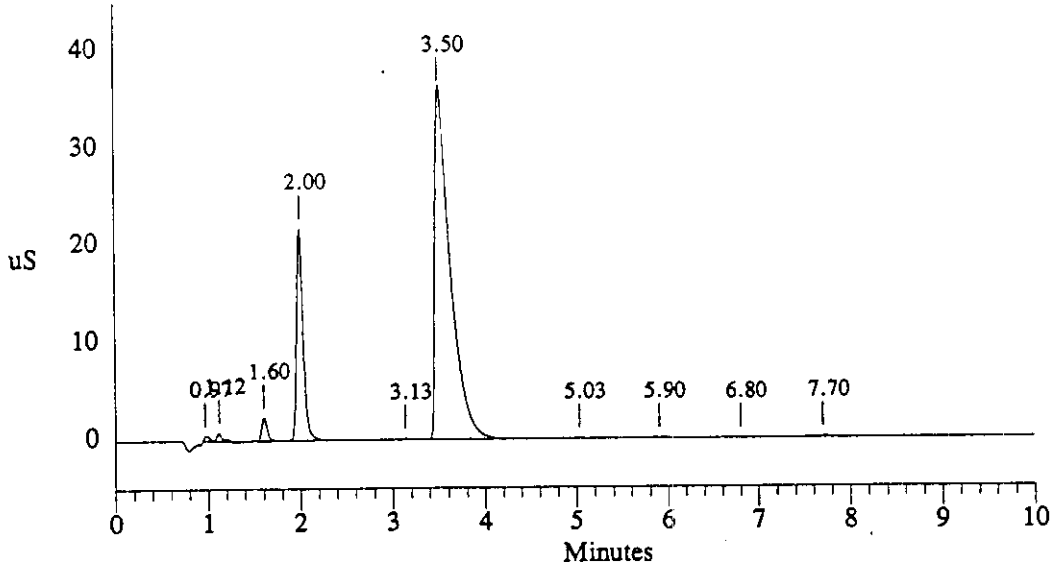
Sample Name: 95-7932-C1/SEG2 - A09	Date: 09/18/1995 16:23:25
Data File : C:\DX\DATA\9509182\95091821.D23	
Method : c:\dx\method\2anions2.met	
ACI Address: 1 System: 2 Inject#: 23 Vial:A09	Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	12.858	475303	2217000	2	0.35
2	1.12		0.000	862081	4393757	2	
3	1.60	CHLORIDE	48.347	2372158	11296255	1	0.00
4	2.00	NITRITE	573.997	21768147	107922192	1	-0.41
5	3.13	BROMIDE	10.186	107706	837113	1	3.18
6	3.50	NITRATE	2415.914	35864703	417599432	1	0.00
7	5.03		0.000	35442	531524	1	
8	5.90	PHOSPHATE	31.325	73220	957526	1	2.52
9	6.80		0.000	11417	131440	1	
10	7.70	SULFATE	28.695	121873	2432766	1	0.00
		Totals	3121.323	61692049	548319006		

File: 95091821.D23 Sample: 95-7932-C1/SEG2 - A09



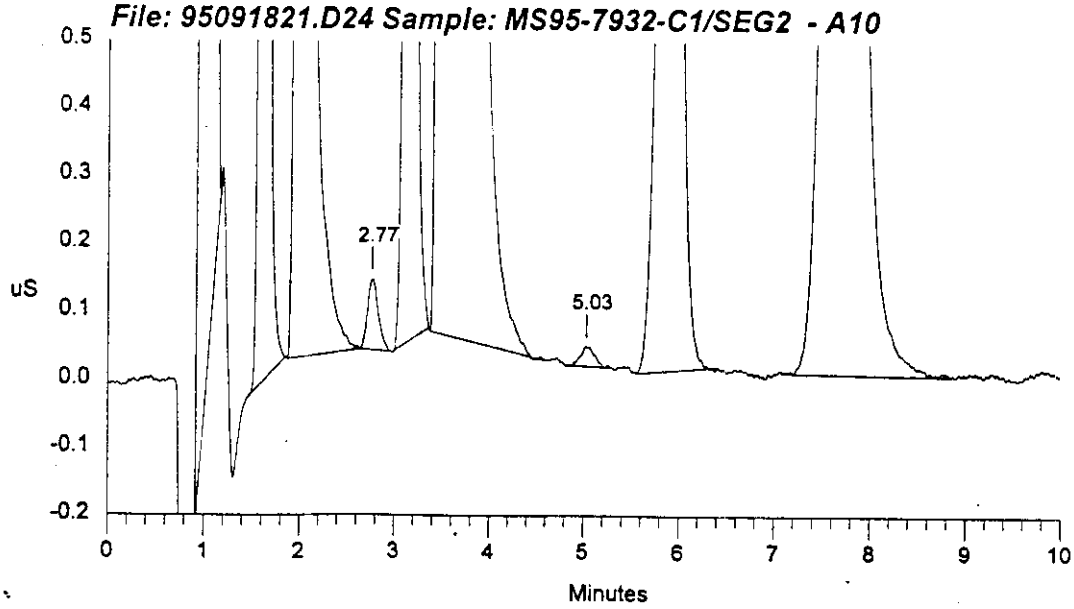
Data Reprocessed On 09/20/1995 22:37:43

Sample Name:	MS95-7932-C1/SEG2 - A10	Date:	09/18/1995 16:39:54
Data File :	C:\DX\DATA\9509182\95091821.D24		
Method :	c:\dx\method\2anions2.met		
ACI Address: 1	System: 2 Inject#: 24 Vial:A10	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	191.719	23406491	87036684	1	0.35
2	1.60	CHLORIDE	216.530	13455648	62035555	1	0.00
3	2.00	NITRITE	995.731	36607487	190331001	1	-0.41
4	2.77		0.000	102344	811655	1	
5	3.13	BROMIDE	190.642	2956980	20303379	1	3.18
6	3.50	NITRATE	2744.510	41709609	486866891	1	0.00
7	5.03		0.000	27655	287576	1	
8	5.87	PHOSPHATE	445.083	2475070	32644376	1	1.94
9	7.67	SULFATE	463.801	4720852	87927429	1	0.00
		Totals	5248.017	125462135	968244546		



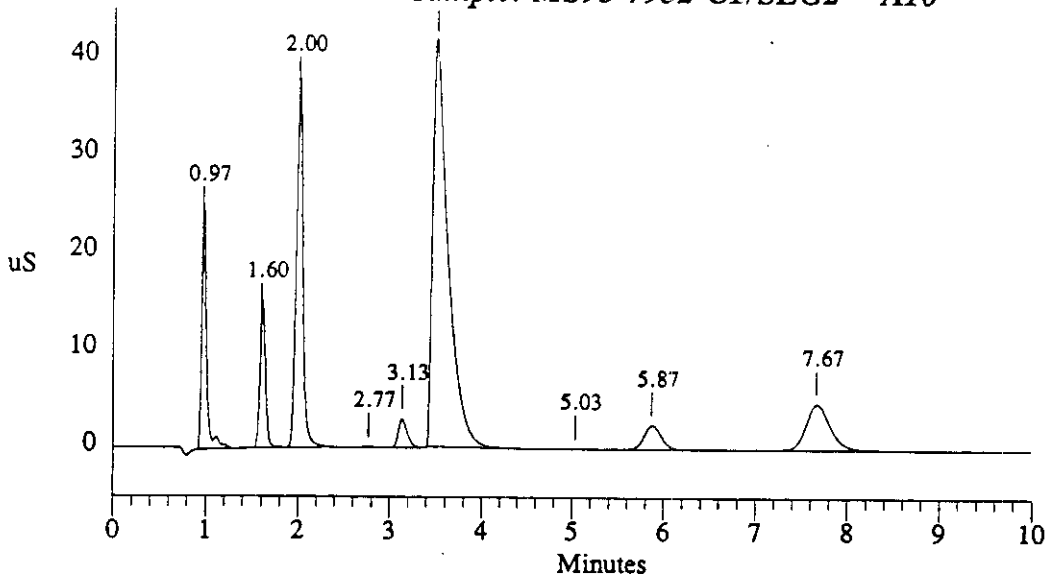
Sample Name: MS95-7932-C1/SEG2 - A10 Date: 09/18/1995 16:39:54
Data File : C:\DX\DATA\9509182\95091821.D24
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 24 Vial:A10 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	202.908	23490832	92367986	1	0.35
2	1.60	CHLORIDE	220.510	13500317	63280637	1	0.00
3	2.00	NITRITE	995.731	36607487	190331001	1	-0.41
4	2.77		0.000	102344	811655	1	
5	3.13	BROMIDE	190.642	2956980	20303379	1	3.18
6	3.50	NITRATE	2723.392	41591851	482288218	1	0.00
7	5.03		0.000	27655	287576	1	
8	5.87	PHOSPHATE	450.516	2479142	33069395	1	1.94
9	7.67	SULFATE	463.801	4720852	87927429	1	0.00
		Totals	5247.501	125477459	970667276		

File: 95091821.D24 Sample: MS95-7932-C1/SEG2 - A10



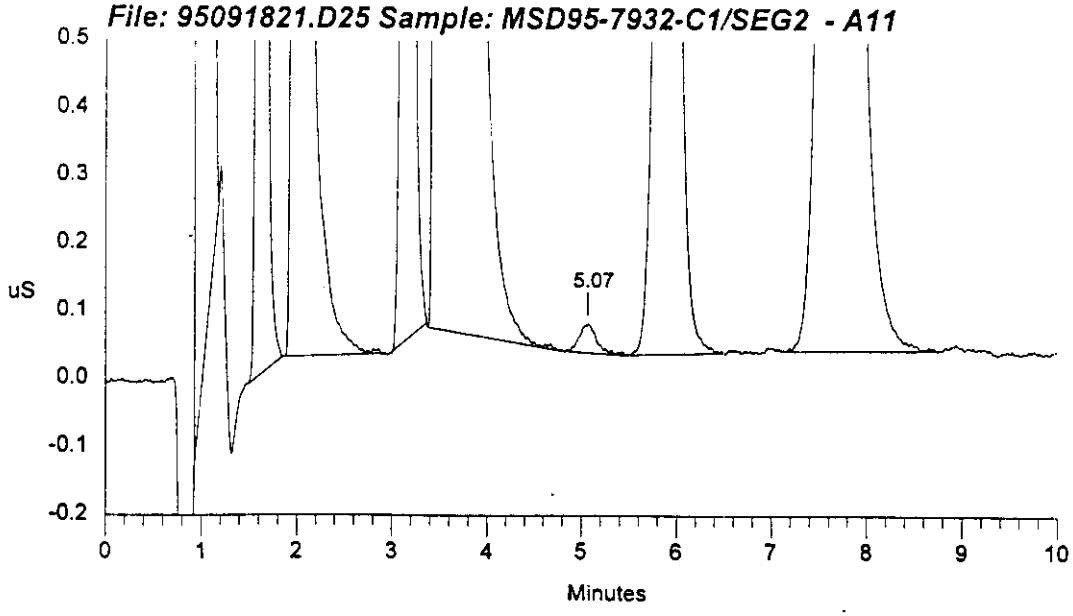
Data Reprocessed On 09/20/1995 22:40:50

Sample Name: MSD95-7932-C1/SEG2 - A11		Date: 09/18/1995 16:56:22	
Data File : C:\DX\DATA\9509182\95091821.D25			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 25 Vial:A11			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	190.770	25433775	86584526	1	1.03
2	1.62	CHLORIDE	214.530	14854472	61410668	1	0.00
3	2.02	NITRITE	1027.927	39142797	196635969	1	-0.61
4	3.13	BROMIDE	196.968	3004787	21006581	1	2.12
5	3.50	NITRATE	2815.410	43178208	502376998	1	0.00
6	5.07		0.000	41674	548334	1	
7	5.87	PHOSPHATE	472.039	2588967	34755735	1	1.94
8	7.67	SULFATE	472.712	4809973	89718683	1	0.00
		Totals	5390.357	133054655	993037495		



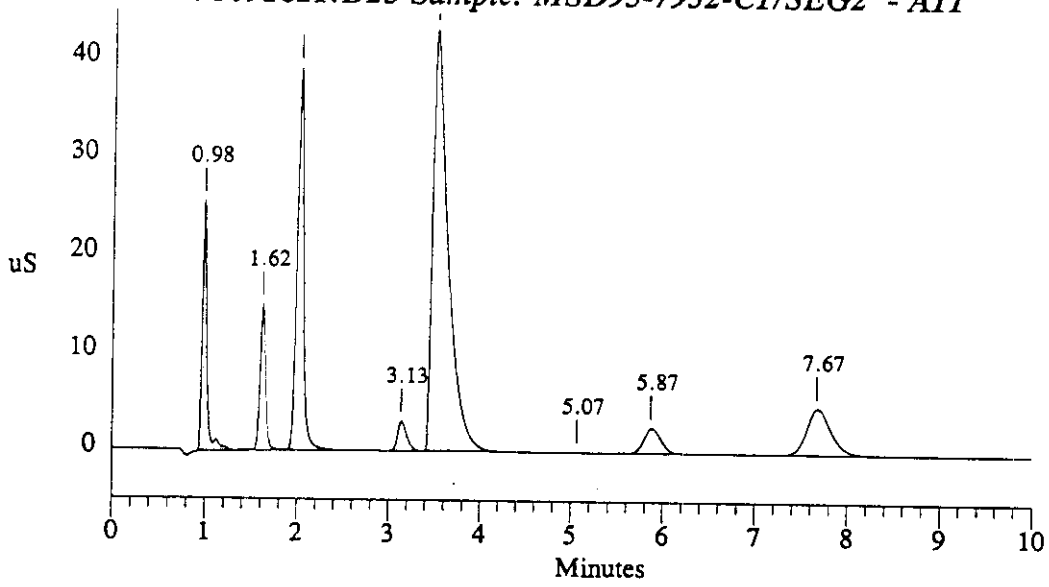
Sample Name: MSD95-7932-C1/SEG2 - A11 Date: 09/18/1995 16:56:22
Data File : C:\DX\DATA\9509182\95091821.D25
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 25 Vial:A11 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	200.603	25517057	91269517	1	1.03
2	1.62	CHLORIDE	217.688	14888606	62397391	1	0.00
3	2.02	NITRITE	1027.927	39142797	196635969	1	-0.61
4	3.13	BROMIDE	196.968	3004787	21006581	1	2.12
5	3.50	NITRATE	2803.607	43125961	499780035	1	0.00
6	5.07		0.000	38288	456887	1	
7	5.87	PHOSPHATE	472.039	2588967	34755735	1	1.94
8	7.67	SULFATE	472.712	4809973	89718683	1	0.00
		Totals	5391.544	133116437	996020798		

File: 95091821.D25 Sample: MSD95-7932-C1/SEG2 - A11



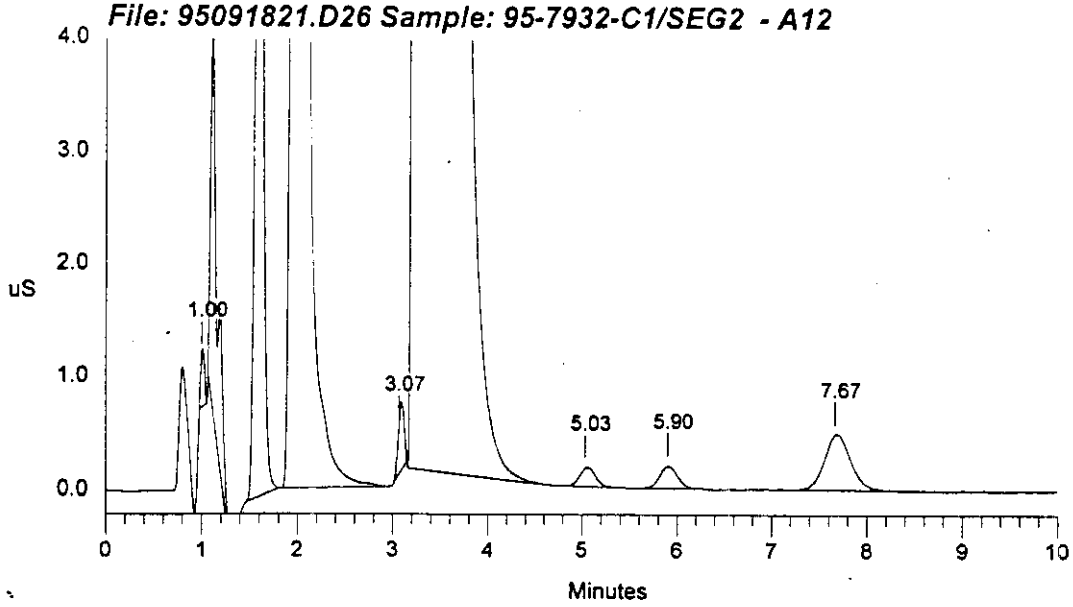
Data Reprocessed On 09/20/1995 22:54:49

Sample Name: 95-7932-C1/SEG2 - A12		Date: 09/18/1995 17:12:50	
Data File : C:\DX\DATA\9509182\95091821.D26			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 26 Vial:A12			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	2.225	473871	1399168	1	5.26
2	1.12		0.000	3167588	16679878	1	
3	1.58	CHLORIDE	31.434	7700077	43719972	1	0.00
4	2.00	NITRITE	565.249	83431286	551981387	1	0.64
5	3.07	BROMIDE	5.143	397428	2469388	1	2.05
6	3.27	NITRATE	776.871	167474811	2463919317	1	0.00
7	5.03		0.000	160110	1978695	1	
8	5.90	PHOSPHATE	10.661	195613	2608016	1	6.12
9	7.67	SULFATE	13.008	485712	9433334	1	0.00
		Totals	1404.591	263486495	3094189154		



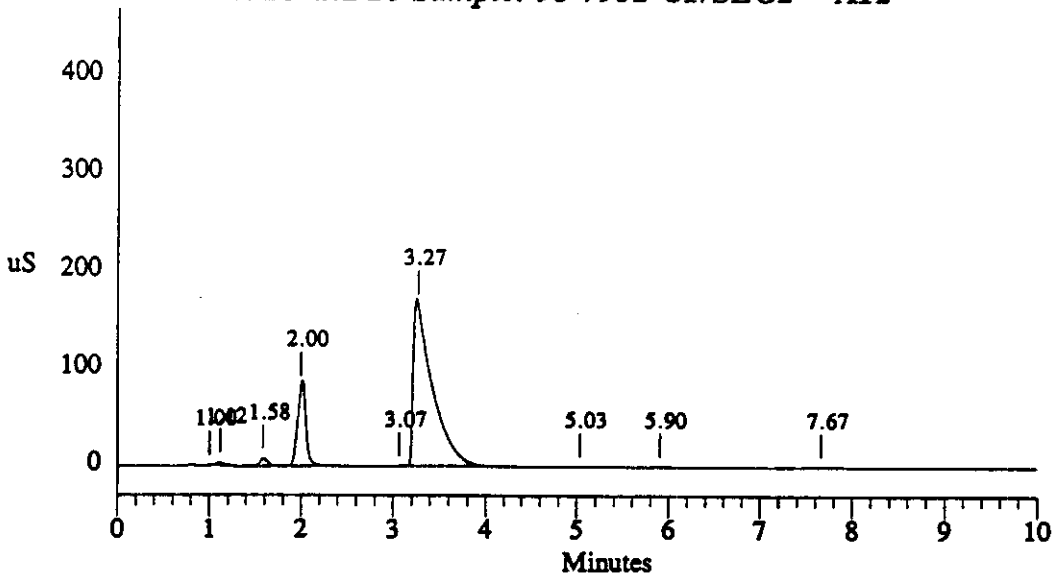
Sample Name: 95-7932-C1/SEG2 - A12 Date: 09/18/1995 17:12:50
Data File : C:\DX\DATA\9509182\95091821.D26
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 26 Vial:A12 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.00	FLUORIDE	2.225	473871	1399168	1	4.91
2	1.12		0.000	3167588	16679878	1	
3	1.58	CHLORIDE	34.869	7915695	48971843	1	0.00
4	2.00	NITRITE	565.249	83431286	551981387	1	0.64
5	3.07	BROMIDE	3.625	311333	1670914	1	2.05
6	3.27	NITRATE	779.108	167411151	2460670588	1	0.00
7	5.03	PHOSPHATE	8.829	159535	1920000	1	-6.29
8	5.90		0.000	193605	2536649	1	
9	7.67	SULFATE	13.099	486756	9520443	1	0.00
		Totals	1407.005	263550819	3095350869		

File: 95091821.D26 Sample: 95-7932-C1/SEG2 - A12



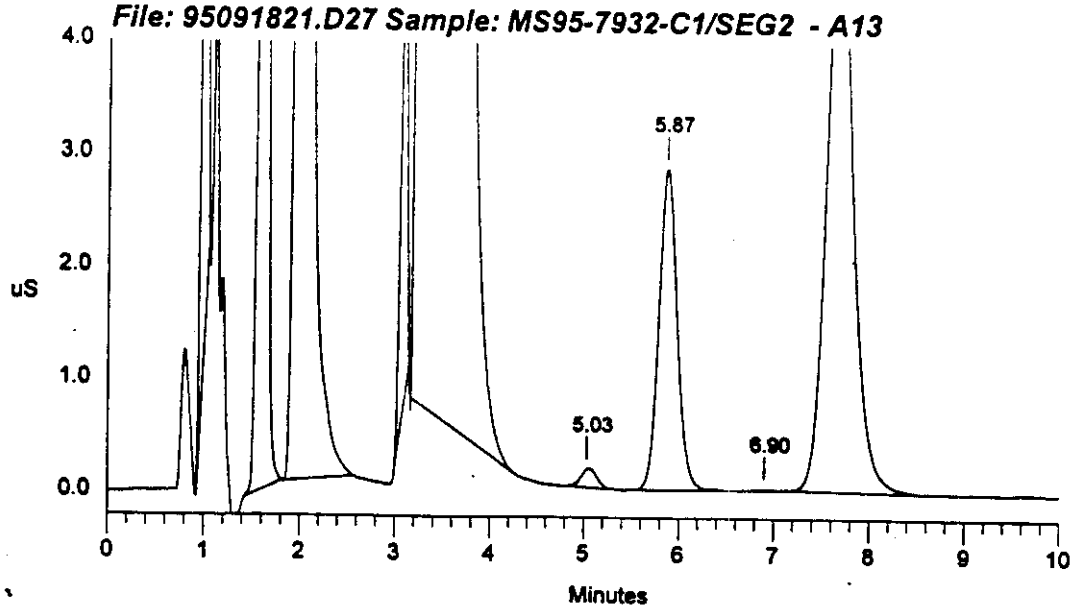
Data Reprocessed On 09/20/1995 22:56:23

Sample Name:	MS95-7932-C1/SEG2 - A13	Date:	09/18/1995 17:29:18
Data File :	C:\DX\DATA\9509182\95091821.D27		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 27 Vial:A13	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	20.648	14135558	44984168	1	3.51
2	1.58	CHLORIDE	67.938	17877358	101645381	1	0.00
3	2.02	NITRITE	630.993	97841373	617625286	1	1.48
4	3.07	BROMIDE	35.606	3995605	18905686	1	2.05
5	3.27	NITRATE	784.979	165848177	2452084867	1	0.00
6	5.03		0.000	159720	1924922	1	
7	5.87	PHOSPHATE	102.342	2852947	37873808	1	5.57
8	6.90		0.000	13861	163394	1	
9	7.63	SULFATE	105.582	5262918	100850941	1	0.00
		Totals	1748.088	307987517	3376058452		



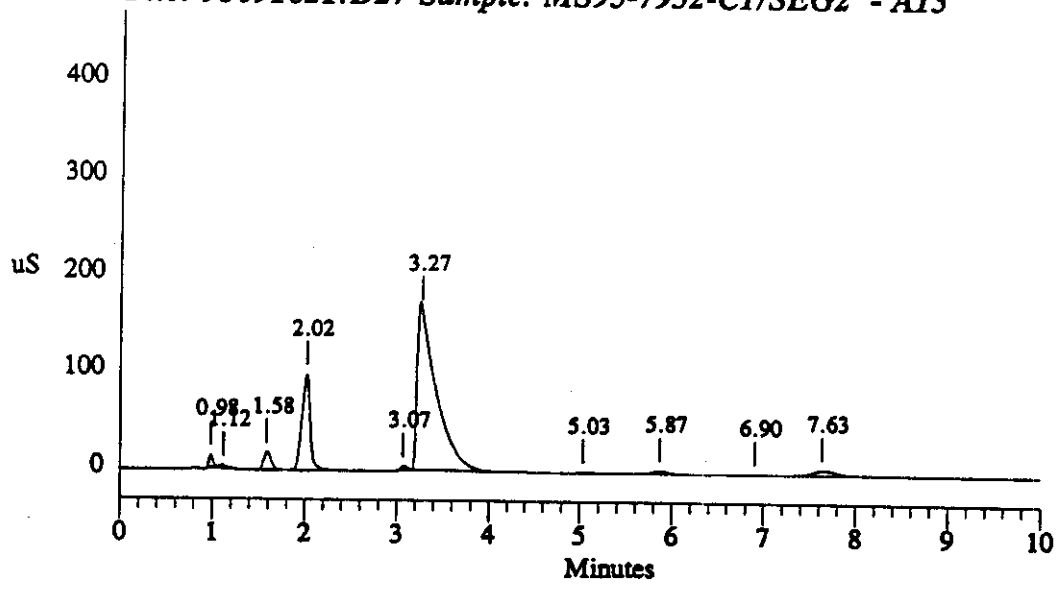
Sample Name: MS95-7932-C1/SEG2 - A13 Date: 09/18/1995 17:29:18
Data File : C:\DX\DATA\9509182\95091821.D27
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 27 Vial:A13 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	19.625	13486146	42558095	2	3.16
2	1.12		0.000	3367240	19297791	2	
3	1.58	CHLORIDE	70.294	18030444	105557945	1	0.00
4	2.02	NITRITE	633.028	97857728	619660658	1	1.48
5	3.07	BROMIDE	29.564	3615579	15581837	1	2.05
6	3.27	NITRATE	784.979	165848177	2452084867	1	0.00
7	5.03	PHOSPHATE	8.843	159720	1924922	1	-6.29
8	5.87		0.000	2852947	37873808	1	
9	6.90		0.000	13861	163394	1	
10	7.63	SULFATE	105.582	5262918	100850941	1	0.00
		Totals	1651.915	310494759	3395554258		

File: 95091821.D27 Sample: MS95-7932-C1/SEG2 - A13



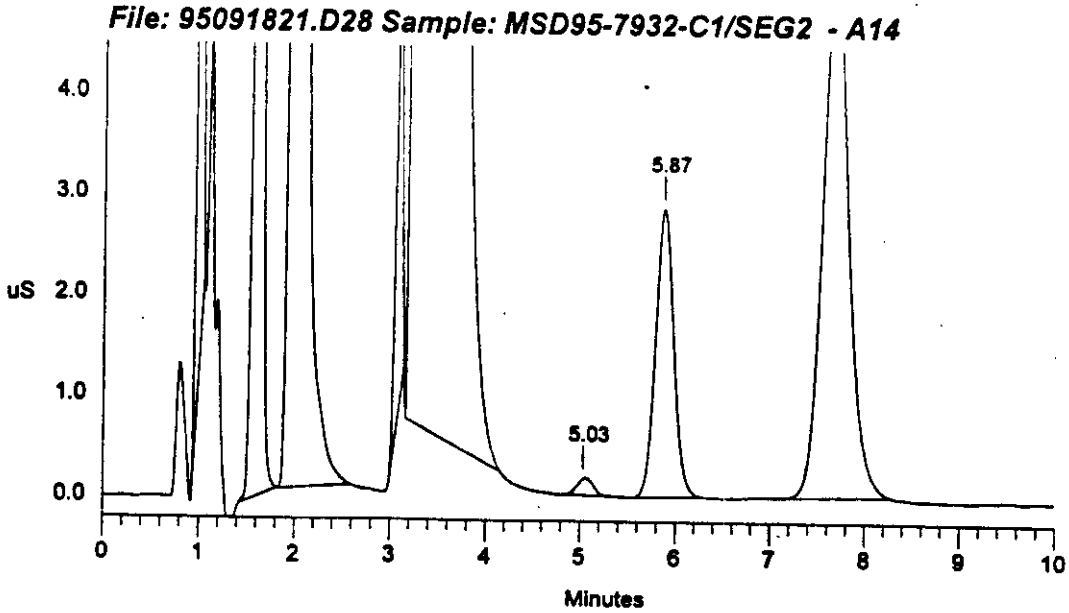
Data Reprocessed On 09/20/1995 22:53:49

Sample Name: MSD95-7932-C1/SEG2 - A14		Date: 09/18/1995 17:45:48	
Data File : C:\DX\DATA\9509182\95091821.D28			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 28 Vial:A14			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	19.991	13673890	43425164	1	3.51
2	1.58	CHLORIDE	68.816	18164002	103100256	1	0.00
3	2.02	NITRITE	646.545	99544093	633185152	1	1.48
4	3.07	BROMIDE	34.760	4102207	18438094	1	2.05
5	3.27	NITRATE	734.448	166437456	2523322578	1	0.00
6	5.03		0.000	156638	1927678	1	
7	5.87	PHOSPHATE	101.341	2850913	37479693	1	5.52
8	7.63	SULFATE	105.212	5293016	100477355	1	0.0
		Totals	1711.113	310222215	3461355970		



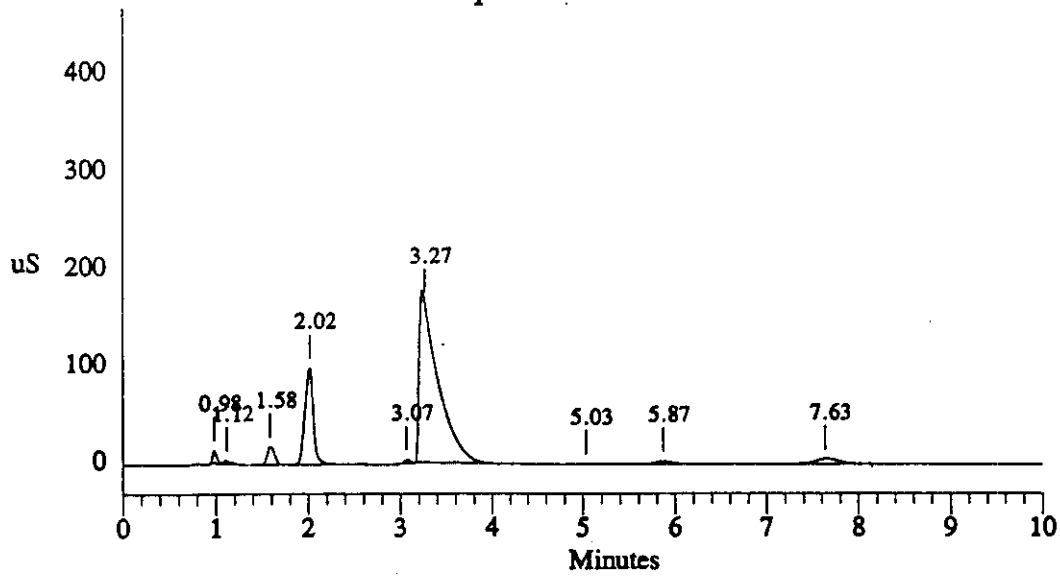
Sample Name: MSD95-7932-C1/SEG2 - A14 Date: 09/18/1995 17:45:48
Data File : C:\DX\DATA\9509182\95091821.D28
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 28 Vial:A14 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	18.981	13042586	41031578	2	3.16
2	1.12		0.000	3418993	19710972	2	
3	1.58	CHLORIDE	71.093	18312264	106889333	1	0.00
4	2.02	NITRITE	648.459	99559364	635100494	1	1.48
5	3.07	BROMIDE	31.581	3894011	16687709	1	2.05
6	3.27	NITRATE	758.191	165446358	2490573478	1	0.00
7	5.03	PHOSPHATE	9.064	159508	2008199	1	-6.29
8	5.87		0.000	2856879	37850854	1	
9	7.63	SULFATE	106.478	5306224	101757436	1	0.00
		Totals	1643.847	311996188	3451610053		

File: 95091821.D28 Sample: MSD95-7932-C1/SEG2 - A14



Data Reprocessed On 09/21/1995 00:05:26

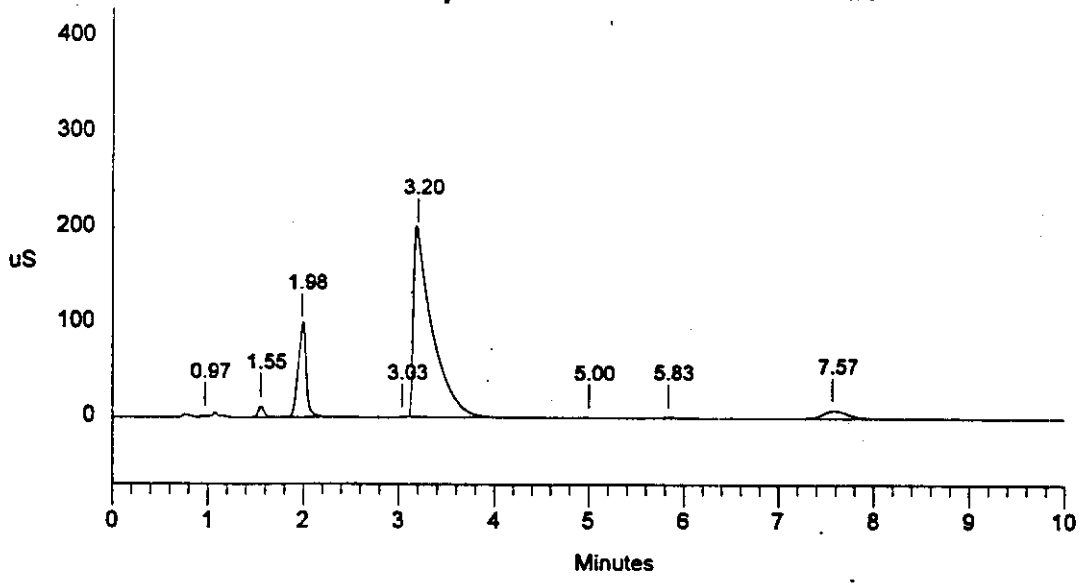
Sample Name:	MS95-7932-C4/SEG2 - B26	Date:	09/18/1995 17:58:26
Data File :	C:\DX\DATA\9509182\95091821.d29		
Method :	c:\dx\method\2anions2.met		
ACI Address:	1 System: 2 Inject#: 29 Vial:B26	Detector:	PED-Cond.
Analyst :	MMO Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.072	1256627	5759664	1	3.94
2	1.55	CHLORIDE	36.858	11818199	52029417	1	0.00
3	1.98	NITRITE	609.310	95856275	595950826	1	1.95
4	3.03	BROMIDE	3.639	342032	1678176	1	3.11
5	3.20	NITRATE	578.840	196159116	2714017027	1	0.00
6	5.00		0.000	161112	1926835	1	
7	5.83	PHOSPHATE	42.162	1063686	14541168	1	7.1J
8	7.57	SULFATE	157.799	8182042	154423503	1	0.0
		Totals	1432.680	314839089	3540326617		

File: 95091821.d29 Sample: MS95-7932-C4/SEG2 - B26



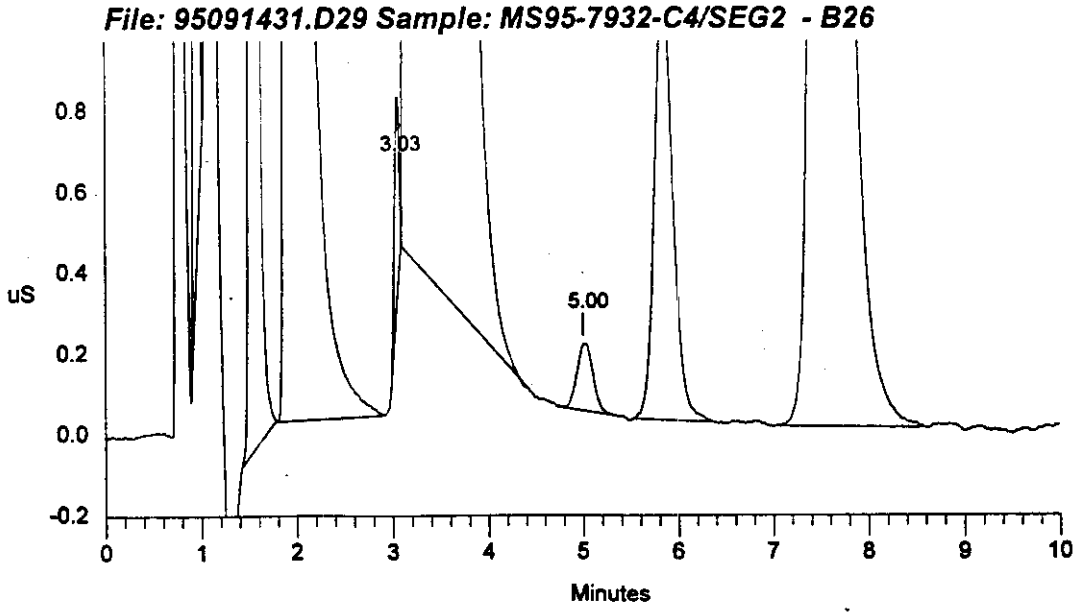
Data Reprocessed On 09/20/1995 23:11:34

Sample Name: MS95-7932-C4/SEG2 - B26		Date: 09/18/1995 17:58:26	
Data File : C:\DX\DATA\9509182\95091431.D29			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 29 Vial:B26			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.072	1256627	5759664	1	3.94
2	1.55	CHLORIDE	36.858	11818199	52029417	1	0.00
3	1.98	NITRITE	609.310	95856275	595950826	1	1.95
4	3.03	BROMIDE	3.639	342032	1678176	1	3.11
5	3.20	NITRATE	578.840	196159116	2714017027	1	0.00
6	5.00		0.000	161112	1926835	1	
7	5.83	PHOSPHATE	42.162	1063686	14541168	1	7.11
8	7.57	SULFATE	157.799	8182042	154423503	1	0.00
		Totals	1432.680	314839089	3540326617		



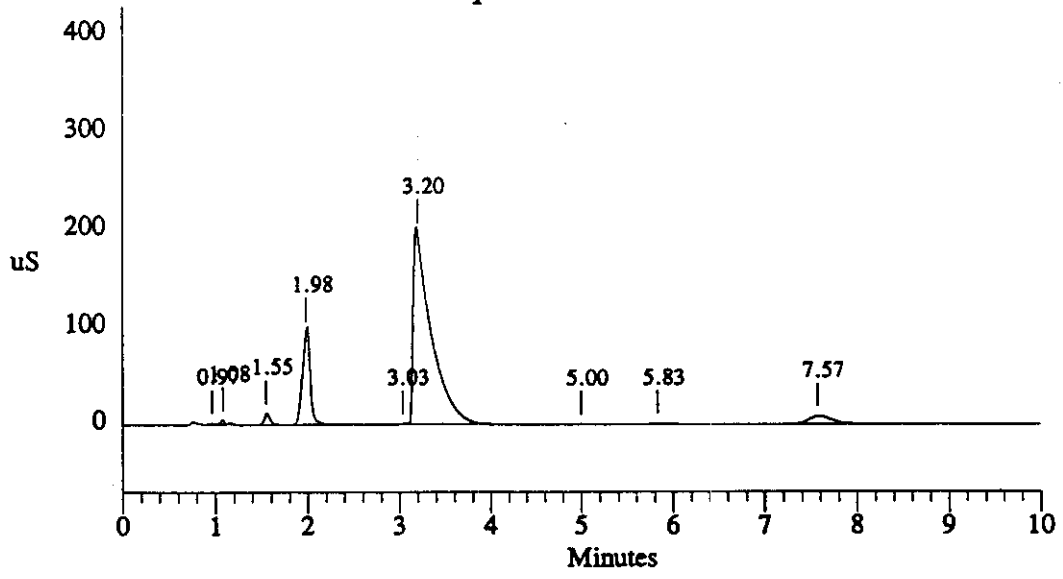
Sample Name: MS95-7932-C4/SEG2 - B26 Date: 09/18/1995 17:58:26
Data File : C:\DX\DATA\9509142\95091431.D29
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 29 Vial:B26 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	4.603	1458536	7013983	2	3.59
2	1.08		0.000	4166579	16127993	2	
3	1.55	CHLORIDE	40.589	12054475	57801869	1	0.00
4	1.98	NITRITE	609.232	95855885	595872814	1	1.95
5	3.03	BROMIDE	0.993	104547	289707	1	3.11
6	3.20	NITRATE	580.161	196156918	2712538300	1	0.00
7	5.00	PHOSPHATE	9.107	162554	2024382	1	-4.97
8	5.83		0.000	1067023	14691344	1	
9	7.57	SULFATE	157.805	8182087	154429867	1	0.00
		Totals	1402.490	319208602	3560790259		

File: 95091431.D29 Sample: MS95-7932-C4/SEG2 - B26



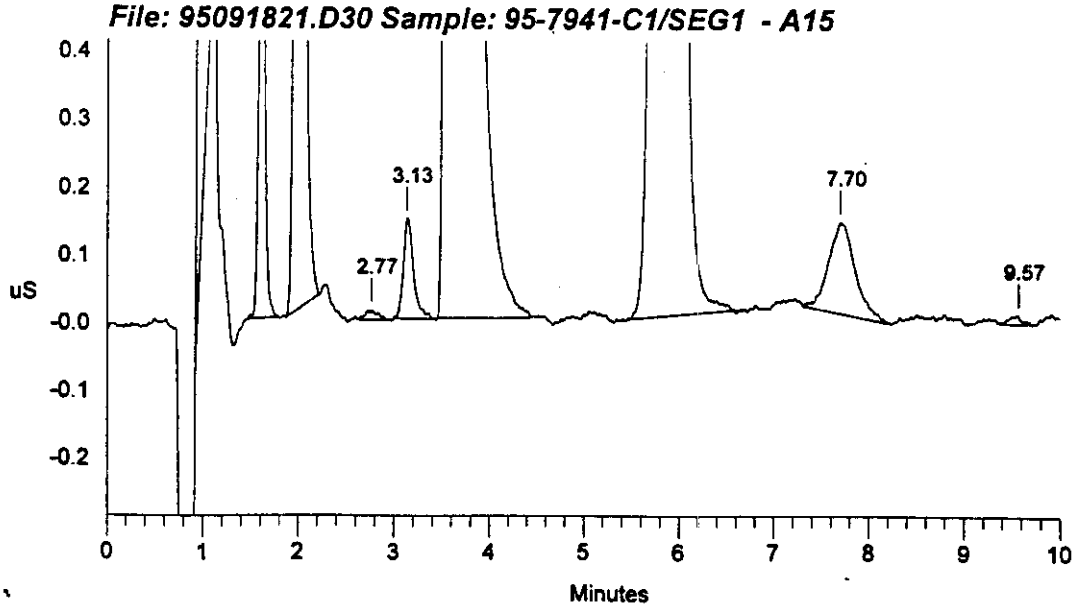
Data Reprocessed On 09/20/1995 23:19:32

Sample Name: 95-7941-C1/SEG1 - A15			Date: 09/18/1995 18:14:55
Data File : C:\DX\DATA\9509182\95091821.D30			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 30 Vial:A15			Detector:PED-Cond.
Analyst : MMO		Column: AG4A/AS4A	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	60.842	15521300	53734340	1	0.35
2	1.60	CHLORIDE	10.487	769727	3357302	1	0.00
3	1.98	NITRITE	79.087	5078352	26994541	1	-1.24
4	2.77		0.000	13320	138897	1	
5	3.13	BROMIDE	6.341	145150	1098842	1	3.18
6	3.57	NITRATE	565.463	16147459	178401260	1	0.00
7	5.80	PHOSPHATE	652.234	7631733	103209347	1	-1.10
8	7.70	SULFATE	14.869	133855	2633311	1	0.00
9	9.57		0.000	11667	123361	1	
		Totals	1389.324	45452563	369691202		



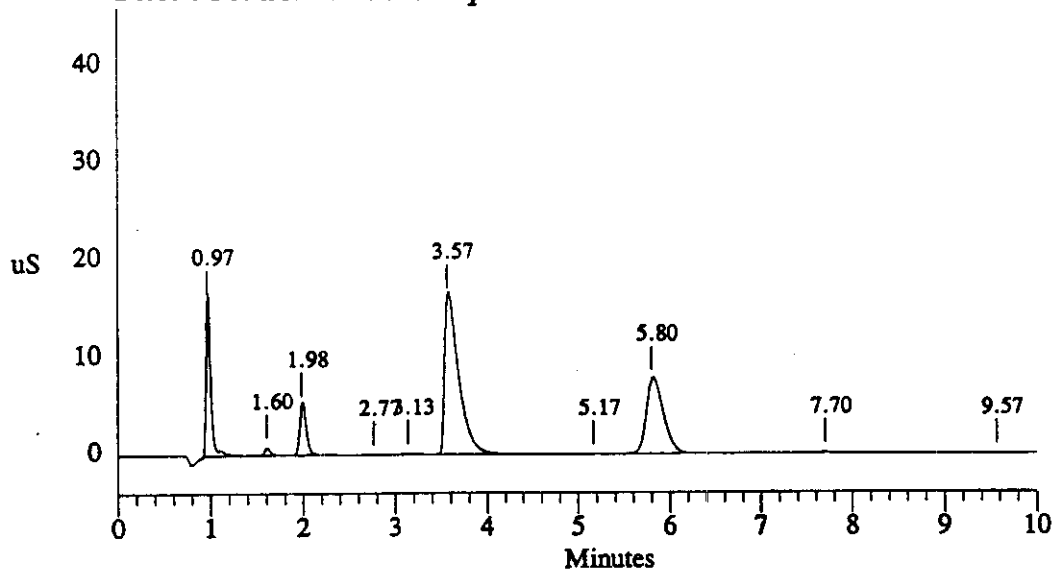
Sample Name: 95-7941-C1/SEG1 - A15 Date: 09/18/1995 18:14:55
Data File : C:\DX\DATA\9509182\95091821.D30
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 30 Vial:A15 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	66.535	15650575	59140166	2	0.35
2	1.60	CHLORIDE	11.293	787821	3822432	2	0.00
3	1.98	NITRITE	79.087	5078352	26994541	1	-1.24
4	2.77		0.000	13320	138897	1	
5	3.13	BROMIDE	6.341	145150	1098842	1	3.18
6	3.57	NITRATE	565.153	16137153	178295266	1	0.00
7	5.17		0.000	8625	118648	1	
8	5.80	PHOSPHATE	652.234	7631733	103209347	1	-1.10
9	7.70	SULFATE	14.499	130817	2491211	1	0.00
10	9.57		0.000	11667	123361	1	
		Totals	1395.142	45595214	375432711		

File: 95091821.D30 Sample: 95-7941-C1/SEG1 - A15



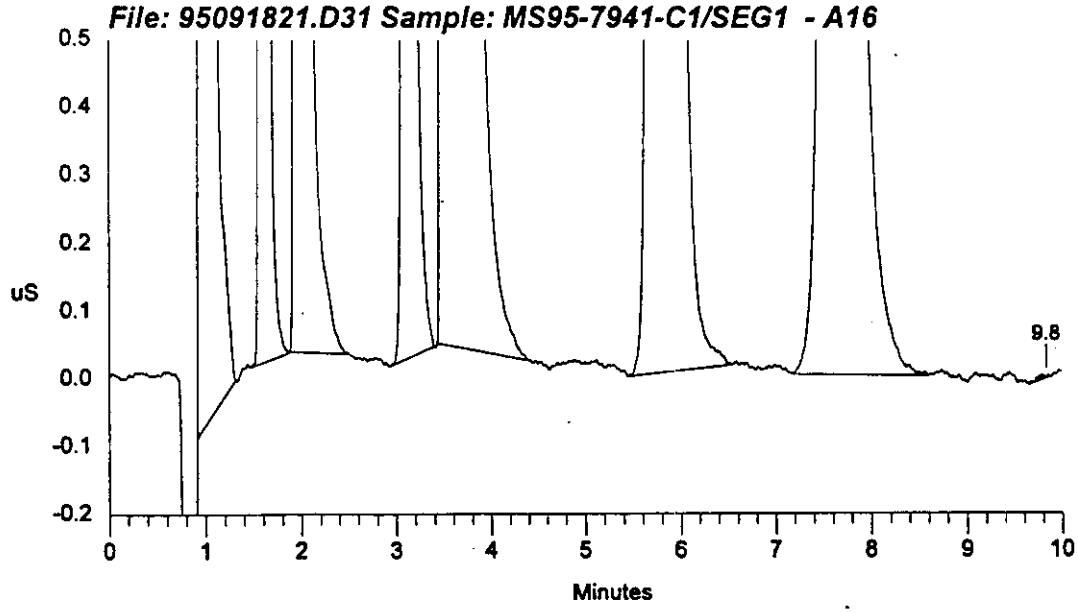
Data Reprocessed On 09/20/1995 23:24:43

Sample Name: MS95-7941-C1/SEG1 - A16		Date: 09/18/1995 18:31:23	
Data File : C:\DX\DATA\9509182\95091821.D31			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 31 Vial:A16			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	164.536	37150818	152693200	1	0.35
2	1.60	CHLORIDE	97.760	11977470	55499160	1	0.00
3	2.00	NITRITE	309.217	23781116	116589568	1	-0.41
4	3.10	BROMIDE	102.932	2336915	21998177	1	2.08
5	3.53	NITRATE	817.326	23803879	267108297	1	0.00
6	5.77	PHOSPHATE	893.803	10635608	146342306	1	-0.74
7	7.67	SULFATE	238.806	4863296	90704180	1	0.00
8	9.83		0.000	272	37804	1	
		Totals	2624.381	114549373	850972693		



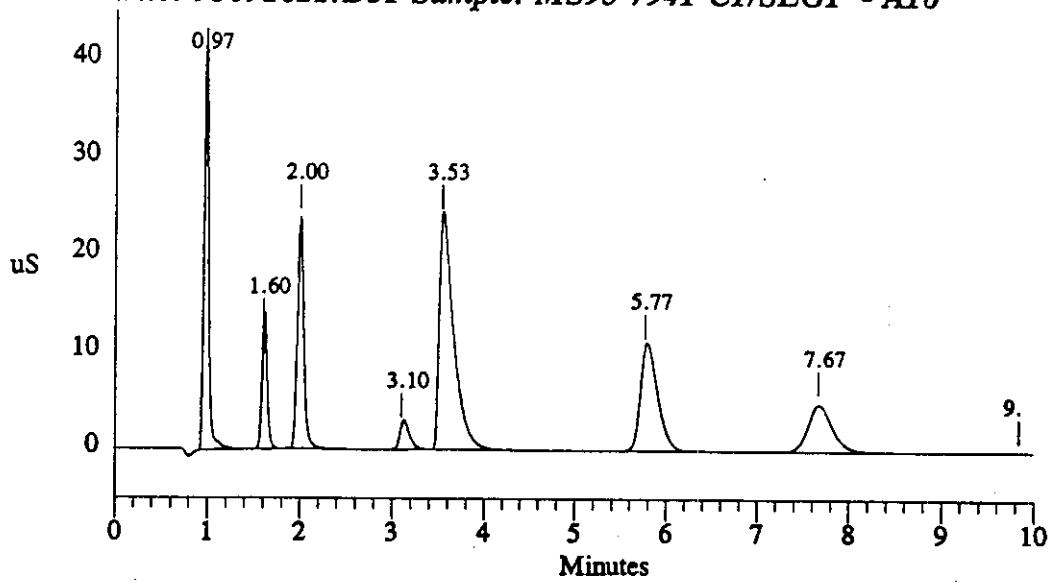
Sample Name: MS95-7941-C1/SEG1 - A16 Date: 09/18/1995 18:31:23
Data File : C:\DX\DATA\9509182\95091821.D31
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 31 Vial:A16 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	164.947	37154898	153087521	2	0.35
2	1.60	CHLORIDE	98.848	11998523	56173020	2	0.00
3	2.00	NITRITE	309.383	23779501	116654301	1	-0.41
4	3.10	BROMIDE	102.932	2336915	21998178	1	2.08
5	3.53	NITRATE	817.534	23804073	267183990	1	0.00
6	5.77	PHOSPHATE	895.558	10637680	146666536	1	-0.74
7	7.67	SULFATE	238.806	4863296	90704180	1	0.00
8	9.83		0.000	272	37804	1	
		Totals	2628.008	114575157	852505529		

File: 95091821.D31 Sample: MS95-7941-C1/SEG1 - A16



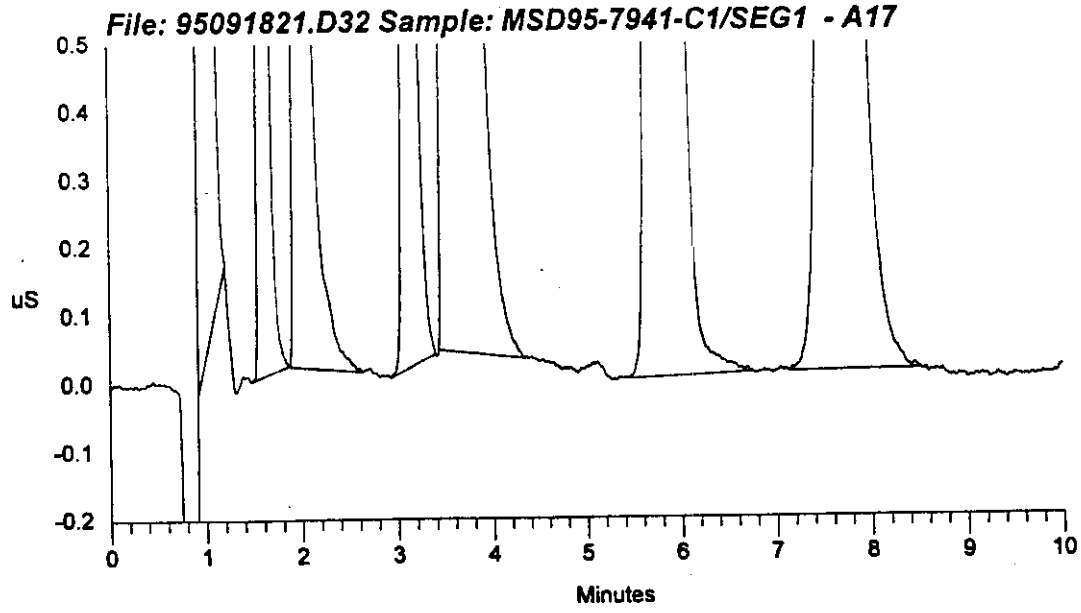
Data Reprocessed On 09/20/1995 23:26:48

Sample Name: MSD95-7941-C1/SEG1 - A17		Date: 09/18/1995 18:47:51	
Data File : C:\DX\DATA\9509182\95091821.D32			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 32 Vial:A17			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	167.820	40049230	155844558	1	0.35
2	1.60	CHLORIDE	98.880	12260493	56192696	1	0.00
3	2.00	NITRITE	313.966	24030280	118442859	1	-0.41
4	3.10	BROMIDE	102.498	2322210	21901119	1	2.08
5	3.53	NITRATE	830.786	24498574	272013468	1	0.00
6	5.77	PHOSPHATE	932.769	11419616	153579677	1	-0.74
7	7.67	SULFATE	242.237	4955813	92085606	1	0.00
		Totals	2688.956	119536217	870059984		



3-1734

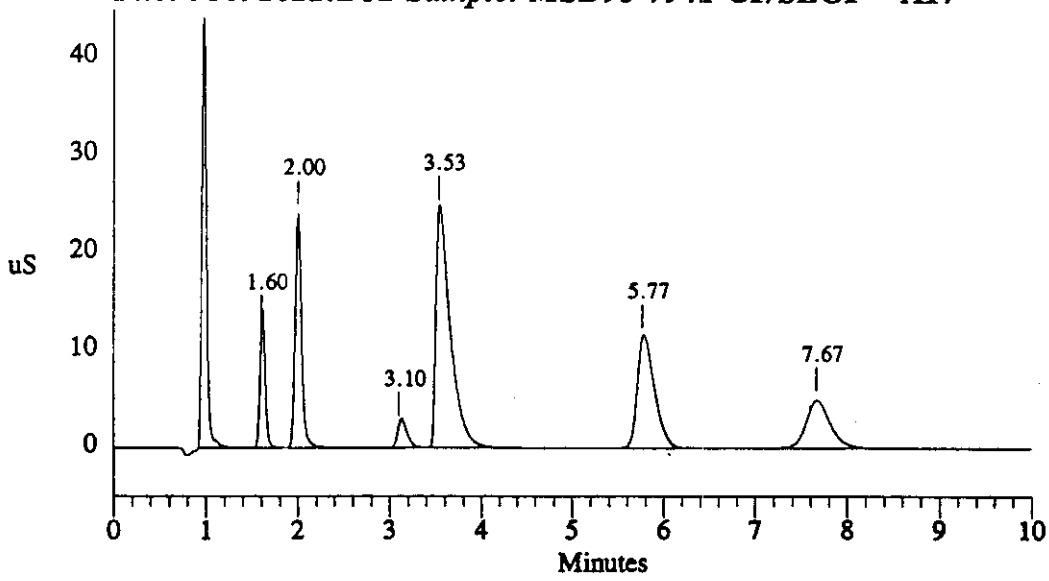
Sample Name: MSD95-7941-C1/SEG1 - A17 Date: 09/18/1995 18:47:51
Data File : C:\DX\DATA\9509182\95091821.D32
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 32 Vial:A17 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	50	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	169.952	40080936	157890817	1	0.35
2	1.60	CHLORIDE	99.149	12263863	56359638	1	0.00
3	2.00	NITRITE	313.567	24024508	118286971	1	-0.41
4	3.10	BROMIDE	102.498	2322210	21901119	1	2.08
5	3.53	NITRATE	831.964	24499452	272443869	1	0.00
6	5.77	PHOSPHATE	932.769	11419616	153579677	1	-0.74
7	7.67	SULFATE	243.821	4959887	92723549	1	0.00
		Totals	2693.721	119570472	873185639		

File: 95091821.D32 Sample: MSD95-7941-C1/SEG1 - A17



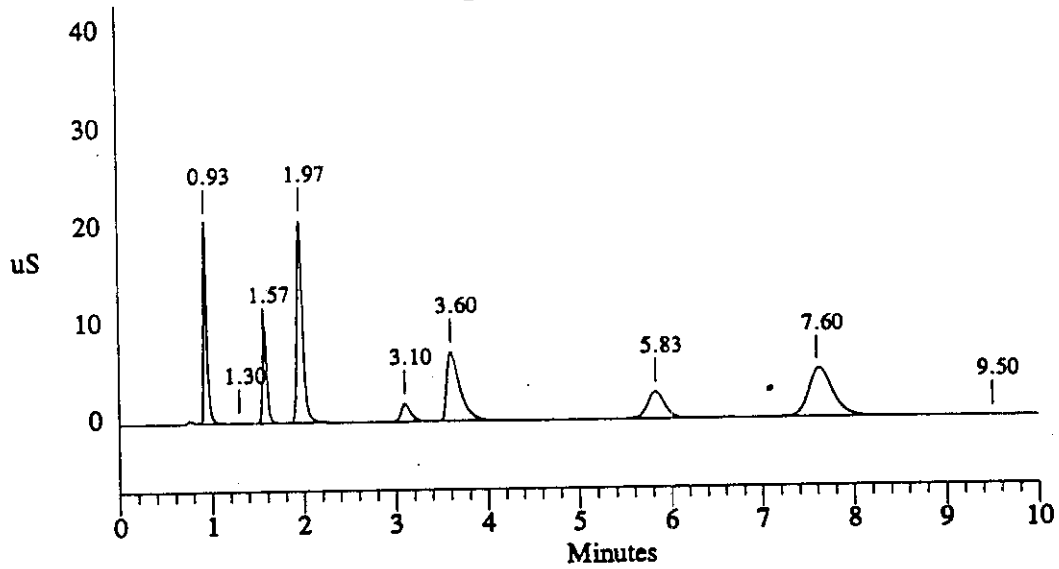
Sample Name: A950609V1/LO - A05 Date: 09/18/1995 19:00:28
Data File : C:\DX\DATA\9509182\95091821.D33
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 33 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	24.389	20624903	53858497	1	-1.05
2	1.30		0.000	47653	268389	1	
3	1.57	CHLORIDE	24.271	8372873	32889977	1	0.00
4	1.97	NITRITE	97.269	20803877	90836303	1	0.02
5	3.10	BROMIDE	25.650	1834282	13445770	1	4.26
6	3.60	NITRATE	94.608	7088188	70188918	1	0.00
7	5.83	PHOSPHATE	98.459	2750708	36346078	1	-1.45
8	7.60	SULFATE	97.513	4878217	92708067	1	0.00
		Totals	462.159	66400702	390541998		

File: 95091821.D33 Sample: A950609V1/LO - A05



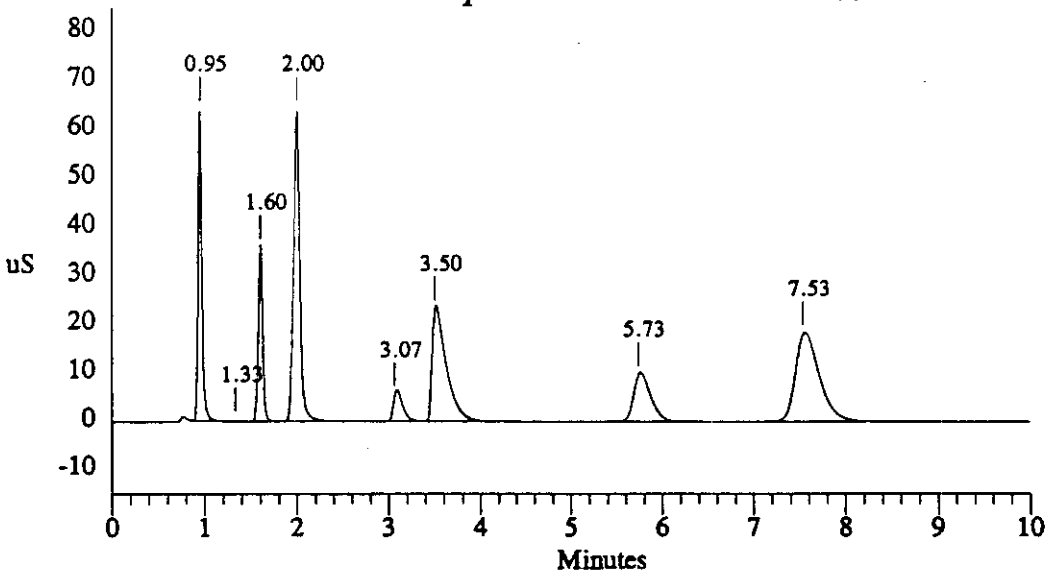
Sample Name: A950609V2/MID - A05 Date: 09/18/1995 19:13:30
Data File : C:\DX\DATA\9509182\95091821.D34
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 34 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.448	63744755	185202926	1	-1.38
2	1.33		0.000	124035	680035	1	
3	1.60	CHLORIDE	26.774	35619965	122478322	1	0.00
4	2.00	NITRITE	107.143	63976856	310402796	1	-0.41
5	3.07	BROMIDE	27.160	5219502	45320060	1	0.99
6	3.50	NITRATE	104.728	23007526	255565915	1	0.00
7	5.73	PHOSPHATE	108.216	9567505	131343872	1	-0.37
8	7.53	SULFATE	107.650	18014030	335240672	1	0.00
		Totals	508.119	219274176	1386234599		

File: 95091821.D34 Sample: A950609V2/MID - A05



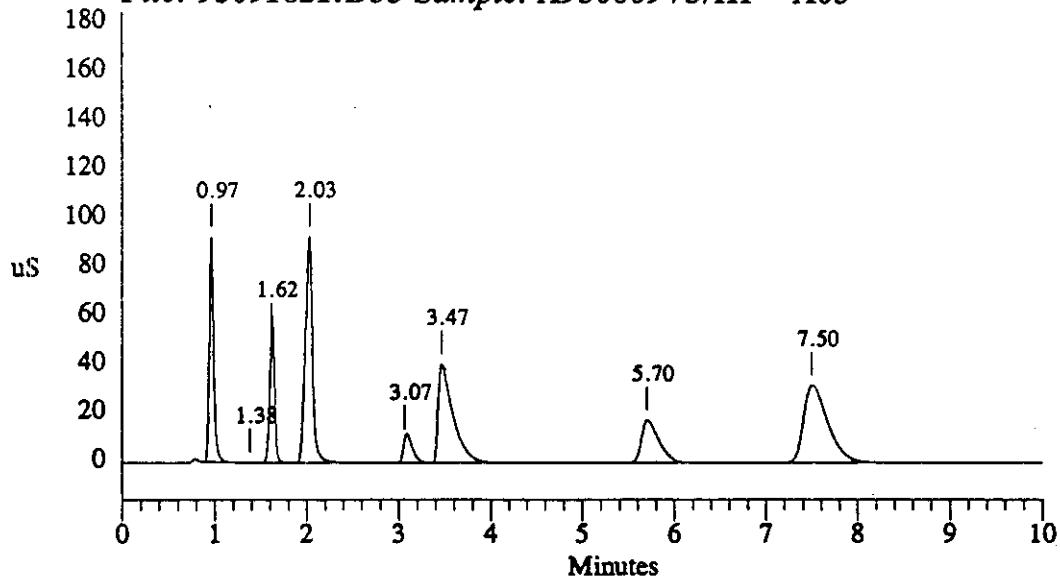
Sample Name: A950609V3/HI - A05 Date: 09/18/1995 19:26:56
Data File : C:\DX\DATA\9509182\95091821.D35
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 35 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.172	92520989	310020835	1	-0.68
2	1.38		0.000	175689	923816	1	
3	1.62	CHLORIDE	26.310	51874374	216993207	1	0.00
4	2.03	NITRITE	105.209	92980488	512942097	1	0.21
5	3.07	BROMIDE	26.873	9759684	78937999	1	-0.06
6	3.47	NITRATE	103.236	40743600	451863928	1	0.00
7	5.70	PHOSPHATE	106.684	17599172	233590805	1	0.00
8	7.50	SULFATE	106.273	32121003	596510613	1	0.00
		Totals	500.756	337774999	2401783300		

File: 95091821.D35 Sample: A950609V3/HI - A05



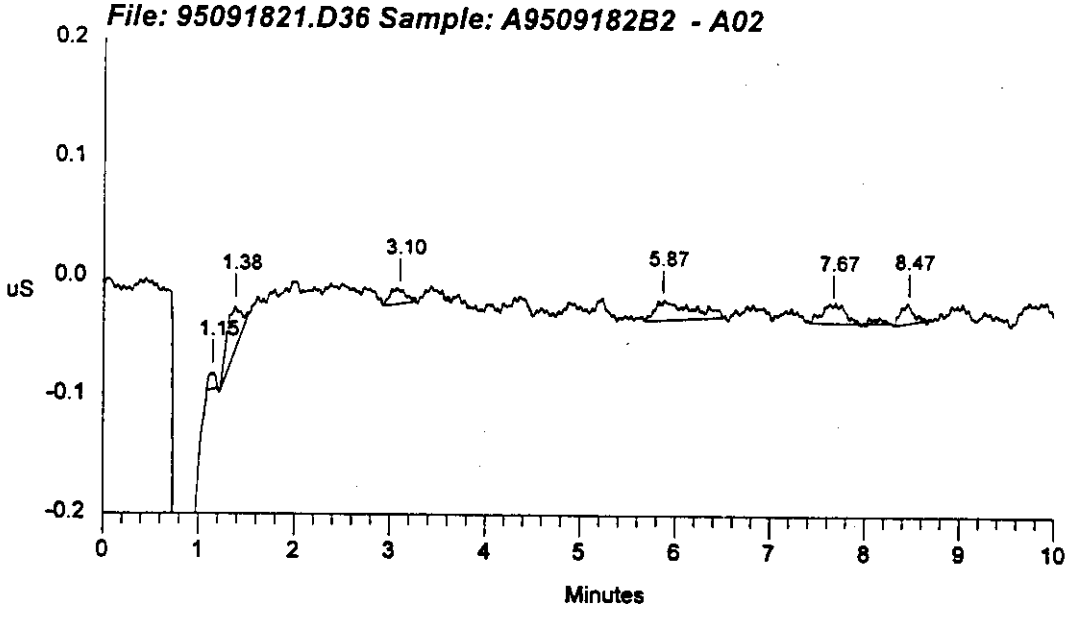
Data Reprocessed On 09/20/1995 23:28:23

Sample Name: A9509182B2 - A02		Date: 09/18/1995 19:43:26	
Data File : C:\DX\DATA\9509182\95091821.D36			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 36 Vial:A02			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.15		0.000	13567	66994	1	
2	1.38		0.000	35576	390926	1	
3	3.10	BROMIDE	0.036	10374	147030	1	0.00
4	5.87	PHOSPHATE	0.247	14824	459675	1	2.92
5	7.67	SULFATE	0.177	13429	321660	1	0.00
6	8.47		0.000	14583	159689	1	
		Totals	0.460	102354	1545974		

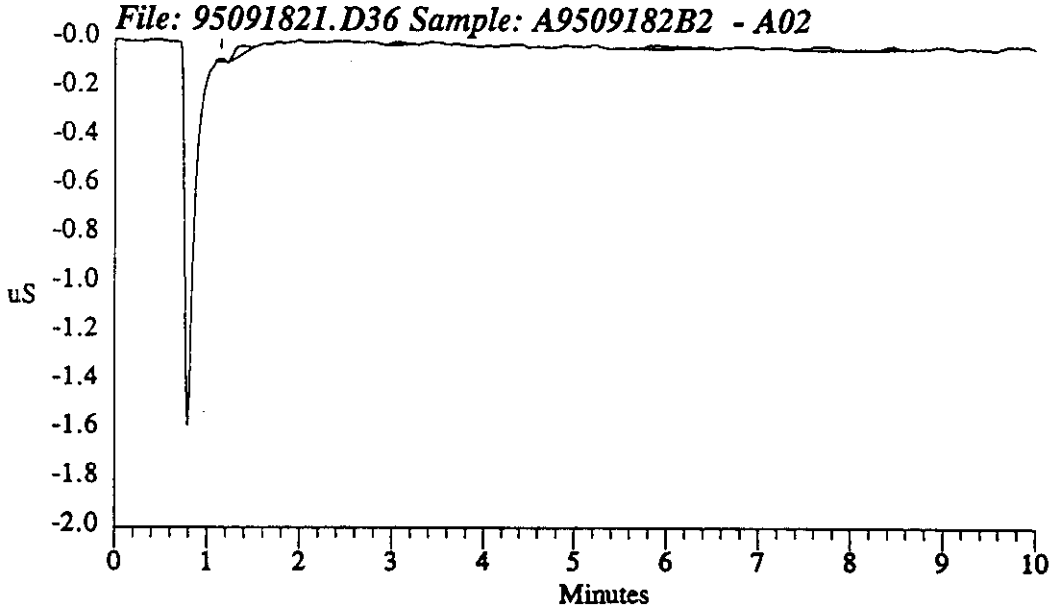


Sample Name: A9509182B2 - A02 Date: 09/18/1995 19:43:26
Data File : C:\DX\DATA\9509182\95091821.D36
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 36 Vial:A02 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.15		0.000	13567	66994	1	
2	1.38		0.000	35576	390926	1	
3	3.10	BROMIDE	0.036	10374	147030	1	0.00
4	5.87	PHOSPHATE	0.247	14824	459675	1	2.92
5	7.67	SULFATE	0.177	13429	321660	1	0.00
6	8.47		0.000	14583	159689	1	
		Totals	0.460	102354	1545974		



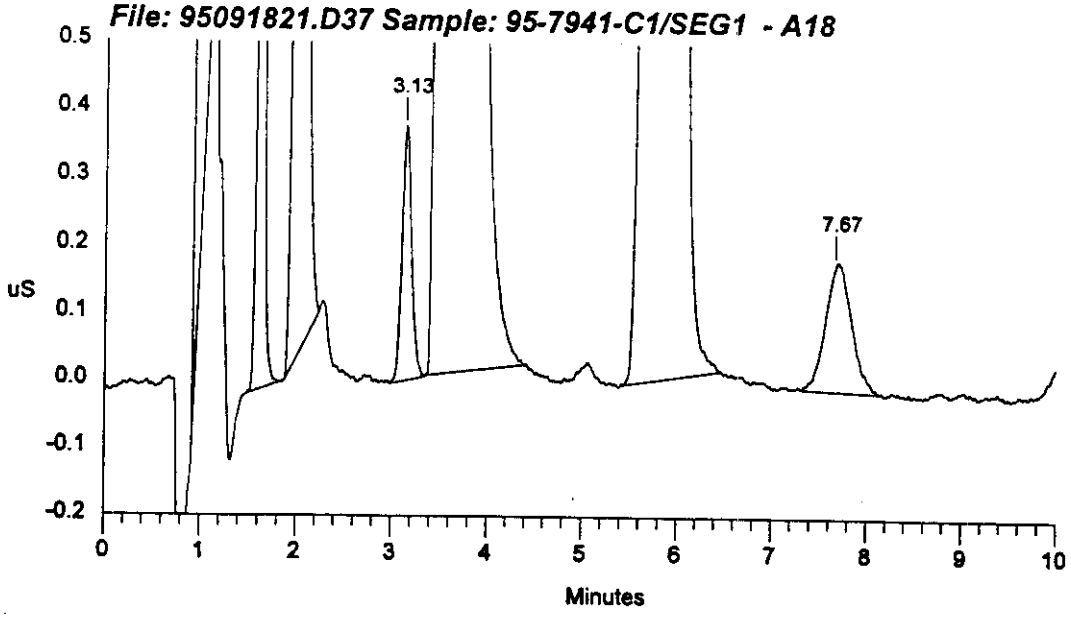
Data Reprocessed On 09/20/1995 23:31:36

Sample Name: 95-7941-C1/SEG1 - A18		Date: 09/18/1995 19:59:54	
Data File : C:\DX\DATA\9509182\95091821.D37			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 37 Vial:A18			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	66.466	38900136	154255432	1	0.35
2	1.60	CHLORIDE	6.475	1437533	6653731	1	0.00
3	2.00	NITRITE	77.347	14244649	71436899	1	-0.41
4	3.13	BROMIDE	5.404	369840	2607218	1	3.18
5	3.47	NITRATE	563.246	39554768	502557296	1	0.00
6	5.70	PHOSPHATE	647.985	21508971	298920165	1	0.00
7	7.67	SULFATE	7.059	185099	3701886	1	0.00
		Totals	1373.981	116200996	1040132628		



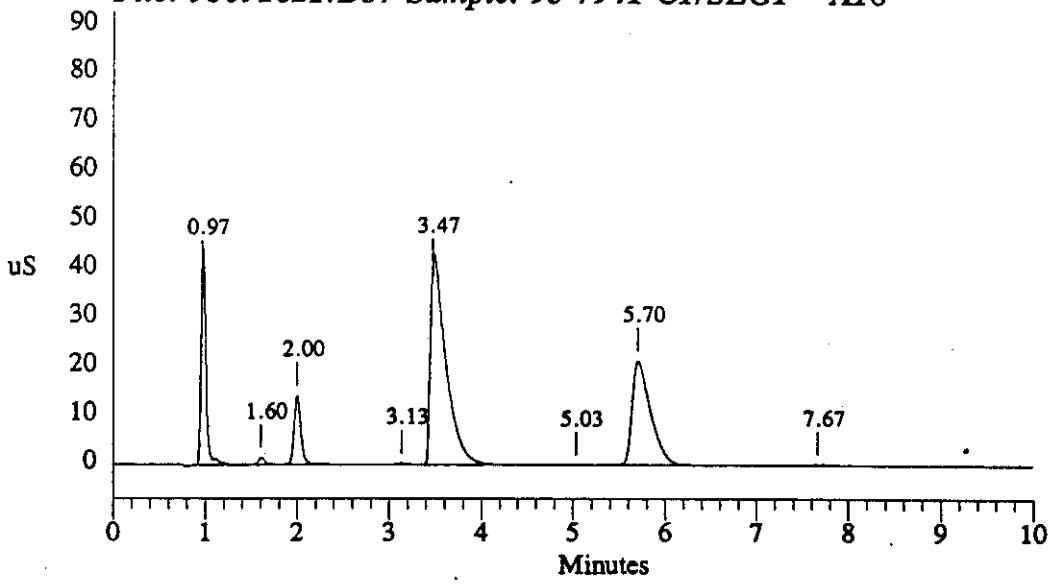
Sample Name: 95-7941-C1/SEG1 - A18 Date: 09/18/1995 19:59:54
Data File : C:\DX\DATA\9509182\95091821.D37
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 37 Vial:A18 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	71.991	39283448	167519924	1	0.35
2	1.60	CHLORIDE	7.243	1479331	7767270	1	0.00
3	2.00	NITRITE	79.506	14282110	73538462	1	-0.41
4	3.13	BROMIDE	5.404	369840	2607218	1	3.18
5	3.47	NITRATE	563.879	39556653	503255616	1	0.00
6	5.03		0.000	25968	342166	1	
7	5.70	PHOSPHATE	649.769	21515313	300008443	1	0.00
8	7.67	SULFATE	7.059	185099	3701886	1	0.00
		Totals	1384.852	116697764	1058740985		

File: 95091821.D37 Sample: 95-7941-C1/SEG1 - A18



WHC-SD-WM-DP-145, REV 1

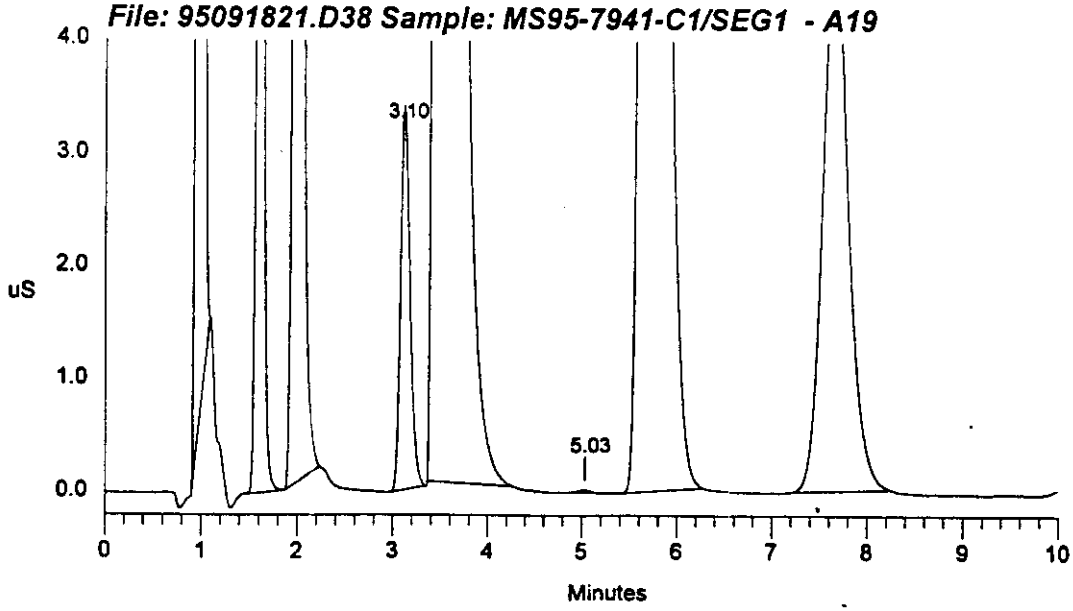
Data Reprocessed On 09/20/1995 23:34:43

Sample Name: MS95-7941-C1/SEG1 - A19		Date: 09/18/1995 20:16:22	
Data File : C:\DX\DATA\9509182\95091821.D38			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 38 Vial:A19			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	104.762	63105749	246576514	1	0.35
2	1.60	CHLORIDE	41.643	13247539	59440723	1	0.00
3	1.98	NITRITE	170.223	28634289	162034126	1	-1.24
4	3.10	BROMIDE	43.164	2970329	23111437	1	2.08
5	3.47	NITRATE	651.618	50691455	604576864	1	0.00
6	5.03		0.000	25999	227232	1	
7	5.67	PHOSPHATE	733.468	24960702	354202183	1	-0.58
8	7.63	SULFATE	96.031	4877042	91215855	1	0.00
		Totals	1840.908	188513103	1541384935		



3-1743

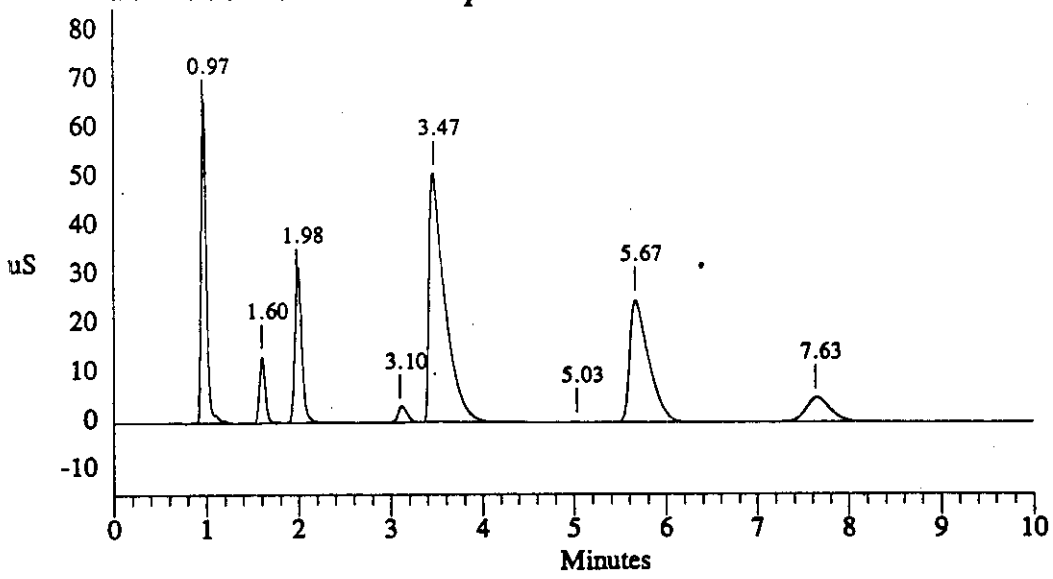
Sample Name: MS95-7941-C1/SEG1 - A19 Date: 09/18/1995 20:16:22
Data File : C:\DX\DATA\9509182\95091821.D38
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 38 Vial:A19 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	111.720	63702014	263451278	1	0.35
2	1.60	CHLORIDE	42.568	13299599	60883615	1	0.00
3	1.98	NITRITE	174.175	28701229	165898791	1	-1.24
4	3.10	BROMIDE	43.164	2970329	23111437	1	2.08
5	3.47	NITRATE	649.947	50641832	602552889	1	0.00
6	5.03		0.000	25999	227232	1	
7	5.67	PHOSPHATE	736.103	24974121	356022181	1	-0.58
8	7.63	SULFATE	98.180	4902611	93379735	1	0.00
		Totals	1855.859	189217732	1565527157		

File: 95091821.D38 Sample: MS95-7941-C1/SEG1 - A19



WHC-SD-WM-DP-145, REV. 1

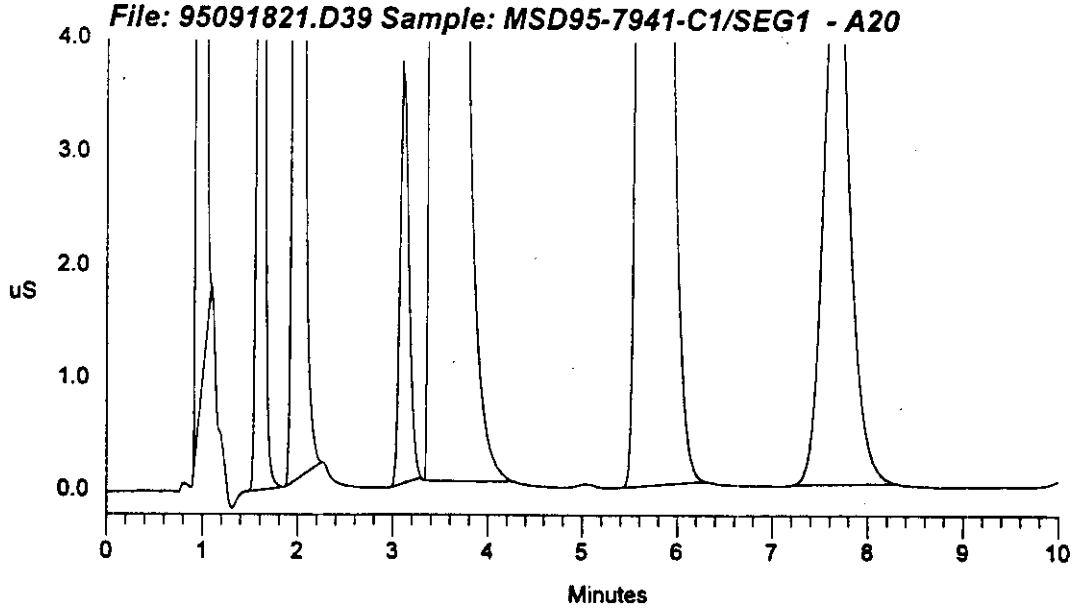
Data Reprocessed On 09/20/1995 23:36:51

Sample Name: MSD95-7941-C1/SEG1 - A20		Date: 09/18/1995 20:32:50	
Data File : C:\DX\DATA\9509182\95091821.D39			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 39 Vial:A20			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	116.204	67891540	274341163	1	0.35
2	1.60	CHLORIDE	43.181	13612768	61839512	1	0.00
3	1.98	NITRITE	187.598	31327467	179028055	1	-1.24
4	3.10	BROMIDE	44.495	3454178	23857583	1	2.08
5	3.43	NITRATE	738.333	59377614	715841733	1	0.00
6	5.63	PHOSPHATE	821.763	28175758	420204398	1	-0.21
7	7.63	SULFATE	99.593	5019375	94803930	1	0.00
		Totals	2051.167	208858700	1769916373		



3-1745

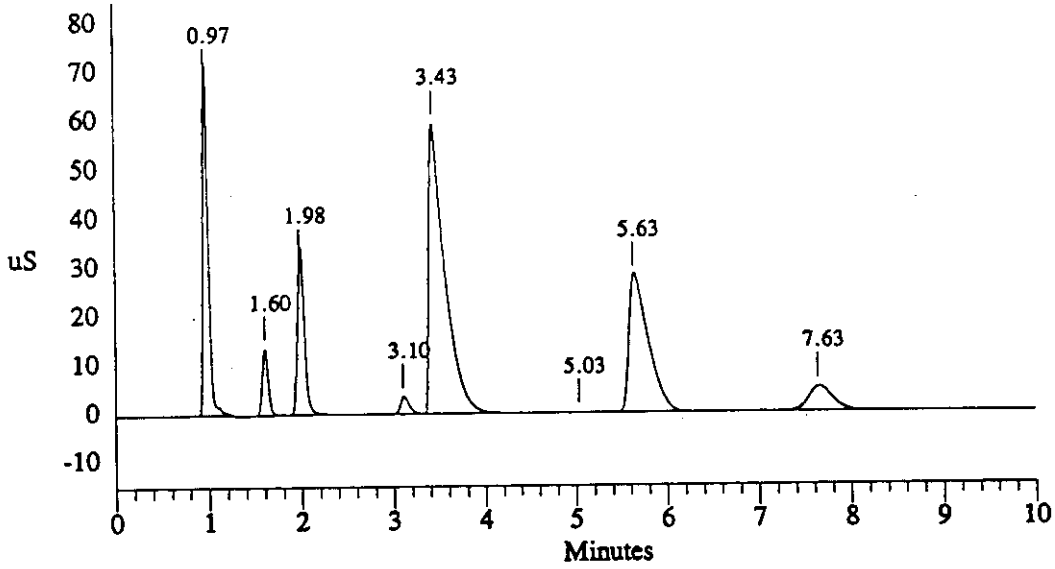
Sample Name: MSD95-7941-C1/SEG1 - A20 Date: 09/18/1995 20:32:50
Data File : C:\DX\DATA\9509182\95091821.D39
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 39 Vial:A20 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	123.617	68540785	292371242	1	0.35
2	1.60	CHLORIDE	44.258	13673511	63524725	1	0.00
3	1.98	NITRITE	191.821	31395264	183160368	1	-1.24
4	3.10	BROMIDE	44.495	3454178	23857583	1	2.08
5	3.43	NITRATE	739.158	59381078	716966192	1	0.00
6	5.03		0.000	29476	341629	1	
7	5.63	PHOSPHATE	824.308	28189752	422289502	1	-0.21
8	7.63	SULFATE	101.267	5038546	96492194	1	0.00
		Totals	2068.924	209702590	1799003435		

File: 95091821.D39 Sample: MSD95-7941-C1/SEG1 - A20



Data Reprocessed On 09/21/1995 00:05:27

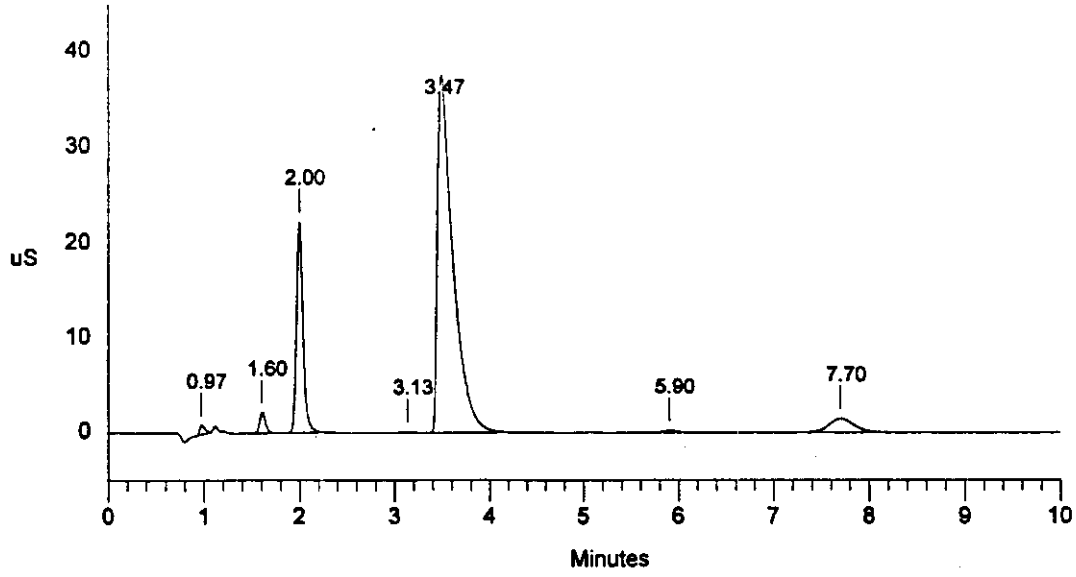
Sample Name: MS95-7932-C4/SEG2 - A21				Date: 09/18/1995 20:49:19	
Data File : C:\DX\DATA\9509182\95091821.d40					
Method : c:\dx\method\2anions2.met					
ACI Address: 1 System: 2 Inject#: 40 Vial:A21					Detector:PED-Cond.
Analyst : MMO			Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	16.462	939162	3918572	1	0.35
2	1.60	CHLORIDE	41.591	2131406	9329031	1	0.00
3	2.00	NITRITE	571.774	22242250	107488738	1	-0.41
4	3.13	BROMIDE	8.992	106198	711839	1	3.18
5	3.47	NITRATE	2448.395	31674589	424267271	1	0.00
6	5.90	PHOSPHATE	56.114	200440	2819332	1	3.51
7	7.70	SULFATE	159.135	1466557	27672212	1	0.0(
		Totals	3302.463	58760603	576206995		

File: 95091821.d40 Sample: MS95-7932-C4/SEG2 - A21



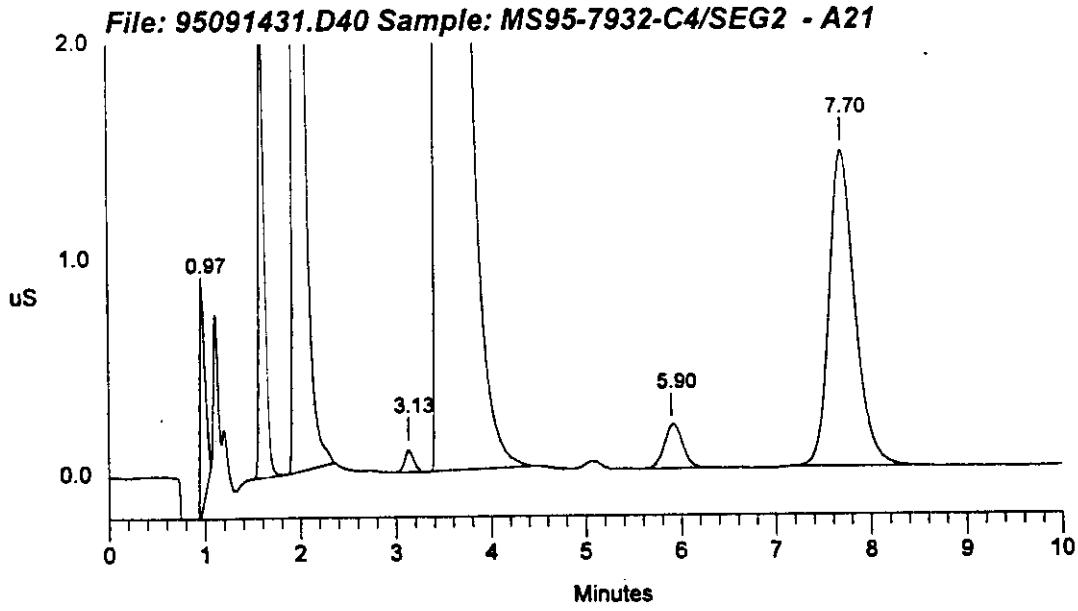
Data Reprocessed On 09/20/1995 23:43:02

Sample Name: MS95-7932-C4/SEG2 - A21		Date: 09/18/1995 20:49:19	
Data File : C:\DX\DATA\9509182\95091431.D40			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 40 Vial:A21			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	16.462	939162	3918572	1	0.35
2	1.60	CHLORIDE	41.591	2131406	9329031	1	0.00
3	2.00	NITRITE	571.774	22242250	107488738	1	-0.41
4	3.13	BROMIDE	8.992	106198	711839	1	3.18
5	3.47	NITRATE	2448.395	31674589	424267271	1	0.00
6	5.90	PHOSPHATE	56.114	200440	2819332	1	3.51
7	7.70	SULFATE	159.135	1466557	27672212	1	0.00
		Totals	3302.463	58760603	576206995		



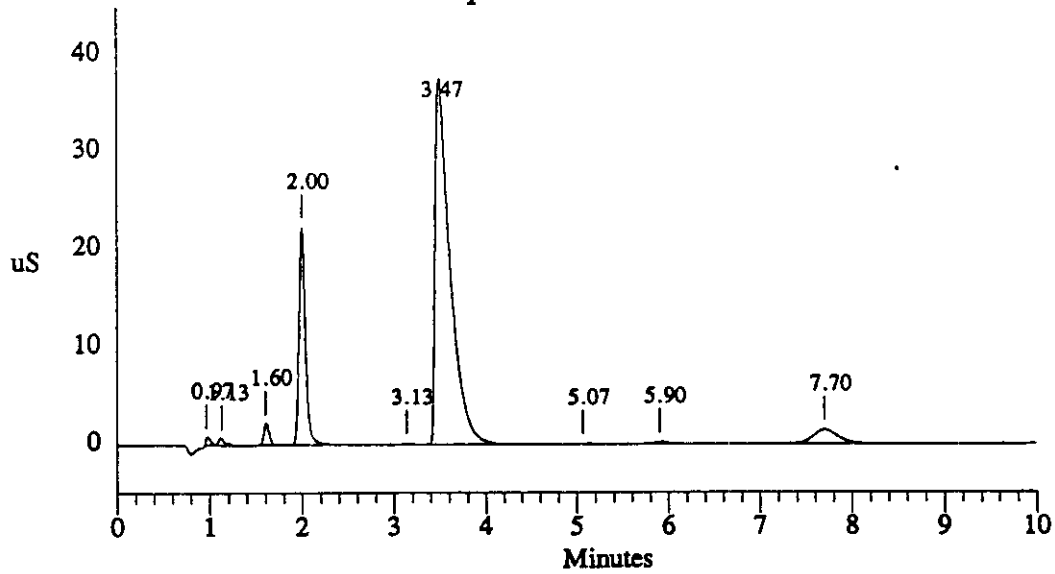
Sample Name: MS95-7932-C4/SEG2 - A21 Date: 09/18/1995 20:49:19
Data File : C:\DX\DATA\9509142\95091431.D40
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 40 Vial:A21 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	15.378	790111	3406590	2	0.35
2	1.13		0.000	653772	3827606	2	
3	1.60	CHLORIDE	43.363	2150850	9844446	1	0.00
4	2.00	NITRITE	578.479	22257090	108796218	1	-0.41
5	3.13	BROMIDE	8.992	106198	711839	1	3.18
6	3.47	NITRATE	2451.845	31676047	424977752	1	0.00
7	5.07		0.000	36391	443138	1	
8	5.90	PHOSPHATE	57.327	201311	2910601	1	3.51
9	7.70	SULFATE	159.166	1466580	27678260	1	0.00
		Totals	3314.550	59338350	582596450		

File: 95091431.D40 Sample: MS95-7932-C4/SEG2 - A21



Data Reprocessed On 09/21/1995 00:05:28

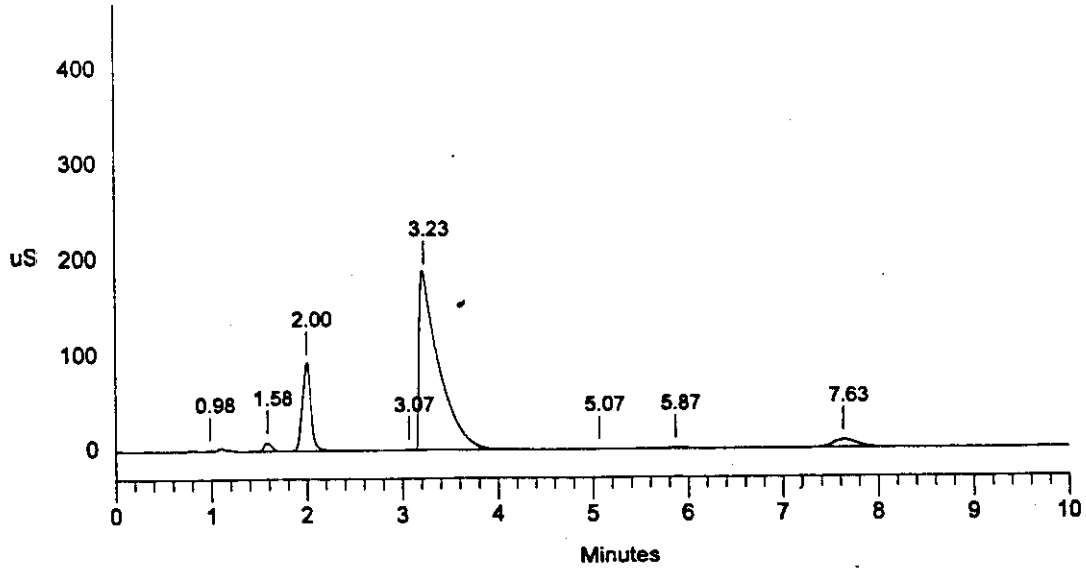
Sample Name: MS95-7932-C4/SEG2 - A22		Date: 09/18/1995 21:05:47	
Data File : C:\DX\DATA\9509182\95091821.d41			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 41 Vial:A22			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	3.937	1384727	5441440	1	3.51
2	1.58	CHLORIDE	35.653	8829738	50174800	1	0.00
3	2.00	NITRITE	600.596	91834332	587247592	1	0.64
4	3.07	BROMIDE	4.996	585606	2392088	1	2.05
5	3.23	NITRATE	621.077	185439955	2665690857	1	0.00
6	5.07		0.000	173316	2050164	1	
7	5.87	PHOSPHATE	42.940	1048453	14838175	1	6.61
8	7.63	SULFATE	156.400	8202914	152967956	1	0.00
		Totals	1465.599	297499041	3480803072		

File: 95091821.d41 Sample: MS95-7932-C4/SEG2 - A22



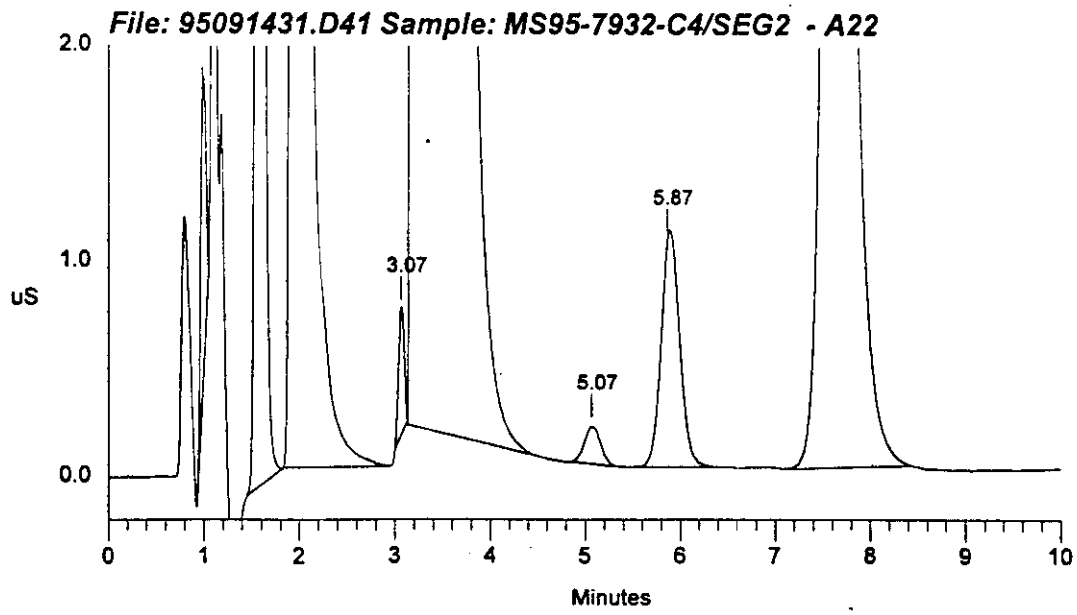
Data Reprocessed On 09/20/1995 23:48:15

Sample Name: MS95-7932-C4/SEG2 - A22		Date: 09/18/1995 21:05:47	
Data File : C:\DX\DATA\9509182\95091431.D41			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 41 Vial:A22			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	3.937	1384727	5441440	1	3.51
2	1.58	CHLORIDE	35.653	8829738	50174800	1	0.00
3	2.00	NITRITE	600.596	91834332	587247592	1	0.64
4	3.07	BROMIDE	4.996	585606	2392088	1	2.05
5	3.23	NITRATE	621.077	185439955	2665690857	1	0.00
6	5.07		0.000	173316	2050164	1	
7	5.87	PHOSPHATE	42.940	1048453	14838175	1	6.61
8	7.63	SULFATE	156.400	8202914	152967956	1	0.00
		Totals	1465.599	297499041	3480803072		



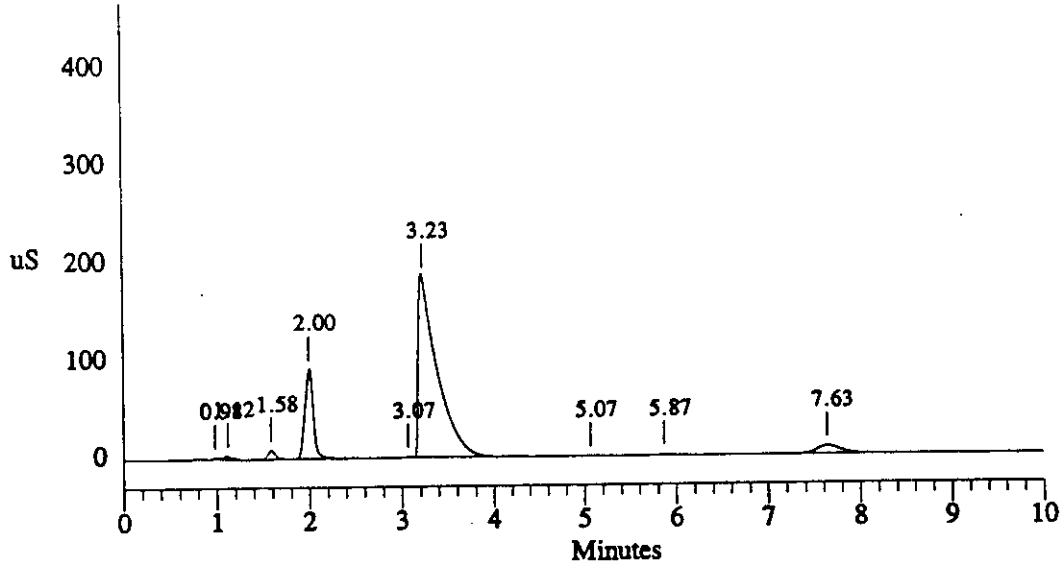
Sample Name: MS95-7932-C4/SEG2 - A22 Date: 09/18/1995 21:05:47
Data File : C:\DX\DATA\9509142\95091431.D41
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 41 Vial:A22 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.98	FLUORIDE	3.446	969336	4281302	2	3.16
2	1.12		0.000	3403566	21149731	2	
3	1.58	CHLORIDE	39.046	9033298	55408341	1	0.00
4	2.00	NITRITE	600.596	91834332	587247592	1	0.64
5	3.07	BROMIDE	2.404	346174	1029632	1	2.05
6	3.23	NITRATE	621.467	185439375	2665234346	1	0.00
7	5.07	PHOSPHATE	9.176	173316	2050164	1	-4.70
8	5.87		0.000	1050561	15031379	1	
9	7.63	SULFATE	157.288	8209888	153891428	1	0.00
		Totals	1433.423	300459846	3505323917		

File: 95091431.D41 Sample: MS95-7932-C4/SEG2 - A22



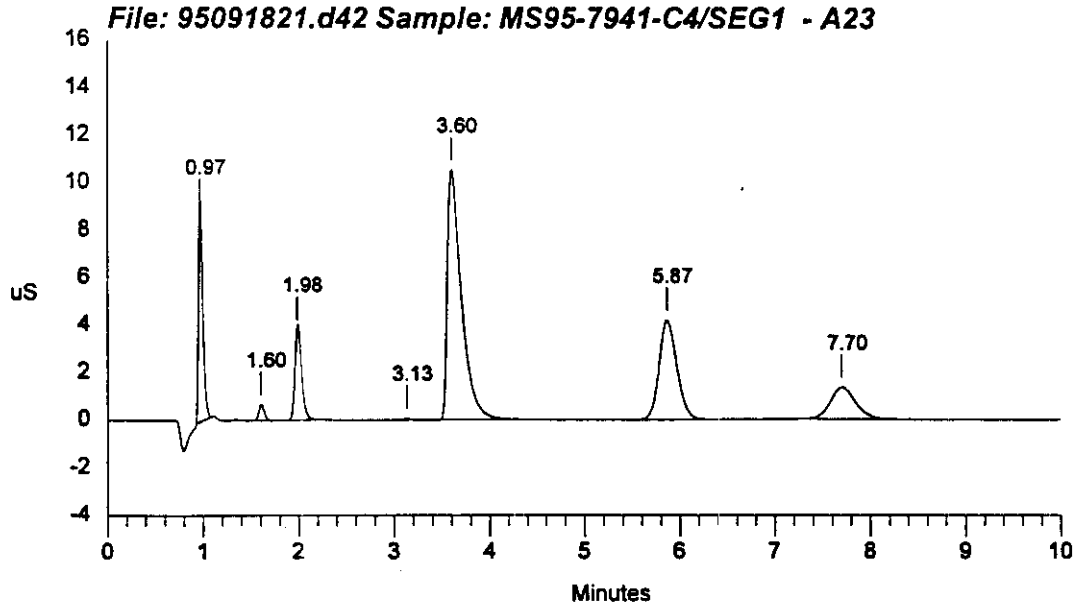
Data Reprocessed On 09/21/1995 00:05:29

Sample Name: MS95-7941-C4/SEG1 - A23		Date: 09/18/1995 21:22:15	
Data File : C:\DX\DATA\9509182\95091821.d42			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 42 Vial:A23			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	70.225	8849756	29338912	1	0.35
2	1.60	CHLORIDE	18.495	656486	2642325	1	0.00
3	1.98	NITRITE	118.709	3811232	19330379	1	-1.24
4	3.13	BROMIDE	6.256	65217	425204	1	3.18
5	3.60	NITRATE	704.586	10530131	107389552	1	0.00
6	5.87	PHOSPHATE	719.782	4185369	54449579	1	-0.89
7	7.70	SULFATE	145.415	1337834	25002120	1	0.00
		Totals	1783.467	29436025	238578070		



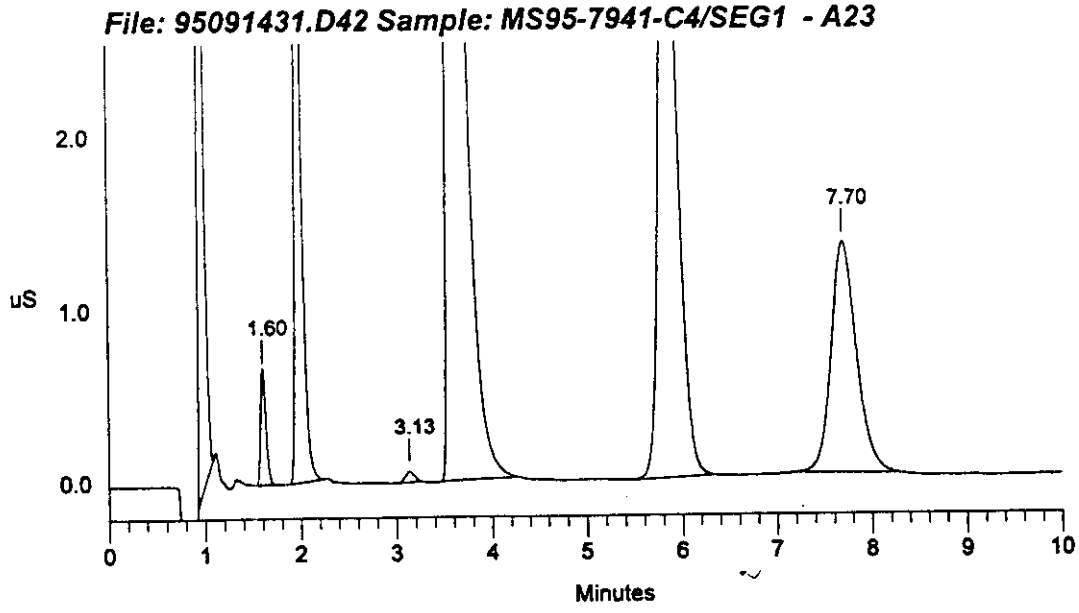
Data Reprocessed On 09/20/1995 23:53:43

Sample Name: MS95-7941-C4/SEG1 - A23		Date: 09/18/1995 21:22:15	
Data File : C:\DX\DATA\9509182\95091431.D42			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 42 Vial:A23			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	70.225	8849756	29338912	1	0.35
2	1.60	CHLORIDE	18.495	656486	2642325	1	0.00
3	1.98	NITRITE	118.709	3811232	19330379	1	-1.24
4	3.13	BROMIDE	6.256	65217	425204	1	3.18
5	3.60	NITRATE	704.586	10530131	107389552	1	0.00
6	5.87	PHOSPHATE	719.782	4185369	54449579	1	-0.89
7	7.70	SULFATE	145.415	1337834	25002120	1	0.00
		Totals	1783.467	29436025	238578070		

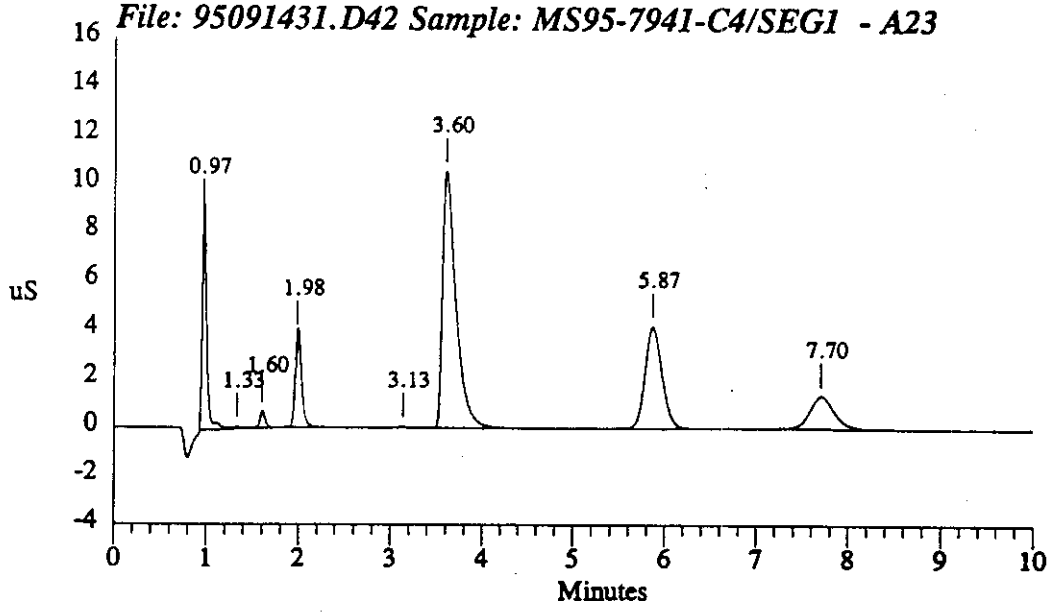


Sample Name: MS95-7941-C4/SEG1 - A23 Date: 09/18/1995 21:22:15
Data File : C:\DX\DATA\9509142\95091431.D42
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 42 Vial:A23 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	100	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	76.951	8914963	32523929	3	0.35
2	1.33		0.000	77614	826804	4	
3	1.60	CHLORIDE	19.983	691017	3071261	2	0.00
4	1.98	NITRITE	121.371	3819910	19847215	1	-1.24
5	3.13	BROMIDE	7.053	69893	508670	1	3.18
6	3.60	NITRATE	709.307	10533658	108157618	1	0.00
7	5.87	PHOSPHATE	723.966	4189718	54786834	1	-0.89
8	7.70	SULFATE	150.653	1350847	26021171	1	0.00
		Totals	1809.284	29647621	245743503		



Data Reprocessed On 09/21/1995 00:05:29

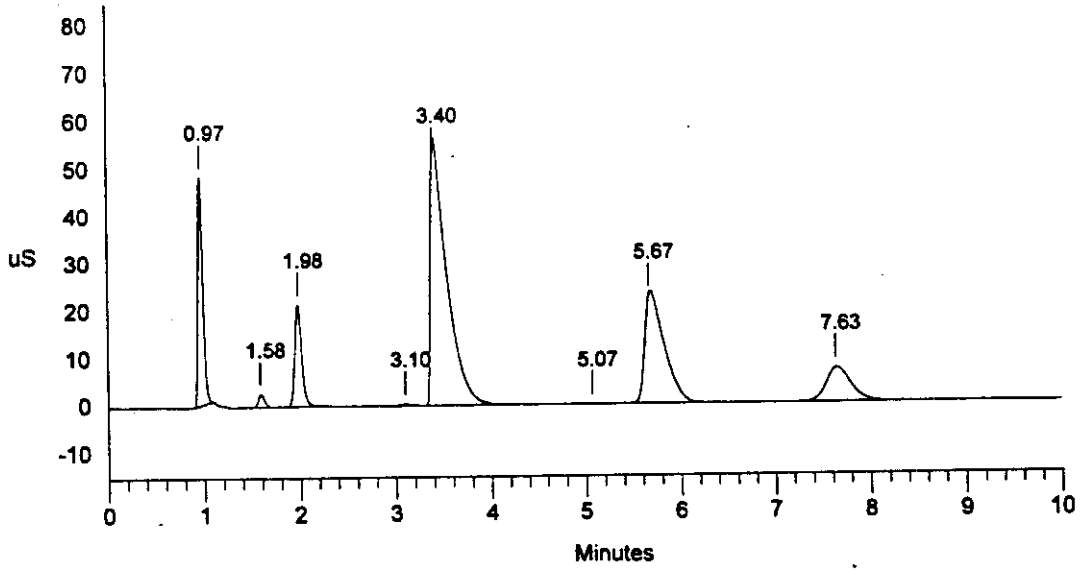
Sample Name: MS95-7941-C4/SEG1 - A24		Date: 09/18/1995 21:38:43	
Data File : C:\DX\DATA\9509182\95091821.d43			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 43 Vial:A24			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	74.310	48217320	173091458	1	1.41
2	1.58	CHLORIDE	10.462	2593728	12451725	1	0.00
3	1.98	NITRITE	114.886	21455263	108006330	1	-0.20
4	3.10	BROMIDE	4.999	361403	2393807	1	3.16
5	3.40	NITRATE	700.687	51847942	665937499	1	0.00
6	5.07		0.000	23451	262818	1	
7	5.67	PHOSPHATE	707.143	22718806	336436498	1	1.36
8	7.63	SULFATE	139.510	7197263	135484268	1	0.00
		Totals	1751.996	154415176	1434064403		

File: 95091821.d43 Sample: MS95-7941-C4/SEG1 - A24



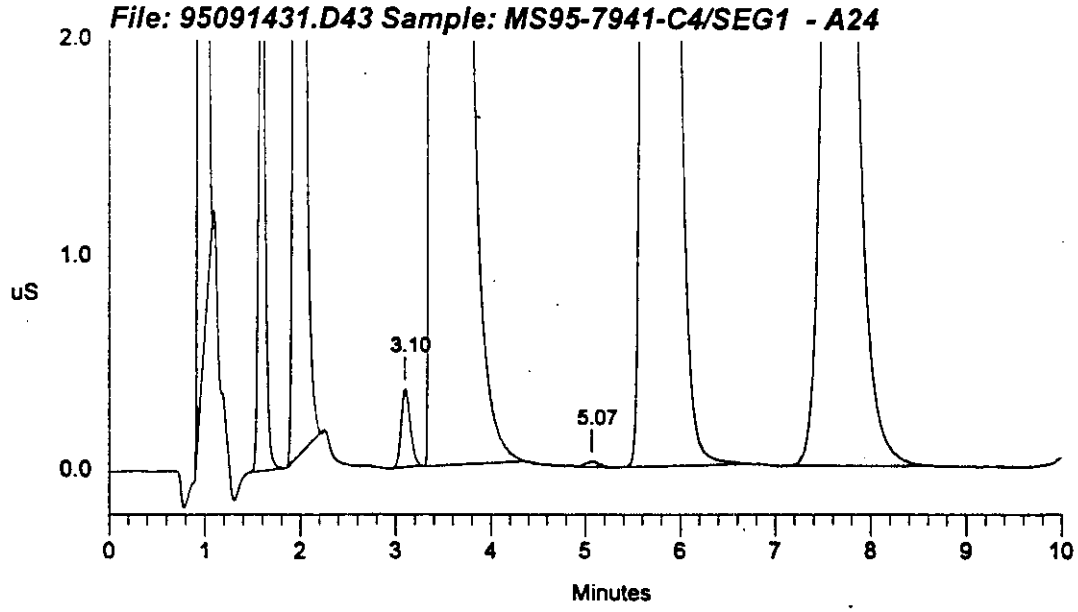
Data Reprocessed On 09/20/1995 23:56:23

Sample Name: MS95-7941-C4/SEG1 - A24		Date: 09/18/1995 21:38:43	
Data File : C:\DX\DATA\9509182\95091431.D43			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 43 Vial:A24			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	74.310	48217320	173091458	1	1.41
2	1.58	CHLORIDE	10.462	2593728	12451725	1	0.00
3	1.98	NITRITE	114.886	21455263	108006330	1	-0.20
4	3.10	BROMIDE	4.999	361403	2393807	1	3.16
5	3.40	NITRATE	700.687	51847942	665937499	1	0.00
6	5.07		0.000	23451	262818	1	
7	5.67	PHOSPHATE	707.143	22718806	336436498	1	1.36
8	7.63	SULFATE	139.510	7197263	135484268	1	0.00
		Totals	1751.996	154415176	1434064403		



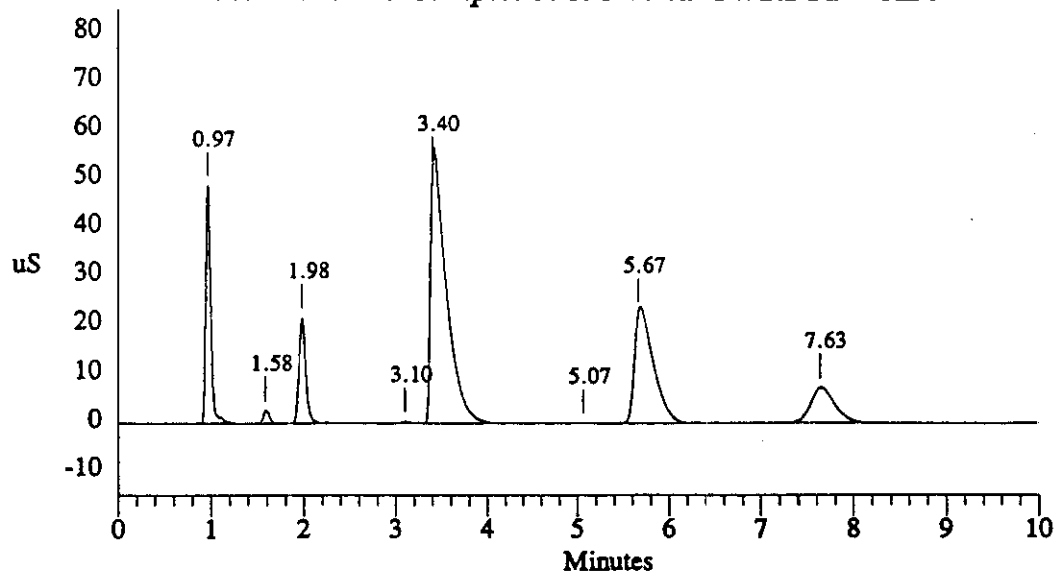
Sample Name: MS95-7941-C4/SEG1 - A24 Date: 09/18/1995 21:38:43
Data File : C:\DX\DATA\9509142\95091431.D43
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 43 Vial:A24 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	20	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	80.127	48723665	187084026	1	1.41
2	1.58	CHLORIDE	11.418	2648761	13850207	1	0.00
3	1.98	NITRITE	118.364	21515451	111398304	1	-0.20
4	3.10	BROMIDE	5.007	361610	2397912	1	3.16
5	3.40	NITRATE	701.547	51850320	667048201	1	0.00
6	5.07		0.000	21128	217158	1	
7	5.67	PHOSPHATE	707.908	22720630	336943066	1	1.36
8	7.63	SULFATE	139.727	7198465	135707489	1	0.00
		Totals	1764.099	155040030	1454646364		

File: 95091431.D43 Sample: MS95-7941-C4/SEG1 - A24



Data Reprocessed On 09/21/1995 00:05:30

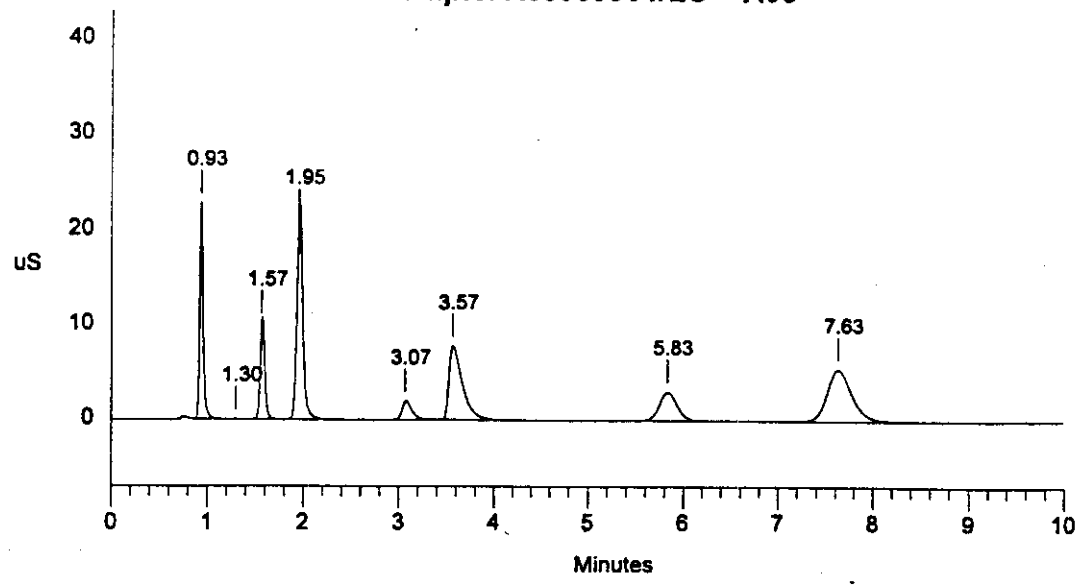
Sample Name: A950609V1/LO - A05		Date: 09/18/1995 21:51:20	
Data File : C:\DX\DATA\9509182\95091821.d44			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 44 Vial:A05			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.103	22722122	57927384	1	-1.05
2	1.30		0.000	45182	244183	1	
3	1.57	CHLORIDE	25.872	10207255	35297166	1	0.00
4	1.95	NITRITE	105.416	20814886	98775390	1	-0.83
5	3.07	BROMIDE	27.523	1907484	14466172	1	3.13
6	3.57	NITRATE	102.883	7758874	76769887	1	0.00
7	5.83	PHOSPHATE	106.669	3011746	39580172	1	-0.53
8	7.63	SULFATE	105.715	5473064	100985665	1	0.00
		Totals	500.181	71940614	424046020		

File: 95091821.d44 Sample: A950609V1/LO - A05



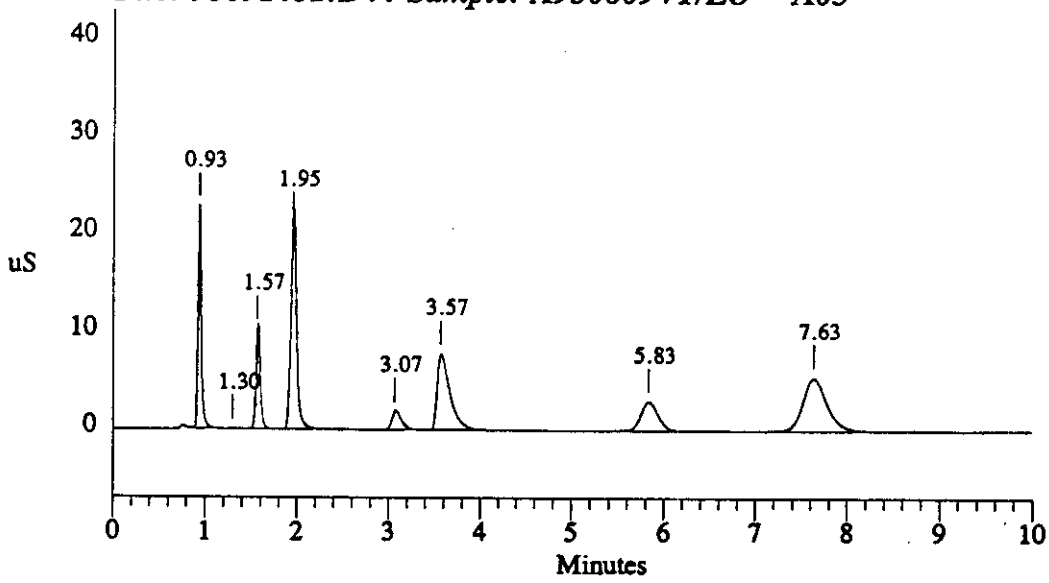
Sample Name: A950609V1/LO - A05 Date: 09/18/1995 21:51:20
Data File : C:\DX\DATA\9509142\95091431.D44
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 44 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	5	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.93	FLUORIDE	26.103	22722122	57927384	1	-1.05
2	1.30		0.000	45182	244183	1	
3	1.57	CHLORIDE	25.872	10207255	35297166	1	0.00
4	1.95	NITRITE	105.416	20814886	98775390	1	-0.83
5	3.07	BROMIDE	27.523	1907484	14466172	1	3.13
6	3.57	NITRATE	102.883	7758874	76769887	1	0.00
7	5.83	PHOSPHATE	106.669	3011746	39580172	1	-0.53
8	7.63	SULFATE	105.715	5473064	100985665	1	0.00
		Totals	500.181	71940614	424046020		

File: 95091431.D44 Sample: A950609V1/LO - A05



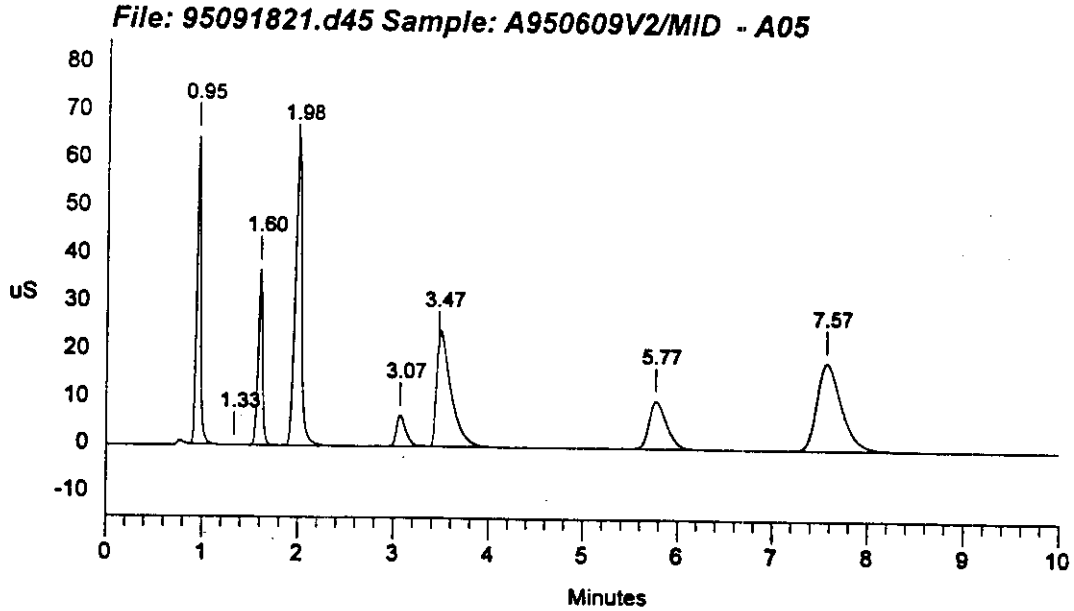
Data Reprocessed On 09/21/1995 00:05:31

Sample Name: A950609V2/MID - A05		Date: 09/18/1995 22:04:22	
Data File : C:\DX\DATA\9509182\95091821.d45			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 45 Vial:A05			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.779	64574564	187591242	1	-1.38
2	1.33		0.000	123814	696040	1	
3	1.60	CHLORIDE	26.643	37070486	121806131	1	0.00
4	1.98	NITRITE	107.891	60536380	312612323	1	-1.24
5	3.07	BROMIDE	27.295	6665367	45564488	1	0.99
6	3.47	NITRATE	105.289	21691420	257083366	1	0.00
7	5.77	PHOSPHATE	108.921	10247410	132298306	1	1.17
8	7.57	SULFATE	108.193	18595536	337119921	1	0.00
		Totals	511.010	219504977	1394771817		



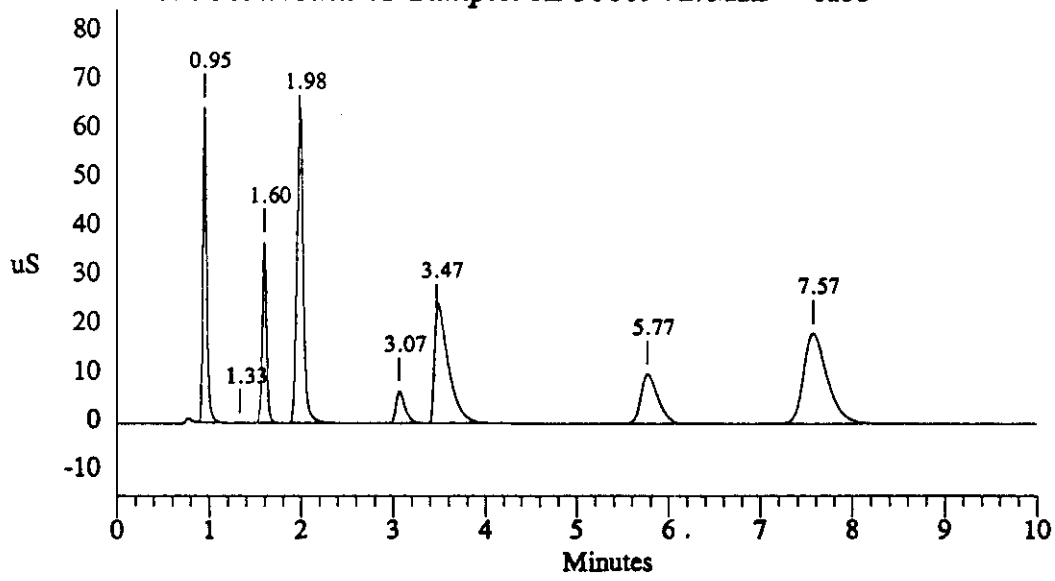
Sample Name: A950609V2/MID - A05 Date: 09/18/1995 22:04:22
Data File : C:\DX\DATA\9509142\95091431.D45
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 45 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	15	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.95	FLUORIDE	26.779	64574564	187591242	1	-1.38
2	1.33		0.000	123814	696040	1	
3	1.60	CHLORIDE	26.643	37070486	121806131	1	0.00
4	1.98	NITRITE	107.891	60536380	312612323	1	-1.24
5	3.07	BROMIDE	27.295	6665367	45564488	1	0.99
6	3.47	NITRATE	105.289	21691420	257083366	1	0.00
7	5.77	PHOSPHATE	108.921	10247410	132298306	1	1.17
8	7.57	SULFATE	108.193	18595536	337119921	1	0.00
		Totals	511.010	219504977	1394771817		

File: 95091431.D45 Sample: A950609V2/MID - A05



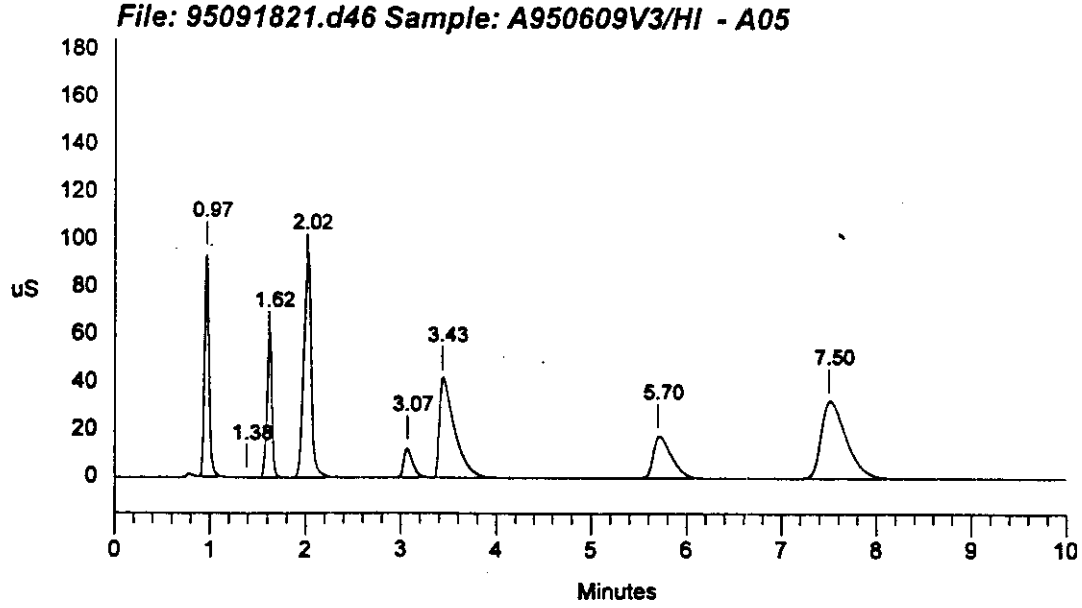
Data Reprocessed On 09/21/1995 00:05:32

Sample Name: A950609V3/HI - A05				Date: 09/18/1995 22:17:46	
Data File : C:\DX\DATA\9509182\95091821.d46					
Method : c:\dx\method\2anions2.met					
ACI Address: 1 System: 2	Inject#: 46	Vial:A05		Detector:PED-Cond.	
Analyst : MMO	Column: AG4A/AS4A				

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.846	93702120	318248592	1	-0.68
2	1.38		0.000	180693	931996	1	
3	1.62	CHLORIDE	26.775	56031429	221679096	1	0.00
4	2.02	NITRITE	107.560	88966402	524640308	1	-0.61
5	3.07	BROMIDE	27.358	12312719	80582645	1	-0.06
6	3.43	NITRATE	105.498	41453554	463842153	1	0.00
7	5.70	PHOSPHATE	109.031	17536987	239918433	1	0.97
8	7.50	SULFATE	108.399	32564839	611166166	1	0.00
		Totals	511.469	342748742	2461009390		



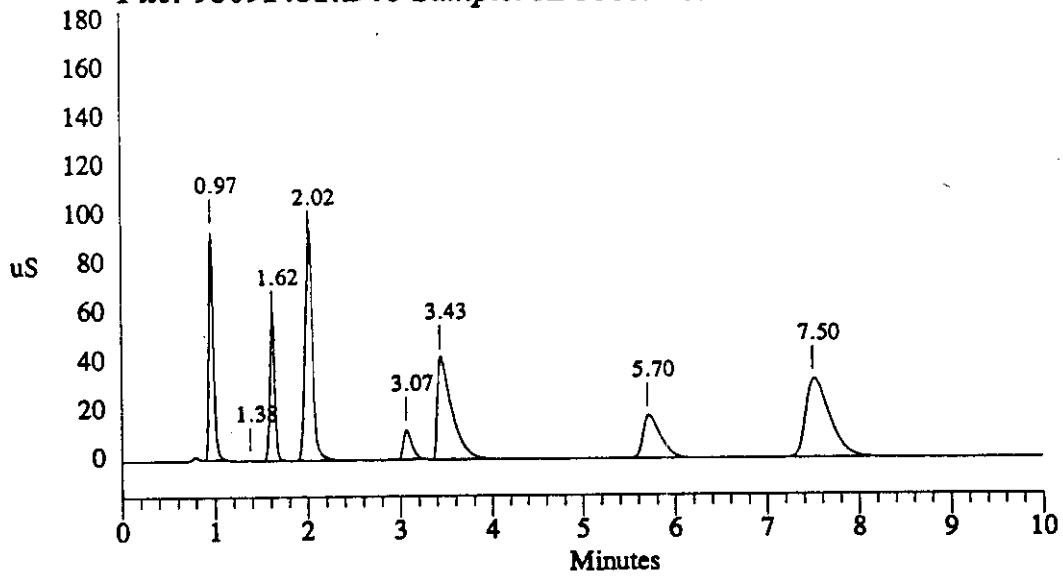
Sample Name: A950609V3/HI - A05 Date: 09/18/1995 22:17:46
Data File : C:\DX\DATA\9509142\95091431.D46
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 46 Vial:A05 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	25	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	0.97	FLUORIDE	26.846	93702120	318248592	1	-0.68
2	1.38		0.000	180693	931996	1	
3	1.62	CHLORIDE	26.775	56031429	221679096	1	0.00
4	2.02	NITRITE	107.560	88966402	524640308	1	-0.61
5	3.07	BROMIDE	27.358	12312719	80582645	1	-0.06
6	3.43	NITRATE	105.498	41453554	463842153	1	0.00
7	5.70	PHOSPHATE	109.031	17536987	239918433	1	0.97
8	7.50	SULFATE	108.399	32564839	611166166	1	0.00
		Totals	511.469	342748742	2461009390		

File: 95091431.D46 Sample: A950609V3/HI - A05



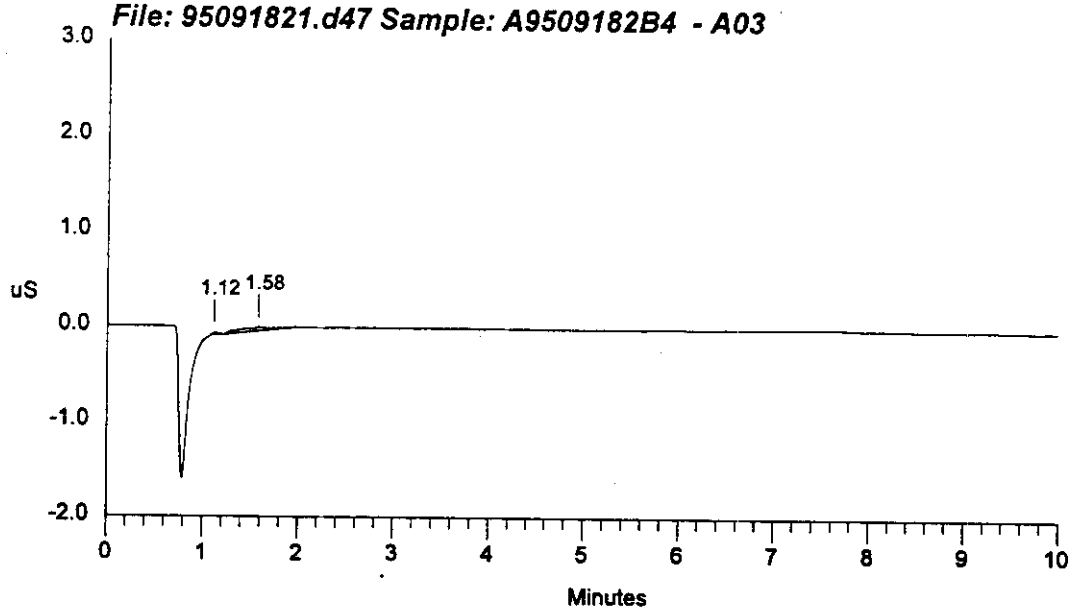
Data Reprocessed On 09/21/1995 00:05:33

Sample Name: A9509182B4 - A03		Date: 09/18/1995 22:34:15	
Data File : C:\DX\DATA\9509182\95091821.d47			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 47 Vial:A03			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	20386	94193	1	
2	1.58	CHLORIDE	0.125	38001	930138	1	0.00
		Totals	0.125	58387	1024331		



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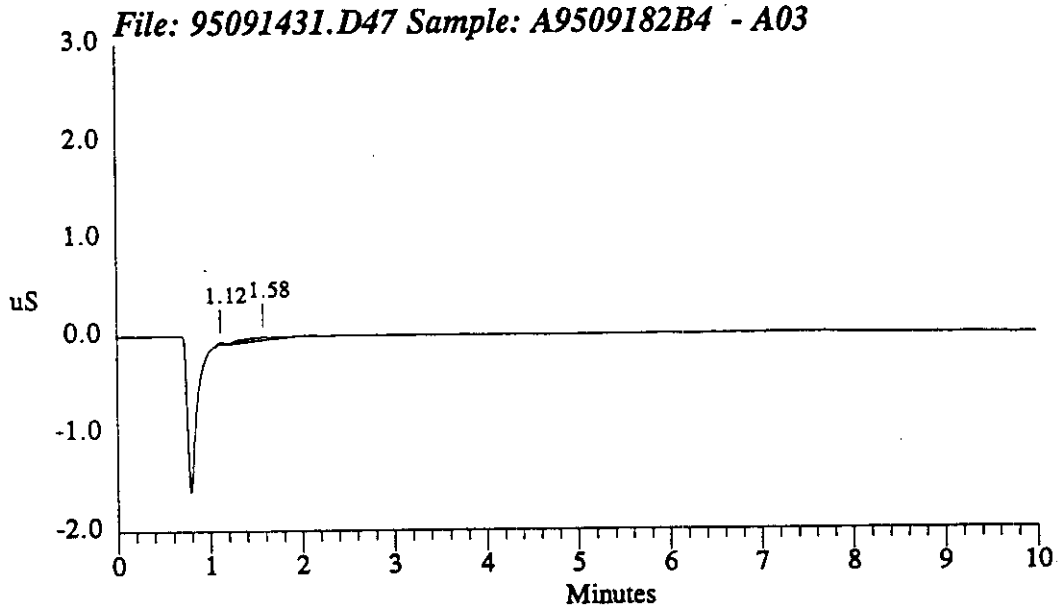
Sample Name: A9509182B4   - A03              Date: 09/18/1995 22:34:15
Data File  : C:\DX\DATA\9509142\95091431.D47
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 47  Vial:A03        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	20386	94193	1	
2	1.58	CHLORIDE	0.125	38001	930138	1	0.00
		Totals	0.125	58387	1024331		



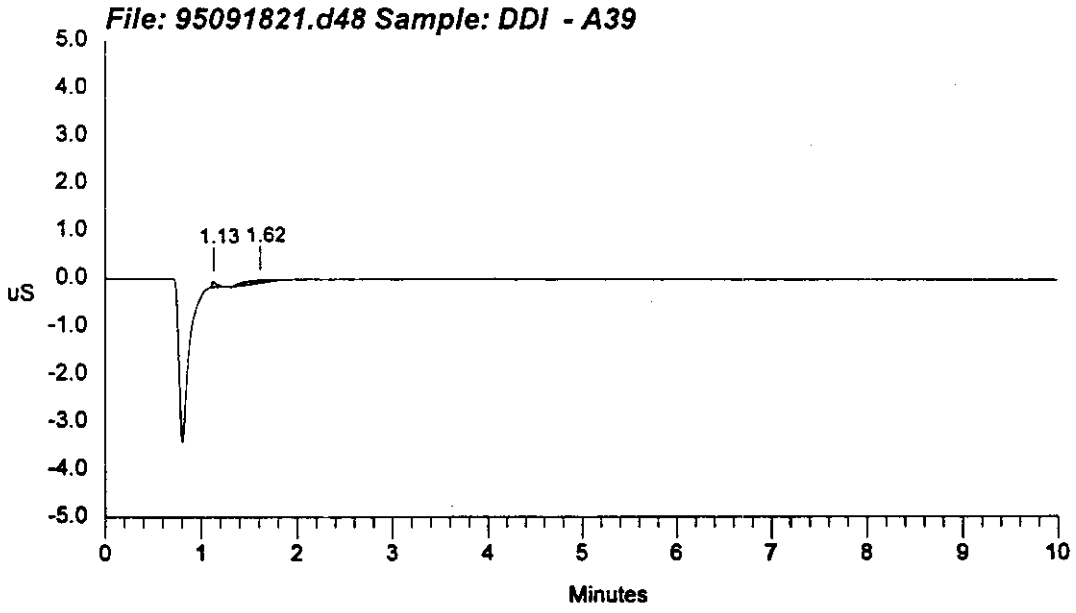
Data Reprocessed On 09/21/1995 00:05:34

Sample Name: DDI - A39		Date: 09/18/1995 22:50:42	
Data File : C:\DX\DATA\9509182\95091821.d48			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 48 Vial:A39			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	132002	522166	1	
2	1.62	CHLORIDE	0.138	64035	1293187	1	0.00
		Totals	0.138	196037	1815353		



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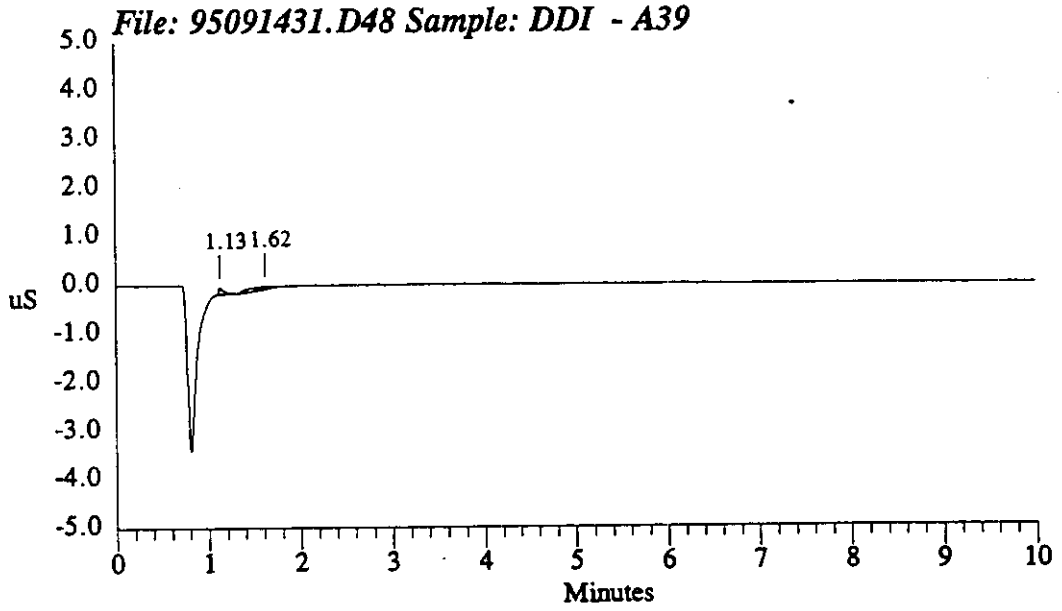
Sample Name: DDI  - A39                          Date: 09/18/1995 22:50:42
Data File  : C:\DX\DATA\9509142\95091431.D48
Method     : c:\dx\method\2anions2.met
ACI Address: 1  System: 2  Inject#: 48  Vial:A39        Detector:PED-Cond.
Analyst    : MMO            Column: AG4A/AS4A
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.13		0.000	132002	522166	1	
2	1.62	CHLORIDE	0.138	64035	1293187	1	0.00
		Totals	0.138	196037	1815353		



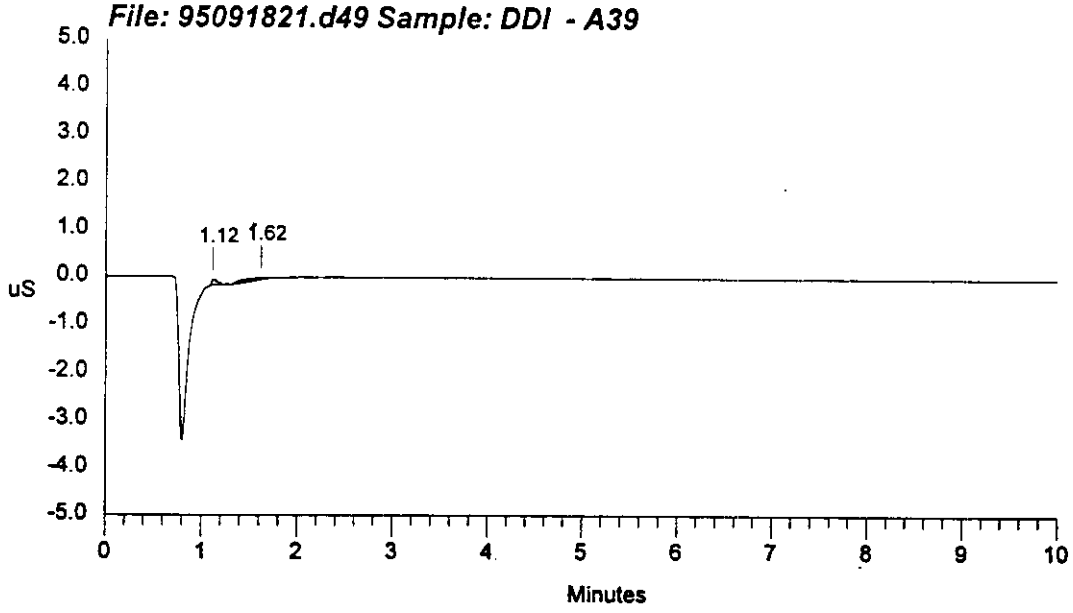
Data Reprocessed On 09/21/1995 00:05:35

Sample Name: DDI - A39		Date: 09/18/1995 23:07:08	
Data File : C:\DX\DATA\9509182\95091821.d49			
Method : c:\dx\method\2anions2.met			
ACI Address: 1 System: 2 Inject#: 49 Vial:A39			Detector:PED-Cond.
Analyst : MMO	Column: AG4A/AS4A		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	107861	578640	1	
2	1.62	CHLORIDE	0.130	52367	1047058	1	0.00
		Totals	0.130	160228	1625699		

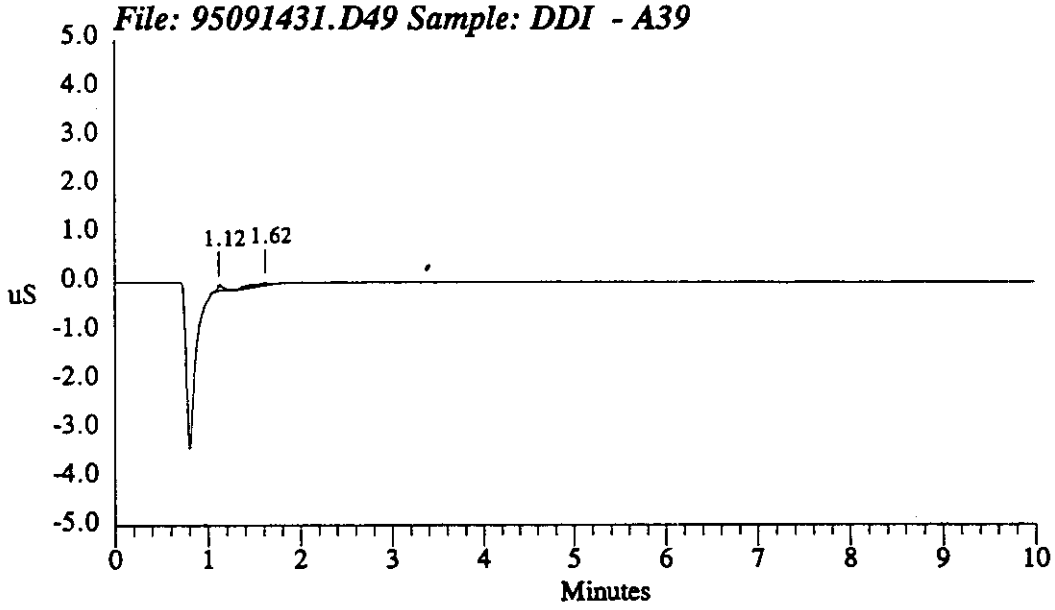


Sample Name: DDI - A39 Date: 09/18/1995 23:07:08
Data File : C:\DX\DATA\9509142\95091431.D49
Method : c:\dx\method\2anions2.met
ACI Address: 1 System: 2 Inject#: 49 Vial:A39 Detector:PED-Cond.
Analyst : MMO Column: AG4A/AS4A

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	100	1	3000	5Hz	0.00	10.00	30000

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ppm	Height	Area	Bl. Code	%Delta
1	1.12		0.000	107861	578640	1	
2	1.62	CHLORIDE	0.130	52367	1047058	1	0.00
		Totals	0.130	160228	1625699		



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WHC-SD-WM-DP-145, REV. 1

C4 - TOTAL CYANIDE ANALYSIS

3-1771

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DATE TO QC: 09/29/95

WHC-SD-WM-DP-145, REV. 1

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Total Cyanide

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07941-G1	95-07941-G2	95-07941-G3
95-07941-G4	95-07941-G5	95-07942-G1
95-07942-G2	95-07943-G1	95-07943-G2
95-07944-G1	95-07944-G2	95-07945-G1
95-07945-G2	95-07946-G1	95-07946-G2
95-07947-G1	95-07947-G2	95-07948-G1
95-07948-G2	95-07932-G1	95-07932-G2
95-07932-G3	95-07932-G4	95-07932-G5
95-07935-G1	95-07935-G2	

PNL ACL Quality Representative

9/29/95
Date

3-1772

Battelle
Pacific Northwest Laboratories

Project Number 21372

Internal Distribution

File/LB

Date September 28, 1995

To Kurt Silvers

From M. O'Neill

Subject BY 108 Samples: 95-07941 to 95-07948, and 95-07932 to 95-07935

The BY 108 tank samples were micro distilled by the SAL according to procedure PNL-ALO-285. Samples 95-07932 to 95-07935 were micro distilled on 9/12/95, and samples 95-07941 to 95-07948 were micro distilled on 9/13/95. The samples were stored at 4°C ± 2°C until analysis on 9/26/95 in lab 419 of building 325 according to procedure PNL-ALO-289. The Lachat QuikChem AE, equipped with an autosampler (M&TE # WC36517) was used to analyze the samples using method CN01. The samples were aliquoted and delivered to lab 419 by the SAL.

An ICV/CCV was micro distilled on 9/25/95 in lab 419. Recoveries for the ICV/CCV's were within acceptable limits of 100% ± 15%. The blank spike and matrix spike recoveries were also within acceptable limits for MCS-033, but not 100% ± 10% for the TCP. Relavtive percent difference are within acceptable limits with the exception of 95-7947 and 95-7948. After micro distillation of samples 95-7947-G1 and 95-7948-G2, it was noted that only a few drops of distillate was recovered, and values for these samples cannot be reported with confidence.

Sample ID	Flag	Cyanide Concentration (ug/g)	Cyanide Concentration ~~(ug/l)~~ ug/mL 9/28/95	Percent Recovery	RPD
95-7941-G1		<264*			
95-7941-G2		94.6			
95-7941-G3	B	0.64			
95-7941-G4				79%	
95-7941-G5				89%	
95-7942-G1		116			
95-7942-G2		120			3%
95-7943-G1		149			
95-7943-G2		135			10%
95-7944-G1		195			
95-7944-G2		191			2%
95-7945-G1		742			
95-7945-G2		760			2%
95-7946-G1		1660			

ES4-1900-001 (10/89)

Sample ID	Flag	Cyanide Concentration (ug/g)	Cyanide Concentration Percent ~~(ug/l)~~ ug/ml MWH 9/29/95	Recovery	RPD
95-7946-G2		1650			1%
95-7947-G1		27.5			
95-7947-G2		1660			
95-7948-G1		1150			
95-7948-G2		2.76			
95-7932-G1			715		
95-7932-G2			712		<1%
95-7932-G3	B		0.25		
95-7932-G4				88%	
95-7932-G5				88%	
95-7935-G1			521		
95-7935-G2			532		2%

*Sample 95-7941-G1 was titrated using 0.0192 N $AgNO_3$. After addition of 0.025 ml, one drop of 0.0192 N $AgNO_3$, the sample was titrated beyond the endpoint. The cyanide in the sample is reported as a less than value.

All sample and QC results can be found in system file: CN-325-419 Run Log #398.

M. O'Neill

MM O'Neill

Concur MW Thu 9/29/95

Total Cyanide Analysis Report
Micro distillation PNL-ALO-287
Micro distillation PNL-ALO-285
Total CN Analysis PNL-ALO-289
Project: 21372

ICV/CCV Micro Distilled: 9/25/95 in 419
Sample Micro Distilled: 9/13/95 in SAL
Date Analyzed: 09/26/95
M&TE: WC36517, Lachat QuikChem AE Autoanalyzer
WD04501, Mettler AT400 Balance in 419

Battelle PNL ACL System File CN-325-419 Page 1

Analyst/Date: M.O'Neill 9-28-95
Author/Date: M. O'Neill 9-28-95
Reviewer/Date: M.O'Neill 9-28-95

	Lab ID	Client ID	Sample Mass (g)	% Solids	Sample Volume (ml)	Spike Volume (ml) (1)	Final Dist Volume (ml)	Stnd Prep Dilution Factor	Analysis Dil. Factor	ABS	Cyanide in Aliquot (ug/L)	C Flag	Cyanide in Sample (ug/L)	Cyanide in Sample	Units	MMO 9-28-95 (ug/L) Theoretical Value	Dup &/or Rep RPD	%Rec
	Sample Tray: 95092604.RS			CalibrationRef.: 95092601														
	ICV ICV-6 1191 #1				0.1		10	100	1	0.0566	80.667		80.67			90		90%
(3)	CCB							1	1	0.0001	-0.606	U	1.40					
	95-7941-G3 1X	PB	0.1060	100			10	94	1	0.0052	6.7299	B	6.73	0.64	mg/kg			
	95-7941-G5 2000	SB				1.0	10	10	2000	0.0938	134.18		268355.67	2680	ug/ml	300000		89%
(2)	95-7941-G2 10X	Dup	0.099	100			8	81.93	10	0.0808	115.48		1154.78	94.6	mg/kg			
(5)	95-7941-G4 2000	MS	0.098	100		1.0	10	102.46	2000	0.083	118.64		237284.84	24300	mg/kg	300000		79%
(2)	95-7942-G1 10X	Sample	0.101	100			8	77.01	10	0.1048	150		1500.01	116	mg/kg			
(2)	95-7942-G2 10X	Dup	0.101	100			6	62.11	10	0.1352	193.73		1937.30	120	mg/kg		3%	
	95-7943-G1 10X	Sample	0.108	100			10	92.76	10	0.1124	160.93		1609.33	149	mg/kg			
	95-7943-G2 10X	Dup	0.108	100			10	92.42	10	0.1023	146.4		1464.05	135	mg/kg		10%	
	95-7944-G1 10X	Sample	0.108	100			10	92.94	10	0.1467	210.27		2102.73	195	mg/kg			
	95-7944-G2 10X	Dup	0.107	100			10	93.46	10	0.1423	203.94		2039.43	191	mg/kg		2%	
	CCV ICV-6 1191 #2				0.1		10	100	1	0.0569	81.099		81.10			90		90%
(3)	CCB							1	1	-0.0002	-1.038	U	1.40					
	95-7945-G1 100X	Sample	0.119	100			10	84.03	100	0.0619	88.291		8829.08	742	mg/kg			
	95-7945-G2 100X	Dup	0.12	100			10	83.13	100	0.0641	91.455		9145.54	760	mg/kg		2%	
	95-7946-G1 100X	Sample	0.109	100			10	91.91	100	0.1261	180.64		18064.02	1660	mg/kg			
	95-7946-G2 100X	Dup	0.111	100			10	90.50	100	0.1276	182.8		18279.79	1650	mg/kg		1%	
	95-7948-G1 100X	Sample	0.101	100			10	99.21	100	0.081	115.77		11576.55	1150	mg/kg			
(4)	95-7935-G1 50X	Sample			0.086		10	116.28	50	0.0628	89.585		4479.27	521	ug/ml			
(4)	95-7935-G2 50X	Dup			0.087		10	115.61	50	0.0645	92.031		4601.54	532	ug/ml		2%	
(4)	95-7932-G1 50X	Sample			0.078		10	129.03	50	0.0776	110.87		5543.74	715	ug/ml			
(4)	95-7932 G2 50X	Dup			0.069		10	145.56	50	0.0685	97.785		4889.23	712	ug/ml		8%	
	95-7932-G3 1X	PB			0.0797		10	125.51	1	0.0019	1.983	B	1.98	0.25	ug/ml		0.4% MMO 9-28-95	
	95-7932-G5 2000	SB				1.0	10	10.00	2000	0.0928	132.74		265478.74	2650	ug/ml	300000		88%
	CCV ICV-6 #3				0.1		10	100	1	0.0585	83.4		83.40			90		93%
(3)	CCB				3 MMO 9-28-95				1	0.0001	-0.606	U	1.40					

(1) Spike concentration reported on page 2 of spreadsheet.
(2) Weight for these samples was converted to volume using a density of 1.008g/ml for the 0.25N NaOH soln. See Argentometric Titration for Total Cyanide in solids.
(3) Sample not included in distillation batch.
(4) A density of 1.43 g/ml was used to calculate ug/ml for samples 95-7932 and 95-7935.
(5) For sample 95-7941 the duplicate was used in the matrix spike recovery calculation because the sample was titrated.
* Values used in calculations are not rounded.
All dilutions prepared with 0.25 N NaOH diluant.
See Weight Calculation Sheet for values in Sample Mass and Sample Volume Columns.

2-1775

WHC-SD-WM-DP-145, REV. 1

Total Cyanide Analysis Report

Micro distillation PNL-ALO-287
Micro distillation PNL-ALO-285
Total CN Analysis PNL-ALO-289
Project: 21372

ICV/CCV Micro Distilled: 9/25/95 in 419
Sample Micro Distilled: 9/13/95 in SAL
Date Analyzed: 09/26/95
M&TE: WC36517, Lachat QuikChem AE Autoanalyzer
WD04501, Mettler AT400 Balance in 419

Analyst/Date: M. O'Neill 9-28-95
Author/Date: M. O'Neill 9-28-95
Reviewer/Date: Mwilson 9-28-95
MHO 9.28.95

Lab ID	Client ID	Sample Mass (g)	% Solids	Sample Volume (ml)	Spike Volume (ml) (1)	Final Dist Volume (ml)	Stnd Prep Dilution Factor	Analysis Dil. Factor	ABS	Cyanide in Aliquot (ug/L)	C Flag	Cyanide in Sample (ug/L)	Cyanide in Sample	Units	(ug/L) Theoretic Value	Dup &/or Rep RPD	%Rec
Sample Tray: 95092606.RS				**CalibrationRef.: 95092601**													
CCV ICV-6				0.1		10	100.00	1	0.0568	80.891		80.89			90		90%
CCB							1.00	1	0.0002	-0.552	U	1.40					
95-7932-G4 2000	MS			0.0846	1.0	10	118.20	2000	0.0924	132.12		264234.81	31200	ug/ml	3.0E+5		88%
(2) 95-7947 G1 2X	Sample	0.1001	100			10	99.90	2	0.0963	137.73		275.46	27.5	mg/kg			
95-7947-G2 100X	Dup	0.1000	100			10	100.00	100	0.1158	165.79		16578.85	1660	mg/kg		193%	
(2) 95-7948-G2 2X	Dup	0.101	100			10	99.30	2	0.0092	12.398		24.80	2.46	mg/kg			
(2) 95-7948-G2 1X	Dup	0.101	100			10	98.72	1	0.0200	27.939		27.94	2.76	mg/kg			
CCV ICV-6				0.1		10	100.00	1	0.0562	80.028		80.03			90		89%
CCB							1.00	1	0.0003	-0.408	U	1.40					
Unreportable Analysis Information:								**Sample Tray: 95092601.RS**					**CalibrationRef.: 95092601**				
95-7945-G1 100X	Sample	0.119	100			10	84.03	100	0.0621	88.518		8851.77	744	mg/kg			
95-7945-G2 100X	Dup	0.12	100			10	83.13	100	0.0642	91.539		9153.95	761	mg/kg			
95-7946-G1 100X	Sample	0.109	100			10	91.91	100	0.1257	180.03		18003.39	1650	mg/kg			
95-7946-G2 100X	Dup	0.111	100			10	90.50	100	0.1273	182.34		18233.62	1650	mg/kg			
95-7948-G1 100X	Sample	0.101	100			10	99.21	100	0.0814	116.29		11628.91	1150	mg/kg			
95-7948-G2 100X	Dup	0.101	100			10	99.30	100	0.0007	0.1672	U	1.40	0.14	mg/kg			
95-7935-G1 50X	Sample			0.0860		10	116.28	50	0.0631	89.957		4497.83	523	ug/ml			
95-7935-G2 50X	Dup			0.0865		10	115.61	50	0.0649	92.547		4627.34	535	ug/ml			
95-7932-G1 50X	Sample			0.0775		10	129.03	50	0.0779	111.25		5562.64	718	ug/ml			
95-7932 G2 50X	Dup			0.0687		10	145.56	50	0.0696	99.31		4965.49	723	ug/ml			
95-7932-G4 2000	MS			0.0846		10	118.20	2000	0.0976	139.6		279199.72	33000	ug/ml	3.0E+5		93%
95-7932-G5 2000	SB				1.0	10	10.00	2000	0.0951	136		272005.06	2720	ug/ml	3.0E+5		91%
95-7947-G1 2X	Sample	0.1001	100			10	99.90	2	0.0956	136.72		273.44	27.3	mg/kg			
(1) 95-7947-G2 100X	Dup	0.1000	100			10	100.00	100	1.0422	1498.8		149881.67	15000	mg/kg			
(1) 95-7947-G2 2X	Dup	0.1000	100			10	100.00	2	2.9536	4249.2		8498.39	850	mg/kg			
Sample Tray: 95092602.RS				**CalibrationRef.: 95092601**													
95-7948-G2 2X	Dup	0.101	100			10	99.30	2	0.0095	12.83		25.66	2.55	mg/kg			
95-7947-G2 1000	Dup	0.1000	100			10	100.00	1000	0.012	16.427		16427.13	1600	mg/kg			
Sample Tray: 95092605.RS				**CalibrationRef.: 95092601**													
95-7947 G1 2X	Sample	0.1001	100			10	99.90	2	0.0937	133.99		267.98	26.8	mg/kg			
95-7947-G2 100X	Dup	0.1000	100			10	100.00	100	0.1142	163.49		16348.62	1630	mg/kg			
95-7948-G2 2X	Dup	0.101	100			10	99.30	2	0.0097	13.118		26.24	2.61	mg/kg			

(1) High values for these samples were not reproducible, and are probably due to dilution error.
(2) 95-7947G1 and 95-7948G2 had poor recoveries (Only a few drops of distillate was left in the tube), see SAL prep sheets.
See Weight Calculation Sheet for calculation of values in Sample Mass and Sample Volume columns.

3-1176

WHC-SD-WM-DP-[illegible], REV. 1

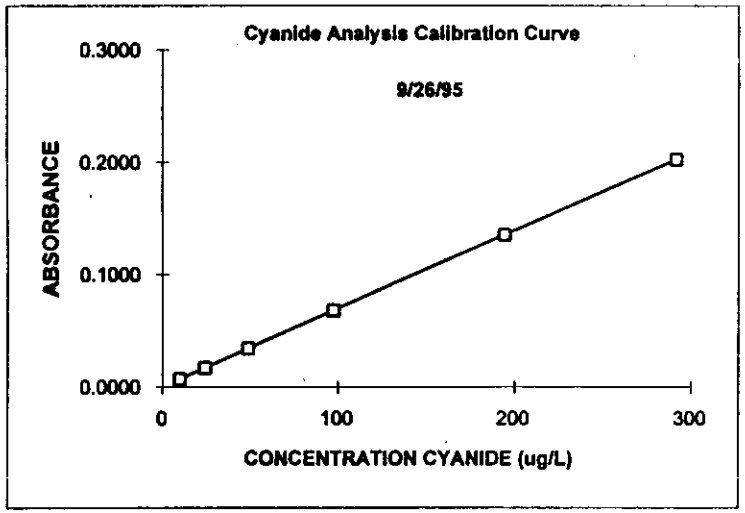
Total Cyanide Analysis Report

Regression Output

Slope (m):	0.000695
Constant (b):	0.000584
R squared:	0.999983
Std Err of Y Est:	0.00029
No. of Observations:	6
Degreesof Freedom:	4

Calibration Data

Volume Intermediat	ABS	Calibration Stds	Calculated Cal Stds
0	-0.0001	0	-1.0
0.1	0.0073	10	10
0.25	0.0173	24	24
0.5	0.0345	49	49
1	0.0679	97	97
2	0.1360	194	195
3	0.2028	291	291



Definitions

95-XXXX = Sample
95-XXXXD = Duplicate
95-XXXXMS = Matirx Spike
95-XXXXMSD = Matrix Spike Duplicate
SB = Spiked Preparation Blank
ICV/CCV = Initial/Continuing Calibration Verification Stnd
ICB/CCB = Initial/Continuing Calibration Blank
CRDL = Contact Required Detection Limit
LCSS = Laboratory Control Standard Soil
CKS = Check Standard
PB = Preparation Blank

*** Cyanide Stock Standard Titration Results**

Date Titrated	9/14/95
Concentration AgNO3 (N)	0.0192
Avg. Vol. KCN Stock titrated(ml)	5.0
Avg. Vol. 0.0192 N AgNO3 used to titrate KCN (ml)	4.86
Avg. Vol. 0.0192 N AgNO3 used to titrate blank (ml)	0.0
Calculated Stock KCN Conc. (mg/L)	971
Intermediate KCN standard Conc.(mg/L)	9.71

* Three titrations performed to determine Stock KCN Concentration

QA/QC Solutions/Concentrations

Stock ICV-6 (1191) (ug/L)	9000	
Working ICV-6 Standard (ug/L)	9000	
ICV/CCV level (ug/L)	90	(0.10 ml wrkng/10 ml after udist)
Working Spike Standard (mg/L)	3000	
Spike level (ug/L)	300	(1 ml wrkng/10 ml after udist)

Micro Distillation Quantification/Detection Limits

IDL liquid (ug/L)	(1)	1.40	
Reportable IDL liquids (ug/L)	(2)	14.0	(1ml sample/10ml)
Reportable IDL solids (mg/kg)		0.140	(0.1 g sample/ 10 ml)
Reportable MDL liquids (ug/L)	(3)	70.0	
Reportable MDL solids (mg/kg)	(3)	0.70	

(1) Detection limit performed 9/9/94 using micro distillation preparation.
(2) The reportable IDL is calculated by multiplying the IDL by the preparation dilution factor.
(3)The reportable MDL is calculated by multiplying the reportable IDL by 5.

* Origional data kept in lab 419, copy included in this report

3-1777

WHC-SD-WM-DP-[illegible], REV. 1

Weight Calculation Sheet

Calc. of Sample Weight Micro Distilled by SAL

ACCORDING TO PNL ALO-285

McNeill 9-27-95

	wt of sample	wt Elixir	Sum	wt Del. Distilled	Sum	wt of sample	wt Distilled (g)
95-7941-G1	.5084	+ 5.1368	= 5.6452	(1.0513g	/5.6452g)	x .5084g	⇒ 0.0947
G2				(1.0950g	/5.6452g)	x .5084g	⇒ 0.0986
G3				(—			
G4				(1.0839g	/5.6452g)	x .5084g	⇒ 0.0976
G5				(—			
95-7942 G1	.5265	+ 5.1424	= 5.6689	(1.0903g	/5.6689)	x .5265g	⇒ 0.1013
G2				(1.0879g	/5.6689)	x .5265g	⇒ 0.1010
95-7943 G1	.5707	+ 5.1575	= 5.7282	(1.0824g	/5.7282g)	x .5707g	⇒ 0.1078
G2				(1.0859g	/5.7282g)	x .5707g	⇒ 0.1082
95-7944 G1	0.5626	+ 5.1379	= 5.7005	(1.0902g	/5.~~1379~~ 7005 g)	x .5626g	⇒ ~~0.1194~~ 0.1076 MMO 9-27-95
G2				(1.0841g	/5.~~1379~~ 7005 g)	x .5626g	⇒ ~~0.1187~~ 0.1070 MMO 9-27-95
95-7945 G1	0.6436	+ 5.1665	= 5.8101	(1.0741g	/5.~~1665~~ 8101 g)	x .6436g	⇒ ~~0.1338~~ 0.1190 MMO 9-27-95
95-7945 G2				(1.0857g	/5.~~1665~~ 8101 g)	x .6436g	⇒ ~~0.1352~~ 0.1203 MMO 9-27-95
95-7946 G1	0.5894	+ 5.1498	= 5.7392	(1.0599g	/5.~~1498~~ 7392 g)	x .5894g	⇒ ~~0.1213~~ 0.1088 MMO 9-27-95
95-7946 G2				(1.0758g	/5.~~1498~~ 7392 g)	x .5894g	⇒ ~~0.1231~~ 0.1105 MMO 9-27-95
95-7947 G1	0.5315	+ 5.1608	= 5.6923	(1.0723g	/5.~~1608~~ 6923 g)	x .5315g	⇒ ~~0.1104~~ 0.1001 MMO 9-27-95
95-7947 G2				(1.0711g	/5.~~1608~~ 6923 g)	x .5315g	⇒ ~~0.1103~~ 0.1000 MMO 9-27-95
95-7948 G1	0.5279	+ 5.1531	= 5.6810	(1.0852g	/~~5.1531~~ 5.6810 g)	x .5279g	⇒ ~~0.1112~~ 0.1008 MMO 9-27-95
95-7948 G2				(1.0834g	/~~5.1531~~ 5.6810 g)	x .5279g	⇒ ~~0.1110~~ 0.1007 MMO 9-27-95

Vol. Distilled (ml)

Density.

95-7932-G1	0.7041	+ 5.1103	= 5.8144	(0.9146g	/5.8144g)	x .7041g	⇒ 0.1108g x ~~1.43~~ 1.43 ml / 1.43g ⇒ 0.0775
95-7932-G2				(0.8117g	/5.8144g)	x .7041g	⇒ 0.0982 ⇒ 0.0687
95-7932-G4				(~~0.8117~~ 0.9988g	/5.8144g)	x .7041g	⇒ 0.1210 ⇒ 0.0846
95-7935-G1	0.6944	+ 5.1219	= 5.8163	(1.0298g	/~~5.1219~~ 5.8163 g)	x .6944g	⇒ ~~0.1396~~ 0.1229 MMO 9-27-95 ⇒ ~~0.0976~~ 0.0860
95-7935-G2				(1.0366g	/~~5.1219~~ 5.8163 g)	x .6944g	⇒ ~~0.1405~~ 0.1238 MMO 9-27-95 ⇒ ~~0.0983~~ 0.0865 MMO 9-27-95

ARGENTOMETRIC TITRATION FOR TOTAL CYANIDE IN SOLIDS

	ALQ sample #	Client I.D. #	Sample wt distilled (g)	Sample volume titrated (ml) [1]	AgNO3 volume (ml) [2]	CN in sample (g/kg) [3]	PPT
			$AgNO_3$ M MMO 10-2-95		Initial	Final $AgNO_3$ vol.	
1		Blank					
2		1000					
3		3000					
4	95-7941-G1	Smpl	0.0192	Entire sample	0.02	0.045	x
5	95-7942-G2	Dup	0.0192(10^{-2})	* 1.0	0.04 MMO 10-2-95	2.1 over shot	E.P. x
6	95-7942-G1		0.00384	~~0.045~~ 0.5 MMO 10-2-95	~~0.305~~ 0.045	0.305	x
7	95-7942-G1		0.00192	2.0	0.02	0.20	x
8	95-7942-G1		0.000384	1 ml 0.92	0.02	0.94, 0.98	
9	"		"	2 ml 1.48	0.98	2.46	
10	95-7941-~~G1~~(G2) MMO 9-27-95		0.000384	2 ml 1.12	2.46	3.53, 3.58	overshot E.P.
11	95-7941-~~G1~~(G2)		"	2 ml 0.52	3.58	4.1	
12	95-7942-G2 MMO 9-27-95			2 ml 0.60	4.1	4.64, 4.70	
13	95-7942-G2			1 ml 0.56	4.70	5.22, 5.26	
14						wt. left after titr.	
15		95-7941-G1	Entire sample titrated		0 left		
16		95-7941-G2	4 ml titrated		~4	4.1426 g	
17		95-7942-G1	5.5 ml titrated		~2.5	2.3631 g	
18		95-7942-G2	4 ml titrated		~4	2.3231 g	
19							
20		Remaining 7941	thru 7948 brought to 10 ml w/ 0.25N NaOH				
21		7932	thru 7935 also brought to 10 ml w/ 0.25N NaOH				
22		NOTE: 95-7941-G3, G4 and G5 were brought to 10 ml.					
23		MMO 9-28-95					
24		SEE ATTACHED FOR VOL. CALC. OF 95-7941 G1, G2 and 95-7941 G1, G2					

WORKSHEET NOTES:

[1] Sample volume titrated using AgNO3 is normally 100 ml of the 250 ml of distillate.

[2] AgNO3 concentration is normally 0.0192 N. 1.0 ml of AgNO3 (0.0192N) = 1.0 mg of CN titrated.

[3] CN concentration = [AgNO3 consumed(ml)- blank(ml) • 250 ml/100ml]/ sample wt (g)

ANALYST NOTES:

95-7941-G1:

vol(ml) used to titrate sample: (0.045 - 0.02) ml = 0.025 ml 1.0192N $AgNO_3$ ∴ 0.025 mg CN / 0.1108 g sample $\left(\frac{10^3 g}{Kg}\right)$ = ~~225.63~~ 263.99 MMO 9-28-95 Kg

MMO 9-28-95 0.0947

45 - 48 ↑ in CN, ↑ in Fe

Run BS + PB after ICV-6 (1st ICV)

39,000 immediate notification.

Procedure: PNL-ALO-270

Analyst / date M. Neill 9-27-95

VOL DELIVERED TO 419 BY SAL

sample	Vol. titrated	wt left after titration	Vol-assuming 1.0089/ml Density	Total Vol from SAL.
95-7941-G1	Entire sample titrated. Overshot endpoint after addition of 1 drop of 0.0192N $AgNO_3$. Value on preceding page will be reported as a less than value.			
95-7941-G2	4.0ml	4.1426g	4.11ml	8.11ml => 8 ml
95-7942-G1	5.5ml	2.3631g	2.34ml	7.84ml => 8 ml
95-7942-G2	4.0ml	2.3231g	2.30ml	6.30ml => 6ml

Above density calc. was placed in spreadsheet. A rounded value appears in Spreadsheet and is indicated next to total vol. from SAL. M. O'Neill 5-28-95.

```
==========================================================================

QuikChem AE Runtime Report for Tray 95092601.RS
Method: pyridine-barbituric

    This tray was started on 09/26/95 at 11:12 am.
    This report was prepared on 09/26/95 at 11:13 am.

    Operator: mmo                                  Tray Template: 95092601
    Calibration now in effect is Ref: 95092601, 09/26/95, 11:08 am

BY108 samples micro distilled by SAL     ICV-6 micro distilled 9/25/95 in lab 41
Dilution check.

==========================================================================

-- Page  1 of report for tray 95092601.RS ---------------------------------

Cup 101, Sample: 95-7945-G1 100X
 Ch. 2: #2                        ;    91.349 ppb         PIF=1.00 Abs= 0.0621

Cup 102, Sample: 95-7945-G2 100X
 Ch. 2: #2                        ;    94.421 ppb         PIF=0.98 Abs= 0.0642

Cup 103, Sample: 95-7946-G1 100X
 Ch. 2: #2                        ;   185.322 ppb         PIF=0.99 Abs= 0.1257

Cup 104, Sample: 95-7946-G2 100X
 Ch. 2: #2                        ;   167.824 ppb         PIF=0.99 Abs= 0.1273

Cup 105, Sample: 95-7948-G1 100X
 Ch. 2: #2                        ;   119.863 ppb         PIF=1.00 Abs= 0.0814

Cup 106, Sample: 95-7948-G2 100X
 Ch. 2: #2                        ;     0.405 ppb         PIF=0.89 Abs= 0.0007
 ** Above conc. is significantly less than the lowest non-zero std's conc.
 ** If sample was diluted, concentration after dilution is shown.


Cup 107, Sample: 95-7935-G1 50X
 Ch. 2: #2                        ;    92.781 ppb         PIF=1.00 Abs= 0.0631

Cup 108, Sample: 95-7935-G2 50X
 Ch. 2: #2                        ;    95.413 ppb         PIF=1.00 Abs= 0.0649

Cup 109, Sample: 95-7932-G1 50X
 Ch. 2: #2                        ;   114.618 ppb         PIF=1.00 Abs= 0.0779

Cup 110, Sample: 95-7932 G2 50X
 Ch. 2: #2                        ;   102.391 ppb         PIF=0.99 Abs= 0.0696
```

-- Report for tray 95092601.RS continued on next page . . .

-- Page 2 of report for tray 95092601.RS ----------

Cup 111, Sample: 95-7932-G4 2000X
Ch. 2: #2 ; 143.813 ppb PIF=1.00 Abs= 0.0976

Cup 112, Sample: 95-7932-G5 2000X
Ch. 2: #2 ; 140.185 ppb PIF=1.00 Abs= 0.0951

Cup 113, Sample: 95-7947-G1 2X
Ch. 2: #2 ; 140.855 ppb PIF=1.00 Abs= 0.0956

Cup 114, Sample: 95-7947-G2 100X
Ch. 2: #2 ; 1541.298 ppb PIF=0.98 Abs= 1.0422
** Above conc. is significantly greater than the high std's concentration.

Cup 115, Sample: 95-7947-G2 2X
Ch. 2: #2 ; 4368.891 ppb PIF=0.82 Abs= 2.9536
** Above conc. is significantly greater than the high std's concentration.

--------- End of Report for Tray 95092601.RS ----------

==========

QuikChem AE Runtime Report for Tray 95092602.RS
Method: pyridine-barbituric

This tray was started on 09/26/95 at 11:45 am.
This report was prepared on 09/26/95 at 11:45 am.

Operator: mmo Tray Template: 95092603
Calibration now in effect is Ref: 95092601, 09/26/95, 11:08 am

BY108 samples micro distilled by SAL ICV-6 micro distilled 9/25/95 in lab 41
Dilution check of 95-7948-G2 and 95-7947-G1 1000x

==========

-- Page 1 of report for tray 95092602.RS ----------

Cup 101, Sample: 95-7948-G2 2x
Ch. 2: #2 ; 13.564 ppb PIF=1.00 Abs= 0.0095

Cup 102, Sample: 95-7947-G2 1000x
Ch. 2: #2 ; 17.192 ppb PIF=0.97 Abs= 0.0120

--------- End of Report for Tray 95092602.RS ----------

..

==========

QuikChem AE Runtime Report for Tray 95092603.RS
Method: pyridine-barbituric

This tray was started on 09/26/95 at 11:54 am.
This report was prepared on 09/26/95 at 11:54 am.

Operator: mmo Tray Template: 95092604
Calibration now in effect is Ref: 95092601, 09/26/95, 11:08 am

BY108 samples micro distilled by SAL ICV-6 micro distilled 9/25/95 in lab 41
Dilution check of 95-7947G2 100X 9used tto make th 1000X.

==========

-- Page 1 of report for tray 95092603.RS ----------

Cup 101, Sample: 95-7947-G2 100X
Ch. 2: #2 ; 176.296 ppb PIF=1.00 Abs= 0.1195

--------- End of Report for Tray 95092603.RS ----------

==========

QuikChem AE Runtime Report for Tray 95092604.RS
Method: pyridine-barbituric

This tray was started on 09/26/95 at 12:34 pm.
This report was prepared on 09/26/95 at 12:35 pm.

Operator: mmo Tray Template: 95092602
Calibration now in effect is Ref: 95092601, 09/26/95, 11:08 am

BY108 samples micro distilled by SAL ICV-6 micro distilled 9/25/95 in lab 419

==========

-- Page 1 of report for tray 95092604.RS ----------

Cup 101, Sample: ICV ICV-6 1191 #1
Ch. 2: #2 ; 83.243 ppb PIF=1.00 Abs= 0.0566

Cup 102, Sample: ICB
Ch. 2: #2 ; -0.361 ppb PIF=0.00 Abs= 0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 103, Sample: 95-7941-G3 1X
Ch. 2: #2 ; 7.162 ppb PIF=0.96 Abs= 0.0052
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 104, Sample: 95-7941-G5 2000X
Ch. 2: #2 ; 138.254 ppb PIF=0.99 Abs= 0.0938

Cup 105, Sample: 95-7941-G2 10X
Ch. 2: #2 ; 118.914 ppb PIF=0.99 Abs= 0.0808

Cup 106, Sample: 95-7941-G4 2000X
Ch. 2: #2 ; 122.192 ppb PIF=0.99 Abs= 0.0830

Cup 107, Sample: 95-7942-G1 10X
Ch. 2: #2 ; 154.547 ppb PIF=0.99 Abs= 0.1048

Cup 108, Sample: 95-7942-G2 10X
Ch. 2: #2 ; 199.513 ppb PIF=0.99 Abs= 0.1352

Cup 109, Sample: 95-7943-G1 10X
Ch. 2: #2 ; 165.776 ppb PIF=0.99 Abs= 0.1124

-- Report for tray 95092604.RS continued on next page . . .

```
Cup 110, Sample: 95-7943-G2 10X
 Ch. 2: #2                          ;   150.793 ppb          PIF=0.99 Abs= 0.1023

Cup 111, Sample: 95-7944-G1 10X
 Ch. 2: #2                          ;   216.441 ppb          PIF=0.99 Abs= 0.1467

Cup 112, Sample: 95-7944-G2 10X
 Ch. 2: #2                          ;   209.895 ppb          PIF=0.99 Abs= 0.1423

Cup 113, Sample: CCV ICV-6 1191 #2
 Ch. 2: #2                          ;    83.664 ppb          PIF=1.00 Abs= 0.0569

Cup 114, Sample: CCB
 Ch. 2: #2                          ;    -0.811 ppb          PIF=0.88 Abs=-0.0002
 ** Above conc. is significantly less than the lowest non-zero std's conc.
 ** If sample was diluted, concentration after dilution is shown.


Cup 115, Sample: 95-7945-G1 100X
 Ch. 2: #2                          ;    90.983 ppb          PIF=1.00 Abs= 0.0619

Cup 116, Sample: 95-7945-G2 100X
 Ch. 2: #2                          ;    94.272 ppb          PIF=0.99 Abs= 0.0641

Cup 117, Sample: 95-7946-G1 100X
 Ch. 2: #2                          ;   185.919 ppb          PIF=0.99 Abs= 0.1261

Cup 118, Sample: 95-7946-G2 100X
 Ch. 2: #2                          ;   188.173 ppb          PIF=0.99 Abs= 0.1276

Cup 119, Sample: 95-7948-G1 100X
 Ch. 2: #2                          ;   119.304 ppb          PIF=0.99 Abs= 0.0810

Cup 120, Sample: 95-7935-G1 50X
 Ch. 2: #2                          ;    92.391 ppb          PIF=0.99 Abs= 0.0628

Cup 121, Sample: 95-7935-G2 50X
 Ch. 2: #2                          ;    94.852 ppb          PIF=1.00 Abs= 0.0645

Cup 122, Sample: 95-7932-G1 50X
 Ch. 2: #2                          ;   114.210 ppb          PIF=0.99 Abs= 0.0776

Cup 123, Sample: 95-7932 G2 50X
 Ch. 2: #2                          ;   100.796 ppb          PIF=0.99 Abs= 0.0685

Cup 124, Sample: 95-7932-G3 1X
 Ch. 2: #2                          ;     2.185 ppb          PIF=0.98 Abs= 0.0019
 ** Above conc. is significantly less than the lowest non-zero std's conc.
 ** If sample was diluted, concentration after dilution is shown.
```

-- Report for tray 95092604.RS continued on next page . . .

-- Page 3 of report for tray 95092604.RS ----------

Cup 125, Sample: 95-7932-GS 2000X
Ch. 2: #2 ; 136.776 ppb PIF=0.99 Abs= 0.0928

Cup 126, Sample: CCV ICV-6 #3
Ch. 2: #2 ; 85.938 ppb PIF=1.00 Abs= 0.0585

Cup 127, Sample: CCB
Ch. 2: #2 ; -0.412 ppb PIF=0.00 Abs= 0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

--------- End of Report for Tray 95092604.RS ----------

==========

QuikChem AE Runtime Report for Tray 95092605.RS
Method: pyridine-barbituric

This tray was started on 09/26/95 at 01:23 pm.
This report was prepared on 09/26/95 at 01:24 pm.

Operator: mmo
Tray Template: 95092605
Calibration now in effect is Ref: 95092601, 09/26/95, 11:08 am

BY108 samples micro distilled by SAL ICV-6 micro distilled 9/25/95 in lab 419
Dilution check of 95-7948-G2 and 95-7947-G1 and G2.

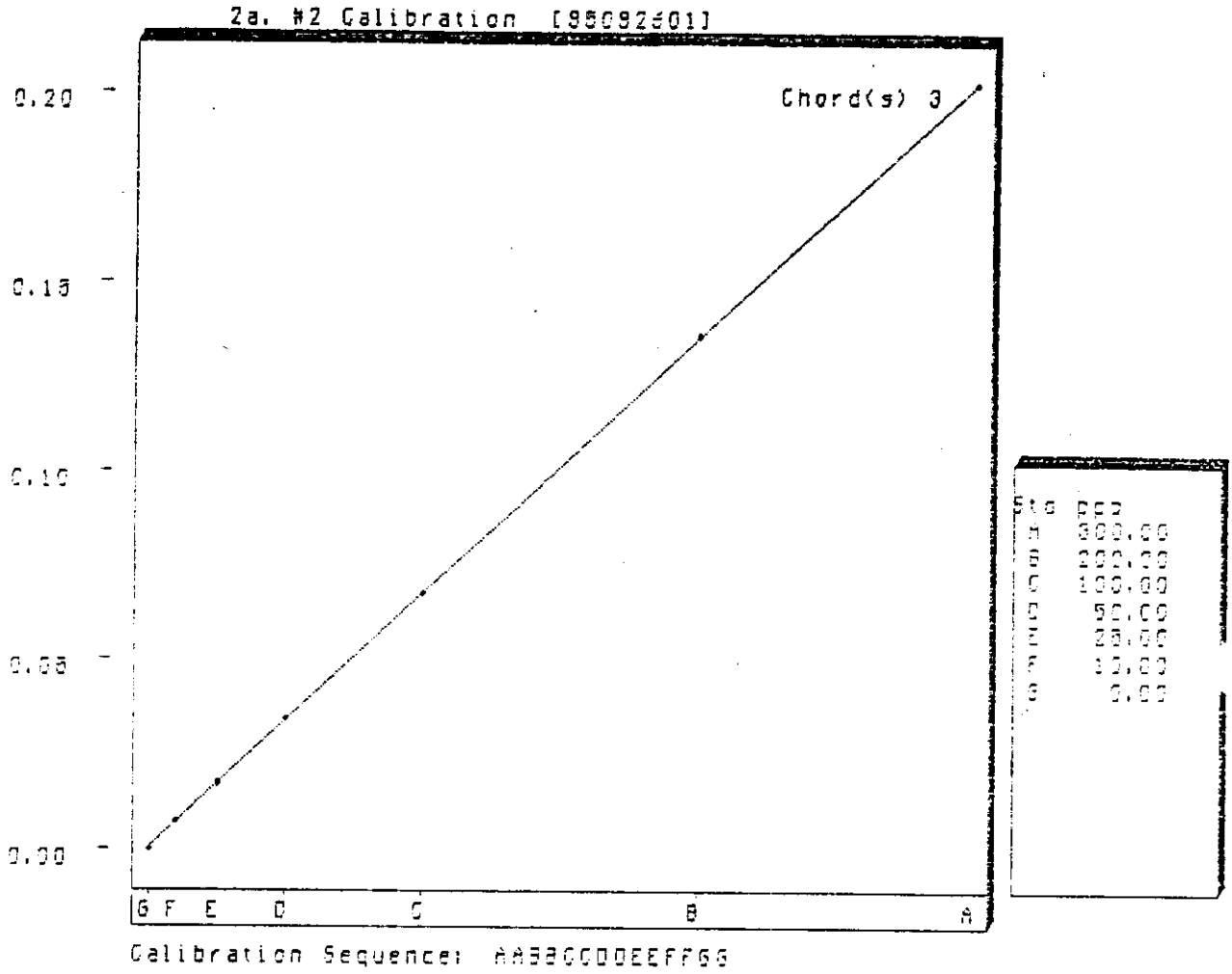
==========

-- Page 1 of report for tray 95092605.RS ----------

Cup 101, Sample: 95-7947 G1 2X Ch. 2: #2	;	138.000 ppb	PIF=0.98 Abs= 0.0937
Cup 102, Sample: 95-7947-G2 100X Ch. 2: #2	;	168.322 ppb	PIF=0.98 Abs= 0.1142
Cup 103, Sample: 95-7948-G2 2X Ch. 2: #2	;	13.791 ppb	PIF=0.99 Abs= 0.0097

--------- End of Report for Tray 95092605.RS ----------

M. O'Neill
4 of 4



Chord 3 Correlation Coefficient 1.0000
Percent Standard Deviation in Slope: 0.1

m m o'Neill
9/26/95

BEST AVAILABLE COPY

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard D,	#2	ppb	50.000	50.424	-0.85	0.0345

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard D	#2	ppb	50.000	50.658	-1.32	[0.0345

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard D	#2	ppb	50.000	50.189	-0.38	[0.0344

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard E,	#2	ppb	25.000	24.995	0.02	0.0173

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard E	#2	ppb	25.000	24.856	0.58	[0.0175

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard E	#2	ppb	25.000	25.135	-0.54	[0.0171

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard F,	#2	ppb	10.000	10.264	-2.64	0.0073

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard F	#2	ppb	10.000	10.410	-4.10	[0.0073

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard F	#2	ppb	10.000	10.118	-1.18	[0.0075

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard G,	#2	ppb	0.000	-0.754	***.**	-0.0001

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard G	#2	ppb	0.000	-0.774	***.**	[0.0000

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard G	#2	ppb	0.000	-0.734	***.**	[*.****

This calibration may have been modified since it was first run'
If there is any question about this, see the calibration graph displayed
in "Calib Graphs and Stats" menu selection, Results/Approval.

---------- End of Calibration Record ----------

3-1790

QuikChem AE Calibration Report for Calibration 95092601
Method: pyridine-barbituric
This calibration was first done or last modified on 09/26/95 at 11:08 am
This report prepared on 09/26/95 at 02:34 pm

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard A,	#2	ppb	300.000	299.511	0.16	0.2028

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard A	#2	ppb	300.000	299.713	0.10	[0.2047

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard A	#2	ppb	300.000	299.310	0.23	[0.2050

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard B,	#2	ppb	200.000	200.669	-0.33	0.1360

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard B	#2	ppb	200.000	200.813	-0.41	[0.1372

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard B	#2	ppb	200.000	200.526	-0.26	[0.1371

	Analyte	Units	Known	Determined	% Residual	Baseline Corrected Average Absorbance
Standard C,	#2	ppb	100.000	99.891	0.11	0.0679

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard C	#2	ppb	100.000	100.123	-0.12	[0.0685

	Analyte	Units	Known	Determined	% Residual	[Replicate]
I Standard C	#2	ppb	100.000	99.660	0.34	[0.0681

WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/19/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - Cyanide Microdistillation

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07932-G1	95-07932-G2	95-07932-G3
95-07932-G4	95-07932-G5	
95-07935-G1	95-07935-G2	
95-07941-G1	95-07941-G2	95-07941-G3
95-07941-G4	95-07941-G5	
95-07942-G1	95-07942-G2	
95-07943-G1	95-07943-G2	
95-07944-G1	95-07944-G2	
95-07945-G1	95-07945-G2	
95-07946-G1	95-07946-G2	
95-07947-G1	95-07947-G2	
95-07948-G1	95-07948-G2	

Julia Brecht

PNL ACL Quality Representative

9/20/95

Date

3-1792

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory

CYANIDE

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28868

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-285

Sample Ident.	ELIXER + SAMPLE Weight Distilled Delivered (g)	Volume Delivered (ml)
95-07932-G1 SEG 2 DL	0.9146	~8 ml
95-07932-G2 SEG 2 DL DUP	0.8117	~8 ml
95-07932-G3 METHODS BLANK		~8 ml
95-07932-G4 MATRIX SPIKE	0.9988 +	1.0025 mL SPIKE. ~8 ml
95-07932-G5 SPIKE CONTROL		1.0035 mL SPIKE. ~8 ml
95-07935-G1 SEG 3 DL	1.0298	~8 ml
95-07935-G2 SEG 3 DL DUP	1.0366	~8 ml

Spike Id: 53428 CN STANDARD

Pre-Treatment

95-7932

13.9186 − 13.2145 = 0.7041 g

19.0289 − 13.9186 = 5.1103 g Elix.

95-7935

14.5706 − 13.8762 = 0.6944

19.6925 − 14.5706 = 5.1219

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/12/95 Reviewer: [signature] Date: 9/13/95

3-1793

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
Bench Sheet

Client: KURT SILVERS WP Number: K28868

TI#/ARF: TI95-TWC-03 ASR 2388 Procedure: PNL-ALO-285

95-07932 SEG 2 DL; 95-07935 SEG 3 DL CYANIDE
SAMPLE IDENTIFICATION

Microdistillation Aliquots (Sample + Elixer)

95-07932-G1	95-07932-G2	95-07932-G4
14.1629	14.0607	14.2754
13.2483	13.2490	13.2766
0.9146	0.8117	0.9988

95-07935-G1	95-07935-G2	(Spike) 1 ml pipet calibration DIW @ 26°C
14.2828	14.2918	
13.2530	13.2552	1.0011 g $\bar{X}$ = 0.9993 g
1.0298	1.0366	0.9985 g S = 0.0012
		0.9986 g RSD = 0.12 %
		1.0000 g n = 5
		0.9985 g DCUY = 1.0025 ml

M&TE:

X Mettler AE160 (360-06-01-016) Mettler AE200 (362-06-01-038) ___

___ Sartorius R200D (360-06-01-024) Corning pH Meter Model 240 S/N 6629 ___

Analyst: [signature] Date: 9/13/95 Reviewer: [signature] Date: 9/13/95

3-1794

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: DRAINABLE LIQUID

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: MICRODISTRILLATION

ANALYST: [signature] DATE: 9/13/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/13/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28868	95-07932-G1	PNL-ALO-285	CN									SAMP
	95-07932-G2											DUP
	95-07932-G3											BLANK
	95-07932-G4											MS
	95-07932-G5											SPK BLK
	95-07935-G1											SAMP
	95-07935-G2											DUP

PAGE 1 OF 1

3-1795

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

95-7948-G2
14.3369
13.2535
1.0834

Shielded Analytical Laboratory Bench Sheet

Client: KURT SILVERS WP Number: K28868

TI#/ARF: TI95-TWC-03 ASR 2388 Procedure: PNL-ALO-285

95-07941 THROUGH 95-07948 SLUDGE CYANIDE
SAMPLE IDENTIFICATION

Aliquots for Distillation

95-7941-G1	95-7941-G2	95-7941-G4	95-7942-G1
14.2980	14.3395	14.3240	14.3445
13.2467	13.2445	13.2401	13.2542
1.0513	1.0950	1.0839	1.0903

95-7942-G2	95-7943-G1	95-7943-G2	95-7944-G1
14.3454	14.3304	14.3357	14.3426
13.2575	13.2480	13.2498	13.2524
1.0879	1.0824	1.0859	1.0902

95-7944-G2	95-7945-G1	95-7945-G2	95-7946-G1
14.3439	14.3250	14.3213	14.3167
13.2598	13.2509	13.2356	13.2568
1.0841	1.0741	1.0857	1.0599

95-7946-G2	95-7947-G1	95-7947-G2	95-7948-G1
14.3108	14.3359	14.3272	14.3434
13.2350	13.2636	13.2561	13.2582
1.0758	1.0723	1.0711	1.0852

M&TE:

X Mettler AE160 (360-06-01-016) Mettler AE200 (362-06-01-038) ___

___ Sartorius R200D (360-06-01-024) Corning pH Meter Model 240 S/N 6629 ___

Analyst: [signature] Date: 9/13/95 Reviewer: [signature] Date: 9/13/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
Bench Sheet

Client: KURT SILVERS WP Number: K28868

TI#/ARF: TI95-TWC-03 ASR 2388 Procedure: PNL-ALO-285

95-07941 THROUGH 95-07948 SLUDGE CYANIDE
SAMPLE IDENTIFICATION

Pretreatment

95-07941		95-07942		95-07943	
14.5197	19.6565	14.6040	19.7464	14.5542	19.7117
14.0113	14.5197	14.0775	14.6040	13.9835	14.5542
0.5084 +	5.1368	0.5265 +	5.1424	0.5707 +	5.1575
sample	Elixer	sample	Elixer	sample	Elixer

95-07944		95-07945		95-07946	
14.5607 RTS 9-13-95	19.6986	14.5776	19.7441	14.5894	19.7392
13.9981	14.5607	13.9340	14.5776	14.0000	14.5894
0.5626 +	5.1379	0.6436 +	5.1665	0.5894 +	5.1498
RTS 9-13-95 sample	Elixer	sample	Elixer	sample	Elixer

95-07947		95-07948	
14.5469	19.7077	14.4949	19.6480
14.0154	14.5469	13.9670	14.4949
0.5315 +	5.1608	0.5279 +	5.1531
sample	elixer	sample	Elixer

M&TE:

X Mettler AE160 (360-06-01-016) Mettler AE200 (362-06-01-038) ___

___ Sartorius R200D (360-06-01-024) Corning pH Meter Model 240 S/N 6629 ___

Analyst: [signature] Date: 9/13/95 Reviewer: [signature] Date: 9/13/95

3-1797

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory

CYANIDE

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28868

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-285

Sample Ident.	Elixer + SAMPLE Weight DISTILLED AND Delivered (g)	Volume Delivered (ml)
95-07941-G1 SEG 1	1.0513	~8 ml
95-07941-G2 SEG 1 DUP	1.0950	
95-07941-G3 BLANK	—	
95-07941-G4 MATRIX SPK	1.0839	1.0131 ml SP:M
95-07941-G5 SPIKE BLK	—	1.0131 ml SP:BK
95-07942-G1 QTR SEG 2A	1.0903	
95-07942-G2 QTR SEG 2A DUP	1.0879	
95-07943-G1 QTR SEG 2D	1.0824	
95-07943-G2 QTR SEG 2D DUP	1.0859	
95-07944-G1 QTR SEG 3A	1.0902	
95-07944-G2 QTR SEG 3A DUP	1.0841	

Spike Id: 53428 CN STANDARD

1 ml Pipet cal. DIW @ 26°C Temp = 130°C

1.0070 $\bar{x}$ = 1.0098 g.
1.0130
1.0094 S = .0021
1.0098
1.0096 RSD = .21%

Del = 1.0131 ml.

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: [signature] Date: 9/13/95 Reviewer: [signature] Date: 9/13/95

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

Shielded Analytical Laboratory
CYANIDE

Tank BY-108 Core(s) 99

Project Id: 21372 WP Number: K28868

Test Instruction: TI95-TWC-03 Procedure: PNL-ALO-285

Sample Ident.	Weight Delivered (g)	Volume Delivered (ml)
95-07945-G1 QTR SEG 4A	1.0741	~ 8 ml.
95-07945-G2 QTR SEG 4A DUP	1.0857	
95-07946-G1 QTR SEG 4B	1.0599	
95-07946-G2 QTR SEG 4B DUP	1.0758	
95-07947-G1 QTR SEG 4C	1.0723	
95-07947-G2 QTR SEG 4C DUP	1.0711	
95-07948-G1 QTR SEG 4D	1.0852	
95-07948-G2 QTR SEG 4D DUP	1.0834	

Spike Id: _____

95-7947-G1: Only a few drops of distillate was
95-7948-G2: in the tube when broken apart. Went
ahead & rinsed out & Delivered.

M&TE:

✓ Mettler AE160 (360-06-01-016) ___ Mettler AE200 (362-06-01-038)

___ Sartorius R200D (360-06-01-024)

Analyst: _____ Date: 9/13/95 Reviewer: _____ Date: 9/13/95

3-1799

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: MICRODISTRILLATION

ANALYST: [signature] DATE: 9/13/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/13/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
	95-07947-G1		GN									SAMP
	95-07947-G2											DUP
	95-07948-G1											SAMP
	95-07948-G2											DUP

PAGE 2 OF 2

WHC-SD-WM-DP-145, REV. 1

3-1800

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
325 Shielded Analytical Laboratory

SAMPLE PREP SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

TI/ARF NO.: TI95-TWC-03/ASR 2388 PROJECT NO.: 21732 WBS NO.: _____ SAMPLE TYPE: SLUDGE

ISSUED BY: RT STEELE DATE: 8/31/95 PREP TYPE: MICRODISTILLATION

ANALYST: [signature] DATE: 9/13/95 CONTROLLING PROCEDURE: PNL-ALO-110

REVIEW: [signature] DATE: 9/13/95 QA PLAN: MCS-033 IMPACT LEVEL: II

CLIENT: KURT SILVERS CORE ID: 99 TANK ID: BY-108

WORK PACKAGE NUMBER	ALO NUMBER	PROCEDURE	ANALYTE OR ANALYSIS	SAMPLE WT	WATER WT (g)	TOTAL VOL (mL)	SPIKE ID	SPIKE VOL (mL)	DILUTION FACTOR	DILUTION MATRIX	PIPET CALIB (mL)	MISC
K28868	95-07941-G1	PNL-ALO-285	CN									SAMP
	95-07941-G2											DUP
	95-07941-G3											BLANK
	95-07941-G4											MS
	95-07941-G5											SPK CONT
	95-07942-G1											SAMP
	95-07942-G2											DUP
	95-07943-G1											SAMP
	95-07943-G2											DUP
	95-07944-G1											SAMP
	95-07944-G2											DUP
	95-07945-G1											SAMP
	95-07945-G2											DUP
	95-07946-G1											SAMP
	95-07946-G2											DUP

3-1801

WHC-SD-WM-DP-145, REV. 1

WHC-SD-WM-DP-145, REV. 1

C5 - TOC/TIC/TC ANALYSIS

3-1802

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WHC-SD-WM-DP-145, REV. 1

SEGMENT & QUARTER SEGMENT TOC/TIC/TC ANALYSIS

3-1803

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/25/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - TOC/TIC/TC Analysis

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers -

95-07941-J1	95-07941-J2	95-07941-J4
95-07942-J1	95-07942-J2	95-07943-J1
95-07943-J2	95-07944-J1	95-07944-J2
95-07945-J1	95-07945-J2	95-07945-J4
95-07946-J1	95-07946-J2	95-07947-J1
95-07947-J2	95-07948-J1	95-07948-J2

Julia Arendt
PNL ACL Quality Representative

9/26/95
Date

3-1804

Battelle
Pacific Northwest Laboratories

WHC-SD-WM-DP-145, REV. 1

Project Number

Internal Distribution

System File/LB

Date September 22, 1995

To Program Manager

From DL Baldwin

Subject TOC/TIC/TC Analysis (Hot Persulfate Method) of BY-108 Samples

This work was done by the hot persulfate oxidation/coulometry detector method, Test Procedure PNL-ALO-381, rev. 0. The work was performed at Impact Level II. The M&TE No. for the carbon measurements is WC01713, the balance M&TE No. is 360-06-01-016, located in room 201 in 325 Bldg. The data is located on the record data sheets and review report spreadsheets and are on file in the LSO Records Office. The TIC standard was calcium carbonate and the TOC standard was glucose, both used in solid form for system standards as well as sample spikes. The estimated precision is ±10% and the estimated accuracy is ±15%. All results are reported in ugC/g, based on the weight of the sample.

QC Narrative: QC for this work involved system blanks, system standards, duplicates, and matrix spikes, each for both TIC and TOC. The work was performed in two batches on 9/19 and 9/20. System standard recoveries and system blanks all were within required limits, with average standard recoveries ranging from 91% to 96%. The matrix spike recoveries for the first batch, performed on sample segment 1, showed good results, 100% and 94%, for TIC and TOC, respectively. In contrast, the matrix spike recoveries for the second batch, performed on sample segment 4A, showed relatively poor results of 63% and 80%, respectively, for TIC and TOC. One comment recorded on the Data Sheet was that "Seg. 4A was quite dry", different from each of the other segments. The RPD is very small for this sample indicating good homogeneity, but the low spike recovery must indicate a matrix effect, perhaps due to the very high salt content. The ratio of spike-to-sample was good ranging from 50% to 110%, indicating no problem from this source.

The precision is very good for most samples, though there are a few cases of high RPD's. Samples showing greater than 20% RPD (28% to 36%) are Seg. 1 for TOC, Seg. 3A for TIC, TOC, and TC, and Seg. 4C for TOC. Seg. 3A must have some inhomogeneity, but no clear reason is identified for Seg. 1 and Seg. 4C. The method detection limit (MDL) for TIC (based on pooled historical data) is 9 ug, or 30 ugC/g based on the nominal weight used. The MDL for TOC is 16 ug, or 50 ugC/g, based on the nominal weight used.

Table of Results

ALO No.	Sample ID	wt (g)	TIC (ugC/g)	RSD (%)	TOC (ugC/g)	RSD (%)	TC (ugC/g)	RSD (%)
95-007941-J1	Core 99 Seg 1	0.1298	1150		1290		2440	
95-007941-J2	Core 99 Seg 1	0.2440	1170	2	920	33	2090	15
95-007941-J4	spike	0.2436	100% Recov.		94% Recov.			
95-007942-J1	Core 99 Seg 2A	0.2667	1470		890		2360	
95-007942-J2	Core 99 Seg 2A	0.3709	1590	8	870	2	2460	4
95-007943-J1	Core 99 Seg 2D	0.1941	2340		2490		4830	
95-007943-J2	Core 99 Seg 2D	0.1778	2480	6	2090	17	4570	6
95-007944-J1	Core 99 Seg 3A	0.2658	13100		3540		16700	
95-007944-J2	Core 99 Seg 3A	0.2552	9100	36	2670	28	11700	35
95-007945-J1	Core 99 Seg 4A	0.2721	13600		16500		30100	
95-007945-J2	Core 99 Seg 4A	0.2434	12700	6	17100	3	29800	1
95-007945-J4	spike	0.1751	63% recov.		80% Recov.			
95-007946-J1	Core 99 Seg 4B	0.2054	5090		13900		19000	
95-007946-J2	Core 99 Seg 4B	0.2442	5530	8	13300	5	18800	1
95-007947-J1	Core 99 Seg 4C	0.1795	10500		5600		16100	
95-007947-J2	Core 99 Seg 4C	0.2519	11000	5	4170	29	15200	6
95-007948-J1	Core 99 Seg 4D	0.2111	6050		3140		9190	
95-007948-J2	Core 99 Seg 4D	0.2221	6910	13	3700	16	10600	14

Notes:

(1) TIC and TOC are actually measured on the same sample. The TC is the sum of TIC and TOC.

(2) Percent recovery is determined for TIC and TOC using the respective standards, CaCO3, or glucose, and all sample results are corrected for percent recovery. All results are blank-corrected.

(3) The reported results have been rounded to two or three significant places, so some may slightly disagree with the spreadsheet review report.

Concur by: MW Thun Date: 9-22-95

File TOC-PER.49

System File No. TOC092095

TOC/TIC/TC Calculations **Review** Report - Hot Persulfate Method PNL-ALO-381
Samples: BY-108 Core 99, Direct Salt Sludge Batch 2 Analyzed 9/20/95

Preparer/date: 9-21-95
Reviewer/date: 9/22/95

Instrument: WC01713 in SAL Hot Cell / Fume Hood
TIC STD: CaCO3 (lot N261)
Project No.: ASR 2388 TI95-TWC-03 WPF: K28869 R, II

Bal M&TE: 360-06-01-016
TOC STD: Glucose (lot Kodak B1F)

Procedure: PNL-ALO-381
Archive File: 201PER10.XLS

Standard Calculations

Blank Averages:	TIC Blk:	18	Average:	15.7	TOC Blk:	79	Average:	77.7
		16	SD:	2.5		74	SD:	3.2
		13	Pooled SD:	3.0		80	Pooled SD:	5.3
			MDL:	9.0			MDL:	16.0

	measured TIC (ug)	Blk (ug)	Standard wt (g)	TIC % Recov	measured TOC (ug)	blk (ug)	Standard wt (g)	TOC % Recov
STD 1	955	15.7	0.0082	95.5	1052	77.7	0.0028	87.0
STD 2	1098	15.7	0.0093	97.1	1320	77.7	0.0035	88.7
STD 3	2358	15.7	0.0208	93.9	1972	77.7	0.0049	96.6
			avg:	95.5			avg:	90.8

Sample Calculations

ACL Number	Client ID	display TIC (ug)	blk (ug)	sample wt (g)	TIC (ugC/g)	TIC RPD (%)	display TOC (ug)	blk (ug)	sample wt (g)	TOC (ugC/g)	TOC RPD (%)	TC (ugC/g)	TC RPD (%)
95--007945-J1	Core 99 Seg 4A	3540	15.7	0.2721	13561		4160	77.7	0.2721	16524		30086	
95--007945-J2	Core 99 Seg 4A	2976	15.7	0.2434	12734	6	3855	77.7	0.2434	17093	3	29827	1
95--007945-J4	Core 99 Seg 4A spike	3050	15.7	0.1751	see below		4560	77.7	0.1751	see below		see below	
95--007946-J1	Core 99 Seg 4B	1015	15.7	0.2054	5094		2670	77.7	0.2054	13901		18995	
95--007946-J2	Core 99 Seg 4B	1305	15.7	0.2442	5528	8	3019	77.7	0.2442	13266	5	18794	1
95--007947-J1	Core 99 Seg 4C	1818	15.7	0.1795	10513		990	77.7	0.1795	5598		16111	
95--007947-J2	Core 99 Seg 4C	2071	15.7	0.2519	11037	5	1032	77.7	0.2519	4173	29	15210	6
95--007948-J1	Core 99 Seg 4D	1235	15.7	0.2111	6048		679	77.7	0.2111	3137		9185	
95--007948-J2	Core 99 Seg 4D	1482	15.7	0.2221	6913	13	823	77.7	0.2221	3696	16	10609	14

Matrix Spike Results

ACL Number	Client ID	MS (ug)	MS blk (ug)	Sa (ug/g)	MS Sa wt (g)	spike (g)	Spike % Recovery
95--007945-J4	Core 99 Seg 4A spike TIC	3050	15.7	1.36E+04	0.1751	0.0106	63.1
95--007945-J4	Core 99 Seg 4A spike TOC	4560	77.7	1.65E+04	0.1751	0.0064	79.8

Equations

% TIC (CaCO3) Recovery = [(S-B)/(Sample wt*e+6*0.1199)]*100
% TOC (Glucose) Recovery = [(S-B)/(Sample wt*e+6*0.400)]*100
TIC (ugC/g sample) = (TIC-Blk)/(Sample wt*Avg TIC Recov/100)
TOC (ugC/g sample) = (TOC-Blk)/(Sample wt*Avg TOC Recov/100)
TIC MS Recov (spike in g) = [(MS(ug)-B)*1e-6/(Avg TIC Recov/100)-S(ug/g)*Sample wt]*100/[spk wt*1e6*0.1199]
TOC MS Recov (spike in g) = [(MS(ug)-B)*1e-6/(Avg TOC Recov/100)-S(ug/g)*Sample wt]*100/[spk wt*1e6*0.400]
Due to the precision carried in the spreadsheet, some calculations may appear to be slightly off due to rounding errors.
The Pooled SD is the averaged SD for a recent list of 12 sample batches. MDL is based upon the Pooled SD. MDL = 3 x pooled SD.

Carbon Fraction in TIC (CaCO3) Standard = 0.1199
Carbon Fraction in TOC (Glucose) Standard = 0.4000

3-1807

WHC-SD-WM-DP-145, REV 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

CARBON (TOC/TIC/TC) DATA SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

CLIENT: KURT SILVERS WORK PACKAGE: K28869 ASR/ARF/LOI/TI: ASR 2388 TI95-TWC-03

QA PLAN: MCS-033 IMPACT LEVEL: II

By-108 Core 99
SAMPLE IDENTIFICATION

ACL NUMBER	SAMPLE IDENTIFICATION	SAMPLE SIZE	TIC (ugC)	TOC (ugC)	TC (ugC)	OBSERVATIONS/COMMENTS
	BIK 1		18	79		
	BIK 2		16	74		
Glucose + BIF CaCO3 # N261	STd 1	8.2/2.8 mg.	95~	102		
	STd 2	9.3/3.5~	1098	1320		Seg. 4A was quite dry
95-7945-J1	Seg. 4A	0.2721 g.	3540	4160		
95-7945-J2	Seg. 4A	0.2434	2776	3855~		
95-7945-J4MS	Seg 4A	0.1751 + 10.6/6.4	3050	4560		
95-7946-J1	Seg 4B	0.2054	1015~	2670		

PROCEDURE: PNL-ALO-380 ___
PNL-ALO-381 X

INSTRUMENT NUMBER: WC01713

BALANCE: CELL 2 (360-06-01-016) X
CELL 6 (362-06-01-038) ___

PIPET PERFORMANCE CHECKS:

Pipet DIW @ °C	Pipet DIW @ °C	Pipet DIW @ °C
g X= g	g X= g	g X= g
g s=	g s=	g s=
g RSD= %	g RSD= %	g RSD= %
g Del Vol= ml	g Del Vol= ml	g Del Vol= ml
g N=5	g N=5	g N=5

Analyst: [signature] Date: 9/20/95

Reviewer: [signature] Date: 9/21/95

3-1808

WHC-SD-WM-DP-065, REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

CARBON (TOC/TIC/TC) DATA SHEET CONTINUED

ACL NUMBER	SAMPLE IDENTIFICATION	SAMPLE SIZE g.	TIC (ugC)	TOC (ugC)	TC (ugC)	OBSERVATIONS/COMMENTS
95-7946-J2	Seq. 4B	0.2442	1305	3019		
95-7947-J1	Seq 4C	0.1795	1918 ~~990~~ 990	990		
95-7947-J2	Seq 4C	0.2519	2671	1032		
95-7948-J1	Seq 4D	0.2111	1235	679		
95-7948-J2	Seq 4D	0.2221	1482	823		
	BLK 3		13	80		
	STD. 3	20.0/4.9 mg.	2358	1972		

3-1809

WHC-SD-WM-DP-145, REV. 1

TOC/TIC/TC Calculations **Review** Report - Hot Persulfate Method PNL-ALO-381
Samples: BY-108 Core 99, Direct Salt Sludge Analyzed 9/19/95

Preparer/date: 9-21-95
Reviewer/date: 9-22-95

Instrument: WC01713 in SAL Hot Cell / Fume Hood
TIC STD: CaCO3 (lot N261)
Project No.: ASR 2388 TI95-TWC-03 WP#: K28869 IL 8

Bal M&TE: 360-06-01-016
TOC STD: Glucose (lot Kodak B1F)

Procedure: PNL-ALO-381
Archive File: 201PER09.XLS

Standard Calculations

Blank Averages:

TIC Blk:			TOC Blk:		
19	Average:	18.0	100	Average:	89.7
15	SD:	2.6	91	SD:	11.1
20	Pooled SD:	3.0	78	Pooled SD:	5.3
	MDL:	9.0		MDL:	16.0

	measured TIC (ug)	Blk (ug)	Standard wt (g)	TIC % Recov	measured TOC (ug)	Blk (ug)	Standard wt (g)	TOC % Recov
STD 1	1338	18.0	0.0114	96.6	1101	89.7	0.0028	90.3
STD 2	995	18.0	0.0090	90.5	1792	89.7	0.0045	94.6
STD 3	1352	18.0	0.0123	90.5	949	89.7	0.0023	93.4
			avg:	92.5			avg:	92.8

Sample Calculations

ACL Number	Client ID	display TIC (ug)	blk (ug)	sample wt (g)	TIC (ugC/g)	TIC RPD (%)	display TOC (ug)	blk (ug)	sample wt (g)	TOC (ugC/g)	TOC RPD (%)	TC (ugC/g)	TC RPD (%)
95--007941-J1	Core 99 Seg 1	156	18.0	0.1298	1149		245	89.7	0.1298	1290		2439	
95--007941-J2	Core 99 Seg 1	282 *	18.0	0.2440	1169	2	298	89.7	0.2440	920	33	2090	15
95--007941-J4	Core 99 Seg 1 spike	1952	18.0	0.2436	see below		3320	89.7	0.2436	see below		see below	
95--007942-J1	Core 99 Seg 2A	381 *	18.0	0.2667	1471		309	89.7	0.2667	887		2358	
95--007942-J2	Core 99 Seg 2 A	565	18.0	0.3709	1594	8	388	89.7	0.3709	867	2	2461	4
95--007943-J1	Core 99 Seg 2D	439	18.0	0.1941	2344		538	89.7	0.1941	2490		4834	
95--007943-J2	Core 99 Seg 2D	428	18.0	0.1778	2480	6	435	89.7	0.1778	2094	17	4574	6
95--007944-J1	Core 99 Seg 3A	3248	18.0	0.2658	13134		962	89.7	0.2658	3538		16672	
95--007944-J2	Core 99 Seg 3A	2100	18.0	0.2552	9097	36	721	89.7	0.2552	2667	28	11764	35

* Perpetual cell titration problems, estimated endpoint.

Matrix Spike Results

ACL Number	Client ID	MS (ug)	MS blk (ug)	Sa (ug/g)	MS Sa wt (g)	spike (g)	Spike % Recovery
95--007941-J4	Core 99 Seg 1 spike TIC	1952	18.0	1.15E+03	0.2436	0.0151	100.0
95--007941-J4	Core 99 Seg 1 spike TOC	3320	89.7	1.29E+03	0.2436	0.0084	94.3

Equations

% TIC (CaCO3) Recovery = [(S-B)/(Sample wt*e+6*0.1199)]*100
% TOC (Glucose) Recovery = [(S-B)/(Sample wt*e+6*0.400)]*100
TIC (ugC/g sample) = (TIC-Blk)/(Sample wt*Avg TIC Recov/100)
TOC (ugC/g sample) = (TOC-Blk)/(Sample wt*Avg TOC Recov/100)
TIC MS Recov (spike in g) = [(MS(ug)-B)*1e-6/(Avg TIC Recov/100)-S(ug/g)*Sample wt]*100/[spk wt*1e6*0.1199]
TOC MS Recov (spike in g) = [(MS(ug)-B)*1e-6/(Avg TOC Recov/100)-S(ug/g)*Sample wt]*100/[spk wt*1e6*0.400]
Due to the precision carried in the spreadsheet, some calculations may appear to be slightly off due to rounding errors.
The Pooled SD is the averaged SD for a recent list of 12 sample batches. MDL is based upon the Pooled SD. MDL = 3 x pooled SD.

Carbon Fraction in TIC (CaCO3) Standard = 0.1199
Carbon Fraction in TOC (Glucose) Standard = 0.4000

3- 1810

WHC-SD-WM-DP-145, REV. 1

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

CARBON (TOC/TIC/TC) DATA SHEET
(325 SHIELDED ANALYTICAL LABORATORY)

CLIENT: KURT SILVERS WORK PACKAGE: K28869 ASR/ARF/LOI/TI: ASR 2388 TI95-TWC-03

QA PLAN: MCS-033 IMPACT LEVEL: II

By-108 Core 99
SAMPLE IDENTIFICATION

ACL NUMBER	SAMPLE IDENTIFICATION	SAMPLE SIZE	TIC (ugC)	TOC (ugC)	TC (ugC)	OBSERVATIONS/COMMENTS
	BlK 1		19	100		
	BlK 2		15	91		
Glucose #BIF $CaCO_3$ #N261	Std. 1	11.4/2.8 mg.	1338	1101		
	Std. 2	9.0/4.5	995	1792		
95-7941-J1	seg. 1 [illegible] 0.1298 g. →	0.1298 g.	156	245		
95-7941-J2	seg. 1 [illegible] 0.2440 g. →	0.2440	282 *	298		* Had to change cell solution
95-7941-J3	seg. 1 [illegible]	0.2436 15.1/8.4	1952	3320		
95-7942 J1	seg. 2A	0.2667	381 *	309		*changed Purifying Columns Also.

PROCEDURE: PNL-ALO-380 __
PNL-ALO-381 X

INSTRUMENT NUMBER: WC01713

BALANCE: CELL 2 (360-06-01-016) X
CELL 6 (362-06-01-038) __

PIPET PERFORMANCE CHECKS:

Pipet DIW @ °C	Pipet DIW @ °C	Pipet DIW @ °C
g x= g	g x= g	g x= g
g s=	g s=	g s=
g RSD= %	g RSD= %	g RSD= %
g Del Vol= ml	g Del Vol= ml	g Del Vol= ml
g N=5	g N=5	g N=5

Analyst: [signature] Date: 9/19/95 Reviewer: [signature] Date: 9/20/95

3-1811

Battelle Pacific Northwest Laboratories
Analytical Chemistry Laboratory
Shielded Analytical Laboratory

CARBON (TOC/TIC/TC) DATA SHEET CONTINUED

ACL NUMBER	SAMPLE IDENTIFICATION	SAMPLE SIZE	TIC (ugC)	TOC (ugC)	TC (ugC)	OBSERVATIONS/COMMENTS
95-7942-~~J2~~ J3	Seg. 2A	0.3709 g.	565	388		
95-7943-J1	Seg. 2D	0.1941	439	538		
95-7943-J2	Seg. 2D	0.1778	426	435		
95-7944-J1	Seg. 3A	0.2658	3248	962		
95-7944-J2	Seg 3A	0.2552	2166	721		
	BlK 3		20	78		
	Std. 3	12.3/2.3 mg.	1352	949		
						Key to Perpetual
						T.T. is Fresh Acid
						Dichromate.

3- 1812

WHC-SD-WM-DP-145, REV. 1

Run Log: Hot Persulfate TOC/TIC/TC, Method PNL-ALO-381

Run Seq#	ALO Sample Number	Client Sample ID	Client Name	Sample Matrix (solid/liquid)	Date Analyzed
101	95-5024	LR Greenwood Y-~~7~~ 7 Kp9/27/95		liquid	4/10/95
102	95-5025	Y-~~8~~ 8 Kp9/27/95		"	4/10/95
103	95-5026	Y9		"	4/10/95
104	95-05284	PO14 K-Pool		Solids	4/14/95
105	95-05285	PO17 K-Pool		Solids	4/14/95
106	95-05309	1301-95 Kp9/27/95		Solids	4/18/95
107	95-05307	1299-95		Solids	4/18/95
108	95-05308	1300-95		Solids	4/18/95
~~109~~	~~95-0~~ Kp 9/27/95				
109	95-5956-5965	~~Charles Carr~~ Kp9/26/95 S5027-6	Charles Carr	Liquid.	6/6/95
110	95-5206, ~~5687~~ 5681 Kp9/26/95	See Phase III	KJ Kuhl-Klinger	Sludge	6/15/95
111	95-6210, 11, 12, 13	~~Gar~~ Kp9/26/95 103Sy 1+2 Before.	Gary Mong	Leach	6/~~18~~ 15 Kp9/26/95/95
112	95-6214, 15, 16	103Sy-6800 After	Gary Mong	Leach	6/19/95
113	95-6217, 08, 09	103Sy-6800 After 10 originals	"	Sludge, Liquid	6/20/95
114	95-6217, 6208	Re Runs	"	"	6/27/95
115	95-7131, 7132	Salt Cake A + B	Sharma	Liquid	7/18/95
116	95-7932, 7935	By-108 Drainable Liquids	Silvers	Liquid	9/18/95
117	95-7941 → 7944	By-108	"	Sludge	9/19/95

Note to analyst and auditors: It is not required that all fields be filled in nor lined out and initialed and dated.

118	95-7945 → 7948	By-108	"	Sludge	9/20/95

Run Log: Hot Persulfate TOC/TIC/TC, Method PNL-ALO-381

Run Seq#	ALO Sample Number	Client Sample ID	Client Name	Sample Matrix (solid/liquid)	Date Analyzed
101	95-5024	LR Greenwood Y-~~7~~ 7 KP 9/27/95		liquid	4/10/95
102	95-5025	Y-~~8~~ 8 KP 9/27/95		"	4/10/95
103	95-5026	Y9		"	4/10/95
104	95-05284	P014 K-Pool		Solids	4/14/95
105	95-05285	P017 K-Pool		Solids	4/14/95
106	95-05309	1301-95 KP 9/27/95		Solids	4/18/95
107	95-05307	1299-95		Solids	4/18/95
108	95-05308	1300-95		Solids	4/18/95
~~109~~	~~95-0~~ KP 9/27/95				
109	95-5956-5965	KP 9/27/95 ~~Charles Carr~~ S5027-B	Charles Carr	Liquid.	6/6/95
110	95-5706, ~~5687~~ 5687	KP 9/27/95 See Phase III	KJ Kuhl-Klinger	Sludge.	6/15/95
111	95-6210, 11, 12, 13	KP 9/27/95 ~~Ga~~ 103Sy 1+2 Before.	Gary Mong	Leach	6/~~18~~ 15/95 KP 9/27/95
112	95-6214, 15, 16	103Sy-6800 After	Gary Mong	Leach	6/19/95
113	95-6217, 08, 09	103Sy-6800 After 1 originals	"	Sludge, Liquid	6/20/95
114	95-6217, 6208	Re Runs	"	"	6/27/95
115	95-7131, 7132	Salt Cake A+B	Sharma	Liquid	7/18/95
116	95-7932, 7935	By-108 Drainable Liquids	Silvers	Liquid	9/18/95
117	95-7941 → 7944	By-108	"	sludge	9/19/95

Note to analyst and auditors: It is not required that all fields be filled in nor lined out and initialed and dated.

118	95-7945 → 7948	By-108	"	sludge	9/20/95

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WHC-SD-WM-DP-145, REV.1

DRAINABLE LIQUID TOC/TIC/TC ANALYSIS

3-1815

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WHC-SD-WM-DP-145, REV. 1

DATE TO QC: 09/28/95

DATA QUALITY REVIEW

I have reviewed the following data for completeness and for compliance with project requirements.

Analyte - TC/TIC/TOC - Drainable Liquids

Data Package/Report - BY-108 Core 99

Project No. - 21372

ACL Numbers - 95-07932-C1 95-07932-C2 95-07932-C3
95-07935-C1 95-07935-C2

PNL ACL Quality Representative

9/28/95
Date

3-1816

Battelle
Pacific Northwest Laboratories

Project Number _____

Internal Distribution

System File/LB

Date September 28, 1995

To Project Manager

From DL Baldwin

Subject TC/TIC/TOC (Solutions by Dohrmann DC-80)
Results for BY-108 Drainable Liquids, Rev 1

This work is done by the UV-catalyzed persulfate/NDIR method, Test Procedure PNL-ALO-382, Rev. 0, "Solutions Analysis: Carbon", using the Dohrmann DC-80 Total Organic Carbon Analyzer. The M&TE No. for the carbon measurements is WA64102, M&TE No. for the balance is 362-06-01-046. The data is located in the ALO Records Office System File. TC standard used is potassium acid phthalate, lot# 52809, and the TIC standard is sodium carbonate, lot# 52815.

Narrative: The QC for this work involved a blank, duplicate, spiked blank, spiked sample, and 2nd vendor verification standard. Each was analyzed by a single injection. The precision (RPD) between sample and duplicate is 5% and 4% for 95-07932, and 28% and 11% for 95-07935, respectively for TC and TIC. The 28% RPD is unusually high and may indicate possible inhomogeneity for TC between sample and duplicate for 95-07935. The spiked-water blank recoveries were good at 110% and 98%, respectively, for TC and TIC. The sample spike recoveries, performed on sample 95-07935, were 130% and 69%, respectively for TC and TIC. No clear reason is determined for this wide range of spike recoveries, but they may indicate some matrix effect for sample 95-07935.

Precision and accuracy for this method are estimated at ±10% and ±15%, respectively. Note that the units are ugC/ml, based on the volume of the original sample, using a Prep Dilution Factor.

Sample ID		TC (ug/ml)	RPD (%)	TIC (ug/ml)	RPD (%)	TOC (ug/ml)	RPD (%)
95-07932	-C1	9900	5	8500	28	1400	72
	-C2	9500		6400		3100	
	-C3	64		<mdl		<mdl	
95-07935	-C1	9600	4	7200	11	2400	72
	-C2	9200		8100		1100	
	water spike	110% rec.		98% rec.			
	sample spike	130% rec.		69% rec.			

a) Only TC and TIC are actually measured. TOC is found by the subtraction of TIC from TC. Therefore no RPD is reported for TOC.

b) Matrix spike recovery was determined for TC and TIC using the respective standards.

c) An MDL was determined from the pooled SD of five batch blanks. MDL is set equal to 10x pooled SD, therefore is equal, with no dilution factor, to 0.5 ug/ml for TC, TOC and TIC. The MDL's for the above samples, with Prep Dilution Factor of 100x, is 50 ug/ml.

Concur by: M O'Thm Date: 9/28/95

Disk File: UV-TOC.39 System File: TC091995

Summary of Results

9/28/95

Prep Dilution Factor (vol/vol)

Sample ID	sol vol	H2O vol	Prep Dilution Factor
95-07932 - C1	0.1996	19.0847	95.6
95-07932 - C2	0.1996	20.2951	101.7
95-07932 - C3	0.1996	19.8367	99.4
95-07935 - C1	0.1996	20.0202	100.3
95-07935 - C2	0.1996	20.4408	102.4

Summary of Results (ugC/ml)

Sample ID	TC	Prep Dilution Factor	TC Final ugC/ml	RPD	TIC	Prep Dilution Factor	TIC Final ugC/ml	RPD	TOC	Prep Dilution Factor	TOC Final ugC/ml	RPD
95-07932 - C1	104	95.6	9944	5	89	95.6	8510	28	15	95.6	1434	72
95-07932 - C2	93	101.7	9456		63	101.7	6406		30	101.7	3050	
95-07932 - C3	0.64	99.4	64		0.47	99.4	47		0	99.4	17	
95-07935 - C1	96	100.3	9629	4	72	100.3	7222	11	24	100.3	2407	72
95-07935 - C2	90	102.4	9217		79	102.4	8090		11	102.4	1126	

Equation: TC Final = TC * Prep dilution factor

where "mdl" = 0.5 ugC/ml*100 = 50 ugC/ml

Preparer/date: DL Baldwin 9-28-95
Reviewer/date: [signature] 9/28/95

WHC-SD-WM-DP-145, REV. 1

3-1819

Battelle
Pacific Northwest Laboratories

ENGINEERING WORKSHEET

Prepared By:	Date:	Project:
Title/Subject:		

Water Blank Spk TC
0.5ml of 50ppm std
9.5ml Water

$$\frac{(2.91 - .14) - (0)}{25/10} = \frac{2.77}{2.5} = 1.10 \times 100 = 110\ \%$$

95-07935-C2
4.5ml Sample (10x)
.5ml 50ppm std

$$\frac{(14.74 - .14) - \left[(9.13 - .14) \times \frac{9}{10}\right]}{25/5} = \frac{6.51}{5} = 1.30 \times 100 = 130\ \%$$

TIC

Water Blank Spk
9.5ml H2O/.5ml 50ppm std

$$\frac{(2.60 - .15) - (0)}{25/10} = \frac{2.45}{2.5} = .980 \times 100 = 98\ \%$$

95-07935-C2

$$\frac{(10.65 - .15) - \left[(8.02 - .15) \times \frac{9}{10}\right]}{25/5} = \frac{2.31}{5} = .479 \times 100 = 69\ \%$$

DB 9-27-95

9/27/95
DLB 9-27-95

Battelle, Pacific Northwest Laboratory

CARBON (TC/TIC/TOC) ANALYSIS DATA SHEET
UV-Catalyzed Persulfate/NDIR Detector

Procedure: PNL-ALO-382 Rev. 0

Date Analyzed 9/27/95
Project No.

Sample Information:

Instrument No. WA64102
Balance No. 362-06-01-046

Sample ID	Sample Size	Dilutn	TC (ug C)	(UV off) TIC (ug C)	Observations, Calculations (ug/ml)
10ppm std	1ml		9.93	10.02	
Water Blank	1ml		.137	0.152	
Verification 10ppm std	1ml		10.01	—	
50ppm std	1ml		47.9	48.14	
Spk Blank	1ml		2.91	2.60	
95-07932-C1	25ul		2.16		
"	50ul		4.69		
"	1ml	10x	10.54	9.02	TC 10.54-.14 = 10.4 x10 = 104 TIC = 9.02 - .15 = 8.87 x10 = 89
95-07932-C2	25ul		2.26		
"	50ul		4.01		
"	1ml	20x	4.80	3.32	TC 4.80-.14 = 4.66 x20 = 93 TIC = 3.32-.15 = 3.17 x20 = 63
Method Blank 95-07932-C3	1ml		.637	.473	TC = .637 - .14 = .497
10ppm std	1ml		10.02		
Blank Water	1ml		.145		
Verification 10ppm std	1ml		10.07		

Pipet Calibrations (or other data):

No. F18615 (1.0 ml)	No. F18615 (0.5 ml)	No. F19066 (0.1 ml)

TC Standard:
Potassium Acid Pthalate #52809
0.425 ±0.001g -> ~50 ml, add 100 ul H_3PO_4 and dilute to final volume 100 ml = 2000 ppm TC stock solution.
10 ppm TC working standard: 500 ul of 2000 ppm std -> 100ml.
TIC Standard
Sodium Carbonate #52815
0.883 ±0.001g -> 100 ml volume = 1000 ppm TIC stock solution. 10 ppm working standard: 1000 ul of 1000 ppm std to 100 ml.

9/27/95
Analyst's Signature date

9-27-95
Reviewer's Signature date

[File: CAR-TSTB.LOG, 10/14/93]

Battelle, Pacific Northwest Laboratory

CARBON (TC/TIC/TOC) ANALYSIS DATA SHEET
UV-Catalyzed Persulfate/NDIR Detector

Procedure: PNL-ALO-382 Rev. 0

Date Analyzed 9/27/95
Project No.

Instrument No. WA64102
Balance No. 362-06-01-046

Sample Information:

Sample ID	Sample Size	Dilutn	TC (ug C)	TIC (UV off) (ug C)	Observations, Calculations (ug/ml)
50ppm std	1ml		48.46		
95-07935-c1	25ml		2.08		
"	50ml		4.34		
"	1ml	10x	9.77	7.38	TC = 9.77 - .18 = 9.63 X 10 = 96 TIC = 7.38 - .45 = 7.23 X 10 = 72
95-07935-c2	25ml		2.06		
"	50ml		4.11		
"	1ml	10x	9.13	8.02	TC = 9.13 - .14 = 8.99 X 10 = 90 TIC = 8.02 - .15 = 7.87 X 10 = 79
95-07935-c2 SPK	1ml	10x	14.74	10.68	
10ppm std	1ml		10.01	10.63	
10ppm Verification std	1ml		10.10	—	
Water Blank	1ml		.203	0.167	
50ppm std	1ml		48.92	48.83	

Pipet Calibrations (or other data):

No. F18615 (1.0 ml)	No. F18615 (0.5 ml)	No. F19066 (0.1 ml)
1.0026	0.4987	0.0996
1.0031	0.5012	0.1010
1.0019	0.5021	0.1008

TC Standard:
Potassium Acid Pthalate #52809
0.425 ±0.001g -> ~50 ml, add 100 ul H_3PO_4 and dilute to final volume 100 ml = 2000 ppm TC stock solution. 10 ppm TC working standard: 500 ul of 2000 ppm std -> 100ml.

TIC Standard
Sodium Carbonate #52815
0.883 ±0.001g -> 100 ml volume = 1000 ppm TIC stock solution. 10 ppm working standard: 1000 ul of 1000 ppm std to 100 ml.

9/27/95
Analyst's Signature date

9-27-95
Reviewer's Signature date

[File: CAR-TSTB.LOG, 10/14/93]

WHC-SD-WM-DP-145, REV. 1

Page 1 of 2

ENGINEERING WORKSHEET

Date:	Project:

9/27/95

1 TOC 9.[illegible]

CAL -- 1 ML
CAL ADJ 9.993

TC

1 TOC 9.925 10ppm std 1ml

2 TOC 0.137 Blk 1ml

3 TOC 10.01 Verification std 10ppm 1ml

4 TOC 47.87 50ppm std 1ml

5 TOC 2.914 9.5ml H2O/.5ml 50ppm std Spk Blank 1ml

6 TOC 2.153 95-07932-C1 25ml

7 TOC 4.690 50ml

8 TOC 10.53 95-07932-C1 -10X 1ml

9 TOC 2.282 95-07932-C2 25ml

10 TOC 4.008 50ml

11 TOC 4.797 95-07932-C2 - 20X 1ml

12 TOC 0.637 95-07932-C3 Methods Blank 1ml

13 TOC 1.681 95-07932-C4 MS 25ml

14 TOC [illegible] 50ml

15 TOC 9.162 95-07932-C4-MS 10X 1ml

16 TOC 10.02 10ppm std 1ml

17 TOC 0.145 Blank 1ml

18 TOC 10.07 10ppm Verification std 1ml

19 TOC 48.48 50ppm std

20 TOC 0.117 95-07932-C5 100ml

21 TOC 0.057 50ml

22 TOC 0.045 50ml

23 TOC 0.482 95-07932-C5 Direct 1ml

24 TOC 2.082 95-07935-C1 25ml

25 TOC 4.333 50ml

26 TOC 9.773 95-07935-C1 10X 1ml

27 TOC 2.056 95-07935-C2 25ml

28 TOC 4.109 50ml

29 TOC 9.132 95-07935-C2 10X 1ml

30 TOC 14.74 95-07935-C2 SPK 1ml

31 TOC 10.01 10ppm std 1ml

32 TOC 10.10 10ppm Verification std 1ml

33 TOC 0.203 Water Blank 1ml

34 TOC 48.92 50ppm std 1ml

(10X) = 4.5ml H2O/.5ml Sa

(20X) = 9.5ml H2O/.5ml Sa

SPK-Sample 95-07935-C2 4.5 Sa (10X)/.5ml 50ppm std.

SPK Blank 9.5ml H2O/.5ml 50ppm std.

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Review: DC Baldwin 9-27

WHC-SD-WM-DP-145, REV. 1

Battelle
Pacific Northwest Laboratories

ENGINEERING WORKSHEET

Prepared By:	Date:	Project:

Title/Subject:

CAL -- 1 9/27/95
CAL ADJ 9.335 [illegible]

1 TOC 10.02 10ppmstd 1ml
TIC

2 TOC 0.152 water Blank 1ml

3 TOC 46.14 50ppmstd

4 TOC 2.607 4.5ml water .5ml 50ppmstd Spk Blank 1ml

5 TOC 9.015 95-07932-C1 10X 1ml

6 TOC 3.315 95-07932-C2 ~~10X~~ 20X 9-27-95 1ml

7 TOC 0.477 95-07932-C3 - Blank 1ml

8 TOC 7.384 95-07935-C1 10X 1ml

9 TOC 8.021 95-07935-C2 - 10X 1ml

10 TOC 10.85 4.5ml Sa(10X) .5ml 50ppm std 95-07935-C2 - SPK 1ml

11 TOC 10.63 10ppmstd

12 TOC 0.167 Water Blank

13 TOC 48.63 50ppm std

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Reviewer: D L Bldwin 9-27-95

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