

2 Sb 206.833	1242.4	1211.7	0.4845 mg/L	24.23 ppm
2 Se 196.026	1640.9	1636.4	0.4968 mg/L	24.84 ppm
2 Tl 190.800	1569.7	1603.5	0.5068 mg/L	25.34 ppm
2 V 292.402	180117.7	179835.2	1.782 mg/L	89.09 ppm
2 Zn 213.856	25900.7	25944.4	0.4865 mg/L	24.33 ppm
3 Ag 328.068	63817.4	64237.9	0.8401 mg/L	42.01 ppm
3 Al 308.215	18795.1	18352.5	1.963 mg/L	98.16 ppm
3 As 188.979	1357.4	1367.8	0.4958 mg/L	24.79 ppm
3 Ba 233.527	394441.4	394874.3	3.571 mg/L	178.5 ppm
3 Be 313.107	416459.4	418760.1	0.1691 mg/L	8.454 ppm
3 Ca 227.547	1541.6	1573.9	19.12 mg/L	956.1 ppm
3 Cd 228.802	9806.3	9680.4	0.2335 mg/L	11.68 ppm
3 Co 228.616	33029.0	32957.5	0.9062 mg/L	45.31 ppm
3 Cr 267.716	40438.3	40501.2	0.8826 mg/L	44.13 ppm
3 Cu 324.754	97383.6	96835.1	0.8513 mg/L	42.56 ppm
3 Fe 273.955	19274.5	19454.2	0.9051 mg/L	45.25 ppm
3 K 766.491	268745.2	262657.9	5.002 mg/L	250.1 ppm
3 Mg 279.079	79075.6	80090.7	8.195 mg/L	409.7 ppm
3 Mn 257.610	339776.9	343160.1	0.8013 mg/L	40.06 ppm
3 Mo 202.030	26508.6	26623.1	1.938 mg/L	96.88 ppm
3 Na 330.237	16264.6	15030.6	34.89 mg/L	1745 ppm
3 Ni 231.604	36378.8	36431.9	0.9058 mg/L	45.29 ppm
3 Pb 220.353	41910.7	41576.1	2.881 mg/L	144.0 ppm
3 Sb 206.833	1156.9	1126.1	0.4503 mg/L	22.51 ppm
3 Se 196.026	1576.3	1571.8	0.4772 mg/L	23.86 ppm
3 Tl 190.800	1591.0	1624.8	0.5134 mg/L	25.67 ppm
3 V 292.402	174249.2	173966.7	1.724 mg/L	86.18 ppm
3 Zn 213.856	25142.8	25186.5	0.4723 mg/L	23.62 ppm

Mean Data

ID: LCSD-03M1387	Seq. No.: 70	Sample No.: 46	A/S Pos: 55
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	50.0
	Data: Original	Date: 04/28/03	02:45:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	65379.4	0.8551	0.01324	mg/L	42.75	0.662	ppm	1.55%
Al 308.215	18590.3	1.989	0.0264	mg/L	99.43	1.321	ppm	1.33%
As 188.979	1396.0	0.5061	0.01777	mg/L	25.30	0.889	ppm	3.51%
Ba 233.527	405017.0	3.663	0.0797	mg/L	183.1	3.98	ppm	2.17%
Be 313.107	428693.7	0.1731	0.00348	mg/L	8.655	0.1738	ppm	2.01%
Ca 227.547	1569.6	19.07	0.574	mg/L	953.5	28.70	ppm	3.01%
Cd 228.802	9819.7	0.2369	0.00313	mg/L	11.84	0.157	ppm	1.32%
Co 228.616	33477.3	0.9205	0.01420	mg/L	46.02	0.710	ppm	1.54%
Cr 267.716	41300.8	0.9001	0.01510	mg/L	45.00	0.755	ppm	1.68%
Cu 324.754	99189.6	0.8720	0.01801	mg/L	43.60	0.900	ppm	2.07%
Fe 273.955	19781.8	0.9203	0.01373	mg/L	46.02	0.686	ppm	1.49%
K 766.491	260489.9	4.963	0.0457	mg/L	248.2	2.29	ppm	0.92%
Mg 279.079	82138.8	8.404	0.1815	mg/L	420.2	9.08	ppm	2.16%
Mn 257.610	352100.2	0.8221	0.01808	mg/L	41.11	0.904	ppm	2.20%
Mo 202.030	26882.6	1.957	0.0234	mg/L	97.83	1.168	ppm	1.19%
Na 330.237	15362.3	35.63	0.678	mg/L	1782	33.9	ppm	1.90%
Ni 231.604	36902.7	0.9175	0.01242	mg/L	45.87	0.621	ppm	1.35%
Pb 220.353	42016.2	2.911	0.0330	mg/L	145.6	1.65	ppm	1.14%
Sb 206.833	1171.0	0.4682	0.01719	mg/L	23.41	0.859	ppm	3.67%
Se 196.026	1620.9	0.4921	0.01318	mg/L	24.60	0.659	ppm	2.68%
Tl 190.800	1592.1	0.5032	0.01240	mg/L	25.16	0.620	ppm	2.46%
V 292.402	177662.3	1.760	0.0319	mg/L	88.01	1.594	ppm	1.81%
Zn 213.856	25549.7	0.4791	0.00713	mg/L	23.96	0.356	ppm	1.49%

Matrix Check Sample: LCSD-03M1387

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	0.8551	0.013	mg/L	85.557
Al 308.215	2.002	1.989	0.026	mg/L	99.317
As 188.979	0.4985	0.5061	0.018	mg/L	101.521
Ba 233.527	4.000	3.663	0.080	mg/L	91.565
Be 313.107	0.2000	0.1731	0.003	mg/L	86.536
Ca 227.547	19.92	19.07	0.574	mg/L	95.726
Cd 228.802	0.2499	0.2369	0.003	mg/L	94.790

Co 228.616	0.9998	0.9205	0.014	mg/L	92.066
Cr 267.716	1.0000	0.9001	0.015	mg/L	90.008
Cu 324.754	1.0000	0.8720	0.018	mg/L	87.203
Fe 273.955	1.001	0.9203	0.014	mg/L	91.886
K 766.491	5.065	4.963	0.046	mg/L	97.973
Mg 279.079	10.00	8.404	0.182	mg/L	84.033
Mn 257.610	1.000	0.8221	0.018	mg/L	82.184
Mo 202.030	2.000	1.957	0.023	mg/L	97.822
Na 330.237	40.47	35.63	0.678	mg/L	87.893
Ni 231.604	1.000	0.9175	0.012	mg/L	91.742
Pb 220.353	2.999	2.911	0.033	mg/L	97.088
Sb 206.833	0.4979	0.4682	0.017	mg/L	94.075
Se 196.026	0.4992	0.4921	0.013	mg/L	98.572
Tl 190.800	0.5015	0.5032	0.012	mg/L	100.338
V 292.402	2.000	1.760	0.032	mg/L	88.015
Zn 213.856	0.5000	0.4791	0.007	mg/L	95.832

Replicate Data -----

ID: 2905-15 S F=50

Date: 04/28/03 02:47:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-375.7	44.8	0.0006 mg/L	0.0293 ppm
1	Al 308.215	564144.1	563701.6	60.30 mg/L	3015 ppm
1	As 188.979	316.3	326.6	0.1388 mg/L	6.942 ppm
1	Ba 233.527	11426.1	11859.0	0.1127 mg/L	5.637 ppm
1	Be 313.107	-7899.3	-5598.6	-0.0023 mg/L	-0.1130 ppm
1	Ca 227.547	8504.2	8536.5	103.7 mg/L	5186 ppm
1	Cd 228.802	79.3	-46.6	-0.0011 mg/L	-0.0562 ppm
1	Co 228.616	4371.5	4300.1	0.1182 mg/L	5.912 ppm
1	Cr 267.716	22722.0	22784.9	0.4910 mg/L	24.55 ppm
1	Cu 324.754	5672.7	5124.2	0.0593 mg/L	2.964 ppm
1	Fe 273.955	4397105.5	4397285.2	206.5 mg/L	10320 ppm
1	K 766.491	510145.9	504058.6	9.224 mg/L	461.2 ppm
1	Mg 279.079	623359.8	624374.9	63.88 mg/L	3194 ppm
1	Mn 257.610	1397319.2	1400702.4	3.271 mg/L	163.5 ppm
1	Mo 202.030	-119.4	-5.0	-0.0058 mg/L	-0.2925 ppm
1	Na 330.237	1226.4	-7.7	0.6045 mg/L	30.23 ppm
1	Ni 231.604	20957.3	21010.3	0.5223 mg/L	26.12 ppm
1	Pb 220.353	1217.1	882.6	0.0590 mg/L	2.950 ppm
1	Sb 206.833	90.7	60.0	0.0085 mg/L	0.4266 ppm
1	Se 196.026	-74.7	-79.1	0.0131 mg/L	0.6572 ppm
1	Tl 190.800	-52.7	-18.9	-0.0048 mg/L	-0.2386 ppm
1	V 292.402	33744.9	33462.3	0.3481 mg/L	17.40 ppm
1	Zn 213.856	16660.1	16703.8	0.3020 mg/L	15.10 ppm
2	Ag 328.068	-424.6	-4.1	-0.0001 mg/L	-0.0027 ppm
2	Al 308.215	573340.9	572898.4	61.28 mg/L	3064 ppm
2	As 188.979	245.8	256.2	0.1136 mg/L	5.680 ppm
2	Ba 233.527	11154.9	11587.7	0.1103 mg/L	5.516 ppm
2	Be 313.107	-8344.2	-6043.5	-0.0024 mg/L	-0.1220 ppm
2	Ca 227.547	8203.5	8235.9	100.1 mg/L	5003 ppm
2	Cd 228.802	57.1	-68.8	-0.0017 mg/L	-0.0830 ppm
2	Co 228.616	4313.8	4242.3	0.1166 mg/L	5.832 ppm
2	Cr 267.716	22301.9	22364.8	0.4818 mg/L	24.09 ppm
2	Cu 324.754	5687.3	5138.8	0.0595 mg/L	2.976 ppm
2	Fe 273.955	4428839.6	4429019.3	207.9 mg/L	10400 ppm
2	K 766.491	510123.7	504036.4	9.224 mg/L	461.2 ppm
2	Mg 279.079	627144.0	628159.2	64.27 mg/L	3214 ppm
2	Mn 257.610	1407619.4	1411002.6	3.295 mg/L	164.7 ppm
2	Mo 202.030	-118.3	-3.9	-0.0058 mg/L	-0.2904 ppm
2	Na 330.237	1090.7	-143.3	0.2867 mg/L	14.34 ppm
2	Ni 231.604	20539.4	20592.4	0.5120 mg/L	25.60 ppm
2	Pb 220.353	1052.3	717.7	0.0476 mg/L	2.381 ppm
2	Sb 206.833	67.8	37.0	-0.0007 mg/L	-0.0351 ppm
2	Se 196.026	-122.7	-127.2	-0.0012 mg/L	-0.0584 ppm
2	Tl 190.800	-12.4	21.4	0.0079 mg/L	0.3945 ppm
2	V 292.402	33938.4	33655.8	0.3501 mg/L	17.50 ppm
2	Zn 213.856	16493.6	16537.3	0.2988 mg/L	14.94 ppm
3	Ag 328.068	-286.3	134.2	0.0018 mg/L	0.0878 ppm
3	Al 308.215	583564.9	583122.3	62.38 mg/L	3119 ppm

3 As 188.979	272.0	282.3	0.1233 mg/L	6.163 ppm
3 Ba 233.527	11319.3	11752.2	0.1119 mg/L	5.594 ppm
3 Be 313.107	-8264.0	-5963.2	-0.0024 mg/L	-0.1204 ppm
3 Ca 227.547	8388.5	8420.8	102.3 mg/L	5115 ppm
3 Cd 228.802	124.6	-1.3	0.0000 mg/L	-0.0016 ppm
3 Co 228.616	4224.0	4152.5	0.1142 mg/L	5.709 ppm
3 Cr 267.716	22787.5	22850.4	0.4923 mg/L	24.62 ppm
3 Cu 324.754	5806.4	5257.9	0.0607 mg/L	3.036 ppm
3 Fe 273.955	4475642.5	4475822.2	210.1 mg/L	10510 ppm
3 K 766.491	540346.4	534259.1	9.735 mg/L	486.7 ppm
3 Mg 279.079	633997.4	635012.5	64.97 mg/L	3249 ppm
3 Mn 257.610	1423229.8	1426613.0	3.331 mg/L	166.6 ppm
3 Mo 202.030	-103.7	10.7	-0.0048 mg/L	-0.2403 ppm
3 Na 330.237	1220.0	-14.0	0.5896 mg/L	29.48 ppm
3 Ni 231.604	20953.3	21006.3	0.5222 mg/L	26.11 ppm
3 Pb 220.353	1024.4	689.9	0.0457 mg/L	2.285 ppm
3 Sb 206.833	70.2	39.4	0.0001 mg/L	0.0038 ppm
3 Se 196.026	-58.1	-62.5	0.0188 mg/L	0.9425 ppm
3 Tl 190.800	-98.4	-64.6	-0.0191 mg/L	-0.9563 ppm
3 V 292.402	34683.2	34400.6	0.3577 mg/L	17.88 ppm
3 Zn 213.856	16695.2	16738.9	0.3025 mg/L	15.13 ppm

Mean Data

ID: 2905-15 S F=50 Seq. No.: 71 Sample No.: 47 A/S Pos: 56
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 02:47:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	58.3	0.0008	0.00092	mg/L	0.0381	0.04587	ppm	120.33%
Al 308.215	573240.8	61.32	1.039	mg/L	3066	52.0	ppm	1.69%
As 188.979	288.4	0.1252	0.01273	mg/L	6.262	0.6365	ppm	10.17%
Ba 233.527	11733.0	0.1116	0.00122	mg/L	5.582	0.0611	ppm	1.09%
Be 313.107	-5868.4	-0.0024	0.00010	mg/L	-0.1185	0.00479	ppm	4.04%
Ca 227.547	8397.7	102.0	1.84	mg/L	5101	92.1	ppm	1.81%
Cd 228.802	-38.9	-0.0009	0.00083	mg/L	-0.0469	0.04147	ppm	88.35%
Co 228.616	4231.6	0.1164	0.00204	mg/L	5.818	0.1022	ppm	1.76%
Cr 267.716	22666.7	0.4883	0.00573	mg/L	24.42	0.287	ppm	1.17%
Cu 324.754	5173.6	0.0598	0.00077	mg/L	2.992	0.0384	ppm	1.28%
Fe 273.955	4434042.2	208.2	1.85	mg/L	10410	92.7	ppm	0.89%
K 766.491	514118.0	9.394	0.2946	mg/L	469.7	14.73	ppm	3.14%
Mg 279.079	629182.2	64.38	0.552	mg/L	3219	27.6	ppm	0.86%
Mn 257.610	1412772.7	3.299	0.0305	mg/L	164.9	1.52	ppm	0.92%
Mo 202.030	0.6	-0.0055	0.00059	mg/L	-0.2744	0.02955	ppm	10.77%
Na 330.237	-55.0	0.4936	0.17934	mg/L	24.68	8.967	ppm	36.33%
Ni 231.604	20869.7	0.5189	0.00597	mg/L	25.94	0.299	ppm	1.15%
Pb 220.353	763.4	0.0508	0.00719	mg/L	2.539	0.3597	ppm	14.17%
Sb 206.833	45.5	0.0026	0.00512	mg/L	0.1318	0.25610	ppm	194.35%
Se 196.026	-89.6	0.0103	0.01031	mg/L	0.5138	0.51561	ppm	100.36%
Tl 190.800	-20.7	-0.0053	0.01352	mg/L	-0.2668	0.67582	ppm	253.29%
V 292.402	33839.6	0.3519	0.00505	mg/L	17.60	0.253	ppm	1.44%
Zn 213.856	16660.0	0.3011	0.00199	mg/L	15.06	0.100	ppm	0.66%

Replicate Data

ID: 2905-15 D F=50 Date: 04/28/03 02:50:23 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-351.7	68.8	0.0009	mg/L	0.0450	ppm
1	Al 308.215	501993.9	501551.3	53.65	mg/L	2683	ppm
1	As 188.979	302.5	312.9	0.1319	mg/L	6.595	ppm
1	Ba 233.527	17221.4	17654.2	0.1652	mg/L	8.262	ppm
1	Be 313.107	-6078.0	-3777.3	-0.0015	mg/L	-0.0763	ppm
1	Ca 227.547	9528.8	9561.1	116.2	mg/L	5808	ppm
1	Cd 228.802	124.9	-1.0	0.0000	mg/L	-0.0012	ppm
1	Co 228.616	3987.3	3915.8	0.1077	mg/L	5.383	ppm
1	Cr 267.716	17550.9	17613.8	0.3782	mg/L	18.91	ppm
1	Cu 324.754	5971.1	5422.6	0.0621	mg/L	3.106	ppm
1	Fe 273.955	4464852.6	4465032.3	209.6	mg/L	10480	ppm
1	K 766.491	492183.9	486096.6	8.919	mg/L	446.0	ppm
1	Mg 279.079	543383.1	544398.2	55.70	mg/L	2785	ppm
1	Mn 257.610	1446510.9	1449894.1	3.385	mg/L	169.3	ppm

1 Mo 202.030	-123.2	-8.8	-0.0062 mg/L	-0.3105 ppm
1 Na 330.237	1325.1	91.0	0.8357 mg/L	41.79 ppm
1 Ni 231.604	17107.1	17160.2	0.4266 mg/L	21.33 ppm
1 Pb 220.353	1226.2	891.6	0.0590 mg/L	2.949 ppm
1 Sb 206.833	98.7	67.9	0.0140 mg/L	0.6996 ppm
1 Se 196.026	-21.1	-25.6	0.0300 mg/L	1.499 ppm
1 Tl 190.800	-101.8	-68.0	-0.0207 mg/L	-1.036 ppm
1 V 292.402	30720.6	30438.0	0.3184 mg/L	15.92 ppm
1 Zn 213.856	15800.8	15844.5	0.2858 mg/L	14.29 ppm
2 Ag 328.068	-354.1	66.4	0.0009 mg/L	0.0435 ppm
2 Al 308.215	510003.2	509560.7	54.51 mg/L	2725 ppm
2 As 188.979	337.0	347.4	0.1434 mg/L	7.169 ppm
2 Ba 233.527	16891.5	17324.4	0.1620 mg/L	8.099 ppm
2 Be 313.107	-6182.9	-3882.2	-0.0016 mg/L	-0.0784 ppm
2 Ca 227.547	9479.3	9511.6	115.6 mg/L	5778 ppm
2 Cd 228.802	124.0	-1.9	0.0000 mg/L	-0.0023 ppm
2 Co 228.616	3905.5	3834.0	0.1054 mg/L	5.271 ppm
2 Cr 267.716	17270.7	17333.6	0.3724 mg/L	18.62 ppm
2 Cu 324.754	5889.8	5341.3	0.0607 mg/L	3.036 ppm
2 Fe 273.955	4253971.8	4254151.5	199.7 mg/L	9987 ppm
2 K 766.491	502995.4	496908.1	9.103 mg/L	455.2 ppm
2 Mg 279.079	547455.9	548471.1	56.12 mg/L	2806 ppm
2 Mn 257.610	1465647.4	1469030.6	3.430 mg/L	171.5 ppm
2 Mo 202.030	-156.6	-42.2	-0.0084 mg/L	-0.4191 ppm
2 Na 330.237	1236.2	2.2	0.6276 mg/L	31.38 ppm
2 Ni 231.604	16800.9	16854.0	0.4190 mg/L	20.95 ppm
2 Pb 220.353	1118.4	783.9	0.0519 mg/L	2.596 ppm
2 Sb 206.833	76.6	45.9	0.0058 mg/L	0.2893 ppm
2 Se 196.026	-62.1	-66.5	0.0158 mg/L	0.7878 ppm
2 Tl 190.800	-62.0	-28.2	-0.0083 mg/L	-0.4126 ppm
2 V 292.402	31380.6	31098.0	0.3241 mg/L	16.20 ppm
2 Zn 213.856	15926.1	15969.8	0.2886 mg/L	14.43 ppm
3 Ag 328.068	-238.3	182.2	0.0024 mg/L	0.1192 ppm
3 Al 308.215	485054.3	484611.7	51.84 mg/L	2592 ppm
3 As 188.979	318.9	329.2	0.1376 mg/L	6.879 ppm
3 Ba 233.527	17677.7	18110.6	0.1693 mg/L	8.465 ppm
3 Be 313.107	-5904.5	-3603.8	-0.0015 mg/L	-0.0728 ppm
3 Ca 227.547	10149.5	10181.9	123.7 mg/L	6185 ppm
3 Cd 228.802	163.0	37.1	0.0009 mg/L	0.0448 ppm
3 Co 228.616	4101.8	4030.3	0.1108 mg/L	5.541 ppm
3 Cr 267.716	18195.0	18257.9	0.3923 mg/L	19.61 ppm
3 Cu 324.754	5918.7	5370.2	0.0615 mg/L	3.076 ppm
3 Fe 273.955	4417928.9	4418108.6	207.4 mg/L	10370 ppm
3 K 766.491	474382.0	468294.8	8.615 mg/L	430.8 ppm
3 Mg 279.079	522818.3	523833.4	53.60 mg/L	2680 ppm
3 Mn 257.610	1398168.4	1401551.6	3.273 mg/L	163.6 ppm
3 Mo 202.030	-136.3	-21.9	-0.0071 mg/L	-0.3552 ppm
3 Na 330.237	1622.7	388.7	1.532 mg/L	76.62 ppm
3 Ni 231.604	17698.4	17751.5	0.4413 mg/L	22.07 ppm
3 Pb 220.353	1029.8	695.3	0.0453 mg/L	2.266 ppm
3 Sb 206.833	25.4	-5.4	-0.0152 mg/L	-0.7603 ppm
3 Se 196.026	-111.9	-116.4	0.0020 mg/L	0.1008 ppm
3 Tl 190.800	-77.8	-44.0	-0.0132 mg/L	-0.6593 ppm
3 V 292.402	29832.7	29550.1	0.3094 mg/L	15.47 ppm
3 Zn 213.856	16600.9	16644.6	0.3009 mg/L	15.04 ppm

Mean Data

ID: 2905-15 D F=50

Sample Qty: 1.0000 mL

Seq. No.: 72

Prep. Vol.: Data: Original

Sample No.: 48

1.0 mL

A/S Pos: 57

Dilution:

1.0:

50.0

Date: 04/28/03

02:50:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	105.8	0.0014	0.00087	mg/L	0.0692	0.04327	ppm	62.52%
Al 308.215	498574.6	53.33	1.363	mg/L	2667	68.1	ppm	2.55%
As 188.979	329.8	0.1376	0.00574	mg/L	6.881	0.2869	ppm	4.17%
Ba 233.527	17696.4	0.1655	0.00367	mg/L	8.275	0.1833	ppm	2.21%
Be 313.107	-3754.4	-0.0015	0.00006	mg/L	-0.0758	0.00284	ppm	3.75%
Ca 227.547	9751.5	118.5	4.54	mg/L	5924	226.9	ppm	3.83%
Cd 228.802	11.4	0.0003	0.00054	mg/L	0.0137	0.02688	ppm	195.51%
Co 228.616	3926.7	0.1080	0.00271	mg/L	5.398	0.1356	ppm	2.51%

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Cr 267.716	17735.1	0.3809	0.01025 mg/L	19.05	0.512 ppm	2.69%
Cu 324.754	5378.0	0.0615	0.00070 mg/L	3.073	0.0350 ppm	1.14%
Fe 273.955	4379097.4	205.6	5.20 mg/L	10280	259.9 ppm	2.53%
K 766.491	483766.5	8.879	0.2463 mg/L	444.0	12.31 ppm	2.77%
Mg 279.079	538900.9	55.14	1.351 mg/L	2757	67.6 ppm	2.45%
Mn 257.610	1440158.8	3.363	0.0812 mg/L	168.1	4.06 ppm	2.41%
Mo 202.030	-24.3	-0.0072	0.00109 mg/L	-0.3616	0.05456 ppm	15.09%
Na 330.237	160.6	0.9986	0.47386 mg/L	49.93	23.693 ppm	47.45%
Ni 231.604	17255.2	0.4290	0.01134 mg/L	21.45	0.567 ppm	2.64%
Pb 220.353	790.3	0.0521	0.00684 mg/L	2.604	0.3419 ppm	13.13%
Sb 206.833	36.1	0.0015	0.01506 mg/L	0.0762	0.75291 ppm	987.80%
Se 196.026	-69.5	0.0159	0.01398 mg/L	0.7958	0.69905 ppm	87.84%
Tl 190.800	-46.7	-0.0141	0.00628 mg/L	-0.7026	0.31386 ppm	44.67%
V 292.402	30362.1	0.3173	0.00742 mg/L	15.86	0.371 ppm	2.34%
Zn 213.856	16153.0	0.2918	0.00803 mg/L	14.59	0.401 ppm	2.75%

Matrix Check Sample: 2905-15 D F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
Ag 328.068	0.0008	0.0014	0.001	mg/L	57.929
Al 308.215	61.32	53.33	1.363	mg/L	13.933
As 188.979	0.1252	0.1376	0.006	mg/L	9.421
Ba 233.527	0.1116	0.1655	0.004	mg/L	38.867
Be 313.107	-0.0024	-0.0015	0.000	mg/L	-43.938
Ca 227.547	102.0	118.5	4.538	mg/L	14.918
Cd 228.802	-0.0009	0.0003	0.001	mg/L	-365.697
Co 228.616	0.1164	0.1080	0.003	mg/L	7.475
Cr 267.716	0.4883	0.3809	0.010	mg/L	24.710
Cu 324.754	0.0598	0.0615	0.001	mg/L	2.669
Fe 273.955	208.2	205.6	5.199	mg/L	1.247
K 766.491	9.394	8.879	0.246	mg/L	5.638
Mg 279.079	64.38	55.14	1.351	mg/L	15.458
Mn 257.610	3.299	3.363	0.081	mg/L	1.920
Mo 202.030	-0.0055	-0.0072	0.001	mg/L	-27.418
Na 330.237	0.4936	0.9986	0.474	mg/L	67.679
Ni 231.604	0.5189	0.4290	0.011	mg/L	18.961
Pb 220.353	0.0508	0.0521	0.007	mg/L	2.542
Sb 206.833	0.0026	0.0015	0.015	mg/L	53.418
Se 196.026	0.0103	0.0159	0.014	mg/L	43.076
Tl 190.800	-0.0053	-0.0141	0.006	mg/L	-89.906
V 292.402	0.3519	0.3173	0.007	mg/L	10.359
Zn 213.856	0.3011	0.2918	0.008	mg/L	3.160

Replicate Data

ID: 2905-15 1/5 F=250

Date: 04/28/03

02:53:19 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-418.9	1.6	0.0000	mg/L	0.0054	ppm
1	Al 308.215	120754.7	120312.2	12.87	mg/L	3217	ppm
1	As 188.979	51.6	61.9	0.0264	mg/L	6.596	ppm
1	Ba 233.527	2009.8	2442.7	0.0221	mg/L	5.522	ppm
1	Be 313.107	-3607.8	-1307.1	-0.0005	mg/L	-0.1319	ppm
1	Ca 227.547	1740.7	1773.1	21.54	mg/L	5386	ppm
1	Cd 228.802	109.3	-16.6	-0.0004	mg/L	-0.0999	ppm
1	Co 228.616	909.1	837.6	0.0230	mg/L	5.758	ppm
1	Cr 267.716	4574.0	4636.9	0.1011	mg/L	25.26	ppm
1	Cu 324.754	1518.1	969.6	0.0085	mg/L	2.131	ppm
1	Fe 273.955	946197.6	946377.3	44.43	mg/L	11110	ppm
1	K 766.491	93273.2	87186.0	1.751	mg/L	437.9	ppm
1	Mg 279.079	126761.1	127776.3	13.07	mg/L	3268	ppm
1	Mn 257.610	290256.8	293640.1	0.6856	mg/L	171.4	ppm
1	Mo 202.030	-102.2	12.2	0.0009	mg/L	0.2217	ppm
1	Na 330.237	1183.0	-51.0	0.5029	mg/L	125.7	ppm
1	Ni 231.604	4198.1	4251.2	0.1057	mg/L	26.42	ppm
1	Pb 220.353	491.2	156.6	0.0104	mg/L	2.596	ppm
1	Sb 206.833	28.8	-1.9	-0.0036	mg/L	-0.8924	ppm
1	Se 196.026	-23.1	-27.6	-0.0004	mg/L	-0.0919	ppm
1	Tl 190.800	-31.4	2.4	0.0007	mg/L	0.1869	ppm
1	V 292.402	7296.0	7013.4	0.0695	mg/L	17.37	ppm

1 Zn 213.856	3352.6	3396.3	0.0637 mg/L	15.92 ppm
2 Ag 328.068	-283.3	137.2	0.0018 mg/L	0.4487 ppm
2 Al 308.215	116330.5	115887.9	12.40 mg/L	3099 ppm
2 As 188.979	39.4	49.7	0.0218 mg/L	5.458 ppm
2 Ba 233.527	1931.7	2364.5	0.0214 mg/L	5.346 ppm
2 Be 313.107	-3498.7	-1198.0	-0.0005 mg/L	-0.1209 ppm
2 Ca 227.547	1716.9	1749.3	21.25 mg/L	5313 ppm
2 Cd 228.802	109.3	-16.6	-0.0004 mg/L	-0.1002 ppm
2 Co 228.616	910.0	838.5	0.0231 mg/L	5.764 ppm
2 Cr 267.716	4458.7	4521.6	0.0985 mg/L	24.63 ppm
2 Cu 324.754	1431.6	883.1	0.0078 mg/L	1.941 ppm
2 Fe 273.955	908301.0	908480.6	42.65 mg/L	10660 ppm
2 K 766.491	92763.8	86676.5	1.742 mg/L	435.4 ppm
2 Mg 279.079	119783.7	120798.8	12.36 mg/L	3090 ppm
2 Mn 257.610	277214.0	280597.3	0.6552 mg/L	163.8 ppm
2 Mo 202.030	-104.6	9.8	0.0007 mg/L	0.1778 ppm
2 Na 330.237	1155.2	-78.9	0.4377 mg/L	109.4 ppm
2 Ni 231.604	4139.4	4192.5	0.1042 mg/L	26.06 ppm
2 Pb 220.353	479.5	145.0	0.0086 mg/L	2.150 ppm
2 Sb 206.833	37.3	6.5	-0.0001 mg/L	-0.0205 ppm
2 Se 196.026	-15.8	-20.2	0.0015 mg/L	0.3836 ppm
2 Tl 190.800	-31.1	2.7	0.0009 mg/L	0.2136 ppm
2 V 292.402	7115.0	6832.4	0.0677 mg/L	16.92 ppm
2 Zn 213.856	3324.8	3368.5	0.0632 mg/L	15.79 ppm
3 Ag 328.068	-327.2	93.3	0.0012 mg/L	0.3051 ppm
3 Al 308.215	114741.7	114299.2	12.23 mg/L	3057 ppm
3 As 188.979	39.4	49.8	0.0218 mg/L	5.443 ppm
3 Ba 233.527	1899.3	2332.2	0.0211 mg/L	5.273 ppm
3 Be 313.107	-3487.7	-1186.9	-0.0005 mg/L	-0.1198 ppm
3 Ca 227.547	1705.9	1738.2	21.12 mg/L	5280 ppm
3 Cd 228.802	117.1	-8.8	-0.0002 mg/L	-0.0528 ppm
3 Co 228.616	897.6	826.1	0.0227 mg/L	5.679 ppm
3 Cr 267.716	4421.6	4484.5	0.0977 mg/L	24.43 ppm
3 Cu 324.754	1546.4	997.9	0.0088 mg/L	2.193 ppm
3 Fe 273.955	891939.3	892119.0	41.89 mg/L	10470 ppm
3 K 766.491	95974.0	89886.7	1.803 mg/L	450.7 ppm
3 Mg 279.079	117500.1	118515.2	12.13 mg/L	3032 ppm
3 Mn 257.610	271961.5	275344.7	0.6429 mg/L	160.7 ppm
3 Mo 202.030	-116.1	-1.7	-0.0001 mg/L	-0.0305 ppm
3 Na 330.237	1123.3	-110.7	0.3630 mg/L	90.74 ppm
3 Ni 231.604	4099.9	4153.0	0.1033 mg/L	25.81 ppm
3 Pb 220.353	462.9	128.3	0.0075 mg/L	1.868 ppm
3 Sb 206.833	32.0	1.2	-0.0022 mg/L	-0.5380 ppm
3 Se 196.026	-15.7	-20.2	0.0014 mg/L	0.3515 ppm
3 Tl 190.800	-38.4	-4.6	-0.0014 mg/L	-0.3597 ppm
3 V 292.402	6865.2	6582.6	0.0652 mg/L	16.30 ppm
3 Zn 213.856	3294.3	3338.0	0.0626 mg/L	15.65 ppm

Mean Data

ID: 2905-15 1/5 F=250 Seq. No.: 73 Sample No.: 49 A/S Pos: 58
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
 Data: Original Date: 04/28/03 02:53:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD%
Ag 328.068	77.4	0.0010	0.00090	mg/L	0.2531	0.22622	ppm	89.39%
Al 308.215	116833.1	12.50	0.333	mg/L	3124	83.3	ppm	2.67%
As 188.979	53.8	0.0233	0.00264	mg/L	5.832	0.6612	ppm	11.34%
Ba 233.527	2379.8	0.0215	0.00051	mg/L	5.380	0.1284	ppm	2.39%
Be 313.107	-1230.7	-0.0005	0.00003	mg/L	-0.1242	0.00670	ppm	5.40%
Ca 227.547	1753.5	21.30	0.217	mg/L	5326	54.1	ppm	1.02%
Cd 228.802	-14.0	-0.0003	0.00011	mg/L	-0.0843	0.02727	ppm	32.35%
Co 228.616	834.1	0.0229	0.00019	mg/L	5.734	0.0476	ppm	0.83%
Cr 267.716	4547.7	0.0991	0.00173	mg/L	24.78	0.433	ppm	1.75%
Cu 324.754	950.2	0.0084	0.00053	mg/L	2.088	0.1315	ppm	6.30%
Fe 273.955	915659.0	42.99	1.307	mg/L	10750	326.7	ppm	3.04%
K 766.491	87916.4	1.765	0.0328	mg/L	441.3	8.20	ppm	1.86%
Mg 279.079	122363.4	12.52	0.494	mg/L	3130	123.4	ppm	3.94%
Mn 257.610	283194.0	0.6612	0.02200	mg/L	165.3	5.50	ppm	3.33%
Mo 202.030	6.8	0.0005	0.00054	mg/L	0.1230	0.13472	ppm	109.53%
Na 330.237	-80.2	0.4345	0.07003	mg/L	108.6	17.51	ppm	16.32%

Ni 231.604	4198.9	0.1044	0.00123 mg/L	26.10	0.307 ppm	1*18%
Pb 220.353	143.3	0.0088	0.00147 mg/L	2.205	0.3667 ppm	16.64%
Sb 206.833	1.9	-0.0019	0.00175 mg/L	-0.4836	0.43848 ppm	90.66%
Se 196.026	-22.7	0.0009	0.00106 mg/L	0.2144	0.26578 ppm	123.95%
Tl 190.800	0.2	0.0001	0.00129 mg/L	0.0136	0.32353 ppm	>999.9%
V 292.402	6809.5	0.0675	0.00214 mg/L	16.87	0.536 ppm	3.18%
Zn 213.856	3367.6	0.0632	0.00055 mg/L	15.79	0.137 ppm	0.87%

Replicate Data

ID: 2905-15 MS F=50

Date: 04/28/03 02:56:37 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	68311.8	68732.3	0.8989 mg/L	44.95 ppm
1	Al 308.215	556585.6	556143.0	59.49 mg/L	2975 ppm
1	As 188.979	1629.5	1639.8	0.6135 mg/L	30.68 ppm
1	Ba 233.527	415884.3	416317.1	3.770 mg/L	188.5 ppm
1	Be 313.107	424654.2	426954.9	0.1724 mg/L	8.620 ppm
1	Ca 227.547	11577.0	11609.3	141.0 mg/L	7052 ppm
1	Cd 228.802	9727.2	9601.3	0.2316 mg/L	11.58 ppm
1	Co 228.616	37181.8	37110.3	1.020 mg/L	51.02 ppm
1	Cr 267.716	59449.9	59512.8	1.292 mg/L	64.59 ppm
1	Cu 324.754	109253.3	108704.8	0.9690 mg/L	48.45 ppm
1	Fe 273.955	4128511.3	4128691.0	193.8 mg/L	9692 ppm
1	K 766.491	800374.3	794287.0	13.98 mg/L	699.0 ppm
1	Mg 279.079	648407.0	649422.1	66.45 mg/L	3322 ppm
1	Mn 257.610	1864011.2	1867394.4	4.360 mg/L	218.0 ppm
1	Mo 202.030	26013.6	26128.1	1.896 mg/L	94.82 ppm
1	Na 330.237	17845.7	16611.6	38.40 mg/L	1920 ppm
1	Ni 231.604	55624.2	55677.3	1.384 mg/L	69.21 ppm
1	Pb 220.353	42346.5	42012.0	2.908 mg/L	145.4 ppm
1	Sb 206.833	1143.9	1113.1	0.4316 mg/L	21.58 ppm
1	Se 196.026	1524.3	1519.8	0.4963 mg/L	24.82 ppm
1	Tl 190.800	1494.7	1528.6	0.4843 mg/L	24.22 ppm
1	V 292.402	210740.2	210457.6	2.101 mg/L	105.0 ppm
1	Zn 213.856	41845.6	41889.3	0.7750 mg/L	38.75 ppm
2	Ag 328.068	70082.7	70503.2	0.9221 mg/L	46.10 ppm
2	Al 308.215	568119.9	567677.3	60.72 mg/L	3036 ppm
2	As 188.979	1522.6	1532.9	0.5754 mg/L	28.77 ppm
2	Ba 233.527	418978.4	419411.3	3.798 mg/L	189.9 ppm
2	Be 313.107	431193.6	433494.3	0.1750 mg/L	8.752 ppm
2	Ca 227.547	11096.0	11128.3	135.2 mg/L	6760 ppm
2	Cd 228.802	9375.3	9249.4	0.2231 mg/L	11.16 ppm
2	Co 228.616	35439.2	35367.7	0.9724 mg/L	48.62 ppm
2	Cr 267.716	60707.3	60770.2	1.319 mg/L	65.95 ppm
2	Cu 324.754	111710.9	111162.4	0.9907 mg/L	49.54 ppm
2	Fe 273.955	4172089.6	4172269.3	195.9 mg/L	9794 ppm
2	K 766.491	827403.1	821315.8	14.41 mg/L	720.4 ppm
2	Mg 279.079	655057.2	656072.3	67.13 mg/L	3356 ppm
2	Mn 257.610	1882928.3	1886311.5	4.404 mg/L	220.2 ppm
2	Mo 202.030	24963.0	25077.4	1.820 mg/L	91.00 ppm
2	Na 330.237	17992.5	16758.5	38.72 mg/L	1936 ppm
2	Ni 231.604	56391.2	56444.3	1.403 mg/L	70.16 ppm
2	Pb 220.353	40768.9	40434.3	2.799 mg/L	139.9 ppm
2	Sb 206.833	1077.9	1047.2	0.4051 mg/L	20.25 ppm
2	Se 196.026	1469.8	1465.4	0.4801 mg/L	24.01 ppm
2	Tl 190.800	1366.0	1399.8	0.4439 mg/L	22.20 ppm
2	V 292.402	214664.1	214381.5	2.140 mg/L	107.0 ppm
2	Zn 213.856	40325.9	40369.6	0.7464 mg/L	37.32 ppm
3	Ag 328.068	68029.4	68449.9	0.8952 mg/L	44.76 ppm
3	Al 308.215	555748.5	555305.9	59.40 mg/L	2970 ppm
3	As 188.979	1543.2	1553.5	0.5828 mg/L	29.14 ppm
3	Ba 233.527	411797.7	412230.6	3.733 mg/L	186.7 ppm
3	Be 313.107	421475.0	423775.8	0.1711 mg/L	8.556 ppm
3	Ca 227.547	11230.3	11262.6	136.8 mg/L	6842 ppm
3	Cd 228.802	9358.9	9233.0	0.2227 mg/L	11.14 ppm
3	Co 228.616	35559.9	35488.4	0.9758 mg/L	48.79 ppm
3	Cr 267.716	59221.1	59284.0	1.287 mg/L	64.33 ppm
3	Cu 324.754	108979.6	108431.1	0.9669 mg/L	48.34 ppm
3	Fe 273.955	4207695.6	4207875.2	197.6 mg/L	9878 ppm

3 K 766.491	846226.8	840139.5	14.70 mg/L	735.2 ppm
3 Mg 279.079	642387.1	643402.2	65.83 mg/L	3292 ppm
3 Mn 257.610	1845981.7	1849365.0	4.318 mg/L	215.9 ppm
3 Mo 202.030	25180.6	25295.1	1.836 mg/L	91.79 ppm
3 Na 330.237	17620.9	16386.9	37.90 mg/L	1895 ppm
3 Ni 231.604	55404.6	55457.6	1.379 mg/L	68.94 ppm
3 Pb 220.353	40988.6	40654.0	2.814 mg/L	140.7 ppm
3 Sb 206.833	1157.2	1126.4	0.4368 mg/L	21.84 ppm
3 Se 196.026	1452.3	1447.9	0.4751 mg/L	23.76 ppm
3 Tl 190.800	1397.5	1431.3	0.4538 mg/L	22.69 ppm
3 V 292.402	209743.7	209461.1	2.091 mg/L	104.6 ppm
3 Zn 213.856	40091.8	40135.5	0.7419 mg/L	37.10 ppm

Mean Data

 ID: 2905-15 MS F=50 Seq. No.: 74 Sample No.: 50 A/S Pos: 59
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 02:56:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	69228.5	0.9054	0.01456	mg/L	45.27	0.728	ppm	1.61%
Al 308.215	559708.8	59.87	0.740	mg/L	2994	37.0	ppm	1.24%
As 188.979	1575.4	0.5906	0.02021	mg/L	29.53	1.011	ppm	3.42%
Ba 233.527	415986.3	3.767	0.0325	mg/L	188.4	1.63	ppm	0.86%
Be 313.107	428075.0	0.1728	0.00200	mg/L	8.642	0.1000	ppm	1.16%
Ca 227.547	11333.4	137.7	3.02	mg/L	6885	150.8	ppm	2.19%
Cd 228.802	9361.3	0.2258	0.00502	mg/L	11.29	0.251	ppm	2.22%
Co 228.616	35988.8	0.9895	0.02676	mg/L	49.48	1.338	ppm	2.70%
Cr 267.716	59855.7	1.299	0.0174	mg/L	64.96	0.872	ppm	1.34%
Cu 324.754	109432.8	0.9755	0.01322	mg/L	48.78	0.661	ppm	1.36%
Fe 273.955	4169611.8	195.8	1.86	mg/L	9788	93.1	ppm	0.95%
K 766.491	818580.8	14.36	0.364	mg/L	718.2	18.19	ppm	2.53%
Mg 279.079	649632.2	66.47	0.648	mg/L	3323	32.4	ppm	0.98%
Mn 257.610	1867690.3	4.361	0.0431	mg/L	218.0	2.16	ppm	0.99%
Mo 202.030	25500.2	1.851	0.0404	mg/L	92.54	2.020	ppm	2.18%
Na 330.237	16585.7	38.34	0.414	mg/L	1917	20.7	ppm	1.08%
Ni 231.604	55859.7	1.389	0.0129	mg/L	69.44	0.644	ppm	0.93%
Pb 220.353	41033.4	2.840	0.0592	mg/L	142.0	2.96	ppm	2.08%
Sb 206.833	1095.6	0.4245	0.01700	mg/L	21.22	0.850	ppm	4.00%
Se 196.026	1477.7	0.4839	0.01106	mg/L	24.19	0.553	ppm	2.29%
Tl 190.800	1453.2	0.4607	0.02106	mg/L	23.03	1.053	ppm	4.57%
V 292.402	211433.4	2.110	0.0258	mg/L	105.5	1.29	ppm	1.22%
Zn 213.856	40798.1	0.7545	0.01795	mg/L	37.72	0.898	ppm	2.38%

Matrix Check Sample: 2905-15 MS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.001	0.9054	0.015	mg/L	90.464
Al 308.215	63.32	59.87	0.740	mg/L	-72.375
As 188.979	0.6252	0.5906	0.020	mg/L	93.067
Ba 233.527	4.112	3.767	0.033	mg/L	91.386
Be 313.107	0.1976	0.1728	0.002	mg/L	87.608
Ca 227.547	122.0	137.7	3.015	mg/L	178.336
Cd 228.802	0.2491	0.2258	0.005	mg/L	90.698
Co 228.616	1.116	0.9895	0.027	mg/L	87.317
Cr 267.716	1.488	1.299	0.017	mg/L	81.078
Cu 324.754	1.060	0.9755	0.013	mg/L	91.569
Fe 273.955	209.2	195.8	1.862	mg/L	-1242.478
K 766.491	14.39	14.36	0.364	mg/L	99.403
Mg 279.079	74.38	66.47	0.648	mg/L	20.924
Mn 257.610	4.299	4.361	0.043	mg/L	106.220
Mo 202.030	1.995	1.851	0.040	mg/L	92.811
Na 330.237	40.49	38.34	0.414	mg/L	94.614
Ni 231.604	1.519	1.389	0.013	mg/L	86.990
Pb 220.353	3.051	2.840	0.059	mg/L	92.981
Sb 206.833	0.5026	0.4245	0.017	mg/L	84.373
Se 196.026	0.5103	0.4839	0.011	mg/L	94.716
Tl 190.800	0.4947	0.4607	0.021	mg/L	93.203
V 292.402	2.352	2.110	0.026	mg/L	87.928
Zn 213.856	0.8011	0.7545	0.018	mg/L	90.668

Replicate Data
ID: 2905-15 MSD F=50

Date: 04/28/03 02:59:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	69822.6	70243.1	0.9187 mg/L	45.93 ppm
1	Al 308.215	572329.8	571887.2	61.17 mg/L	3059 ppm
1	As 188.979	1573.6	1583.9	0.5942 mg/L	29.71 ppm
1	Ba 233.527	427324.0	427756.8	3.874 mg/L	193.7 ppm
1	Be 313.107	436152.1	438452.9	0.1770 mg/L	8.852 ppm
1	Ca 227.547	11417.2	11449.5	139.1 mg/L	6955 ppm
1	Cd 228.802	9663.7	9537.8	0.2301 mg/L	11.50 ppm
1	Co 228.616	36501.0	36429.5	1.002 mg/L	50.08 ppm
1	Cr 267.716	60834.4	60897.3	1.322 mg/L	66.08 ppm
1	Cu 324.754	112005.5	111457.0	0.9937 mg/L	49.68 ppm
1	Fe 273.955	4283905.2	4284084.9	201.1 mg/L	10060 ppm
1	K 766.491	835649.5	829562.2	14.54 mg/L	726.9 ppm
1	Mg 279.079	662408.3	663423.4	67.88 mg/L	3394 ppm
1	Mn 257.610	1911543.0	1914926.2	4.471 mg/L	223.6 ppm
1	Mo 202.030	25580.5	25694.9	1.865 mg/L	93.24 ppm
1	Na 330.237	18516.7	17282.7	39.88 mg/L	1994 ppm
1	Ni 231.604	56878.4	56931.5	1.415 mg/L	70.77 ppm
1	Pb 220.353	41803.4	41468.9	2.870 mg/L	143.5 ppm
1	Sb 206.833	1086.6	1055.9	0.4083 mg/L	20.41 ppm
1	Se 196.026	1453.5	1449.0	0.4761 mg/L	23.81 ppm
1	Tl 190.800	1424.3	1458.1	0.4623 mg/L	23.11 ppm
1	V 292.402	216184.3	215901.7	2.155 mg/L	107.8 ppm
1	Zn 213.856	40981.4	41025.1	0.7584 mg/L	37.92 ppm
2	Ag 328.068	68937.3	69357.8	0.9071 mg/L	45.35 ppm
2	Al 308.215	562131.0	561688.4	60.08 mg/L	3004 ppm
2	As 188.979	1576.1	1586.5	0.5947 mg/L	29.74 ppm
2	Ba 233.527	417996.1	418428.9	3.789 mg/L	189.5 ppm
2	Be 313.107	427540.7	429841.5	0.1736 mg/L	8.678 ppm
2	Ca 227.547	11620.6	11652.9	141.6 mg/L	7079 ppm
2	Cd 228.802	9650.3	9524.4	0.2297 mg/L	11.49 ppm
2	Co 228.616	36795.0	36723.5	1.010 mg/L	50.49 ppm
2	Cr 267.716	59759.3	59822.2	1.298 mg/L	64.92 ppm
2	Cu 324.754	109735.9	109187.4	0.9735 mg/L	48.67 ppm
2	Fe 273.955	4205916.1	4206095.8	197.5 mg/L	9874 ppm
2	K 766.491	821481.7	815394.4	14.31 mg/L	715.7 ppm
2	Mg 279.079	651178.9	652194.0	66.73 mg/L	3337 ppm
2	Mn 257.610	1871519.3	1874902.5	4.378 mg/L	218.9 ppm
2	Mo 202.030	25921.6	26036.1	1.890 mg/L	94.48 ppm
2	Na 330.237	17915.7	16681.7	38.55 mg/L	1928 ppm
2	Ni 231.604	55874.5	55927.6	1.390 mg/L	69.52 ppm
2	Pb 220.353	42004.9	41670.3	2.884 mg/L	144.2 ppm
2	Sb 206.833	1161.7	1131.0	0.4386 mg/L	21.93 ppm
2	Se 196.026	1432.8	1428.3	0.4692 mg/L	23.46 ppm
2	Tl 190.800	1459.8	1493.6	0.4734 mg/L	23.67 ppm
2	V 292.402	212449.9	212167.3	2.118 mg/L	105.9 ppm
2	Zn 213.856	41820.4	41864.1	0.7744 mg/L	38.72 ppm
3	Ag 328.068	66668.6	67089.1	0.8774 mg/L	43.87 ppm
3	Al 308.215	543010.9	542568.4	58.04 mg/L	2902 ppm
3	As 188.979	1471.2	1481.5	0.5562 mg/L	27.81 ppm
3	Ba 233.527	403136.6	403569.4	3.655 mg/L	182.7 ppm
3	Be 313.107	413890.1	416190.8	0.1680 mg/L	8.402 ppm
3	Ca 227.547	11063.1	11095.5	134.8 mg/L	6740 ppm
3	Cd 228.802	9310.7	9184.8	0.2215 mg/L	11.08 ppm
3	Co 228.616	35542.6	35471.1	0.9753 mg/L	48.76 ppm
3	Cr 267.716	58029.0	58091.9	1.261 mg/L	63.04 ppm
3	Cu 324.754	107209.2	106660.7	0.9509 mg/L	47.54 ppm
3	Fe 273.955	4073335.2	4073514.9	191.2 mg/L	9562 ppm
3	K 766.491	822385.9	816298.7	14.33 mg/L	716.5 ppm
3	Mg 279.079	627028.9	628044.0	64.26 mg/L	3213 ppm
3	Mn 257.610	1815772.9	1819156.1	4.248 mg/L	212.4 ppm
3	Mo 202.030	24910.1	25024.5	1.816 mg/L	90.81 ppm
3	Na 330.237	17450.4	16216.3	37.52 mg/L	1876 ppm
3	Ni 231.604	54373.9	54427.0	1.353 mg/L	67.66 ppm
3	Pb 220.353	40599.4	40264.8	2.787 mg/L	139.3 ppm
3	Sb 206.833	1135.2	1104.4	0.4284 mg/L	21.42 ppm

3 Se 196.026	1406.8	1402.3	0.4602 mg/L	23.01 ppm
3 Tl 190.800	1388.9	1422.7	0.4510 mg/L	22.55 ppm
3 V 292.402	205920.8	205638.2	2.053 mg/L	102.6 ppm
3 Zn 213.856	40127.9	40171.6	0.7430 mg/L	37.15 ppm

Mean Data

ID: 2905-15 MSD F=50 Seq. No.: 75 Sample No.: 51 A/S Pos: 60
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Date: 04/28/03 02:59:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	68896.7	0.9011	0.02128	mg/L	45.05	1.064	ppm	2.36%
Al 308.215	558714.7	59.77	1.592	mg/L	2988	79.6	ppm	2.66%
As 188.979	1550.6	0.5817	0.02208	mg/L	29.09	1.104	ppm	3.80%
Ba 233.527	416585.1	3.773	0.1104	mg/L	188.6	5.52	ppm	2.93%
Be 313.107	428161.7	0.1729	0.00453	mg/L	8.644	0.2266	ppm	2.62%
Ca 227.547	11399.3	138.5	3.43	mg/L	6925	171.4	ppm	2.47%
Cd 228.802	9415.7	0.2271	0.00483	mg/L	11.36	0.241	ppm	2.12%
Co 228.616	36208.1	0.9956	0.01801	mg/L	49.78	0.900	ppm	1.81%
Cr 267.716	59603.8	1.294	0.0307	mg/L	64.68	1.536	ppm	2.37%
Cu 324.754	109101.7	0.9727	0.02143	mg/L	48.63	1.072	ppm	2.20%
Fe 273.955	4187898.5	196.6	5.00	mg/L	9831	249.9	ppm	2.54%
K 766.491	820418.4	14.39	0.125	mg/L	719.7	6.25	ppm	0.87%
Mg 279.079	647887.2	66.29	1.850	mg/L	3315	92.5	ppm	2.79%
Mn 257.610	1869661.6	4.366	0.1123	mg/L	218.3	5.62	ppm	2.57%
Mo 202.030	25585.2	1.857	0.0374	mg/L	92.84	1.868	ppm	2.01%
Na 330.237	16726.9	38.65	1.180	mg/L	1933	59.0	ppm	3.05%
Ni 231.604	55762.0	1.386	0.0313	mg/L	69.32	1.567	ppm	2.26%
Pb 220.353	41134.7	2.847	0.0526	mg/L	142.4	2.63	ppm	1.85%
Sb 206.833	1097.1	0.4251	0.01542	mg/L	21.25	0.771	ppm	3.63%
Se 196.026	1426.5	0.4685	0.00800	mg/L	23.42	0.400	ppm	1.71%
Tl 190.800	1458.1	0.4622	0.01119	mg/L	23.11	0.560	ppm	2.42%
V 292.402	211235.7	2.109	0.0519	mg/L	105.4	2.59	ppm	2.46%
Zn 213.856	41020.3	0.7586	0.01570	mg/L	37.93	0.785	ppm	2.07%

Matrix Check Sample: 2905-15 MSD F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.001	0.9011	0.021	mg/L	90.030
Al 308.215	63.32	59.77	1.592	mg/L	-77.692
As 188.979	0.6252	0.5817	0.022	mg/L	91.297
Ba 233.527	4.112	3.773	0.110	mg/L	91.522
Be 313.107	0.1976	0.1729	0.005	mg/L	87.625
Ca 227.547	122.0	138.5	3.427	mg/L	182.338
Cd 228.802	0.2491	0.2271	0.005	mg/L	91.223
Co 228.616	1.116	0.9956	0.018	mg/L	87.920
Cr 267.716	1.488	1.294	0.031	mg/L	80.527
Cu 324.754	1.060	0.9727	0.021	mg/L	91.284
Fe 273.955	209.2	196.6	4.998	mg/L	-1156.617
K 766.491	14.39	14.39	0.125	mg/L	99.994
Mg 279.079	74.38	66.29	1.850	mg/L	19.138
Mn 257.610	4.299	4.366	0.112	mg/L	106.681
Mo 202.030	1.995	1.857	0.037	mg/L	93.119
Na 330.237	40.49	38.65	1.180	mg/L	95.392
Ni 231.604	1.519	1.386	0.031	mg/L	86.747
Pb 220.353	3.051	2.847	0.053	mg/L	93.213
Sb 206.833	0.5026	0.4251	0.015	mg/L	84.489
Se 196.026	0.5103	0.4685	0.008	mg/L	91.641
Tl 190.800	0.4947	0.4622	0.011	mg/L	93.510
V 292.402	2.352	2.109	0.052	mg/L	87.834
Zn 213.856	0.8011	0.7586	0.016	mg/L	91.492

Replicate Data

ID: 2905-15 PS F=50 Date: 04/28/03 03:02:01 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	69949.1	70369.6	0.9203 mg/L	46.02 ppm
1 Al 308.215	575229.3	574786.8	61.48 mg/L	3074 ppm

1 As	188.979	1618.4	1628.7	0.6109 mg/L	30.55 ppm
1 Ba	233.527	418335.1	418768.0	3.792 mg/L	189.6 ppm
1 Be	313.107	429869.8	432170.6	0.1745 mg/L	8.725 ppm
1 Ca	227.547	10039.1	10071.4	122.4 mg/L	6118 ppm
1 Cd	228.802	10123.2	9997.3	0.2411 mg/L	12.06 ppm
1 Co	228.616	37945.8	37874.3	1.041 mg/L	52.07 ppm
1 Cr	267.716	64858.6	64921.5	1.409 mg/L	70.47 ppm
1 Cu	324.754	110720.9	110172.4	0.9825 mg/L	49.13 ppm
1 Fe	273.955	4326819.9	4326999.6	203.2 mg/L	10160 ppm
1 K	766.491	867903.3	861816.0	15.04 mg/L	752.2 ppm
1 Mg	279.079	696833.9	697849.0	71.40 mg/L	3570 ppm
1 Mn	257.610	1731981.3	1735364.6	4.052 mg/L	202.6 ppm
1 Mo	202.030	26866.8	26981.2	1.958 mg/L	97.92 ppm
1 Na	330.237	17915.7	16681.7	38.55 mg/L	1928 ppm
1 Ni	231.604	57118.3	57171.4	1.421 mg/L	71.07 ppm
1 Pb	220.353	43170.4	42835.8	2.966 mg/L	148.3 ppm
1 Sb	206.833	1288.9	1258.1	0.4886 mg/L	24.43 ppm
1 Se	196.026	1545.7	1541.3	0.5045 mg/L	25.22 ppm
1 Tl	190.800	1513.8	1547.6	0.4909 mg/L	24.55 ppm
1 V	292.402	215895.9	215613.3	2.153 mg/L	107.6 ppm
1 Zn	213.856	42676.2	42719.9	0.7901 mg/L	39.51 ppm
2 Ag	328.068	68083.3	68503.8	0.8959 mg/L	44.80 ppm
2 Al	308.215	570799.9	570357.4	61.01 mg/L	3051 ppm
2 As	188.979	1615.4	1625.7	0.6095 mg/L	30.48 ppm
2 Ba	233.527	412029.9	412462.7	3.735 mg/L	186.8 ppm
2 Be	313.107	424168.9	426469.6	0.1722 mg/L	8.610 ppm
2 Ca	227.547	9739.3	9771.7	118.7 mg/L	5936 ppm
2 Cd	228.802	9784.9	9659.0	0.2330 mg/L	11.65 ppm
2 Co	228.616	36895.5	36824.0	1.012 mg/L	50.62 ppm
2 Cr	267.716	63800.4	63863.4	1.386 mg/L	69.32 ppm
2 Cu	324.754	109353.5	108805.0	0.9703 mg/L	48.52 ppm
2 Fe	273.955	4270945.4	4271125.1	200.5 mg/L	10030 ppm
2 K	766.491	888950.8	882863.6	15.37 mg/L	768.6 ppm
2 Mg	279.079	686041.0	687056.1	70.30 mg/L	3515 ppm
2 Mn	257.610	1708466.8	1711850.0	3.997 mg/L	199.9 ppm
2 Mo	202.030	26345.0	26459.5	1.920 mg/L	96.02 ppm
2 Na	330.237	17850.9	16616.9	38.41 mg/L	1920 ppm
2 Ni	231.604	56318.9	56372.0	1.401 mg/L	70.07 ppm
2 Pb	220.353	42265.3	41930.8	2.903 mg/L	145.2 ppm
2 Sb	206.833	1237.0	1206.3	0.4681 mg/L	23.40 ppm
2 Se	196.026	1550.6	1546.1	0.5055 mg/L	25.27 ppm
2 Tl	190.800	1437.5	1471.3	0.4664 mg/L	23.32 ppm
2 V	292.402	213414.2	213131.6	2.128 mg/L	106.4 ppm
2 Zn	213.856	41433.7	41477.4	0.7669 mg/L	38.35 ppm
3 Ag	328.068	68680.0	69100.5	0.9037 mg/L	45.19 ppm
3 Al	308.215	574415.7	573973.2	61.40 mg/L	3070 ppm
3 As	188.979	1587.5	1597.9	0.5997 mg/L	29.98 ppm
3 Ba	233.527	414256.9	414689.8	3.756 mg/L	187.8 ppm
3 Be	313.107	425903.9	428204.6	0.1729 mg/L	8.645 ppm
3 Ca	227.547	9824.1	9856.4	119.8 mg/L	5988 ppm
3 Cd	228.802	9814.0	9688.1	0.2337 mg/L	11.68 ppm
3 Co	228.616	36957.9	36886.4	1.014 mg/L	50.71 ppm
3 Cr	267.716	64359.2	64422.1	1.398 mg/L	69.92 ppm
3 Cu	324.754	110038.6	109490.1	0.9764 mg/L	48.82 ppm
3 Fe	273.955	4294732.4	4294912.1	201.6 mg/L	10080 ppm
3 K	766.491	880602.0	874514.8	15.24 mg/L	762.1 ppm
3 Mg	279.079	691225.2	692240.4	70.83 mg/L	3541 ppm
3 Mn	257.610	1717317.3	1720700.5	4.018 mg/L	200.9 ppm
3 Mo	202.030	26342.8	26457.2	1.920 mg/L	96.01 ppm
3 Na	330.237	17786.1	16552.1	38.26 mg/L	1913 ppm
3 Ni	231.604	56859.4	56912.5	1.415 mg/L	70.75 ppm
3 Pb	220.353	42416.5	42082.0	2.914 mg/L	145.7 ppm
3 Sb	206.833	1313.3	1282.5	0.4985 mg/L	24.93 ppm
3 Se	196.026	1559.2	1554.7	0.5083 mg/L	25.42 ppm
3 Tl	190.800	1453.0	1486.8	0.4718 mg/L	23.59 ppm
3 V	292.402	215475.4	215192.8	2.148 mg/L	107.4 ppm
3 Zn	213.856	41581.6	41625.3	0.7697 mg/L	38.48 ppm

Mean Data

ID: 2905-15 PS F=50

Sample Qty: 1.0000 mL

Seq. No.: 76

Prep. Vol.:

Sample No.: 52

1.0 mL

A/S Pos: 61

Dilution:

1.0:

35980

Data: Original

Date: 04/28/03 03:02:01 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	69324.6	0.9067	0.01246	mg/L	45.33	0.623	ppm	1.37%
Al 308.215	573039.1	61.30	0.252	mg/L	3065	12.6	ppm	0.41%
As 188.979	1617.4	0.6067	0.00614	mg/L	30.33	0.307	ppm	1.01%
Ba 233.527	415306.8	3.761	0.0290	mg/L	188.1	1.45	ppm	0.77%
Be 313.107	428948.3	0.1732	0.00118	mg/L	8.660	0.0590	ppm	0.68%
Ca 227.547	9899.8	120.3	1.88	mg/L	6014	93.9	ppm	1.56%
Cd 228.802	9781.5	0.2359	0.00452	mg/L	11.80	0.226	ppm	1.92%
Co 228.616	37194.9	1.023	0.0162	mg/L	51.13	0.810	ppm	1.58%
Cr 267.716	64402.3	1.398	0.0115	mg/L	69.90	0.575	ppm	0.82%
Cu 324.754	109489.2	0.9764	0.00610	mg/L	48.82	0.305	ppm	0.62%
Fe 273.955	4297678.9	201.8	1.32	mg/L	10090	65.8	ppm	0.65%
K 766.491	873064.8	15.22	0.165	mg/L	761.0	8.27	ppm	1.09%
Mg 279.079	692381.8	70.84	0.552	mg/L	3542	27.6	ppm	0.78%
Mn 257.610	1722638.4	4.022	0.0277	mg/L	201.1	1.39	ppm	0.69%
Mo 202.030	26632.6	1.933	0.0219	mg/L	96.65	1.097	ppm	1.14%
Na 330.237	16616.9	38.41	0.143	mg/L	1920	7.2	ppm	0.37%
Ni 231.604	56818.7	1.413	0.0101	mg/L	70.63	0.507	ppm	0.72%
Pb 220.353	42282.9	2.928	0.0336	mg/L	146.4	1.68	ppm	1.15%
Sb 206.833	1249.0	0.4851	0.01552	mg/L	24.25	0.776	ppm	3.20%
Se 196.026	1547.4	0.5061	0.00198	mg/L	25.30	0.099	ppm	0.39%
Tl 190.800	1501.9	0.4764	0.01290	mg/L	23.82	0.645	ppm	2.71%
V 292.402	214645.9	2.143	0.0133	mg/L	107.1	0.66	ppm	0.62%
Zn 213.856	41940.9	0.7756	0.01266	mg/L	38.78	0.633	ppm	1.63%

Matrix Check Sample: 2905-15 PS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.001	0.9067	0.012	mg/L	90.590
Al 308.215	63.32	61.30	0.252	mg/L	-1.078
As 188.979	0.6252	0.6067	0.006	mg/L	96.293
Ba 233.527	4.112	3.761	0.029	mg/L	91.237
Be 313.107	0.1976	0.1732	0.001	mg/L	87.784
Ca 227.547	122.0	120.3	1.877	mg/L	91.249
Cd 228.802	0.2491	0.2359	0.005	mg/L	94.753
Co 228.616	1.116	1.023	0.016	mg/L	90.634
Cr 267.716	1.488	1.398	0.012	mg/L	90.970
Cu 324.754	1.060	0.9764	0.006	mg/L	91.661
Fe 273.955	209.2	201.8	1.316	mg/L	-641.123
K 766.491	14.39	15.22	0.165	mg/L	116.506
Mg 279.079	74.38	70.84	0.552	mg/L	64.664
Mn 257.610	4.299	4.022	0.028	mg/L	72.352
Mo 202.030	1.995	1.933	0.022	mg/L	96.924
Na 330.237	40.49	38.41	0.143	mg/L	94.786
Ni 231.604	1.519	1.413	0.010	mg/L	89.374
Pb 220.353	3.051	2.928	0.034	mg/L	95.901
Sb 206.833	0.5026	0.4851	0.016	mg/L	96.489
Se 196.026	0.5103	0.5061	0.002	mg/L	99.164
Tl 190.800	0.4947	0.4764	0.013	mg/L	96.343
V 292.402	2.352	2.143	0.013	mg/L	89.543
Zn 213.856	0.8011	0.7756	0.013	mg/L	94.889

Replicate Data

ID: CCV 1447B

Date: 04/28/03 03:04:39 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Sample Conc.
1	Ag 328.068	74593.0	75013.5	0.9811 mg/L	
1	Al 308.215	47482.4	47039.8	5.032 mg/L	
1	As 188.979	1383.7	1394.0	0.5034 mg/L	
1	Ba 233.527	545410.6	545843.4	4.936 mg/L	
1	Be 313.107	1229235.3	1231536.0	0.4973 mg/L	
1	Ca 227.547	4130.5	4162.8	50.58 mg/L	
1	Cd 228.802	40989.6	40863.7	0.9857 mg/L	
1	Co 228.616	72641.0	72569.6	1.995 mg/L	
1	Cr 267.716	22172.9	22235.8	0.4846 mg/L	
1	Cu 324.754	225132.4	224583.9	1.974 mg/L	

1 Fe 273.955	105823.2	106002.9	4.967 mg/L
1 K 766.491	885084.5	878997.3	15.31 mg/L
1 Mg 279.079	239541.2	240556.3	24.61 mg/L
1 Mn 257.610	845758.4	849141.6	1.983 mg/L
1 Mo 202.030	26477.3	26591.7	1.935 mg/L
1 Na 330.237	48435.7	47201.7	102.8 mg/L
1 Ni 231.604	80695.8	80748.9	2.008 mg/L
1 Pb 220.353	7628.0	7293.4	0.5053 mg/L
1 Sb 206.833	5088.3	5057.5	2.026 mg/L
1 Se 196.026	1647.5	1643.0	0.4988 mg/L
1 Tl 190.800	1532.7	1566.5	0.4955 mg/L
1 V 292.402	200997.6	200715.0	1.989 mg/L
1 Zn 213.856	108247.5	108291.2	2.031 mg/L
2 Ag 328.068	70357.2	70777.7	0.9257 mg/L
2 Al 308.215	44676.0	44233.5	4.732 mg/L
2 As 188.979	1295.7	1306.0	0.4717 mg/L
2 Ba 233.527	513580.2	514013.0	4.648 mg/L
2 Be 313.107	1157546.7	1159847.4	0.4683 mg/L
2 Ca 227.547	3845.9	3878.3	47.12 mg/L
2 Cd 228.802	38825.6	38699.7	0.9335 mg/L
2 Co 228.616	68887.3	68815.9	1.892 mg/L
2 Cr 267.716	20996.3	21059.2	0.4589 mg/L
2 Cu 324.754	211802.3	211253.8	1.857 mg/L
2 Fe 273.955	100027.9	100207.5	4.695 mg/L
2 K 766.491	831789.2	825701.9	14.48 mg/L
2 Mg 279.079	227406.4	228421.5	23.37 mg/L
2 Mn 257.610	798314.1	801697.3	1.872 mg/L
2 Mo 202.030	25299.5	25413.9	1.850 mg/L
2 Na 330.237	45694.4	44460.4	97.30 mg/L
2 Ni 231.604	76434.9	76488.0	1.902 mg/L
2 Pb 220.353	7268.9	6934.4	0.4805 mg/L
2 Sb 206.833	4843.9	4813.2	1.928 mg/L
2 Se 196.026	1552.5	1548.1	0.4700 mg/L
2 Tl 190.800	1495.7	1529.5	0.4837 mg/L
2 V 292.402	189001.5	188718.9	1.870 mg/L
2 Zn 213.856	102684.0	102727.7	1.926 mg/L
3 Ag 328.068	70744.6	71165.1	0.9307 mg/L
3 Al 308.215	45337.4	44894.8	4.802 mg/L
3 As 188.979	1365.5	1375.8	0.4968 mg/L
3 Ba 233.527	518905.2	519338.1	4.697 mg/L
3 Be 313.107	1171105.2	1173406.0	0.4738 mg/L
3 Ca 227.547	3995.4	4027.7	48.94 mg/L
3 Cd 228.802	39606.7	39480.8	0.9523 mg/L
3 Co 228.616	69683.8	69612.3	1.914 mg/L
3 Cr 267.716	21474.7	21537.6	0.4694 mg/L
3 Cu 324.754	214109.2	213560.7	1.877 mg/L
3 Fe 273.955	100909.2	101088.9	4.736 mg/L
3 K 766.491	839086.8	832999.5	14.59 mg/L
3 Mg 279.079	229279.1	230294.2	23.56 mg/L
3 Mn 257.610	806491.4	809874.6	1.891 mg/L
3 Mo 202.030	25821.7	25936.1	1.888 mg/L
3 Na 330.237	46224.8	44990.8	98.37 mg/L
3 Ni 231.604	77287.1	77340.2	1.923 mg/L
3 Pb 220.353	7505.2	7170.7	0.4968 mg/L
3 Sb 206.833	4987.2	4956.5	1.985 mg/L
3 Se 196.026	1642.9	1638.4	0.4974 mg/L
3 Tl 190.800	1575.2	1609.0	0.5087 mg/L
3 V 292.402	191663.5	191380.9	1.896 mg/L
3 Zn 213.856	103828.9	103872.6	1.948 mg/L

Mean Data

ID: CCV 1447B Seq. No.: 77 Sample No.: 5 A/S Pos: 6
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 04/28/03 03:04:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	72318.7	0.9458	0.03063	mg/L				3.24%
Al 308.215	45389.4	4.855	0.1569	mg/L				3.23%
As 188.979	1358.6	0.4907	0.01676	mg/L				3.42%
Ba 233.527	526398.2	4.760	0.1542	mg/L				3.37% 82

Be 313.107	1188263.1	0.4798	0.01538 mg/L	3.20%
Ca 227.547	4022.9	48.88	1.729 mg/L	3.54%
Cd 228.802	39681.4	0.9572	0.02643 mg/L	2.76%
Co 228.616	70332.6	1.934	0.0544 mg/L	2.81%
Cr 267.716	21610.9	0.4710	0.01290 mg/L	2.74%
Cu 324.754	216466.1	1.903	0.0626 mg/L	3.29%
Fe 273.955	102433.1	4.799	0.1463 mg/L	3.05%
K 766.491	845899.6	14.79	0.453 mg/L	3.06%
Mg 279.079	233090.7	23.85	0.668 mg/L	2.80%
Mn 257.610	820237.9	1.915	0.0592 mg/L	3.09%
Mo 202.030	25980.6	1.891	0.0430 mg/L	2.27%
Na 330.237	45551.0	99.50	2.938 mg/L	2.95%
Ni 231.604	78192.4	1.944	0.0561 mg/L	2.88%
Pb 220.353	7132.8	0.4942	0.01265 mg/L	2.56%
Sb 206.833	4942.4	1.980	0.0492 mg/L	2.48%
Se 196.026	1609.8	0.4887	0.01625 mg/L	3.33%
Tl 190.800	1568.3	0.4960	0.01252 mg/L	2.52%
V 292.402	193604.9	1.918	0.0624 mg/L	3.25%
Zn 213.856	104963.8	1.968	0.0551 mg/L	2.80%

Replicate Data -----

ID: CCB

Date: 04/28/03 03:07:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-353.5	67.0	0.0009 mg/L	
1	Al 308.215	433.7	-8.8	-0.0009 mg/L	
1	As 188.979	-17.2	-6.9	-0.0025 mg/L	
1	Ba 233.527	-384.9	48.0	0.0004 mg/L	
1	Be 313.107	-2456.3	-155.6	-0.0001 mg/L	
1	Ca 227.547	-38.0	-5.7	-0.0692 mg/L	
1	Cd 228.802	122.7	-3.2	-0.0001 mg/L	
1	Co 228.616	87.4	15.9	0.0004 mg/L	
1	Cr 267.716	-61.9	1.0	0.0000 mg/L	
1	Cu 324.754	592.9	44.4	0.0004 mg/L	
1	Fe 273.955	-164.7	15.0	0.0007 mg/L	
1	K 766.491	6285.8	198.5	0.0743 mg/L	
1	Mg 279.079	-1080.7	-65.6	-0.0067 mg/L	
1	Mn 257.610	-3179.4	203.8	0.0005 mg/L	
1	Mo 202.030	-98.3	16.1	0.0012 mg/L	
1	Na 330.237	1180.0	-54.0	0.4960 mg/L	
1	Ni 231.604	-36.1	17.0	0.0004 mg/L	
1	Pb 220.353	302.4	-32.1	-0.0022 mg/L	
1	Sb 206.833	32.4	1.6	0.0006 mg/L	
1	Se 196.026	3.1	-1.3	-0.0004 mg/L	
1	Tl 190.800	-26.0	7.9	0.0025 mg/L	
1	V 292.402	89.9	-192.7	-0.0019 mg/L	
1	Zn 213.856	-42.8	0.9	0.0000 mg/L	
2	Ag 328.068	-361.8	58.7	0.0008 mg/L	
2	Al 308.215	505.8	63.3	0.0068 mg/L	
2	As 188.979	-12.2	-1.9	-0.0007 mg/L	
2	Ba 233.527	-398.8	34.1	0.0003 mg/L	
2	Be 313.107	-2243.9	56.8	0.0000 mg/L	
2	Ca 227.547	-36.5	-4.2	-0.0504 mg/L	
2	Cd 228.802	120.2	-5.7	-0.0001 mg/L	
2	Co 228.616	69.3	-2.2	-0.0001 mg/L	
2	Cr 267.716	-54.9	8.0	0.0002 mg/L	
2	Cu 324.754	511.6	-36.9	-0.0003 mg/L	
2	Fe 273.955	-157.5	22.1	0.0010 mg/L	
2	K 766.491	5756.6	-330.7	0.0640 mg/L	
2	Mg 279.079	-1041.1	-26.0	-0.0027 mg/L	
2	Mn 257.610	-3206.3	176.9	0.0004 mg/L	
2	Mo 202.030	-97.6	16.9	0.0012 mg/L	
2	Na 330.237	1165.0	-69.1	0.4607 mg/L	
2	Ni 231.604	-53.0	0.1	0.0000 mg/L	
2	Pb 220.353	315.1	-19.4	-0.0013 mg/L	
2	Sb 206.833	14.7	-16.0	-0.0064 mg/L	
2	Se 196.026	3.1	-1.4	-0.0004 mg/L	
2	Tl 190.800	-26.2	7.6	0.0024 mg/L	
2	V 292.402	319.2	36.6	0.0004 mg/L	
2	Zn 213.856	-50.2	-6.5	-0.0001 mg/L	

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1 K 766.491	807765.2	801678.0	14.10 mg/L	704.9 ppm
1 Mg 279.079	681924.8	682940.0	69.88 mg/L	3494 ppm
1 Mn 257.610	1362175.6	1365558.8	3.188 mg/L	159.4 ppm
1 Mo 202.030	-116.4	-2.0	-0.0063 mg/L	-0.3170 ppm
1 Na 330.237	2045.7	811.7	2.521 mg/L	126.1 ppm
1 Ni 231.604	25844.3	25897.4	0.6438 mg/L	32.19 ppm
1 Pb 220.353	5993.9	5659.4	0.3926 mg/L	19.63 ppm
1 Sb 206.833	130.7	99.9	0.0218 mg/L	1.090 ppm
1 Se 196.026	-146.6	-151.0	-0.0039 mg/L	-0.1940 ppm
1 Tl 190.800	-40.8	-7.0	-0.0007 mg/L	-0.0335 ppm
1 V 292.402	51722.4	51439.8	0.5283 mg/L	26.42 ppm
1 Zn 213.856	60804.1	60847.8	1.128 mg/L	56.42 ppm
2 Ag 328.068	-213.1	207.4	0.0027 mg/L	0.1356 ppm
2 Al 308.215	1063888.2	1063445.7	113.8 mg/L	5688 ppm
2 As 188.979	112.2	122.6	0.0690 mg/L	3.448 ppm
2 Ba 233.527	64468.7	64901.5	0.5931 mg/L	29.66 ppm
2 Be 313.107	-12274.0	-9973.3	-0.0040 mg/L	-0.2013 ppm
2 Ca 227.547	12857.1	12889.4	154.4 mg/L	7721 ppm
2 Cd 228.802	209.9	84.0	0.0020 mg/L	0.1013 ppm
2 Co 228.616	4998.3	4926.8	0.1355 mg/L	6.773 ppm
2 Cr 267.716	32632.3	32695.2	0.7062 mg/L	35.31 ppm
2 Cu 324.754	35104.8	34556.3	0.3199 mg/L	15.99 ppm
2 Fe 273.955	4970393.3	4970572.9	233.4 mg/L	11670 ppm
2 K 766.491	775436.3	769349.1	13.58 mg/L	679.2 ppm
2 Mg 279.079	656028.1	657043.2	67.23 mg/L	3361 ppm
2 Mn 257.610	1305746.9	1309130.1	3.057 mg/L	152.8 ppm
2 Mo 202.030	-109.4	5.0	-0.0058 mg/L	-0.2918 ppm
2 Na 330.237	2178.4	944.4	2.831 mg/L	141.5 ppm
2 Ni 231.604	26390.7	26443.8	0.6574 mg/L	32.87 ppm
2 Pb 220.353	5976.1	5641.5	0.3909 mg/L	19.54 ppm
2 Sb 206.833	49.3	18.5	-0.0108 mg/L	-0.5408 ppm
2 Se 196.026	-117.4	-121.9	0.0050 mg/L	0.2510 ppm
2 Tl 190.800	-47.3	-13.5	-0.0027 mg/L	-0.1368 ppm
2 V 292.402	49602.9	49320.3	0.5073 mg/L	25.37 ppm
2 Zn 213.856	58428.3	58472.0	1.084 mg/L	54.19 ppm
3 Ag 328.068	-304.8	115.7	0.0015 mg/L	0.0757 ppm
3 Al 308.215	1061203.9	1060761.3	113.5 mg/L	5673 ppm
3 As 188.979	129.9	140.2	0.0749 mg/L	3.746 ppm
3 Ba 233.527	63390.5	63823.3	0.5834 mg/L	29.17 ppm
3 Be 313.107	-12202.7	-9901.9	-0.0040 mg/L	-0.1999 ppm
3 Ca 227.547	11398.0	11430.3	136.7 mg/L	6835 ppm
3 Cd 228.802	161.2	35.3	0.0009 mg/L	0.0425 ppm
3 Co 228.616	4659.7	4588.2	0.1262 mg/L	6.308 ppm
3 Cr 267.716	29724.1	29787.0	0.6429 mg/L	32.14 ppm
3 Cu 324.754	35156.1	34607.6	0.3203 mg/L	16.01 ppm
3 Fe 273.955	4949388.2	4949567.8	232.4 mg/L	11620 ppm
3 K 766.491	797799.3	791712.0	13.94 mg/L	697.0 ppm
3 Mg 279.079	648155.8	649170.9	66.42 mg/L	3321 ppm
3 Mn 257.610	1291729.7	1295112.9	3.024 mg/L	151.2 ppm
3 Mo 202.030	-82.5	31.9	-0.0039 mg/L	-0.1925 ppm
3 Na 330.237	2157.4	923.4	2.782 mg/L	139.1 ppm
3 Ni 231.604	24041.1	24094.2	0.5990 mg/L	29.95 ppm
3 Pb 220.353	5639.4	5304.8	0.3677 mg/L	18.38 ppm
3 Sb 206.833	68.1	37.4	-0.0029 mg/L	-0.1452 ppm
3 Se 196.026	-98.1	-102.6	0.0107 mg/L	0.5350 ppm
3 Tl 190.800	-83.9	-50.1	-0.0142 mg/L	-0.7121 ppm
3 V 292.402	49467.5	49184.9	0.5059 mg/L	25.30 ppm
3 Zn 213.856	58347.4	58391.1	1.082 mg/L	54.12 ppm

Mean Data

ID: 2905-1 F=50 Seq. No.: 79 Sample No.: 53 A/S Pos: 62
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 03:10:43 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD %
Ag 328.068	157.2	0.0021	0.00061	mg/L	0.1028	0.03036	ppm	29.54%
Al 308.215	1078026.5	115.3	2.95	mg/L	5766	147.7	ppm	2.56%
As 188.979	140.9	0.0754	0.00668	mg/L	3.770	0.3340	ppm	8.86%
Ba 233.527	65393.5	0.5976	0.01688	mg/L	29.88	0.844	ppm	2.82%
Be 313.107	-10050.5	-0.0041	0.00008	mg/L	-0.2029	0.00401	ppm	1.98%

Ca 227.547	12284.9	147.1	9.24 mg/L	7354	462.1 ppm	6.28%
Cd 228.802	76.5	0.0018	0.00092 mg/L	0.0923	0.04587 ppm	49.71%
Co 228.616	4807.0	0.1322	0.00522 mg/L	6.608	0.2609 ppm	3.95%
Cr 267.716	31621.0	0.6828	0.03477 mg/L	34.14	1.738 ppm	5.09%
Cu 324.754	35153.2	0.3251	0.00871 mg/L	16.25	0.436 ppm	2.68%
Fe 273.955	4962034.4	233.0	0.52 mg/L	11650	25.9 ppm	0.22%
K 766.491	787579.7	13.87	0.263 mg/L	693.7	13.16 ppm	1.90%
Mg 279.079	663051.3	67.84	1.808 mg/L	3392	90.4 ppm	2.66%
Mn 257.610	1323267.3	3.090	0.0871 mg/L	154.5	4.35 ppm	2.82%
Mo 202.030	11.7	-0.0053	0.00132 mg/L	-0.2671	0.06581 ppm	24.64%
Na 330.237	893.2	2.711	0.1665 mg/L	135.6	8.33 ppm	6.14%
Ni 231.604	25478.5	0.6334	0.03057 mg/L	31.67	1.528 ppm	4.83%
Pb 220.353	5535.2	0.3837	0.01389 mg/L	19.19	0.695 ppm	3.62%
Sb 206.833	51.9	0.0027	0.01701 mg/L	0.1347	0.85073 ppm	631.50%
Se 196.026	-125.2	0.0039	0.00735 mg/L	0.1974	0.36747 ppm	186.19%
Tl 190.800	-23.5	-0.0059	0.00731 mg/L	-0.2941	0.36561 ppm	124.31%
V 292.402	49981.7	0.5139	0.01254 mg/L	25.69	0.627 ppm	2.44%
Zn 213.856	59237.0	1.098	0.0262 mg/L	54.91	1.308 ppm	2.38%

Replicate Data

ID: 2905-2 F=50

Date: 04/28/03 03:13:22 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-246.2	174.3	0.0023	mg/L	0.1140	ppm
1	Al 308.215	745693.3	745250.7	79.72	mg/L	3986	ppm
1	As 188.979	81.5	91.9	0.0525	mg/L	2.626	ppm
1	Ba 233.527	51398.9	51831.7	0.4687	mg/L	23.44	ppm
1	Be 313.107	-7577.8	-5277.1	-0.0021	mg/L	-0.1065	ppm
1	Ca 227.547	4283.7	4316.1	52.44	mg/L	2622	ppm
1	Cd 228.802	194.8	68.9	0.0017	mg/L	0.0831	ppm
1	Co 228.616	3924.7	3853.2	0.1059	mg/L	5.297	ppm
1	Cr 267.716	28480.3	28543.2	0.6172	mg/L	30.86	ppm
1	Cu 324.754	21182.9	20634.4	0.1938	mg/L	9.689	ppm
1	Fe 273.955	3823124.8	3823304.5	179.5	mg/L	8975	ppm
1	K 766.491	521308.2	515221.0	9.413	mg/L	470.7	ppm
1	Mg 279.079	533261.9	534277.0	54.67	mg/L	2733	ppm
1	Mn 257.610	1096525.7	1099908.9	2.568	mg/L	128.4	ppm
1	Mo 202.030	-216.0	-101.6	-0.0122	mg/L	-0.6082	ppm
1	Na 330.237	1827.1	593.1	2.010	mg/L	100.5	ppm
1	Ni 231.604	24590.3	24643.4	0.6127	mg/L	30.63	ppm
1	Pb 220.353	5752.7	5418.1	0.3757	mg/L	18.79	ppm
1	Sb 206.833	82.3	51.5	0.0062	mg/L	0.3114	ppm
1	Se 196.026	-81.1	-85.5	0.0064	mg/L	0.3177	ppm
1	Tl 190.800	-102.2	-68.4	-0.0203	mg/L	-1.015	ppm
1	V 292.402	41132.9	40850.3	0.4191	mg/L	20.96	ppm
1	Zn 213.856	69453.8	69497.5	1.294	mg/L	64.68	ppm
2	Ag 328.068	-318.4	102.1	0.0013	mg/L	0.0668	ppm
2	Al 308.215	700435.1	699992.5	74.88	mg/L	3744	ppm
2	As 188.979	52.5	62.9	0.0412	mg/L	2.060	ppm
2	Ba 233.527	48938.6	49371.5	0.4465	mg/L	22.32	ppm
2	Be 313.107	-7168.6	-4867.9	-0.0020	mg/L	-0.0983	ppm
2	Ca 227.547	4315.3	4347.6	52.82	mg/L	2641	ppm
2	Cd 228.802	169.4	43.5	0.0010	mg/L	0.0525	ppm
2	Co 228.616	3828.4	3756.9	0.1033	mg/L	5.165	ppm
2	Cr 267.716	28453.5	28516.4	0.6169	mg/L	30.84	ppm
2	Cu 324.754	20059.6	19511.1	0.1832	mg/L	9.162	ppm
2	Fe 273.955	3621245.3	3621425.0	170.0	mg/L	8502	ppm
2	K 766.491	491530.1	485442.8	8.908	mg/L	445.4	ppm
2	Mg 279.079	504926.3	505941.4	51.77	mg/L	2588	ppm
2	Mn 257.610	1035260.4	1038643.7	2.425	mg/L	121.3	ppm
2	Mo 202.030	-122.0	-7.6	-0.0051	mg/L	-0.2535	ppm
2	Na 330.237	1827.1	593.1	2.010	mg/L	100.5	ppm
2	Ni 231.604	24577.4	24630.5	0.6124	mg/L	30.62	ppm
2	Pb 220.353	5696.6	5362.0	0.3718	mg/L	18.59	ppm
2	Sb 206.833	58.0	27.3	-0.0029	mg/L	-0.1438	ppm
2	Se 196.026	-79.2	-83.6	0.0052	mg/L	0.2610	ppm
2	Tl 190.800	-62.3	-28.5	-0.0078	mg/L	-0.3907	ppm
2	V 292.402	39141.8	38859.2	0.3986	mg/L	19.93	ppm
2	Zn 213.856	65437.6	65481.3	1.219	mg/L	60.94	ppm

3 Ag 328.068	-545.6	-125.1	-0.0016 mg/L	-0.0818 ppm
3 Al 308.215	736810.6	736368.1	78.77 mg/L	3938 ppm
3 As 188.979	127.3	137.7	0.0687 mg/L	3.437 ppm
3 Ba 233.527	50686.6	51119.5	0.4623 mg/L	23.11 ppm
3 Be 313.107	-7684.1	-5383.3	-0.0022 mg/L	-0.1087 ppm
3 Ca 227.547	4215.0	4247.3	51.60 mg/L	2580 ppm
3 Cd 228.802	223.2	97.3	0.0023 mg/L	0.1173 ppm
3 Co 228.616	3876.8	3805.3	0.1046 mg/L	5.231 ppm
3 Cr 267.716	27975.8	28038.7	0.6062 mg/L	30.31 ppm
3 Cu 324.754	21201.4	20652.9	0.1938 mg/L	9.690 ppm
3 Fe 273.955	3779008.5	3779188.2	177.4 mg/L	8872 ppm
3 K 766.491	526202.5	520115.3	9.496 mg/L	474.8 ppm
3 Mg 279.079	526183.8	527198.9	53.94 mg/L	2697 ppm
3 Mn 257.610	1081607.4	1084990.6	2.533 mg/L	126.7 ppm
3 Mo 202.030	-181.9	-67.5	-0.0096 mg/L	-0.4815 ppm
3 Na 330.237	1662.3	428.3	1.625 mg/L	81.25 ppm
3 Ni 231.604	24121.3	24174.4	0.6010 mg/L	30.05 ppm
3 Pb 220.353	5618.9	5284.4	0.3665 mg/L	18.32 ppm
3 Sb 206.833	75.6	44.8	0.0037 mg/L	0.1861 ppm
3 Se 196.026	-37.5	-42.0	0.0192 mg/L	0.9598 ppm
3 Tl 190.800	-60.3	-26.5	-0.0071 mg/L	-0.3563 ppm
3 V 292.402	41152.5	40869.9	0.4191 mg/L	20.96 ppm
3 Zn 213.856	68952.7	68996.4	1.284 mg/L	64.21 ppm

Mean Data

ID: 2905-2 F=50 Seq. No.: 80 Sample No.: 54 A/S Pos: 63
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0:50.0
 Data: Original Date: 04/28/03 03:13:22 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	50.4	0.0007	0.00204	mg/L	0.0330	0.10219	ppm	309.83%
Al 308.215	727203.8	77.79	2.565	mg/L	3889	128.3	ppm	3.30%
As 188.979	97.5	0.0542	0.01384	mg/L	2.708	0.6922	ppm	25.56%
Ba 233.527	50774.2	0.4592	0.01145	mg/L	22.96	0.572	ppm	2.49%
Be 313.107	-5176.1	-0.0021	0.00011	mg/L	-0.1045	0.00549	ppm	5.26%
Ca 227.547	4303.7	52.29	0.623	mg/L	2614	31.1	ppm	1.19%
Cd 228.802	69.9	0.0017	0.00065	mg/L	0.0843	0.03245	ppm	38.49%
Co 228.616	3805.2	0.1046	0.00132	mg/L	5.231	0.0662	ppm	1.27%
Cr 267.716	28366.1	0.6134	0.00622	mg/L	30.67	0.311	ppm	1.01%
Cu 324.754	20266.1	0.1903	0.00608	mg/L	9.514	0.3042	ppm	3.20%
Fe 273.955	3741305.9	175.7	4.98	mg/L	8783	249.2	ppm	2.84%
K 766.491	506926.4	9.273	0.3183	mg/L	463.6	15.92	ppm	3.43%
Mg 279.079	522472.4	53.46	1.509	mg/L	2673	75.4	ppm	2.82%
Mn 257.610	1074514.4	2.509	0.0746	mg/L	125.4	3.73	ppm	2.97%
Mo 202.030	-58.9	-0.0090	0.00360	mg/L	-0.4477	0.17975	ppm	40.15%
Na 330.237	538.2	1.882	0.2225	mg/L	94.10	11.126	ppm	11.82%
Ni 231.604	24482.8	0.6087	0.00664	mg/L	30.43	0.332	ppm	1.09%
Pb 220.353	5354.8	0.3713	0.00465	mg/L	18.57	0.233	ppm	1.25%
Sb 206.833	41.2	0.0024	0.00470	mg/L	-0.1179	0.23515	ppm	199.44%
Se 196.026	-70.4	0.0103	0.00776	mg/L	0.5129	0.38812	ppm	75.68%
Tl 190.800	-41.1	-0.0117	0.00741	mg/L	-0.5873	0.37066	ppm	63.11%
V 292.402	40193.2	0.4123	0.01184	mg/L	20.61	0.592	ppm	2.87%
Zn 213.856	67991.7	1.266	0.0408	mg/L	63.28	2.039	ppm	3.22%

Replicate Data

ID: 2905-3 F=50 Date: 04/28/03 03:15:54 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-289.3	131.2	0.0017	mg/L	0.0858	ppm
1 Al 308.215	756509.0	756066.5	80.88	mg/L	4044	ppm
1 As 188.979	197.9	208.2	0.0993	mg/L	4.966	ppm
1 Ba 233.527	12143.1	12576.0	0.1198	mg/L	5.992	ppm
1 Be 313.107	-10628.6	-8327.9	-0.0034	mg/L	-0.1681	ppm
1 Ca 227.547	9078.6	9111.0	108.5	mg/L	5427	ppm
1 Cd 228.802	72.7	-53.2	-0.0013	mg/L	-0.0642	ppm
1 Co 228.616	4557.3	4485.8	0.1233	mg/L	6.167	ppm
1 Cr 267.716	31881.4	31944.3	0.6900	mg/L	34.50	ppm
1 Cu 324.754	8087.5	7539.0	0.0821	mg/L	4.105	ppm
1 Fe 273.955	4888330.7	4888510.4	229.5	mg/L	11480	ppm
1 K 766.491	461041.8	454954.5	8.387	mg/L	419.3	ppm

1 Mg	279.079	896763.1	897778.2	91.86 mg/L	4593 ppm
1 Mn	257.610	1399496.8	1402880.0	3.276 mg/L	163.8 ppm
1 Mo	202.030	-112.6	1.8	-0.0060 mg/L	-0.2982 ppm
1 Na	330.237	1066.1	-167.9	0.2290 mg/L	11.45 ppm
1 Ni	231.604	24754.8	24807.9	0.6168 mg/L	30.84 ppm
1 Pb	220.353	1293.6	959.1	0.0652 mg/L	3.259 ppm
1 Sb	206.833	124.9	94.1	0.0198 mg/L	0.9876 ppm
1 Se	196.026	-71.2	-75.6	0.0184 mg/L	0.9177 ppm
1 Tl	190.800	-69.3	-35.5	-0.0093 mg/L	-0.4629 ppm
1 V	292.402	35244.0	34961.4	0.3648 mg/L	18.24 ppm
1 Zn	213.856	19168.0	19211.7	0.3478 mg/L	17.39 ppm
2 Ag	328.068	-205.5	215.0	0.0028 mg/L	0.1406 ppm
2 Al	308.215	784835.3	784392.7	83.91 mg/L	4195 ppm
2 As	188.979	218.5	228.8	0.1061 mg/L	5.307 ppm
2 Ba	233.527	12156.0	12588.9	0.1198 mg/L	5.988 ppm
2 Be	313.107	-10967.3	-8666.6	-0.0035 mg/L	-0.1750 ppm
2 Ca	227.547	9089.9	9122.2	108.8 mg/L	5438 ppm
2 Cd	228.802	74.0	-51.9	-0.0013 mg/L	-0.0626 ppm
2 Co	228.616	4587.5	4516.0	0.1242 mg/L	6.208 ppm
2 Cr	267.716	33004.1	33067.0	0.7146 mg/L	35.73 ppm
2 Cu	324.754	8305.8	7757.3	0.0835 mg/L	4.175 ppm
2 Fe	273.955	4727161.4	4727341.1	222.0 mg/L	11100 ppm
2 K	766.491	494608.6	488521.3	8.960 mg/L	448.0 ppm
2 Mg	279.079	920226.0	921241.1	94.26 mg/L	4713 ppm
2 Mn	257.610	1438464.3	1441847.5	3.367 mg/L	168.3 ppm
2 Mo	202.030	-172.5	-58.1	-0.0101 mg/L	-0.5064 ppm
2 Na	330.237	865.6	-368.5	-0.2413 mg/L	-12.07 ppm
2 Ni	231.604	24782.8	24835.9	0.6175 mg/L	30.87 ppm
2 Pb	220.353	1014.4	679.8	0.0463 mg/L	2.317 ppm
2 Sb	206.833	50.8	20.1	-0.0095 mg/L	-0.4761 ppm
2 Se	196.026	-105.6	-110.0	0.0066 mg/L	0.3275 ppm
2 Tl	190.800	-41.9	-8.0	-0.0006 mg/L	-0.0301 ppm
2 V	292.402	36669.6	36387.0	0.3783 mg/L	18.91 ppm
2 Zn	213.856	19059.5	19103.2	0.3462 mg/L	17.31 ppm
3 Ag	328.068	-157.5	263.0	0.0034 mg/L	0.1720 ppm
3 Al	308.215	787966.6	787524.0	84.24 mg/L	4212 ppm
3 As	188.979	188.6	199.0	0.0961 mg/L	4.807 ppm
3 Ba	233.527	12108.6	12541.5	0.1195 mg/L	5.976 ppm
3 Be	313.107	-10883.2	-8582.4	-0.0035 mg/L	-0.1733 ppm
3 Ca	227.547	9117.7	9150.1	109.0 mg/L	5451 ppm
3 Cd	228.802	109.9	-16.0	-0.0004 mg/L	-0.0193 ppm
3 Co	228.616	4677.1	4605.6	0.1266 mg/L	6.332 ppm
3 Cr	267.716	33066.0	33128.9	0.7158 mg/L	35.79 ppm
3 Cu	324.754	8464.6	7916.1	0.0854 mg/L	4.271 ppm
3 Fe	273.955	4891717.2	4891896.8	229.7 mg/L	11480 ppm
3 K	766.491	503840.6	497753.3	9.117 mg/L	455.9 ppm
3 Mg	279.079	920281.5	921296.6	94.26 mg/L	4713 ppm
3 Mn	257.610	1437366.3	1440749.5	3.364 mg/L	168.2 ppm
3 Mo	202.030	-163.0	-48.6	-0.0096 mg/L	-0.4819 ppm
3 Na	330.237	936.6	-297.4	-0.0747 mg/L	-3.736 ppm
3 Ni	231.604	25052.5	25105.6	0.6242 mg/L	31.21 ppm
3 Pb	220.353	1260.3	925.7	0.0631 mg/L	3.157 ppm
3 Sb	206.833	27.9	-2.8	-0.0192 mg/L	-0.9586 ppm
3 Se	196.026	-120.9	-125.4	0.0033 mg/L	0.1644 ppm
3 Tl	190.800	-56.7	-22.9	-0.0052 mg/L	-0.2619 ppm
3 V	292.402	36936.0	36653.4	0.3815 mg/L	19.08 ppm
3 Zn	213.856	19312.9	19356.6	0.3505 mg/L	17.53 ppm

Mean Data

ID: 2905-3 F=50

Sample Qty: 1.0000 mL

Seq. No.: 81

Prep. Vol.: 1.0 mL

Data: Original

Sample No.: 55

1.0 mL

A/S Pos: 64

Dilution:

1.0: 50.0

Date: 04/28/03

03:15:54 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD %
Ag 328.068	203.1	0.0027	0.00087	mg/L	0.1328	0.04362	ppm	32.85%
Al 308.215	775994.4	83.01	1.854	mg/L	4150	92.7	ppm	2.23%
As 188.979	212.0	0.1005	0.00511	mg/L	5.027	0.2557	ppm	5.09%
Ba 233.527	12568.8	0.1197	0.00016	mg/L	5.985	0.0080	ppm	0.13%
Be 313.107	-8525.6	-0.0034	0.00007	mg/L	-0.1721	0.00356	ppm	2.07%
Ca 227.547	9127.8	108.8	0.24	mg/L	5438	11.9	ppm	0.22%

Cd 228.802	-40.4	-0.0010	0.00051 mg/L	-0.0487	0.02550 ppm	52.36%
Co 228.616	4535.8	0.1247	0.00171 mg/L	6.236	0.0856 ppm	1.37%
Cr 267.716	32713.4	0.7068	0.01458 mg/L	35.34	0.729 ppm	2.06%
Cu 324.754	7737.5	0.0837	0.00167 mg/L	4.184	0.0835 ppm	2.00%
Fe 273.955	4835916.1	227.1	4.42 mg/L	11350	220.8 ppm	1.94%
K 766.491	480409.7	8.822	0.3846 mg/L	441.1	19.23 ppm	4.36%
Mg 279.079	913438.6	93.46	1.388 mg/L	4673	69.4 ppm	1.48%
Mn 257.610	1428492.4	3.335	0.0518 mg/L	166.8	2.59 ppm	1.55%
Mo 202.030	-35.0	-0.0086	0.00228 mg/L	-0.4288	0.11378 ppm	26.53%
Na 330.237	-277.9	-0.0290	0.23850 mg/L	-1.450	11.9252 ppm	822.19%
Ni 231.604	24916.5	0.6195	0.00409 mg/L	30.97	0.204 ppm	0.66%
Pb 220.353	854.9	0.0582	0.01034 mg/L	2.911	0.5171 ppm	17.77%
Sb 206.833	37.1	-0.0030	0.02027 mg/L	-0.1490	1.01350 ppm	680.05%
Se 196.026	-103.7	0.0094	0.00793 mg/L	0.4699	0.39632 ppm	84.34%
Tl 190.800	-22.2	-0.0050	0.00433 mg/L	-0.2516	0.21658 ppm	86.07%
V 292.402	36000.6	0.3749	0.00890 mg/L	18.74	0.445 ppm	2.37%
Zn 213.856	19223.8	0.3482	0.00219 mg/L	17.41	0.109 ppm	0.63%

Replicate Data
ID: 2905-4 F=50

Date: 04/28/03 03:18:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-304.8	115.7	0.0015 mg/L	0.0757 ppm
1	Al 308.215	597822.6	597380.0	63.90 mg/L	3195 ppm
1	As 188.979	204.8	215.1	0.0986 mg/L	4.931 ppm
1	Ba 233.527	24700.2	25133.1	0.2328 mg/L	11.64 ppm
1	Be 313.107	-6774.8	-4474.1	-0.0018 mg/L	-0.0903 ppm
1	Ca 227.547	9726.3	9758.6	118.6 mg/L	5928 ppm
1	Cd 228.802	110.8	-15.1	-0.0004 mg/L	-0.0182 ppm
1	Co 228.616	4245.8	4174.3	0.1148 mg/L	5.739 ppm
1	Cr 267.716	20815.0	20877.9	0.4494 mg/L	22.47 ppm
1	Cu 324.754	5578.5	5030.0	0.0585 mg/L	2.925 ppm
1	Fe 273.955	4410728.2	4410907.9	207.1 mg/L	10350 ppm
1	K 766.491	609410.0	603322.8	10.89 mg/L	544.4 ppm
1	Mg 279.079	623767.5	624782.6	63.93 mg/L	3196 ppm
1	Mn 257.610	1556828.3	1560211.5	3.643 mg/L	182.1 ppm
1	Mo 202.030	-120.5	-6.1	-0.0059 mg/L	-0.2974 ppm
1	Na 330.237	1457.7	223.7	1.146 mg/L	57.32 ppm
1	Ni 231.604	20154.5	20207.5	0.5024 mg/L	25.12 ppm
1	Pb 220.353	1103.5	769.0	0.0514 mg/L	2.570 ppm
1	Sb 206.833	107.1	76.4	0.0153 mg/L	0.7637 ppm
1	Se 196.026	-94.6	-99.1	0.0072 mg/L	0.3599 ppm
1	Tl 190.800	-31.7	2.1	0.0013 mg/L	0.0647 ppm
1	V 292.402	31489.8	31207.2	0.3258 mg/L	16.29 ppm
1	Zn 213.856	18336.0	18379.7	0.3334 mg/L	16.67 ppm
2	Ag 328.068	-299.2	121.3	0.0016 mg/L	0.0793 ppm
2	Al 308.215	582997.6	582555.1	62.32 mg/L	3116 ppm
2	As 188.979	257.0	267.4	0.1173 mg/L	5.864 ppm
2	Ba 233.527	25277.7	25710.5	0.2380 mg/L	11.90 ppm
2	Be 313.107	-6985.6	-4684.9	-0.0019 mg/L	-0.0946 ppm
2	Ca 227.547	10006.8	10039.1	122.0 mg/L	6099 ppm
2	Cd 228.802	71.0	-54.9	-0.0013 mg/L	-0.0663 ppm
2	Co 228.616	4333.0	4261.5	0.1172 mg/L	5.859 ppm
2	Cr 267.716	21364.1	21427.0	0.4614 mg/L	23.07 ppm
2	Cu 324.754	5487.8	4939.3	0.0576 mg/L	2.879 ppm
2	Fe 273.955	4370283.6	4370463.3	205.2 mg/L	10260 ppm
2	K 766.491	609224.8	603137.5	10.88 mg/L	544.2 ppm
2	Mg 279.079	611593.4	612608.5	62.68 mg/L	3134 ppm
2	Mn 257.610	1520263.0	1523646.2	3.558 mg/L	177.9 ppm
2	Mo 202.030	-109.8	4.6	-0.0051 mg/L	-0.2560 ppm
2	Na 330.237	1393.0	159.0	0.9948 mg/L	49.74 ppm
2	Ni 231.604	20834.8	20887.9	0.5193 mg/L	25.97 ppm
2	Pb 220.353	1248.2	913.6	0.0614 mg/L	3.068 ppm
2	Sb 206.833	130.3	99.5	0.0246 mg/L	1.229 ppm
2	Se 196.026	-74.3	-78.7	0.0130 mg/L	0.6518 ppm
2	Tl 190.800	-69.7	-35.9	-0.0107 mg/L	-0.5325 ppm
2	V 292.402	30769.3	30486.7	0.3185 mg/L	15.92 ppm
2	Zn 213.856	19030.0	19073.7	0.3466 mg/L	17.33 ppm
3	Ag 328.068	-457.6	-37.1	-0.0005 mg/L	-0.0243 ppm

3 Al 308.215	587606.5	587163.9	62.81 mg/L	3140 ppm
3 As 188.979	179.6	190.0	0.0892 mg/L	4.462 ppm
3 Ba 233.527	23649.9	24082.8	0.2232 mg/L	11.16 ppm
3 Be 313.107	-6952.3	-4651.6	-0.0019 mg/L	-0.0939 ppm
3 Ca 227.547	9322.1	9354.4	113.7 mg/L	5683 ppm
3 Cd 228.802	109.3	-16.6	-0.0004 mg/L	-0.0201 ppm
3 Co 228.616	4144.4	4072.9	0.1120 mg/L	5.599 ppm
3 Cr 267.716	20161.0	20223.9	0.4352 mg/L	21.76 ppm
3 Cu 324.754	5688.3	5139.8	0.0593 mg/L	2.963 ppm
3 Fe 273.955	4349799.9	4349979.6	204.2 mg/L	10210 ppm
3 K 766.491	625636.3	619549.0	11.16 mg/L	557.8 ppm
3 Mg 279.079	610228.0	611243.1	62.54 mg/L	3127 ppm
3 Mn 257.610	1524372.0	1527755.2	3.567 mg/L	178.4 ppm
3 Mo 202.030	-70.3	44.1	-0.0022 mg/L	-0.1107 ppm
3 Na 330.237	1239.4	5.4	0.6351 mg/L	31.75 ppm
3 Ni 231.604	19735.1	19788.2	0.4920 mg/L	24.60 ppm
3 Pb 220.353	1176.7	842.2	0.0565 mg/L	2.824 ppm
3 Sb 206.833	56.9	26.2	-0.0046 mg/L	-0.2280 ppm
3 Se 196.026	-76.8	-81.3	0.0121 mg/L	0.6046 ppm
3 Tl 190.800	-21.5	12.3	0.0045 mg/L	0.2256 ppm
3 V 292.402	30858.4	30575.8	0.3193 mg/L	15.96 ppm
3 Zn 213.856	18034.9	18078.6	0.3279 mg/L	16.40 ppm

Mean Data

ID: 2905-4 F=50 Seq. No.: 82 Sample No.: 56 A/S Pos: 65
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0:50.0
 Data: Original Date: 04/28/03 03:18:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	66.6	0.0009	0.00118	mg/L	0.0436	0.05878	ppm	134.88%
Al 308.215	589033.0	63.01	0.812	mg/L	3150	40.6	ppm	1.29%
As 188.979	224.2	0.1017	0.01428	mg/L	5.086	0.7138	ppm	14.03%
Ba 233.527	24975.5	0.2313	0.00748	mg/L	11.57	0.374	ppm	3.23%
Be 313.107	-4603.5	-0.0019	0.00005	mg/L	-0.0929	0.00229	ppm	2.46%
Ca 227.547	9717.4	118.1	4.18	mg/L	5903	209.1	ppm	3.54%
Cd 228.802	-28.9	-0.0007	0.00054	mg/L	-0.0348	0.02722	ppm	78.12%
Co 228.616	4169.6	0.1146	0.00260	mg/L	5.732	0.1298	ppm	2.26%
Cr 267.716	20842.9	0.4487	0.01311	mg/L	22.43	0.656	ppm	2.92%
Cu 324.754	5036.4	0.0584	0.00085	mg/L	2.922	0.0425	ppm	1.45%
Fe 273.955	4377116.9	205.5	1.46	mg/L	10280	72.8	ppm	0.71%
K 766.491	608669.8	10.98	0.156	mg/L	548.8	7.78	ppm	1.42%
Mg 279.079	616211.4	63.05	0.763	mg/L	3152	38.1	ppm	1.21%
Mn 257.610	1537204.3	3.589	0.0468	mg/L	179.5	2.34	ppm	1.30%
Mo 202.030	14.2	-0.0044	0.00196	mg/L	-0.2214	0.09804	ppm	44.29%
Na 330.237	129.3	0.9254	0.26259	mg/L	46.27	13.130	ppm	28.38%
Ni 231.604	20294.5	0.5046	0.01380	mg/L	25.23	0.690	ppm	2.73%
Pb 220.353	841.6	0.0564	0.00498	mg/L	2.821	0.2490	ppm	8.83%
Sb 206.833	67.4	0.0118	0.01489	mg/L	0.5883	0.74430	ppm	126.52%
Se 196.026	-86.4	0.0108	0.00313	mg/L	0.5387	0.15670	ppm	29.09%
Tl 190.800	-7.2	-0.0016	0.00799	mg/L	-0.0807	0.39945	ppm	494.72%
V 292.402	30756.6	0.3212	0.00400	mg/L	16.06	0.200	ppm	1.24%
Zn 213.856	18510.7	0.3360	0.00956	mg/L	16.80	0.478	ppm	2.85%

Replicate Data

ID: 2905-5 F=50 Date: 04/28/03 03:21:08 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-31.8	388.7	0.0051	mg/L	0.2542	ppm
1 Al 308.215	717855.6	717413.1	76.74	mg/L	3837	ppm
1 As 188.979	74.0	84.3	0.0475	mg/L	2.377	ppm
1 Ba 233.527	54466.6	54899.5	0.4965	mg/L	24.82	ppm
1 Be 313.107	-8347.3	-6046.6	-0.0024	mg/L	-0.1221	ppm
1 Ca 227.547	24566.5	24598.8	298.9	mg/L	14940	ppm
1 Cd 228.802	96.2	-29.7	-0.0007	mg/L	-0.0358	ppm
1 Co 228.616	3418.5	3347.0	0.0920	mg/L	4.601	ppm
1 Cr 267.716	19369.6	19432.5	0.4185	mg/L	20.92	ppm
1 Cu 324.754	14339.7	13791.2	0.1341	mg/L	6.703	ppm
1 Fe 273.955	3961594.6	3961774.3	186.0	mg/L	9300	ppm
1 K 766.491	676685.5	670598.2	11.99	mg/L	599.6	ppm
1 Mg 279.079	638446.4	639461.5	65.43	mg/L	3271	ppm

1 Mn 257.610	1372531.0	1375914.3	3.213 mg/L	160.6 ppm
1 Mo 202.030	-102.8	11.6	-0.0041 mg/L	-0.2048 ppm
1 Na 330.237	1041.9	-192.1	0.1723 mg/L	8.615 ppm
1 Ni 231.604	23991.4	24044.5	0.5978 mg/L	29.89 ppm
1 Pb 220.353	1834.6	1500.1	0.1014 mg/L	5.070 ppm
1 Sb 206.833	66.0	35.2	0.0003 mg/L	0.0140 ppm
1 Se 196.026	-61.4	-65.9	0.0135 mg/L	0.6743 ppm
1 Tl 190.800	-60.8	-27.0	-0.0082 mg/L	-0.4103 ppm
1 V 292.402	39227.3	38944.7	0.4007 mg/L	20.04 ppm
1 Zn 213.856	24765.9	24809.6	0.4552 mg/L	22.76 ppm
2 Ag 328.068	3.1	423.6	0.0055 mg/L	0.2770 ppm
2 Al 308.215	729604.8	729162.2	78.00 mg/L	3900 ppm
2 As 188.979	65.7	76.1	0.0484 mg/L	2.422 ppm
2 Ba 233.527	54866.9	55299.8	0.5001 mg/L	25.00 ppm
2 Be 313.107	-8526.5	-6225.8	-0.0025 mg/L	-0.1257 ppm
2 Ca 227.547	26909.2	26941.5	327.3 mg/L	16370 ppm
2 Cd 228.802	60.5	-65.4	-0.0016 mg/L	-0.0789 ppm
2 Co 228.616	3735.6	3664.1	0.1007 mg/L	5.037 ppm
2 Cr 267.716	20740.3	20803.2	0.4484 mg/L	22.42 ppm
2 Cu 324.754	14699.7	14151.2	0.1370 mg/L	6.849 ppm
2 Fe 273.955	3886837.4	3887017.1	182.5 mg/L	9125 ppm
2 K 766.491	719023.2	712935.9	12.68 mg/L	634.0 ppm
2 Mg 279.079	640806.8	641821.9	65.67 mg/L	3283 ppm
2 Mn 257.610	1386503.4	1389886.7	3.245 mg/L	162.3 ppm
2 Mo 202.030	-46.6	67.8	0.0001 mg/L	0.0041 ppm
2 Na 330.237	747.5	-486.6	-0.5185 mg/L	-25.92 ppm
2 Ni 231.604	25634.5	25687.5	0.6386 mg/L	31.93 ppm
2 Pb 220.353	1836.8	1502.3	0.1015 mg/L	5.077 ppm
2 Sb 206.833	47.2	16.4	-0.0072 mg/L	-0.3582 ppm
2 Se 196.026	-85.9	-90.3	0.0054 mg/L	0.2716 ppm
2 Tl 190.800	-30.9	2.9	0.0011 mg/L	0.0555 ppm
2 V 292.402	39941.4	39658.8	0.4075 mg/L	20.38 ppm
2 Zn 213.856	26781.6	26825.3	0.4932 mg/L	24.66 ppm
3 Ag 328.068	-214.3	206.2	0.0027 mg/L	0.1348 ppm
3 Al 308.215	744633.6	744191.0	79.61 mg/L	3980 ppm
3 As 188.979	93.5	103.8	0.0597 mg/L	2.985 ppm
3 Ba 233.527	55496.0	55928.8	0.5109 mg/L	25.55 ppm
3 Be 313.107	-8663.8	-6363.1	-0.0026 mg/L	-0.1285 ppm
3 Ca 227.547	28309.2	28341.6	344.3 mg/L	17220 ppm
3 Cd 228.802	93.8	-32.1	-0.0008 mg/L	-0.0387 ppm
3 Co 228.616	3887.8	3816.3	0.1049 mg/L	5.247 ppm
3 Cr 267.716	21827.9	21890.8	0.4718 mg/L	23.59 ppm
3 Cu 324.754	15059.1	14510.6	0.1409 mg/L	7.047 ppm
3 Fe 273.955	4132606.2	4132785.8	194.0 mg/L	9702 ppm
3 K 766.491	730094.6	724007.3	12.86 mg/L	642.9 ppm
3 Mg 279.079	649394.1	650409.2	66.55 mg/L	3327 ppm
3 Mn 257.610	1406099.0	1409482.2	3.291 mg/L	164.6 ppm
3 Mo 202.030	-83.5	30.9	-0.0029 mg/L	-0.1452 ppm
3 Na 330.237	1145.3	-88.8	0.4145 mg/L	20.72 ppm
3 Ni 231.604	26708.7	26761.8	0.6653 mg/L	33.27 ppm
3 Pb 220.353	1871.6	1537.1	0.1036 mg/L	5.178 ppm
3 Sb 206.833	70.3	39.5	0.0012 mg/L	0.0613 ppm
3 Se 196.026	-117.0	-121.5	-0.0019 mg/L	-0.0972 ppm
3 Tl 190.800	-51.3	-17.5	-0.0053 mg/L	-0.2650 ppm
3 V 292.402	40630.7	40348.1	0.4153 mg/L	20.76 ppm
3 Zn 213.856	27997.6	28041.3	0.5153 mg/L	25.77 ppm

Mean Data

ID: 2905-5 F=50 Seq. No.: 83 Sample No.: 57 A/S Pos: 66
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0:50.0
 Data: Original Date: 04/28/03 03:21:08 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	339.5	0.0044	0.00153	mg/L	0.2220	0.07636	ppm	34.40%
Al 308.215	730255.4	78.11	1.436	mg/L	3906	71.8	ppm	1.84%
As 188.979	88.1	0.0519	0.00678	mg/L	2.595	0.3389	ppm	13.06%
Ba 233.527	55376.0	0.5025	0.00753	mg/L	25.13	0.377	ppm	1.50%
Be 313.107	-6211.8	-0.0025	0.00006	mg/L	-0.1254	0.00320	ppm	2.55%
Ca 227.547	26627.3	323.5	22.98	mg/L	16180	1148.8	ppm	7.10%
Cd 228.802	-42.4	-0.0010	0.00048	mg/L	-0.0511	0.02410	ppm	47.15%

Co 228.616	3609.1	0.0992	0.00658 mg/L	4.962	0.3292 ppm	6.63%
Cr 267.716	20708.8	0.4462	0.02675 mg/L	22.31	1.337 ppm	5.99%
Cu 324.754	14151.0	0.1373	0.00345 mg/L	6.867	0.1726 ppm	2.51%
Fe 273.955	3993859.1	187.5	5.91 mg/L	9375	295.7 ppm	3.15%
K 766.491	702513.8	12.51	0.457 mg/L	625.5	22.84 ppm	3.65%
Mg 279.079	643897.5	65.88	0.589 mg/L	3294	29.5 ppm	0.89%
Mn 257.610	1391761.1	3.250	0.0394 mg/L	162.5	1.97 ppm	1.21%
Mo 202.030	36.8	-0.0023	0.00215 mg/L	-0.1153	0.10764 ppm	93.36%
Na 330.237	-255.8	0.0228	0.48413 mg/L	1.139	24.2065 ppm	>999.9%
Ni 231.604	25497.9	0.6339	0.03402 mg/L	31.70	1.701 ppm	5.37%
Pb 220.353	1513.2	0.1022	0.00121 mg/L	5.109	0.0603 ppm	1.18%
Sb 206.833	30.4	-0.0019	0.00460 mg/L	-0.0943	0.22976 ppm	243.64%
Se 196.026	-92.6	0.0057	0.00772 mg/L	0.2829	0.38589 ppm	136.39%
Tl 190.800	-13.9	-0.0041	0.00477 mg/L	-0.2066	0.23834 ppm	115.37%
V 292.402	39650.5	0.4079	0.00728 mg/L	20.39	0.364 ppm	1.78%
Zn 213.856	26558.7	0.4879	0.03043 mg/L	24.39	1.521 ppm	6.24%

Replicate Data
ID: 2905-6 F=50

Date: 04/28/03 03:23:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-571.8	-151.3	-0.0020	mg/L	-0.0989	ppm
1	Al 308.215	731145.7	730703.1	78.16	mg/L	3908	ppm
1	As 188.979	32.5	42.9	0.0332	mg/L	1.658	ppm
1	Ba 233.527	48647.9	49080.8	0.4439	mg/L	22.19	ppm
1	Be 313.107	-11141.2	-8840.5	-0.0036	mg/L	-0.1785	ppm
1	Ca 227.547	5660.4	5692.7	69.16	mg/L	3458	ppm
1	Cd 228.802	151.7	25.8	0.0006	mg/L	0.0311	ppm
1	Co 228.616	3358.2	3286.7	0.0904	mg/L	4.518	ppm
1	Cr 267.716	29031.3	29094.2	0.6297	mg/L	31.49	ppm
1	Cu 324.754	10749.8	10201.3	0.1007	mg/L	5.036	ppm
1	Fe 273.955	3409346.1	3409525.8	160.1	mg/L	8004	ppm
1	K 766.491	432974.4	426887.1	7.903	mg/L	395.2	ppm
1	Mg 279.079	437469.8	438484.9	44.86	mg/L	2243	ppm
1	Mn 257.610	835650.4	839033.7	1.959	mg/L	97.95	ppm
1	Mo 202.030	-179.9	-65.5	-0.0090	mg/L	-0.4510	ppm
1	Na 330.237	631.9	-602.2	-0.7898	mg/L	-39.49	ppm
1	Ni 231.604	20242.1	20295.2	0.5046	mg/L	25.23	ppm
1	Pb 220.353	875.7	541.2	0.0384	mg/L	1.918	ppm
1	Sb 206.833	44.6	13.9	-0.0077	mg/L	-0.3839	ppm
1	Se 196.026	-84.1	-88.5	0.0019	mg/L	0.0970	ppm
1	Tl 190.800	-64.8	-31.0	-0.0091	mg/L	-0.4569	ppm
1	V 292.402	38332.6	38050.0	0.3898	mg/L	19.49	ppm
1	Zn 213.856	16178.5	16222.2	0.2955	mg/L	14.78	ppm
2	Ag 328.068	-309.6	110.9	0.0015	mg/L	0.0725	ppm
2	Al 308.215	720784.9	720342.4	77.05	mg/L	3853	ppm
2	As 188.979	-3.3	7.0	0.0201	mg/L	1.006	ppm
2	Ba 233.527	47855.9	48288.7	0.4367	mg/L	21.83	ppm
2	Be 313.107	-11041.7	-8740.9	-0.0035	mg/L	-0.1765	ppm
2	Ca 227.547	6037.6	6070.0	73.75	mg/L	3687	ppm
2	Cd 228.802	145.1	19.2	0.0005	mg/L	0.0231	ppm
2	Co 228.616	3483.1	3411.7	0.0938	mg/L	4.690	ppm
2	Cr 267.716	30114.4	30177.3	0.6534	mg/L	32.67	ppm
2	Cu 324.754	10609.2	10060.7	0.0993	mg/L	4.964	ppm
2	Fe 273.955	3349715.6	3349895.2	157.3	mg/L	7864	ppm
2	K 766.491	434629.9	428542.6	7.932	mg/L	396.6	ppm
2	Mg 279.079	428458.7	429473.8	43.94	mg/L	2197	ppm
2	Mn 257.610	819205.9	822589.1	1.921	mg/L	96.03	ppm
2	Mo 202.030	-133.7	-19.3	-0.0056	mg/L	-0.2792	ppm
2	Na 330.237	702.8	-531.2	-0.6233	mg/L	-31.16	ppm
2	Ni 231.604	21079.7	21132.8	0.5254	mg/L	26.27	ppm
2	Pb 220.353	747.7	413.2	0.0295	mg/L	1.475	ppm
2	Sb 206.833	68.1	37.3	0.0018	mg/L	0.0880	ppm
2	Se 196.026	-56.6	-61.1	0.0098	mg/L	0.4889	ppm
2	Tl 190.800	-85.1	-51.3	-0.0155	mg/L	-0.7759	ppm
2	V 292.402	37929.3	37646.7	0.3856	mg/L	19.28	ppm
2	Zn 213.856	16776.2	16819.9	0.3069	mg/L	15.34	ppm
3	Ag 328.068	-362.7	57.8	0.0008	mg/L	0.0378	ppm
3	Al 308.215	712755.8	712313.2	76.20	mg/L	3810	ppm

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3 As 188.979	69.6	79.9	0.0462 mg/L	2.312 ppm
3 Ba 233.527	47503.2	47936.0	0.4335 mg/L	21.67 ppm
3 Be 313.107	-11037.8	-8737.1	-0.0035 mg/L	-0.1764 ppm
3 Ca 227.547	6056.1	6088.4	73.97 mg/L	3699 ppm
3 Cd 228.802	79.6	-46.3	-0.0011 mg/L	-0.0558 ppm
3 Co 228.616	3558.3	3486.8	0.0959 mg/L	4.794 ppm
3 Cr 267.716	30377.6	30440.5	0.6592 mg/L	32.96 ppm
3 Cu 324.754	10432.4	9883.9	0.0976 mg/L	4.882 ppm
3 Fe 273.955	3321923.2	3322102.8	156.0 mg/L	7799 ppm
3 K 766.491	419668.5	413581.2	7.673 mg/L	383.6 ppm
3 Mg 279.079	425625.4	426640.5	43.65 mg/L	2183 ppm
3 Mn 257.610	812005.0	815388.2	1.904 mg/L	95.19 ppm
3 Mo 202.030	-167.0	-52.6	-0.0080 mg/L	-0.3988 ppm
3 Na 330.237	667.3	-566.7	-0.7065 mg/L	-35.33 ppm
3 Ni 231.604	21199.0	21252.1	0.5284 mg/L	26.42 ppm
3 Pb 220.353	760.3	425.7	0.0303 mg/L	1.517 ppm
3 Sb 206.833	63.3	32.6	-0.0001 mg/L	-0.0044 ppm
3 Se 196.026	-18.3	-22.8	0.0212 mg/L	1.058 ppm
3 Tl 190.800	-98.5	-64.7	-0.0198 mg/L	-0.9878 ppm
3 V 292.402	37457.1	37174.6	0.3808 mg/L	19.04 ppm
3 Zn 213.856	16882.0	16925.7	0.3089 mg/L	15.45 ppm

Mean Data

ID: 2905-6 F=50	Seq. No.: 84	Sample No.: 58	A/S Pos: 67
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	50.0
	Data: Original	Date: 04/28/03	03:23:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	5.8	0.0001	0.00181	mg/L	0.0038	0.09063	ppm	>999.9%
Al 308.215	721119.6	77.14	0.986	mg/L	3857	49.3	ppm	1.28%
As 188.979	43.3	0.0332	0.01306	mg/L	1.658	0.6531	ppm	39.38%
Ba 233.527	48435.2	0.4380	0.00530	mg/L	21.90	0.265	ppm	1.21%
Be 313.107	-8772.8	-0.0035	0.00002	mg/L	-0.1771	0.00118	ppm	0.67%
Ca 227.547	5950.4	72.29	2.713	mg/L	3615	135.7	ppm	3.75%
Cd 228.802	-0.4	0.0000	0.00096	mg/L	-0.0005	0.04805	ppm	>999.9%
Co 228.616	3395.1	0.0933	0.00278	mg/L	4.667	0.1390	ppm	2.98%
Cr 267.716	29904.0	0.6474	0.01561	mg/L	32.37	0.780	ppm	2.41%
Cu 324.754	10048.6	0.0992	0.00154	mg/L	4.961	0.0769	ppm	1.55%
Fe 273.955	3360508.0	157.8	2.10	mg/L	7889	104.9	ppm	1.33%
K 766.491	423003.7	7.836	0.1420	mg/L	391.8	7.10	ppm	1.81%
Mg 279.079	431533.1	44.15	0.633	mg/L	2208	31.6	ppm	1.43%
Mn 257.610	825670.3	1.928	0.0283	mg/L	96.39	1.415	ppm	1.47%
Mo 202.030	-45.8	-0.0075	0.00176	mg/L	-0.3763	0.08808	ppm	23.41%
Na 330.237	-566.7	-0.7065	0.08328	mg/L	-35.33	4.164	ppm	11.79%
Ni 231.604	20893.4	0.5194	0.01296	mg/L	25.97	0.648	ppm	2.50%
Pb 220.353	460.0	0.0327	0.00489	mg/L	1.637	0.2445	ppm	14.94%
Sb 206.833	27.9	-0.0020	0.00500	mg/L	-0.1001	0.25006	ppm	249.88%
Se 196.026	-57.5	0.0110	0.00966	mg/L	0.5479	0.48310	ppm	88.18%
Tl 190.800	-49.0	-0.0148	0.00534	mg/L	-0.7402	0.26724	ppm	36.10%
V 292.402	37623.7	0.3854	0.00450	mg/L	19.27	0.225	ppm	1.17%
Zn 213.856	16655.9	0.3038	0.00723	mg/L	15.19	0.361	ppm	2.38%

Replicate Data

ID: 2905-7 F=50	Date: 04/28/03	03:26:18 PM
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Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-277.6	142.9	0.0019 mg/L	0.0934 ppm
1	Al 308.215	612755.3	612312.8	65.50 mg/L	3275 ppm
1	As 188.979	344.3	354.6	0.1513 mg/L	7.566 ppm
1	Ba 233.527	15901.7	16334.6	0.1538 mg/L	7.688 ppm
1	Be 313.107	-8554.1	-6253.4	-0.0025 mg/L	-0.1262 ppm
1	Ca 227.547	11522.5	11554.8	138.3 mg/L	6913 ppm
1	Cd 228.802	78.9	-47.0	-0.0011 mg/L	-0.0567 ppm
1	Co 228.616	4899.5	4828.0	0.1327 mg/L	6.637 ppm
1	Cr 267.716	27788.9	27851.8	0.6008 mg/L	30.04 ppm
1	Cu 324.754	6271.4	5722.9	0.0660 mg/L	3.298 ppm
1	Fe 273.955	4834593.5	4834773.2	227.0 mg/L	11350 ppm
1	K 766.491	526330.1	520242.8	9.498 mg/L	474.9 ppm
1	Mg 279.079	626458.9	627474.0	64.20 mg/L	3210 ppm
1	Mn 257.610	1957546.6	1960929.8	4.579 mg/L	228.9 ppm

1 Mo 202.030	-41.3	73.1	-0.0007 mg/L	-0.0354 ppm
1 Na 330.237	1320.2	86.2	0.8243 mg/L	41.22 ppm
1 Ni 231.604	22879.5	22932.6	0.5701 mg/L	28.51 ppm
1 Pb 220.353	1158.0	823.5	0.0535 mg/L	2.675 ppm
1 Sb 206.833	84.6	53.8	0.0042 mg/L	0.2115 ppm
1 Se 196.026	-131.1	-135.5	-0.0003 mg/L	-0.0139 ppm
1 Tl 190.800	-107.4	-73.6	-0.0219 mg/L	-1.094 ppm
1 V 292.402	35264.0	34981.5	0.3648 mg/L	18.24 ppm
1 Zn 213.856	18532.9	18576.6	0.3360 mg/L	16.80 ppm
2 Ag 328.068	-177.4	243.1	0.0032 mg/L	0.1590 ppm
2 Al 308.215	611107.1	610664.6	65.32 mg/L	3266 ppm
2 As 188.979	310.9	321.3	0.1390 mg/L	6.949 ppm
2 Ba 233.527	15069.7	15502.6	0.1462 mg/L	7.309 ppm
2 Be 313.107	-8416.6	-6115.9	-0.0025 mg/L	-0.1235 ppm
2 Ca 227.547	11029.9	11062.2	132.3 mg/L	6615 ppm
2 Cd 228.802	118.7	-7.2	-0.0002 mg/L	-0.0087 ppm
2 Co 228.616	4673.4	4601.9	0.1265 mg/L	6.327 ppm
2 Cr 267.716	26510.5	26573.4	0.5730 mg/L	28.65 ppm
2 Cu 324.754	6369.4	5820.9	0.0667 mg/L	3.334 ppm
2 Fe 273.955	4787465.8	4787645.5	224.8 mg/L	11240 ppm
2 K 766.491	531557.5	525470.2	9.586 mg/L	479.3 ppm
2 Mg 279.079	618682.6	619697.7	63.41 mg/L	3170 ppm
2 Mn 257.610	1938506.8	1941890.0	4.534 mg/L	226.7 ppm
2 Mo 202.030	-75.4	39.0	-0.0031 mg/L	-0.1566 ppm
2 Na 330.237	1326.5	92.5	0.8390 mg/L	41.95 ppm
2 Ni 231.604	22107.4	22160.5	0.5509 mg/L	27.55 ppm
2 Pb 220.353	1067.5	732.9	0.0473 mg/L	2.367 ppm
2 Sb 206.833	87.1	56.3	0.0055 mg/L	0.2759 ppm
2 Se 196.026	-91.3	-95.8	0.0114 mg/L	0.5695 ppm
2 Tl 190.800	-33.2	0.6	0.0014 mg/L	0.0713 ppm
2 V 292.402	35364.9	35082.3	0.3656 mg/L	18.28 ppm
2 Zn 213.856	17734.0	17777.7	0.3212 mg/L	16.06 ppm
3 Ag 328.068	-335.4	85.1	0.0011 mg/L	0.0557 ppm
3 Al 308.215	659866.0	659423.4	70.54 mg/L	3527 ppm
3 As 188.979	300.9	311.2	0.1367 mg/L	6.837 ppm
3 Ba 233.527	15023.8	15456.7	0.1461 mg/L	7.307 ppm
3 Be 313.107	-9215.6	-6914.9	-0.0028 mg/L	-0.1396 ppm
3 Ca 227.547	11360.4	11392.8	136.2 mg/L	6809 ppm
3 Cd 228.802	120.1	-5.8	-0.0001 mg/L	-0.0070 ppm
3 Co 228.616	4660.8	4589.3	0.1262 mg/L	6.309 ppm
3 Cr 267.716	26934.3	26997.3	0.5819 mg/L	29.09 ppm
3 Cu 324.754	6752.8	6204.3	0.0710 mg/L	3.551 ppm
3 Fe 273.955	5089537.7	5089717.4	239.0 mg/L	11950 ppm
3 K 766.491	562647.0	556559.7	10.11 mg/L	505.4 ppm
3 Mg 279.079	659957.0	660972.1	67.63 mg/L	3381 ppm
3 Mn 257.610	2063264.5	2066647.8	4.825 mg/L	241.3 ppm
3 Mo 202.030	-64.4	50.0	-0.0027 mg/L	-0.1355 ppm
3 Na 330.237	1326.4	92.4	0.8390 mg/L	41.95 ppm
3 Ni 231.604	22174.6	22227.6	0.5526 mg/L	27.63 ppm
3 Pb 220.353	1149.0	814.5	0.0529 mg/L	2.645 ppm
3 Sb 206.833	22.4	-8.3	-0.0213 mg/L	-1.064 ppm
3 Se 196.026	-88.8	-93.3	0.0147 mg/L	0.7355 ppm
3 Tl 190.800	-132.7	-98.9	-0.0298 mg/L	-1.488 ppm
3 V 292.402	37980.9	37698.3	0.3926 mg/L	19.63 ppm
3 Zn 213.856	17922.3	17966.0	0.3240 mg/L	16.20 ppm

Mean Data

ID: 2905-7 F=50 Seq. No.: 85 Sample No.: 59 A/S Pos: 68
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 03:26:18 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	157.0	0.0021	0.00105	mg/L	0.1027	0.05229	ppm	50.92%
Al 308.215	627466.9	67.12	2.962	mg/L	3356	148.1	ppm	4.41%
As 188.979	329.0	0.1423	0.00785	mg/L	7.117	0.3924	ppm	5.51%
Ba 233.527	15764.6	0.1487	0.00439	mg/L	7.435	0.2194	ppm	2.95%
Be 313.107	-6428.0	-0.0026	0.00017	mg/L	-0.1298	0.00862	ppm	6.65%
Ca 227.547	11336.6	135.6	3.03	mg/L	6779	151.4	ppm	2.23%
Cd 228.802	-20.0	-0.0005	0.00056	mg/L	-0.0241	0.02822	ppm	116.87%
Co 228.616	4673.1	0.1285	0.00369	mg/L	6.424	0.1846	ppm	2.87%

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Cr 267.716	27140.8	0.5853	0.01420 mg/L	29.26	0.710 ppm	2.43%
Cu 324.754	5916.0	0.0679	0.00274 mg/L	3.394	0.1369 ppm	4.03%
Fe 273.955	4904045.3	230.3	7.63 mg/L	11510	381.5 ppm	3.31%
K 766.491	534090.9	9.731	0.3300 mg/L	486.6	16.50 ppm	3.39%
Mg 279.079	636047.9	65.08	2.244 mg/L	3254	112.2 ppm	3.45%
Mn 257.610	1989822.5	4.646	0.1569 mg/L	232.3	7.85 ppm	3.38%
Mo 202.030	54.1	-0.0022	0.00129 mg/L	-0.1091	0.06473 ppm	59.30%
Na 330.237	90.3	0.8341	0.00848 mg/L	41.71	0.424 ppm	1.02%
Ni 231.604	22440.2	0.5579	0.01063 mg/L	27.89	0.532 ppm	1.91%
Pb 220.353	790.3	0.0512	0.00340 mg/L	2.562	0.1699 ppm	6.63%
Sb 206.833	33.9	-0.0038	0.01512 mg/L	-0.1924	0.75594 ppm	393.00%
Se 196.026	-108.2	0.0086	0.00787 mg/L	0.4303	0.39358 ppm	91.46%
Tl 190.800	-57.3	-0.0167	0.01622 mg/L	-0.8369	0.81077 ppm	96.88%
V 292.402	35920.7	0.3743	0.01586 mg/L	18.72	0.793 ppm	4.24%
Zn 213.856	18106.8	0.3271	0.00790 mg/L	16.35	0.395 ppm	2.42%

Replicate Data

ID: 2905-8 F=50

Date: 04/28/03 03:28:53 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Units
1	Ag 328.068	-178.5	242.0	0.0032	mg/L	0.1583	ppm
1	Al 308.215	661727.4	661284.8	70.74	mg/L	3537	ppm
1	As 188.979	349.9	360.3	0.1532	mg/L	7.658	ppm
1	Ba 233.527	15759.1	16192.0	0.1526	mg/L	7.629	ppm
1	Be 313.107	-7654.0	-5353.2	-0.0022	mg/L	-0.1081	ppm
1	Ca 227.547	15498.8	15531.1	186.5	mg/L	9327	ppm
1	Cd 228.802	48.0	-77.9	-0.0019	mg/L	-0.0940	ppm
1	Co 228.616	4625.6	4554.1	0.1252	mg/L	6.261	ppm
1	Cr 267.716	22456.6	22519.5	0.4845	mg/L	24.23	ppm
1	Cu 324.754	5966.0	5417.5	0.0635	mg/L	3.177	ppm
1	Fe 273.955	4915354.0	4915533.7	230.8	mg/L	11540	ppm
1	K 766.491	606390.3	600303.1	10.84	mg/L	541.9	ppm
1	Mg 279.079	704137.4	705152.5	72.15	mg/L	3607	ppm
1	Mn 257.610	2303942.7	2307325.9	5.387	mg/L	269.4	ppm
1	Mo 202.030	-59.1	55.3	-0.0021	mg/L	-0.1055	ppm
1	Na 330.237	1664.5	430.5	1.630	mg/L	81.51	ppm
1	Ni 231.604	21761.7	21814.8	0.5423	mg/L	27.12	ppm
1	Pb 220.353	1412.7	1078.2	0.0711	mg/L	3.553	ppm
1	Sb 206.833	84.0	53.2	0.0043	mg/L	0.2163	ppm
1	Se 196.026	-175.2	-179.7	-0.0130	mg/L	-0.6497	ppm
1	Tl 190.800	-17.3	16.5	0.0064	mg/L	0.3192	ppm
1	V 292.402	35010.7	34728.1	0.3626	mg/L	18.13	ppm
1	Zn 213.856	19102.5	19146.2	0.3465	mg/L	17.33	ppm
2	Ag 328.068	-136.1	284.4	0.0037	mg/L	0.1860	ppm
2	Al 308.215	666425.3	665982.8	71.24	mg/L	3562	ppm
2	As 188.979	300.5	310.8	0.1361	mg/L	6.804	ppm
2	Ba 233.527	15765.5	16198.3	0.1528	mg/L	7.641	ppm
2	Be 313.107	-7533.3	-5232.5	-0.0021	mg/L	-0.1056	ppm
2	Ca 227.547	15722.1	15754.4	189.2	mg/L	9459	ppm
2	Cd 228.802	76.5	-49.4	-0.0012	mg/L	-0.0596	ppm
2	Co 228.616	4682.3	4610.8	0.1268	mg/L	6.339	ppm
2	Cr 267.716	22929.7	22992.7	0.4946	mg/L	24.73	ppm
2	Cu 324.754	6171.5	5623.0	0.0658	mg/L	3.292	ppm
2	Fe 273.955	5068089.8	5068269.4	238.0	mg/L	11900	ppm
2	K 766.491	633839.4	627752.1	11.29	mg/L	564.5	ppm
2	Mg 279.079	700024.6	701039.7	71.73	mg/L	3586	ppm
2	Mn 257.610	2382969.0	2386352.2	5.572	mg/L	278.6	ppm
2	Mo 202.030	-142.2	-27.8	-0.0083	mg/L	-0.4173	ppm
2	Na 330.237	1679.1	445.0	1.664	mg/L	83.21	ppm
2	Ni 231.604	22058.4	22111.5	0.5497	mg/L	27.49	ppm
2	Pb 220.353	1173.4	838.9	0.0542	mg/L	2.712	ppm
2	Sb 206.833	78.6	47.8	0.0017	mg/L	0.0834	ppm
2	Se 196.026	-59.9	-64.3	0.0233	mg/L	1.165	ppm
2	Tl 190.800	-100.2	-66.4	-0.0197	mg/L	-0.9827	ppm
2	V 292.402	35107.5	34825.0	0.3641	mg/L	18.20	ppm
2	Zn 213.856	19221.0	19264.7	0.3484	mg/L	17.42	ppm
3	Ag 328.068	-182.1	238.4	0.0031	mg/L	0.1559	ppm
3	Al 308.215	661975.5	661533.0	70.76	mg/L	3538	ppm
3	As 188.979	318.4	328.7	0.1419	mg/L	7.093	ppm

3 Ba 233.527	15312.9	15745.7	0.1486 mg/L	7.428 ppm
3 Be 313.107	-7631.3	-5330.6	-0.0022 mg/L	-0.1076 ppm
3 Ca 227.547	15154.8	15187.2	182.3 mg/L	9117 ppm
3 Cd 228.802	7.2	-118.7	-0.0029 mg/L	-0.1431 ppm
3 Co 228.616	4606.8	4535.3	0.1247 mg/L	6.235 ppm
3 Cr 267.716	22189.5	22252.4	0.4787 mg/L	23.93 ppm
3 Cu 324.754	6204.7	5656.2	0.0657 mg/L	3.285 ppm
3 Fe 273.955	4933192.3	4933371.9	231.6 mg/L	11580 ppm
3 K 766.491	628049.7	621962.4	11.20 mg/L	559.8 ppm
3 Mg 279.079	690822.9	691838.1	70.79 mg/L	3539 ppm
3 Mn 257.610	2313437.6	2316820.8	5.410 mg/L	270.5 ppm
3 Mo 202.030	-115.6	-1.2	-0.0062 mg/L	-0.3122 ppm
3 Na 330.237	1510.9	276.9	1.271 mg/L	63.54 ppm
3 Ni 231.604	21424.2	21477.3	0.5340 mg/L	26.70 ppm
3 Pb 220.353	1226.9	892.4	0.0582 mg/L	2.910 ppm
3 Sb 206.833	85.8	55.1	0.0051 mg/L	0.2528 ppm
3 Se 196.026	-130.1	-134.6	0.0008 mg/L	0.0420 ppm
3 Tl 190.800	-80.5	-46.7	-0.0135 mg/L	-0.6740 ppm
3 V 292.402	34819.7	34537.1	0.3607 mg/L	18.04 ppm
3 Zn 213.856	18771.7	18815.4	0.3403 mg/L	17.01 ppm

Mean Data

ID: 2905-8 F=50 Seq. No.: 86 Sample No.: 60 A/S Pos: 69
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Date: Original Date: 04/28/03 03:28:53 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	254.9	0.0033	0.00033	mg/L	0.1667	0.01671	ppm	10.02%
Al 308.215	662933.5	70.91	0.283	mg/L	3546	14.1	ppm	0.40%
As 188.979	333.3	0.1437	0.00868	mg/L	7.185	0.4342	ppm	6.04%
Ba 233.527	16045.4	0.1513	0.00239	mg/L	7.566	0.1196	ppm	1.58%
Be 313.107	-5305.5	-0.0021	0.00003	mg/L	-0.1071	0.00130	ppm	1.21%
Ca 227.547	15490.9	186.0	3.45	mg/L	9301	172.3	ppm	1.85%
Cd 228.802	-82.0	-0.0020	0.00084	mg/L	-0.0989	0.04197	ppm	42.43%
Co 228.616	4566.7	0.1256	0.00108	mg/L	6.278	0.0541	ppm	0.86%
Cr 267.716	22588.2	0.4860	0.00808	mg/L	24.30	0.404	ppm	1.66%
Cu 324.754	5565.6	0.0650	0.00129	mg/L	3.251	0.0644	ppm	1.98%
Fe 273.955	4972391.7	233.5	3.92	mg/L	11670	196.0	ppm	1.68%
K 766.491	616672.5	11.11	0.239	mg/L	555.4	11.95	ppm	2.15%
Mg 279.079	699343.4	71.56	0.698	mg/L	3578	34.9	ppm	0.97%
Mn 257.610	2336833.0	5.456	0.1007	mg/L	272.8	5.04	ppm	1.85%
Mo 202.030	8.8	-0.0056	0.00317	mg/L	-0.2783	0.15865	ppm	57.00%
Na 330.237	384.1	1.522	0.2180	mg/L	76.08	10.899	ppm	14.32%
Ni 231.604	21801.2	0.5420	0.00789	mg/L	27.10	0.394	ppm	1.46%
Pb 220.353	936.5	0.0612	0.00879	mg/L	3.058	0.4395	ppm	14.37%
Sb 206.833	52.0	0.0037	0.00178	mg/L	0.1842	0.08918	ppm	48.42%
Se 196.026	-126.2	0.0037	0.01832	mg/L	0.1859	0.91612	ppm	492.81%
Tl 190.800	-32.2	-0.0089	0.01361	mg/L	-0.4458	0.68030	ppm	152.59%
V 292.402	34696.7	0.3625	0.00168	mg/L	18.12	0.084	ppm	0.46%
Zn 213.856	19075.4	0.3451	0.00424	mg/L	17.25	0.212	ppm	1.23%

Replicate Data

ID: 2905-9 F=50 Date: 04/28/03 03:31:33 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-473.8	-53.3	-0.0007	mg/L	-0.0349	ppm
1 Al 308.215	1824920.2	1824477.7	195.2	mg/L	9758	ppm
1 As 188.979	26.4	36.8	0.0363	mg/L	1.813	ppm
1 Ba 233.527	210818.0	211250.9	1.917	mg/L	95.85	ppm
1 Be 313.107	7439.5	9740.2	0.0039	mg/L	0.1966	ppm
1 Ca 227.547	12386.9	12419.2	148.6	mg/L	7428	ppm
1 Cd 228.802	123.0	-2.9	-0.0001	mg/L	-0.0035	ppm
1 Co 228.616	4750.5	4679.0	0.1287	mg/L	6.433	ppm
1 Cr 267.716	12686.2	12749.1	0.2711	mg/L	13.56	ppm
1 Cu 324.754	28439.7	27891.2	0.2624	mg/L	13.12	ppm
1 Fe 273.955	5301633.3	5301813.0	248.9	mg/L	12450	ppm
1 K 766.491	1729135.8	1723048.5	27.47	mg/L	1374	ppm
1 Mg 279.079	589370.1	590385.3	60.41	mg/L	3020	ppm
1 Mn 257.610	1891512.8	1894896.1	4.424	mg/L	221.2	ppm
1 Mo 202.030	-118.0	-3.6	-0.0069	mg/L	-0.3438	ppm

1 Na 330.237	2559.7	1325.6	3.720 mg/L	186.0 ppm
1 Ni 231.604	12570.2	12623.2	0.3138 mg/L	15.69 ppm
1 Pb 220.353	2456.6	2122.0	0.1531 mg/L	7.654 ppm
1 Sb 206.833	97.3	66.6	0.0110 mg/L	0.5490 ppm
1 Se 196.026	-104.9	-109.4	0.0116 mg/L	0.5804 ppm
1 Tl 190.800	-89.4	-55.6	-0.0158 mg/L	-0.7919 ppm
1 V 292.402	55126.1	54843.5	0.5633 mg/L	28.17 ppm
1 Zn 213.856	30092.1	30135.8	0.5516 mg/L	27.58 ppm
2 Ag 328.068	-482.7	-62.2	-0.0008 mg/L	-0.0407 ppm
2 Al 308.215	1808469.9	1808027.4	193.4 mg/L	9670 ppm
2 As 188.979	9.7	20.1	0.0300 mg/L	1.501 ppm
2 Ba 233.527	207311.7	207744.6	1.885 mg/L	94.26 ppm
2 Be 313.107	7375.4	9676.1	0.0039 mg/L	0.1953 ppm
2 Ca 227.547	12620.1	12652.5	151.4 mg/L	7571 ppm
2 Cd 228.802	118.0	-7.9	-0.0002 mg/L	-0.0096 ppm
2 Co 228.616	4719.5	4648.0	0.1278 mg/L	6.390 ppm
2 Cr 267.716	12932.4	12995.3	0.2765 mg/L	13.83 ppm
2 Cu 324.754	28070.0	27521.5	0.2589 mg/L	12.95 ppm
2 Fe 273.955	5249953.5	5250133.2	246.5 mg/L	12320 ppm
2 K 766.491	1781493.8	1775406.5	28.17 mg/L	1409 ppm
2 Mg 279.079	577959.7	578974.8	59.24 mg/L	2962 ppm
2 Mn 257.610	1856576.9	1859960.1	4.343 mg/L	217.1 ppm
2 Mo 202.030	-120.8	-6.3	-0.0070 mg/L	-0.3506 ppm
2 Na 330.237	2624.4	1390.4	3.871 mg/L	193.6 ppm
2 Ni 231.604	12534.6	12587.7	0.3129 mg/L	15.65 ppm
2 Pb 220.353	2412.7	2078.2	0.1500 mg/L	7.498 ppm
2 Sb 206.833	42.9	12.2	-0.0106 mg/L	-0.5317 ppm
2 Se 196.026	-155.6	-160.1	-0.0042 mg/L	-0.2108 ppm
2 Tl 190.800	-86.0	-52.2	-0.0148 mg/L	-0.7397 ppm
2 V 292.402	54256.7	53974.1	0.5545 mg/L	27.72 ppm
2 Zn 213.856	30499.5	30543.2	0.5594 mg/L	27.97 ppm
3 Ag 328.068	-420.0	0.5	0.0000 mg/L	0.0003 ppm
3 Al 308.215	1778373.8	1777931.3	190.2 mg/L	9509 ppm
3 As 188.979	17.4	27.8	0.0329 mg/L	1.644 ppm
3 Ba 233.527	204183.6	204616.5	1.857 mg/L	92.85 ppm
3 Be 313.107	7333.0	9633.7	0.0039 mg/L	0.1945 ppm
3 Ca 227.547	12916.3	12948.7	155.0 mg/L	7750 ppm
3 Cd 228.802	93.0	-32.9	-0.0008 mg/L	-0.0397 ppm
3 Co 228.616	4762.1	4690.6	0.1290 mg/L	6.448 ppm
3 Cr 267.716	13156.4	13219.3	0.2814 mg/L	14.07 ppm
3 Cu 324.754	27921.1	27372.6	0.2577 mg/L	12.89 ppm
3 Fe 273.955	5271614.6	5271794.3	247.5 mg/L	12380 ppm
3 K 766.491	1845112.5	1839025.2	29.02 mg/L	1451 ppm
3 Mg 279.079	567583.9	568599.0	58.18 mg/L	2909 ppm
3 Mn 257.610	1831841.6	1835224.8	4.285 mg/L	214.3 ppm
3 Mo 202.030	-113.2	1.2	-0.0065 mg/L	-0.3244 ppm
3 Na 330.237	2391.5	1157.4	3.328 mg/L	166.4 ppm
3 Ni 231.604	12831.8	12884.9	0.3203 mg/L	16.02 ppm
3 Pb 220.353	2446.2	2111.6	0.1520 mg/L	7.598 ppm
3 Sb 206.833	95.2	64.5	0.0102 mg/L	0.5111 ppm
3 Se 196.026	-90.2	-94.6	0.0158 mg/L	0.7918 ppm
3 Tl 190.800	-87.7	-53.9	-0.0154 mg/L	-0.7678 ppm
3 V 292.402	53280.4	52997.8	0.5449 mg/L	27.25 ppm
3 Zn 213.856	31250.2	31293.9	0.5734 mg/L	28.67 ppm

Mean Data

ID: 2905-9 F=50

Sample Qty: 1.0000 mL

Seq. No.: 87

Prep. Vol.: Data: Original

Sample No.: 61

1.0 mL

A/S Pos: 70

Dilution:

1.0:

50.0

Date: 04/28/03 03:31:33 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-38.4	-0.0005	0.00044	mg/L	-0.0251	0.02218	ppm	88.40%
Al 308.215	1803478.8	192.9	2.52	mg/L	9646	126.2	ppm	1.31%
As 188.979	28.2	0.0331	0.00312	mg/L	1.653	0.1559	ppm	9.43%
Ba 233.527	207870.6	1.886	0.0300	mg/L	94.32	1.502	ppm	1.59%
Be 313.107	9683.3	0.0039	0.00002	mg/L	0.1955	0.00108	ppm	0.55%
Ca 227.547	12673.4	151.7	3.23	mg/L	7583	161.5	ppm	2.13%
Cd 228.802	-14.6	-0.0004	0.00039	mg/L	-0.0176	0.01942	ppm	110.46%
Co 228.616	4672.5	0.1285	0.00061	mg/L	6.424	0.0303	ppm	0.47%
Cr 267.716	12987.9	0.2764	0.00514	mg/L	13.82	0.257	ppm	1.86%

Cu 324.754	27595.1	0.2597	0.00241 mg/L	12.98	0.121 ppm	0.93%
Fe 273.955	5274580.1	247.6	1.22 mg/L	12380	60.9 ppm	0.49%
K 766.491	1779160.1	28.22	0.772 mg/L	1411	38.6 ppm	2.73%
Mg 279.079	579319.7	59.27	1.115 mg/L	2964	55.7 ppm	1.88%
Mn 257.610	1863360.3	4.351	0.0700 mg/L	217.5	3.50 ppm	1.61%
Mo 202.030	-2.9	-0.0068	0.00027 mg/L	-0.3396	0.01358 ppm	4.00%
Na 330.237	1291.1	3.640	0.2803 mg/L	182.0	14.02 ppm	7.70%
Ni 231.604	12698.6	0.3157	0.00403 mg/L	15.79	0.202 ppm	1.28%
Pb 220.353	2104.0	0.1517	0.00158 mg/L	7.584	0.0790 ppm	1.04%
Sb 206.833	47.7	0.0035	0.01227 mg/L	0.1761	0.61332 ppm	348.20%
Se 196.026	-121.4	0.0077	0.01057 mg/L	0.3872	0.52849 ppm	136.51%
Tl 190.800	-53.9	-0.0153	0.00052 mg/L	-0.7665	0.02610 ppm	3.41%
V 292.402	53938.5	0.5542	0.00920 mg/L	27.71	0.460 ppm	1.66%
Zn 213.856	30657.6	0.5615	0.01105 mg/L	28.07	0.552 ppm	1.97%

Replicate Data

ID: 2905-10 F=50

Date: 04/28/03 03:34:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-277.6	142.9	0.0019	mg/L	0.0934	ppm
1	Al 308.215	918213.9	917771.4	98.17	mg/L	4909	ppm
1	As 188.979	61.9	72.2	0.0469	mg/L	2.344	ppm
1	Ba 233.527	52945.6	53378.5	0.4878	mg/L	24.39	ppm
1	Be 313.107	-13696.6	-11395.9	-0.0046	mg/L	-0.2301	ppm
1	Ca 227.547	14481.7	14514.0	176.3	mg/L	8817	ppm
1	Cd 228.802	152.0	26.1	0.0006	mg/L	0.0315	ppm
1	Co 228.616	4229.0	4157.5	0.1143	mg/L	5.716	ppm
1	Cr 267.716	32642.4	32705.3	0.7076	mg/L	35.38	ppm
1	Cu 324.754	13937.9	13389.4	0.1308	mg/L	6.542	ppm
1	Fe 273.955	4055452.2	4055631.9	190.4	mg/L	9521	ppm
1	K 766.491	591695.8	585608.5	10.59	mg/L	529.7	ppm
1	Mg 279.079	516528.3	517543.5	52.95	mg/L	2648	ppm
1	Mn 257.610	978879.7	982262.9	2.294	mg/L	114.7	ppm
1	Mo 202.030	-130.1	-15.7	-0.0062	mg/L	-0.3101	ppm
1	Na 330.237	1174.3	-59.8	0.4825	mg/L	24.12	ppm
1	Ni 231.604	23718.8	23771.9	0.5910	mg/L	29.55	ppm
1	Pb 220.353	931.0	596.5	0.0414	mg/L	2.068	ppm
1	Sb 206.833	2.5	-28.3	-0.0268	mg/L	-1.342	ppm
1	Se 196.026	-50.5	-55.0	0.0176	mg/L	0.8798	ppm
1	Tl 190.800	-141.1	-107.3	-0.0330	mg/L	-1.648	ppm
1	V 292.402	44742.7	44460.1	0.4557	mg/L	22.79	ppm
1	Zn 213.856	19607.4	19651.1	0.3582	mg/L	17.91	ppm
2	Ag 328.068	-360.3	60.2	0.0008	mg/L	0.0394	ppm
2	Al 308.215	850497.6	850055.0	90.93	mg/L	4546	ppm
2	As 188.979	54.6	64.9	0.0431	mg/L	2.154	ppm
2	Ba 233.527	49004.1	49437.0	0.4471	mg/L	22.35	ppm
2	Be 313.107	-12919.0	-10618.3	-0.0043	mg/L	-0.2144	ppm
2	Ca 227.547	14173.6	14205.9	172.6	mg/L	8630	ppm
2	Cd 228.802	122.4	-3.5	-0.0001	mg/L	-0.0043	ppm
2	Co 228.616	4103.3	4031.8	0.1109	mg/L	5.543	ppm
2	Cr 267.716	31990.3	32053.2	0.6937	mg/L	34.69	ppm
2	Cu 324.754	13232.8	12684.3	0.1238	mg/L	6.191	ppm
2	Fe 273.955	3799404.9	3799584.5	178.4	mg/L	8920	ppm
2	K 766.491	556149.3	550062.0	10.00	mg/L	500.0	ppm
2	Mg 279.079	483616.2	484631.4	49.59	mg/L	2479	ppm
2	Mn 257.610	912186.2	915569.4	2.138	mg/L	106.9	ppm
2	Mo 202.030	-106.2	8.2	-0.0041	mg/L	-0.2071	ppm
2	Na 330.237	1439.2	205.2	1.103	mg/L	55.15	ppm
2	Ni 231.604	23092.7	23145.8	0.5754	mg/L	28.77	ppm
2	Pb 220.353	1036.3	701.8	0.0485	mg/L	2.425	ppm
2	Sb 206.833	39.7	9.0	-0.0111	mg/L	-0.5555	ppm
2	Se 196.026	-75.1	-79.5	0.0080	mg/L	0.3987	ppm
2	Tl 190.800	-103.1	-69.3	-0.0211	mg/L	-1.055	ppm
2	V 292.402	41611.8	41329.3	0.4238	mg/L	21.19	ppm
2	Zn 213.856	18983.9	19027.6	0.3471	mg/L	17.36	ppm
3	Ag 328.068	-235.4	185.1	0.0024	mg/L	0.1210	ppm
3	Al 308.215	871461.4	871018.8	93.17	mg/L	4659	ppm
3	As 188.979	79.5	89.8	0.0522	mg/L	2.612	ppm
3	Ba 233.527	50350.3	50783.2	0.4592	mg/L	22.96	ppm

3 Be 313.107	-13166.0	-10865.3	-0.0044 mg/L	-0.2194 ppm
3 Ca 227.547	13923.9	13956.3	169.6 mg/L	8478 ppm
3 Cd 228.802	85.6	-40.3	-0.0010 mg/L	-0.0486 ppm
3 Co 228.616	3988.9	3917.4	0.1077 mg/L	5.385 ppm
3 Cr 267.716	31346.6	31409.5	0.6796 mg/L	33.98 ppm
3 Cu 324.754	13528.6	12980.1	0.1266 mg/L	6.331 ppm
3 Fe 273.955	3863859.4	3864039.1	181.4 mg/L	9071 ppm
3 K 766.491	557764.1	551676.8	10.03 mg/L	501.4 ppm
3 Mg 279.079	491357.2	492372.3	50.38 mg/L	2519 ppm
3 Mn 257.610	927794.8	931178.0	2.174 mg/L	108.7 ppm
3 Mo 202.030	-127.3	-12.8	-0.0058 mg/L	-0.2878 ppm
3 Na 330.237	1174.3	-59.7	0.4825 mg/L	24.13 ppm
3 Ni 231.604	22879.9	22933.0	0.5701 mg/L	28.51 ppm
3 Pb 220.353	952.4	617.9	0.0428 mg/L	2.140 ppm
3 Sb 206.833	28.1	-2.7	-0.0159 mg/L	-0.7949 ppm
3 Se 196.026	-62.7	-67.1	0.0123 mg/L	0.6138 ppm
3 Tl 190.800	-58.5	-24.6	-0.0070 mg/L	-0.3517 ppm
3 V 292.402	42657.3	42374.7	0.4344 mg/L	21.72 ppm
3 Zn 213.856	18790.2	18833.9	0.3433 mg/L	17.17 ppm

Mean Data

ID: 2905-10 F=50	Seq. No.: 88	Sample No.: 62	A/S Pos: 71
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0: 50.0	Date: 04/28/03 03:34:11 PM
	Data: Original		

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	129.4	0.0017	0.00083	mg/L	0.0846	0.04154	ppm	49.10%
Al 308.215	879615.1	94.09	3.708	mg/L	4705	185.4	ppm	3.94%
As 188.979	75.6	0.0474	0.00461	mg/L	2.370	0.2303	ppm	9.72%
Ba 233.527	51199.5	0.4647	0.02090	mg/L	23.24	1.045	ppm	4.50%
Be 313.107	-10959.8	-0.0044	0.00016	mg/L	-0.2213	0.00802	ppm	3.63%
Ca 227.547	14225.4	172.8	3.39	mg/L	8642	169.7	ppm	1.96%
Cd 228.802	-5.9	-0.0001	0.00080	mg/L	-0.0071	0.04012	ppm	564.03%
Co 228.616	4035.6	0.1110	0.00330	mg/L	5.548	0.1651	ppm	2.98%
Cr 267.716	32056.0	0.6936	0.01400	mg/L	34.68	0.700	ppm	2.02%
Cu 324.754	13018.0	0.1271	0.00354	mg/L	6.354	0.1769	ppm	2.78%
Fe 273.955	3906418.5	183.4	6.25	mg/L	9170	312.6	ppm	3.41%
K 766.491	562449.1	10.21	0.335	mg/L	510.3	16.75	ppm	3.28%
Mg 279.079	498182.4	50.97	1.761	mg/L	2549	88.0	ppm	3.45%
Mn 257.610	943003.4	2.202	0.0815	mg/L	110.1	4.07	ppm	3.70%
Mo 202.030	-6.8	-0.0054	0.00108	mg/L	-0.2683	0.05419	ppm	20.20%
Na 330.237	28.6	0.6893	0.35825	mg/L	34.47	17.912	ppm	51.97%
Ni 231.604	23283.5	0.5789	0.01084	mg/L	28.94	0.542	ppm	1.87%
Pb 220.353	638.7	0.0442	0.00378	mg/L	2.211	0.1890	ppm	8.55%
Sb 206.833	-7.3	-0.0179	0.00806	mg/L	-0.8974	0.40311	ppm	44.92%
Se 196.026	-67.2	0.0126	0.00482	mg/L	0.6308	0.24102	ppm	38.21%
Tl 190.800	-67.1	-0.0204	0.01298	mg/L	-1.018	0.6490	ppm	63.73%
V 292.402	42721.4	0.4380	0.01629	mg/L	21.90	0.815	ppm	3.72%
Zn 213.856	19170.8	0.3496	0.00771	mg/L	17.48	0.385	ppm	2.20%

Replicate Data

ID: CCV 1447B	Date: 04/28/03 03:36:48 PM
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Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Sample Conc.
1 Ag 328.068	71080.6	71501.1	0.9351 mg/L	
1 Al 308.215	44976.6	44534.1	4.764 mg/L	
1 As 188.979	1335.5	1345.9	0.4861 mg/L	
1 Ba 233.527	516876.2	517309.1	4.678 mg/L	
1 Be 313.107	1169009.8	1171310.6	0.4729 mg/L	
1 Ca 227.547	4089.7	4122.0	50.08 mg/L	
1 Cd 228.802	40484.3	40358.4	0.9735 mg/L	
1 Co 228.616	69336.7	69265.2	1.904 mg/L	
1 Cr 267.716	21934.4	21997.3	0.4794 mg/L	
1 Cu 324.754	214305.6	213757.1	1.879 mg/L	
1 Fe 273.955	100629.4	100809.0	4.723 mg/L	
1 K 766.491	858549.3	852462.0	14.90 mg/L	
1 Mg 279.079	228901.7	229916.8	23.52 mg/L	
1 Mn 257.610	803998.1	807381.3	1.885 mg/L	
1 Mo 202.030	26256.8	26371.2	1.919 mg/L	
1 Na 330.237	46159.6	44925.6	98.24 mg/L	

1 Ni 231.604	77357.5	77410.6	1.925 mg/L
1 Pb 220.353	7606.7	7272.1	0.5039 mg/L
1 Sb 206.833	4977.1	4946.3	1.981 mg/L
1 Se 196.026	1610.7	1606.3	0.4876 mg/L
1 Tl 190.800	1489.2	1523.0	0.4817 mg/L
1 V 292.402	190847.9	190565.3	1.888 mg/L
1 Zn 213.856	103868.2	103911.9	1.949 mg/L
2 Ag 328.068	73027.9	73448.4	0.9606 mg/L
2 Al 308.215	46620.9	46178.4	4.940 mg/L
2 As 188.979	1401.8	1412.1	0.5100 mg/L
2 Ba 233.527	529963.6	530396.5	4.797 mg/L
2 Be 313.107	1209334.7	1211635.4	0.4892 mg/L
2 Ca 227.547	4108.9	4141.2	50.31 mg/L
2 Cd 228.802	40685.8	40559.9	0.9784 mg/L
2 Co 228.616	71592.4	71520.9	1.966 mg/L
2 Cr 267.716	22086.1	22149.0	0.4827 mg/L
2 Cu 324.754	221954.9	221406.4	1.946 mg/L
2 Fe 273.955	103458.4	103638.0	4.856 mg/L
2 K 766.491	890224.9	884137.6	15.39 mg/L
2 Mg 279.079	233990.7	235005.8	24.05 mg/L
2 Mn 257.610	828233.4	831616.6	1.942 mg/L
2 Mo 202.030	26377.7	26492.2	1.928 mg/L
2 Na 330.237	47827.7	46593.7	101.6 mg/L
2 Ni 231.604	79591.1	79644.2	1.980 mg/L
2 Pb 220.353	7553.0	7218.5	0.5002 mg/L
2 Sb 206.833	5021.7	4990.9	1.999 mg/L
2 Se 196.026	1626.6	1622.1	0.4925 mg/L
2 Tl 190.800	1534.2	1568.1	0.4959 mg/L
2 V 292.402	197605.0	197322.4	1.955 mg/L
2 Zn 213.856	107620.5	107664.2	2.019 mg/L
3 Ag 328.068	71586.4	72006.9	0.9417 mg/L
3 Al 308.215	45537.4	45094.9	4.824 mg/L
3 As 188.979	1440.2	1450.5	0.5238 mg/L
3 Ba 233.527	517454.9	517887.7	4.683 mg/L
3 Be 313.107	1175690.7	1177991.4	0.4756 mg/L
3 Ca 227.547	4129.7	4162.0	50.57 mg/L
3 Cd 228.802	41201.9	41076.0	0.9908 mg/L
3 Co 228.616	69737.5	69666.0	1.915 mg/L
3 Cr 267.716	22508.1	22571.0	0.4919 mg/L
3 Cu 324.754	215858.2	215309.7	1.893 mg/L
3 Fe 273.955	101331.2	101510.8	4.756 mg/L
3 K 766.491	860884.6	854797.3	14.93 mg/L
3 Mg 279.079	229210.5	230225.6	23.56 mg/L
3 Mn 257.610	807050.9	810434.1	1.892 mg/L
3 Mo 202.030	26854.2	26968.6	1.963 mg/L
3 Na 330.237	46259.7	45025.7	98.44 mg/L
3 Ni 231.604	77737.4	77790.5	1.934 mg/L
3 Pb 220.353	7757.1	7422.5	0.5143 mg/L
3 Sb 206.833	5150.9	5120.2	2.051 mg/L
3 Se 196.026	1681.7	1677.3	0.5092 mg/L
3 Tl 190.800	1573.7	1607.5	0.5083 mg/L
3 V 292.402	192453.9	192171.3	1.904 mg/L
3 Zn 213.856	104932.0	104975.7	1.969 mg/L

Mean Data

ID: CCV 1447B Seq. No.: 89 Sample No.: 5 A/S Pos: 6
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Data: Original Date: 04/28/03 03:36:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	72318.8	0.9458	0.01321	mg/L				1.40%
Al 308.215	45269.1	4.842	0.0894	mg/L				1.85%
As 188.979	1402.8	0.5066	0.01906	mg/L				3.76%
Ba 233.527	521864.4	4.719	0.0669	mg/L				1.42%
Be 313.107	1186979.1	0.4793	0.00873	mg/L				1.82%
Ca 227.547	4141.8	50.32	0.243	mg/L				0.48%
Cd 228.802	40664.8	0.9809	0.00893	mg/L				0.91%
Co 228.616	70150.7	1.929	0.0331	mg/L				1.72%
Cr 267.716	22239.1	0.4846	0.00648	mg/L				1.34%
Cu 324.754	216824.4	1.906	0.0355	mg/L				1.86%

Fe 273.955	101986.0	4.778	0.0690 mg/L	1.44%
K 766.491	863799.0	15.07	0.276 mg/L	1.83%
Mg 279.079	231716.0	23.71	0.292 mg/L	1.23%
Mn 257.610	816477.4	1.906	0.0308 mg/L	1.62%
Mo 202.030	26610.7	1.937	0.0230 mg/L	1.19%
Na 330.237	45515.0	99.43	1.891 mg/L	1.90%
Ni 231.604	78281.8	1.946	0.0297 mg/L	1.53%
Pb 220.353	7304.4	0.5061	0.00733 mg/L	1.45%
Sb 206.833	5019.1	2.010	0.0361 mg/L	1.80%
Se 196.026	1635.2	0.4964	0.01131 mg/L	2.28%
Tl 190.800	1566.2	0.4953	0.01332 mg/L	2.69%
V 292.402	193353.0	1.916	0.0350 mg/L	1.83%
Zn 213.856	105517.3	1.979	0.0363 mg/L	1.83%

Replicate Data

ID: CCB

Date: 04/28/03 03:39:38 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-397.3	23.2	0.0003	mg/L		
1	Al 308.215	423.2	-19.4	-0.0021	mg/L		
1	As 188.979	-18.1	-7.8	-0.0028	mg/L		
1	Ba 233.527	-385.3	47.6	0.0004	mg/L		
1	Be 313.107	-2167.4	133.3	0.0001	mg/L		
1	Ca 227.547	-33.7	-1.3	-0.0160	mg/L		
1	Cd 228.802	124.8	-1.1	0.0000	mg/L		
1	Co 228.616	67.7	-3.8	-0.0001	mg/L		
1	Cr 267.716	-69.9	-7.0	-0.0002	mg/L		
1	Cu 324.754	422.5	-126.0	-0.0011	mg/L		
1	Fe 273.955	-163.7	16.0	0.0008	mg/L		
1	K 766.491	6052.9	-34.4	0.0698	mg/L		
1	Mg 279.079	-958.8	56.4	0.0058	mg/L		
1	Mn 257.610	-3181.2	202.0	0.0005	mg/L		
1	Mo 202.030	-92.0	22.4	0.0016	mg/L		
1	Na 330.237	1094.8	-139.2	0.2963	mg/L		
1	Ni 231.604	-44.5	8.6	0.0002	mg/L		
1	Pb 220.353	310.2	-24.3	-0.0017	mg/L		
1	Sb 206.833	33.4	2.7	0.0011	mg/L		
1	Se 196.026	-4.1	-8.6	-0.0026	mg/L		
1	Tl 190.800	-35.6	-1.8	-0.0006	mg/L		
1	V 292.402	298.2	15.7	0.0002	mg/L		
1	Zn 213.856	-41.6	2.1	0.0000	mg/L		
2	Ag 328.068	-334.8	85.7	0.0011	mg/L		
2	Al 308.215	421.6	-20.9	-0.0022	mg/L		
2	As 188.979	-6.5	3.9	0.0014	mg/L		
2	Ba 233.527	-407.0	25.9	0.0002	mg/L		
2	Be 313.107	-2133.9	166.8	0.0001	mg/L		
2	Ca 227.547	-35.4	-3.0	-0.0369	mg/L		
2	Cd 228.802	107.5	-18.4	-0.0004	mg/L		
2	Co 228.616	63.4	-8.1	-0.0002	mg/L		
2	Cr 267.716	-73.4	-10.5	-0.0002	mg/L		
2	Cu 324.754	533.1	-15.4	-0.0001	mg/L		
2	Fe 273.955	-155.7	23.9	0.0011	mg/L		
2	K 766.491	5750.1	-337.2	0.0638	mg/L		
2	Mg 279.079	-984.3	30.8	0.0032	mg/L		
2	Mn 257.610	-3168.0	215.2	0.0005	mg/L		
2	Mo 202.030	-104.9	9.6	0.0007	mg/L		
2	Na 330.237	1097.2	-136.8	0.3019	mg/L		
2	Ni 231.604	-36.8	16.3	0.0004	mg/L		
2	Pb 220.353	309.1	-25.4	-0.0018	mg/L		
2	Sb 206.833	29.0	-1.8	-0.0007	mg/L		
2	Se 196.026	-1.1	-5.6	-0.0017	mg/L		
2	Tl 190.800	-28.2	5.6	0.0018	mg/L		
2	V 292.402	105.0	-177.6	-0.0018	mg/L		
2	Zn 213.856	-52.3	-8.6	-0.0002	mg/L		
3	Ag 328.068	-342.9	77.6	0.0010	mg/L		
3	Al 308.215	409.5	-33.0	-0.0035	mg/L		
3	As 188.979	-15.9	-5.5	-0.0020	mg/L		
3	Ba 233.527	-405.8	27.1	0.0002	mg/L		
3	Be 313.107	-2214.6	86.1	0.0000	mg/L		

3 Ca 227.547	-31.1	1.2	0.0148 mg/L
3 Cd 228.802	109.5	-16.4	-0.0004 mg/L
3 Co 228.616	80.0	8.5	0.0002 mg/L
3 Cr 267.716	-45.2	17.7	0.0004 mg/L
3 Cu 324.754	487.6	-60.9	-0.0005 mg/L
3 Fe 273.955	-156.2	23.4	0.0011 mg/L
3 K 766.491	5299.2	-788.1	0.0550 mg/L
3 Mg 279.079	-1119.9	-104.8	-0.0107 mg/L
3 Mn 257.610	-3205.9	177.3	0.0004 mg/L
3 Mo 202.030	-104.4	10.0	0.0007 mg/L
3 Na 330.237	1262.9	28.9	0.6901 mg/L
3 Ni 231.604	-40.9	12.2	0.0003 mg/L
3 Pb 220.353	304.9	-29.7	-0.0021 mg/L
3 Sb 206.833	23.6	-7.2	-0.0029 mg/L
3 Se 196.026	-0.5	-5.0	-0.0015 mg/L
3 Tl 190.800	-39.4	-5.6	-0.0018 mg/L
3 V 292.402	241.3	-41.3	-0.0004 mg/L
3 Zn 213.856	-48.7	-5.0	-0.0001 mg/L

Mean Data

ID: CCB	Seq. No.: 90	Sample No.: 6	A/S Pos: 1
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 04/28/03	03:39:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	62.2	0.0008	0.00044	mg/L				54.71%
Al 308.215	-24.4	-0.0026	0.00080	mg/L				30.57%
As 188.979	-3.2	-0.0011	0.00223	mg/L				196.87%
Ba 233.527	33.5	0.0003	0.00011	mg/L				36.42%
Be 313.107	128.8	0.0001	0.00002	mg/L				31.50%
Ca 227.547	-1.0	-0.0127	0.02600	mg/L				204.64%
Cd 228.802	-12.0	-0.0003	0.00023	mg/L				78.94%
Co 228.616	-1.1	0.0000	0.00024	mg/L				756.04%
Cr 267.716	0.1	0.0000	0.00033	mg/L				>999.9%
Cu 324.754	-67.4	-0.0006	0.00049	mg/L				82.38%
Fe 273.955	21.1	0.0010	0.00021	mg/L				21.11%
K 766.491	-386.6	0.0629	0.00742	mg/L				11.80%
Mg 279.079	-5.9	-0.0006	0.00886	mg/L				>999.9%
Mn 257.610	198.2	0.0005	0.00004	mg/L				9.71%
Mo 202.030	14.0	0.0010	0.00053	mg/L				52.00%
Na 330.237	-82.4	0.4294	0.22578	mg/L				52.58%
Ni 231.604	12.3	0.0003	0.00010	mg/L				31.24%
Pb 220.353	-26.5	-0.0018	0.00020	mg/L				10.68%
Sb 206.833	-2.1	-0.0008	0.00197	mg/L				235.60%
Se 196.026	-6.4	-0.0019	0.00058	mg/L				30.10%
Tl 190.800	-0.6	-0.0002	0.00178	mg/L				978.71%
V 292.402	-67.8	-0.0007	0.00098	mg/L				146.60%
Zn 213.856	-3.8	-0.0001	0.00010	mg/L				143.19%

Replicate Data

ID: 2905-11 F=50	Date: 04/28/03	03:42:51 PM
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Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-168.3	252.2	0.0033 mg/L	0.1649 ppm
1	Al 308.215	1569875.2	1569432.6	167.9 mg/L	8394 ppm
1	As 188.979	46.4	56.8	0.0490 mg/L	2.452 ppm
1	Ba 233.527	151385.8	151818.7	1.381 mg/L	69.03 ppm
1	Be 313.107	1021.2	3321.9	0.0013 mg/L	0.0671 ppm
1	Ca 227.547	10700.2	10732.5	127.7 mg/L	6387 ppm
1	Cd 228.802	110.6	-15.3	-0.0004 mg/L	-0.0184 ppm
1	Co 228.616	4940.4	4868.9	0.1339 mg/L	6.694 ppm
1	Cr 267.716	23076.2	23139.1	0.4966 mg/L	24.83 ppm
1	Cu 324.754	41243.5	40695.0	0.3773 mg/L	18.87 ppm
1	Fe 273.955	6050970.9	6051150.6	284.1 mg/L	14210 ppm
1	K 766.491	1449656.6	1443569.3	23.64 mg/L	1182 ppm
1	Mg 279.079	767971.7	768986.8	78.68 mg/L	3934 ppm
1	Mn 257.610	2076841.7	2080224.9	4.857 mg/L	242.9 ppm
1	Mo 202.030	201.6	316.0	0.0155 mg/L	0.7726 ppm
1	Na 330.237	3590.3	2356.2	6.118 mg/L	305.9 ppm
1	Ni 231.604	15503.4	15556.5	0.3868 mg/L	19.34 ppm

1 Pb 220.353	4303.5	3968.9	0.2778 mg/L	13.89 ppm
1 Sb 206.833	106.9	76.2	0.0101 mg/L	0.5050 ppm
1 Se 196.026	-41.2	-45.7	0.0373 mg/L	1.864 ppm
1 Tl 190.800	-78.6	-44.7	-0.0118 mg/L	-0.5889 ppm
1 V 292.402	54334.3	54051.7	0.5583 mg/L	27.91 ppm
1 Zn 213.856	44765.2	44808.9	0.8249 mg/L	41.24 ppm
2 Ag 328.068	-338.5	82.0	0.0011 mg/L	0.0536 ppm
2 Al 308.215	1618683.7	1618241.1	173.1 mg/L	8655 ppm
2 As 188.979	43.7	54.0	0.0486 mg/L	2.430 ppm
2 Ba 233.527	154423.1	154856.0	1.408 mg/L	70.40 ppm
2 Be 313.107	1153.1	3453.9	0.0014 mg/L	0.0697 ppm
2 Ca 227.547	11272.3	11304.6	134.6 mg/L	6732 ppm
2 Cd 228.802	141.4	15.5	0.0004 mg/L	0.0187 ppm
2 Co 228.616	5086.5	5015.0	0.1379 mg/L	6.894 ppm
2 Cr 267.716	24345.0	24407.9	0.5241 mg/L	26.21 ppm
2 Cu 324.754	42488.3	41939.8	0.3886 mg/L	19.43 ppm
2 Fe 273.955	6151759.1	6151938.7	288.8 mg/L	14440 ppm
2 K 766.491	1552705.7	1546618.4	25.08 mg/L	1254 ppm
2 Mg 279.079	781306.4	782321.5	80.05 mg/L	4002 ppm
2 Mn 257.610	2121514.2	2124897.4	4.961 mg/L	248.1 ppm
2 Mo 202.030	196.9	311.3	0.0150 mg/L	0.7491 ppm
2 Na 330.237	3472.1	2238.1	5.844 mg/L	292.2 ppm
2 Ni 231.604	16181.3	16234.4	0.4036 mg/L	20.18 ppm
2 Pb 220.353	4348.3	4013.8	0.2811 mg/L	14.06 ppm
2 Sb 206.833	80.2	49.4	-0.0010 mg/L	-0.0524 ppm
2 Se 196.026	-145.8	-150.3	0.0064 mg/L	0.3188 ppm
2 Tl 190.800	-76.1	-42.3	-0.0110 mg/L	-0.5480 ppm
2 V 292.402	55862.3	55579.7	0.5738 mg/L	28.69 ppm
2 Zn 213.856	46017.6	46061.3	0.8481 mg/L	42.41 ppm
3 Ag 328.068	-306.4	114.1	0.0015 mg/L	0.0746 ppm
3 Al 308.215	1679419.7	1678977.1	179.6 mg/L	8980 ppm
3 As 188.979	55.8	66.1	0.0521 mg/L	2.604 ppm
3 Ba 233.527	158671.2	159104.1	1.446 mg/L	72.31 ppm
3 Be 313.107	1050.5	3351.2	0.0014 mg/L	0.0677 ppm
3 Ca 227.547	11220.4	11252.8	134.1 mg/L	6705 ppm
3 Cd 228.802	147.4	21.5	0.0005 mg/L	0.0259 ppm
3 Co 228.616	5050.2	4978.7	0.1369 mg/L	6.845 ppm
3 Cr 267.716	23632.2	23695.1	0.5088 mg/L	25.44 ppm
3 Cu 324.754	44112.7	43564.2	0.4023 mg/L	20.11 ppm
3 Fe 273.955	5964102.8	5964282.4	280.0 mg/L	14000 ppm
3 K 766.491	1553433.4	1547346.1	25.09 mg/L	1254 ppm
3 Mg 279.079	799901.7	800916.8	81.95 mg/L	4097 ppm
3 Mn 257.610	2183999.2	2187382.5	5.107 mg/L	255.4 ppm
3 Mo 202.030	270.3	384.7	0.0206 mg/L	1.028 ppm
3 Na 330.237	3575.4	2341.4	6.084 mg/L	304.2 ppm
3 Ni 231.604	15861.5	15914.6	0.3957 mg/L	19.78 ppm
3 Pb 220.353	4367.9	4033.4	0.2833 mg/L	14.17 ppm
3 Sb 206.833	98.8	68.1	0.0071 mg/L	0.3527 ppm
3 Se 196.026	-121.4	-125.9	0.0122 mg/L	0.6099 ppm
3 Tl 190.800	-71.8	-38.0	-0.0096 mg/L	-0.4804 ppm
3 V 292.402	57655.7	57373.1	0.5909 mg/L	29.54 ppm
3 Zn 213.856	47511.0	47554.7	0.8766 mg/L	43.83 ppm

Mean Data

ID: 2905-11 F=50 Seq. No.: 91 Sample No.: 63 A/S Pos: 72
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 03:42:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	149.4	0.0020	0.00118	mg/L	0.0977	0.05914	ppm	60.52%
Al 308.215	1622217.0	173.5	5.87	mg/L	8676	293.5	ppm	3.38%
As 188.979	59.0	0.0499	0.00189	mg/L	2.495	0.0944	ppm	3.78%
Ba 233.527	155259.6	1.412	0.0330	mg/L	70.58	1.651	ppm	2.34%
Be 313.107	3375.7	0.0014	0.00003	mg/L	0.0682	0.00140	ppm	2.05%
Ca 227.547	11096.6	132.2	3.84	mg/L	6608	191.9	ppm	2.90%
Cd 228.802	7.2	0.0002	0.00048	mg/L	0.0087	0.02379	ppm	272.32%
Co 228.616	4954.2	0.1362	0.00209	mg/L	6.811	0.1046	ppm	1.54%
Cr 267.716	23747.4	0.5098	0.01379	mg/L	25.49	0.689	ppm	2.70%
Cu 324.754	42066.4	0.3894	0.01249	mg/L	19.47	0.625	ppm	3.21%
Fe 273.955	6055790.6	284.3	4.41	mg/L	14220	220.5	ppm	1.55%

K 766.491	1512511.3	24.60	0.830 mg/L	1230	41.5 ppm	3.37%
Mg 279.079	784075.1	80.22	1.641 mg/L	4011	82.0 ppm	2.05%
Mn 257.610	2130834.9	4.975	0.1257 mg/L	248.8	6.28 ppm	2.53%
Mo 202.030	337.3	0.0170	0.00309 mg/L	0.8499	0.15458 ppm	18.19%
Na 330.237	2311.9	6.015	0.1495 mg/L	300.8	7.47 ppm	2.48%
Ni 231.604	15901.8	0.3953	0.00843 mg/L	19.77	0.422 ppm	2.13%
Pb 220.353	4005.4	0.2808	0.00277 mg/L	14.04	0.138 ppm	0.99%
Sb 206.833	64.6	0.0054	0.00576 mg/L	0.2684	0.28810 ppm	107.32%
Se 196.026	-107.3	0.0186	0.01642 mg/L	0.9309	0.82100 ppm	88.20%
Tl 190.800	-41.7	-0.0108	0.00110 mg/L	-0.5391	0.05481 ppm	10.17%
V 292.402	55668.2	0.5743	0.01630 mg/L	28.72	0.815 ppm	2.84%
Zn 213.856	46141.6	0.8499	0.02590 mg/L	42.49	1.295 ppm	3.05%

Replicate Data
ID: 2905-12 F=50

Date: 04/28/03 03:45:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-322.1	98.4	0.0013	mg/L	0.0643	ppm
1	Al 308.215	682257.3	681814.8	72.93	mg/L	3647	ppm
1	As 188.979	307.3	317.6	0.1385	mg/L	6.924	ppm
1	Ba 233.527	16463.0	16895.9	0.1589	mg/L	7.947	ppm
1	Be 313.107	-9085.5	-6784.7	-0.0027	mg/L	-0.1370	ppm
1	Ca 227.547	11313.8	11346.1	135.7	mg/L	6784	ppm
1	Cd 228.802	79.3	-46.6	-0.0011	mg/L	-0.0562	ppm
1	Co 228.616	4595.3	4523.8	0.1244	mg/L	6.219	ppm
1	Cr 267.716	28796.6	28859.5	0.6227	mg/L	31.13	ppm
1	Cu 324.754	7192.0	6643.5	0.0743	mg/L	3.716	ppm
1	Fe 273.955	4918362.7	4918542.4	230.9	mg/L	11550	ppm
1	K 766.491	629322.3	623235.0	11.22	mg/L	560.8	ppm
1	Mg 279.079	744082.5	745097.6	76.24	mg/L	3812	ppm
1	Mn 257.610	1672270.4	1675653.6	3.913	mg/L	195.6	ppm
1	Mo 202.030	-54.0	60.4	-0.0017	mg/L	-0.0869	ppm
1	Na 330.237	1362.0	127.9	0.9221	mg/L	46.11	ppm
1	Ni 231.604	24583.8	24636.9	0.6125	mg/L	30.63	ppm
1	Pb 220.353	1356.2	1021.6	0.0677	mg/L	3.386	ppm
1	Sb 206.833	39.0	8.2	-0.0144	mg/L	-0.7187	ppm
1	Se 196.026	-44.7	-49.2	0.0266	mg/L	1.332	ppm
1	Tl 190.800	-71.4	-37.6	-0.0100	mg/L	-0.5012	ppm
1	V 292.402	35377.6	35095.0	0.3662	mg/L	18.31	ppm
1	Zn 213.856	19653.3	19697.0	0.3568	mg/L	17.84	ppm
2	Ag 328.068	-328.7	91.8	0.0012	mg/L	0.0601	ppm
2	Al 308.215	693190.4	692747.8	74.10	mg/L	3705	ppm
2	As 188.979	315.1	325.4	0.1414	mg/L	7.068	ppm
2	Ba 233.527	16328.7	16761.5	0.1578	mg/L	7.888	ppm
2	Be 313.107	-9118.8	-6818.0	-0.0028	mg/L	-0.1376	ppm
2	Ca 227.547	11033.0	11065.3	132.3	mg/L	6613	ppm
2	Cd 228.802	164.0	38.1	0.0009	mg/L	0.0459	ppm
2	Co 228.616	4483.9	4412.4	0.1213	mg/L	6.066	ppm
2	Cr 267.716	28446.2	28509.2	0.6150	mg/L	30.75	ppm
2	Cu 324.754	7387.6	6839.1	0.0761	mg/L	3.807	ppm
2	Fe 273.955	4944846.9	4945026.5	232.2	mg/L	11610	ppm
2	K 766.491	639847.6	633760.3	11.39	mg/L	569.5	ppm
2	Mg 279.079	749597.3	750612.4	76.80	mg/L	3840	ppm
2	Mn 257.610	1674937.9	1678321.1	3.919	mg/L	195.9	ppm
2	Mo 202.030	-21.3	93.2	0.0006	mg/L	0.0306	ppm
2	Na 330.237	1232.6	-1.4	0.6192	mg/L	30.96	ppm
2	Ni 231.604	24056.9	24109.9	0.5994	mg/L	29.97	ppm
2	Pb 220.353	1127.2	792.7	0.0519	mg/L	2.597	ppm
2	Sb 206.833	47.1	16.4	-0.0112	mg/L	-0.5576	ppm
2	Se 196.026	-143.6	-148.0	-0.0031	mg/L	-0.1573	ppm
2	Tl 190.800	-118.5	-84.7	-0.0248	mg/L	-1.240	ppm
2	V 292.402	35551.3	35268.7	0.3680	mg/L	18.40	ppm
2	Zn 213.856	19195.2	19238.9	0.3482	mg/L	17.41	ppm
3	Ag 328.068	-375.7	44.8	0.0006	mg/L	0.0293	ppm
3	Al 308.215	695444.9	695002.4	74.34	mg/L	3717	ppm
3	As 188.979	195.6	206.0	0.0985	mg/L	4.927	ppm
3	Ba 233.527	16288.8	16721.7	0.1574	mg/L	7.871	ppm
3	Be 313.107	-9096.9	-6796.2	-0.0027	mg/L	-0.1372	ppm
3	Ca 227.547	11244.0	11276.3	134.8	mg/L	6741	ppm

1 Sb 206.833	45.4	14.7	-0.0096 mg/L	-0.4815 ppm
1 Se 196.026	-114.6	-119.0	0.0082 mg/L	0.4122 ppm
1 Tl 190.800	-70.8	-37.0	-0.0101 mg/L	-0.5028 ppm
1 V 292.402	51566.0	51283.5	0.5278 mg/L	26.39 ppm
1 Zn 213.856	32114.5	32158.2	0.5897 mg/L	29.48 ppm
2 Ag 328.068	-413.4	7.1	0.0001 mg/L	0.0046 ppm
2 Al 308.215	1695810.6	1695368.0	181.4 mg/L	9068 ppm
2 As 188.979	14.4	24.7	0.0311 mg/L	1.553 ppm
2 Ba 233.527	214765.1	215197.9	1.952 mg/L	97.62 ppm
2 Be 313.107	6128.3	8429.0	0.0034 mg/L	0.1702 ppm
2 Ca 227.547	11912.6	11944.9	142.9 mg/L	7144 ppm
2 Cd 228.802	168.0	42.1	0.0010 mg/L	0.0508 ppm
2 Co 228.616	3793.2	3721.7	0.1023 mg/L	5.117 ppm
2 Cr 267.716	12770.9	12833.8	0.2732 mg/L	13.66 ppm
2 Cu 324.754	46302.6	45754.1	0.4187 mg/L	20.94 ppm
2 Fe 273.955	5102653.2	5102832.9	239.6 mg/L	11980 ppm
2 K 766.491	1561583.9	1555496.6	25.20 mg/L	1260 ppm
2 Mg 279.079	539468.7	540483.8	55.30 mg/L	2765 ppm
2 Mn 257.610	1365805.7	1369188.9	3.197 mg/L	159.8 ppm
2 Mo 202.030	-159.0	-44.6	-0.0096 mg/L	-0.4807 ppm
2 Na 330.237	2017.1	783.1	2.454 mg/L	122.7 ppm
2 Ni 231.604	11008.8	11061.9	0.2750 mg/L	13.75 ppm
2 Pb 220.353	3034.6	2700.0	0.1924 mg/L	9.619 ppm
2 Sb 206.833	22.8	-8.0	-0.0183 mg/L	-0.9133 ppm
2 Se 196.026	-95.8	-100.2	0.0127 mg/L	0.6350 ppm
2 Tl 190.800	-27.5	6.3	0.0035 mg/L	0.1747 ppm
2 V 292.402	50073.1	49790.5	0.5125 mg/L	25.62 ppm
2 Zn 213.856	30929.5	30973.2	0.5678 mg/L	28.39 ppm
3 Ag 328.068	-397.1	23.4	0.0003 mg/L	0.0153 ppm
3 Al 308.215	1756140.5	1755697.9	187.8 mg/L	9390 ppm
3 As 188.979	4.8	15.2	0.0281 mg/L	1.403 ppm
3 Ba 233.527	218685.7	219118.6	1.988 mg/L	99.40 ppm
3 Be 313.107	6205.6	8506.4	0.0034 mg/L	0.1717 ppm
3 Ca 227.547	11314.3	11346.7	135.6 mg/L	6778 ppm
3 Cd 228.802	101.4	-24.5	-0.0006 mg/L	-0.0295 ppm
3 Co 228.616	3657.7	3586.2	0.0986 mg/L	4.930 ppm
3 Cr 267.716	12092.6	12155.5	0.2583 mg/L	12.92 ppm
3 Cu 324.754	47965.7	47417.2	0.4337 mg/L	21.68 ppm
3 Fe 273.955	5200910.8	5201090.4	244.2 mg/L	12210 ppm
3 K 766.491	1678815.8	1672728.5	26.80 mg/L	1340 ppm
3 Mg 279.079	549382.6	550397.8	56.32 mg/L	2816 ppm
3 Mn 257.610	1391871.2	1395254.4	3.258 mg/L	162.9 ppm
3 Mo 202.030	-121.4	-7.0	-0.0070 mg/L	-0.3499 ppm
3 Na 330.237	2088.0	854.0	2.620 mg/L	131.0 ppm
3 Ni 231.604	10573.5	10626.6	0.2642 mg/L	13.21 ppm
3 Pb 220.353	2897.5	2562.9	0.1833 mg/L	9.165 ppm
3 Sb 206.833	43.8	13.0	-0.0102 mg/L	-0.5077 ppm
3 Se 196.026	-109.6	-114.1	0.0093 mg/L	0.4662 ppm
3 Tl 190.800	-92.8	-59.0	-0.0170 mg/L	-0.8497 ppm
3 V 292.402	51454.3	51171.7	0.5265 mg/L	26.33 ppm
3 Zn 213.856	30014.2	30057.9	0.5504 mg/L	27.52 ppm

Mean Data

ID: 2905-13 F=50 Seq. No.: 93 Sample No.: 65 A/S Pos: 74
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Data: Original Date: 04/28/03 03:48:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-11.2	-0.0001	0.00061	mg/L	-0.0073	0.03036	ppm	415.80%
Al 308.215	1734340.1	185.5	3.62	mg/L	9276	180.8	ppm	1.95%
As 188.979	21.4	0.0302	0.00191	mg/L	1.512	0.0953	ppm	6.30%
Ba 233.527	218665.4	1.984	0.0296	mg/L	99.20	1.481	ppm	1.49%
Be 313.107	8588.0	0.0035	0.00009	mg/L	0.1734	0.00428	ppm	2.47%
Ca 227.547	11867.8	141.9	5.91	mg/L	7095	295.6	ppm	4.17%
Cd 228.802	30.1	0.0007	0.00120	mg/L	0.0363	0.05989	ppm	164.97%
Co 228.616	3720.8	0.1023	0.00369	mg/L	5.115	0.1844	ppm	3.60%
Cr 267.716	12697.0	0.2701	0.01062	mg/L	13.51	0.531	ppm	3.93%
Cu 324.754	46967.3	0.4297	0.00958	mg/L	21.48	0.479	ppm	2.23%
Fe 273.955	5184748.0	243.4	3.53	mg/L	12170	176.3	ppm	1.45%
K 766.491	1622810.8	26.12	0.826	mg/L	1306	41.3	ppm	3.3806

Mg 279.079	549481.1	56.22	0.877 mg/L	2811	43.9 ppm	1.56%
Mn 257.610	1392179.8	3.251	0.0505 mg/L	162.5	2.52 ppm	1.55%
Mo 202.030	-9.9	-0.0072	0.00233 mg/L	-0.3596	0.11650 ppm	32.40%
Na 330.237	873.4	2.665	0.2371 mg/L	133.3	11.85 ppm	8.89%
Ni 231.604	11009.4	0.2737	0.00894 mg/L	13.69	0.447 ppm	3.26%
Pb 220.353	2648.2	0.1890	0.00497 mg/L	9.450	0.2483 ppm	2.63%
Sb 206.833	6.6	-0.0127	0.00484 mg/L	-0.6342	0.24213 ppm	38.18%
Se 196.026	-111.1	0.0101	0.00233 mg/L	0.5045	0.11627 ppm	23.05%
Tl 190.800	-29.9	-0.0079	0.01042 mg/L	-0.3926	0.52099 ppm	132.71%
V 292.402	50748.5	0.5223	0.00851 mg/L	26.11	0.426 ppm	1.63%
Zn 213.856	31063.1	0.5693	0.01967 mg/L	28.47	0.984 ppm	3.46%

Replicate Data
ID: 2905-14 F=50

Date: 04/28/03 03:50:43 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Units
1	Ag 328.068	-371.5	49.0	0.0006	mg/L	0.0320	ppm
1	Al 308.215	758184.3	757741.7	81.05	mg/L	4053	ppm
1	As 188.979	138.0	148.3	0.0737	mg/L	3.685	ppm
1	Ba 233.527	51508.5	51941.4	0.4748	mg/L	23.74	ppm
1	Be 313.107	-10115.2	-7814.5	-0.0032	mg/L	-0.1578	ppm
1	Ca 227.547	8754.2	8786.5	106.8	mg/L	5338	ppm
1	Cd 228.802	131.1	5.2	0.0001	mg/L	0.0063	ppm
1	Co 228.616	4329.8	4258.3	0.1171	mg/L	5.854	ppm
1	Cr 267.716	28421.5	28484.4	0.6156	mg/L	30.78	ppm
1	Cu 324.754	10511.4	9962.9	0.1006	mg/L	5.031	ppm
1	Fe 273.955	4028347.9	4028527.6	189.1	mg/L	9457	ppm
1	K 766.491	503722.0	497634.7	9.115	mg/L	455.8	ppm
1	Mg 279.079	544700.7	545715.8	55.84	mg/L	2792	ppm
1	Mn 257.610	1436315.4	1439698.6	3.362	mg/L	168.1	ppm
1	Mo 202.030	-123.9	-9.5	-0.0057	mg/L	-0.2857	ppm
1	Na 330.237	1368.2	134.2	0.9368	mg/L	46.84	ppm
1	Ni 231.604	22572.8	22625.9	0.5625	mg/L	28.13	ppm
1	Pb 220.353	1425.8	1091.3	0.0757	mg/L	3.786	ppm
1	Sb 206.833	52.0	21.3	-0.0065	mg/L	-0.3238	ppm
1	Se 196.026	-86.0	-90.5	0.0066	mg/L	0.3291	ppm
1	Tl 190.800	-79.0	-45.2	-0.0130	mg/L	-0.6517	ppm
1	V 292.402	37997.3	37714.7	0.3888	mg/L	19.44	ppm
1	Zn 213.856	19361.2	19404.9	0.3536	mg/L	17.68	ppm
2	Ag 328.068	-315.8	104.7	0.0014	mg/L	0.0684	ppm
2	Al 308.215	754524.5	754082.0	80.66	mg/L	4033	ppm
2	As 188.979	139.4	149.7	0.0740	mg/L	3.702	ppm
2	Ba 233.527	50852.4	51285.3	0.4688	mg/L	23.44	ppm
2	Be 313.107	-10067.7	-7767.0	-0.0031	mg/L	-0.1568	ppm
2	Ca 227.547	8698.6	8731.0	106.1	mg/L	5304	ppm
2	Cd 228.802	106.0	-19.9	-0.0005	mg/L	-0.0240	ppm
2	Co 228.616	4193.0	4121.5	0.1133	mg/L	5.666	ppm
2	Cr 267.716	27852.0	27914.9	0.6033	mg/L	30.16	ppm
2	Cu 324.754	10430.3	9881.8	0.0998	mg/L	4.992	ppm
2	Fe 273.955	4002827.1	4003006.8	187.9	mg/L	9397	ppm
2	K 766.491	518285.7	512198.5	9.362	mg/L	468.1	ppm
2	Mg 279.079	539045.6	540060.7	55.26	mg/L	2763	ppm
2	Mn 257.610	1424502.6	1427885.8	3.334	mg/L	166.7	ppm
2	Mo 202.030	-138.1	-23.7	-0.0067	mg/L	-0.3360	ppm
2	Na 330.237	1397.4	163.4	1.005	mg/L	50.25	ppm
2	Ni 231.604	22222.9	22276.0	0.5538	mg/L	27.69	ppm
2	Pb 220.353	1337.0	1002.5	0.0696	mg/L	3.479	ppm
2	Sb 206.833	105.6	74.9	0.0151	mg/L	0.7553	ppm
2	Se 196.026	-67.9	-72.4	0.0119	mg/L	0.5936	ppm
2	Tl 190.800	-74.9	-41.1	-0.0117	mg/L	-0.5867	ppm
2	V 292.402	37806.5	37523.9	0.3868	mg/L	19.34	ppm
2	Zn 213.856	19142.4	19186.1	0.3496	mg/L	17.48	ppm
3	Ag 328.068	-322.4	98.1	0.0013	mg/L	0.0641	ppm
3	Al 308.215	747448.8	747006.3	79.91	mg/L	3995	ppm
3	As 188.979	114.3	124.6	0.0649	mg/L	3.243	ppm
3	Ba 233.527	50340.0	50772.9	0.4592	mg/L	22.96	ppm
3	Be 313.107	-9893.0	-7592.3	-0.0031	mg/L	-0.1533	ppm
3	Ca 227.547	8874.8	8907.2	108.2	mg/L	5411	ppm
3	Cd 228.802	120.0	-5.9	-0.0001	mg/L	-0.0072	ppm

3 Co 228.616	4186.0	4114.5	0.1131 mg/L	5.657 ppm
3 Cr 267.716	28020.4	28083.3	0.6070 mg/L	30.35 ppm
3 Cu 324.754	10534.9	9986.4	0.1006 mg/L	5.031 ppm
3 Fe 273.955	3964549.7	3964729.4	186.1 mg/L	9307 ppm
3 K 766.491	521162.5	515075.3	9.411 mg/L	470.5 ppm
3 Mg 279.079	532826.0	533841.1	54.62 mg/L	2731 ppm
3 Mn 257.610	1411605.3	1414988.5	3.304 mg/L	165.2 ppm
3 Mo 202.030	-119.4	-4.9	-0.0053 mg/L	-0.2653 ppm
3 Na 330.237	1491.2	257.2	1.225 mg/L	61.24 ppm
3 Ni 231.604	22240.9	22294.0	0.5543 mg/L	27.71 ppm
3 Pb 220.353	1293.6	959.0	0.0666 mg/L	3.329 ppm
3 Sb 206.833	57.9	27.1	-0.0039 mg/L	-0.1949 ppm
3 Se 196.026	-117.9	-122.4	-0.0036 mg/L	-0.1816 ppm
3 Tl 190.800	-54.5	-20.7	-0.0053 mg/L	-0.2669 ppm
3 V 292.402	37073.7	36791.1	0.3794 mg/L	18.97 ppm
3 Zn 213.856	19189.3	19233.1	0.3506 mg/L	17.53 ppm

Mean Data

ID: 2905-14 F=50 Seq. No.: 94 Sample No.: 66 A/S Pos: 75
 Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
 Date: 04/28/03 03:50:43 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	83.9	0.0011	0.00040	mg/L	0.0549	0.01989	ppm	36.25%
Al 308.215	752943.3	80.54	0.584	mg/L	4027	29.2	ppm	0.72%
As 188.979	140.9	0.0709	0.00520	mg/L	3.543	0.2602	ppm	7.34%
Ba 233.527	51333.2	0.4676	0.00787	mg/L	23.38	0.394	ppm	1.68%
Be 313.107	-7724.6	-0.0031	0.00005	mg/L	-0.1559	0.00236	ppm	1.51%
Ca 227.547	8808.2	107.0	1.09	mg/L	5351	54.7	ppm	1.02%
Cd 228.802	-6.9	-0.0002	0.00030	mg/L	-0.0083	0.01514	ppm	182.89%
Co 228.616	4164.8	0.1145	0.00223	mg/L	5.726	0.1115	ppm	1.95%
Cr 267.716	28160.9	0.6086	0.00635	mg/L	30.43	0.318	ppm	1.04%
Cu 324.754	9943.7	0.1004	0.00046	mg/L	5.018	0.0230	ppm	0.46%
Fe 273.955	3998754.6	187.7	1.51	mg/L	9387	75.4	ppm	0.80%
K 766.491	508302.8	9.296	0.1585	mg/L	464.8	7.92	ppm	1.70%
Mg 279.079	539872.5	55.24	0.608	mg/L	2762	30.4	ppm	1.10%
Mn 257.610	1427524.3	3.333	0.0289	mg/L	166.7	1.44	ppm	0.87%
Mo 202.030	-12.7	-0.0059	0.00073	mg/L	-0.2957	0.03639	ppm	12.31%
Na 330.237	184.9	0.1056	0.1505	mg/L	52.78	7.523	ppm	14.25%
Ni 231.604	22398.6	0.5569	0.00490	mg/L	27.84	0.245	ppm	0.88%
Pb 220.353	1017.6	0.0706	0.00466	mg/L	3.531	0.2332	ppm	6.60%
Sb 206.833	41.1	0.0016	0.01179	mg/L	0.0789	0.58938	ppm	747.27%
Se 196.026	-95.1	0.0049	0.00788	mg/L	0.2470	0.39404	ppm	159.53%
Tl 190.800	-35.6	-0.0100	0.00412	mg/L	-0.5018	0.20596	ppm	41.05%
V 292.402	37343.2	0.3850	0.00495	mg/L	19.25	0.247	ppm	1.29%
Zn 213.856	19274.7	0.3513	0.00211	mg/L	17.56	0.105	ppm	0.60%

Replicate Data

ID: 2905-16 F=50 Date: 04/28/03 03:53:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-273.5	147.0	0.0019	mg/L	0.0962	ppm
1	Al 308.215	998868.0	998425.5	106.8	mg/L	5340	ppm
1	As 188.979	97.2	107.5	0.0620	mg/L	3.102	ppm
1	Ba 233.527	66715.5	67148.4	0.6129	mg/L	30.65	ppm
1	Be 313.107	-13634.0	-11333.3	-0.0046	mg/L	-0.2288	ppm
1	Ca 227.547	4254.0	4286.3	50.07	mg/L	2503	ppm
1	Cd 228.802	104.4	-21.5	-0.0005	mg/L	-0.0259	ppm
1	Co 228.616	5123.7	5052.2	0.1389	mg/L	6.946	ppm
1	Cr 267.716	35366.2	35429.1	0.7663	mg/L	38.32	ppm
1	Cu 324.754	15877.7	15329.2	0.1495	mg/L	7.476	ppm
1	Fe 273.955	4560365.7	4560545.4	214.1	mg/L	10710	ppm
1	K 766.491	737761.2	731674.0	12.98	mg/L	649.1	ppm
1	Mg 279.079	637968.2	638983.3	65.38	mg/L	3269	ppm
1	Mn 257.610	1149090.0	1152473.2	2.691	mg/L	134.5	ppm
1	Mo 202.030	-173.8	-59.4	-0.0100	mg/L	-0.5005	ppm
1	Na 330.237	373.3	-860.8	-1.397	mg/L	-69.87	ppm
1	Ni 231.604	34918.2	34971.3	0.8694	mg/L	43.47	ppm
1	Pb 220.353	982.1	647.5	0.0462	mg/L	2.310	ppm
1	Sb 206.833	87.1	56.4	0.0052	mg/L	0.2620	ppm

1 Se 196.026	-57.5	-62.0	0.0197 mg/L	0.9868 ppm
1 Tl 190.800	-74.4	-40.6	-0.0114 mg/L	-0.5678 ppm
1 V 292.402	47308.2	47025.6	0.4831 mg/L	24.15 ppm
1 Zn 213.856	24974.2	25017.9	0.4575 mg/L	22.88 ppm
2 Ag 328.068	-388.8	31.7	0.0004 mg/L	0.0207 ppm
2 Al 308.215	975462.2	975019.6	104.3 mg/L	5215 ppm
2 As 188.979	60.8	71.1	0.0484 mg/L	2.418 ppm
2 Ba 233.527	64721.6	65154.4	0.5948 mg/L	29.74 ppm
2 Be 313.107	-13695.9	-11395.1	-0.0046 mg/L	-0.2301 ppm
2 Ca 227.547	4378.8	4411.1	53.59 mg/L	2680 ppm
2 Cd 228.802	46.7	-79.2	-0.0019 mg/L	-0.0955 ppm
2 Co 228.616	5064.6	4993.1	0.1373 mg/L	6.864 ppm
2 Cr 267.716	34519.4	34582.3	0.7480 mg/L	37.40 ppm
2 Cu 324.754	15457.9	14909.4	0.1455 mg/L	7.273 ppm
2 Fe 273.955	4447253.6	4447433.3	208.8 mg/L	10440 ppm
2 K 766.491	724189.5	718102.2	12.76 mg/L	638.1 ppm
2 Mg 279.079	620750.1	621765.2	63.62 mg/L	3181 ppm
2 Mn 257.610	1117621.0	1121004.2	2.617 mg/L	130.9 ppm
2 Mo 202.030	-158.3	-43.9	-0.0087 mg/L	-0.4371 ppm
2 Na 330.237	573.5	-660.5	-0.9269 mg/L	-46.34 ppm
2 Ni 231.604	34816.9	34870.0	0.8669 mg/L	43.35 ppm
2 Pb 220.353	1047.4	712.9	0.0507 mg/L	2.535 ppm
2 Sb 206.833	57.6	26.9	-0.0061 mg/L	-0.3065 ppm
2 Se 196.026	-79.6	-84.0	0.0121 mg/L	0.6041 ppm
2 Tl 190.800	-34.8	-1.0	0.0010 mg/L	0.0521 ppm
2 V 292.402	46283.2	46000.7	0.4725 mg/L	23.62 ppm
2 Zn 213.856	25178.0	25221.7	0.4617 mg/L	23.08 ppm
3 Ag 328.068	-471.6	-51.1	-0.0007 mg/L	-0.0334 ppm
3 Al 308.215	974313.9	973871.4	104.2 mg/L	5209 ppm
3 As 188.979	51.3	61.7	0.0449 mg/L	2.246 ppm
3 Ba 233.527	64154.0	64586.9	0.5896 mg/L	29.48 ppm
3 Be 313.107	-13399.1	-11098.4	-0.0045 mg/L	-0.2241 ppm
3 Ca 227.547	4226.0	4258.3	51.74 mg/L	2587 ppm
3 Cd 228.802	100.4	-25.5	-0.0006 mg/L	-0.0308 ppm
3 Co 228.616	4965.0	4893.5	0.1345 mg/L	6.727 ppm
3 Cr 267.716	34493.8	34556.7	0.7475 mg/L	37.37 ppm
3 Cu 324.754	15436.5	14888.0	0.1452 mg/L	7.262 ppm
3 Fe 273.955	4433382.8	4433562.4	208.2 mg/L	10410 ppm
3 K 766.491	725408.7	719321.4	12.78 mg/L	639.1 ppm
3 Mg 279.079	617020.3	618035.4	63.24 mg/L	3162 ppm
3 Mn 257.610	1111813.2	1115196.5	2.604 mg/L	130.2 ppm
3 Mo 202.030	-70.1	44.3	-0.0023 mg/L	-0.1153 ppm
3 Na 330.237	673.6	-560.4	-0.6918 mg/L	-34.59 ppm
3 Ni 231.604	33880.9	33934.0	0.8437 mg/L	42.18 ppm
3 Pb 220.353	876.8	542.3	0.0389 mg/L	1.945 ppm
3 Sb 206.833	41.6	10.9	-0.0125 mg/L	-0.6249 ppm
3 Se 196.026	-65.1	-69.6	0.0163 mg/L	0.8171 ppm
3 Tl 190.800	-60.9	-27.1	-0.0071 mg/L	-0.3571 ppm
3 V 292.402	46122.8	45840.2	0.4708 mg/L	23.54 ppm
3 Zn 213.856	24563.4	24607.1	0.4502 mg/L	22.51 ppm

Mean Data

ID: 2905-16 F=50

Sample Qty: 1.0000 mL

Seq. No.: 95

Prep. Vol.:

Data: Original

Sample No.: 67

1.0 mL

A/S Pos: 76

Dilution:

Date: 04/28/03

1.0: 50.0

03:53:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	42.5	0.0006	0.00130	mg/L	0.0278	0.06508	ppm	233.97%
Al 308.215	982438.8	105.1	1.48	mg/L	5255	74.1	ppm	1.41%
As 188.979	80.1	0.0518	0.00906	mg/L	2.589	0.4528	ppm	17.49%
Ba 233.527	65629.9	0.5991	0.01225	mg/L	29.96	0.613	ppm	2.05%
Be 313.107	-11275.6	-0.0046	0.00006	mg/L	-0.2276	0.00316	ppm	1.39%
Ca 227.547	4318.6	51.80	1.763	mg/L	2590	88.1	ppm	3.40%
Cd 228.802	-42.1	-0.0010	0.00078	mg/L	-0.0507	0.03887	ppm	76.59%
Co 228.616	4979.6	0.1369	0.00221	mg/L	6.846	0.1103	ppm	1.61%
Cr 267.716	34856.0	0.7539	0.01073	mg/L	37.70	0.537	ppm	1.42%
Cu 324.754	15042.2	0.1467	0.00241	mg/L	7.337	0.1206	ppm	1.64%
Fe 273.955	4480513.7	210.4	3.27	mg/L	10520	163.5	ppm	1.55%
K 766.491	723032.5	12.84	0.121	mg/L	642.1	6.04	ppm	0.94%
Mg 279.079	626261.3	64.08	1.143	mg/L	3204	57.2	ppm	1.78%

Mn 257.610	1129558.0	2.637	0.0468 mg/L	131.9	2.34 ppm	1.78%
Mo 202.030	-19.6	-0.0070	0.00413 mg/L	-0.3510	0.20655 ppm	58.85%
Na 330.237	-693.9	-1.005	0.3593 mg/L	-50.27	17.964 ppm	35.74%
Ni 231.604	34591.8	-0.8600	0.01422 mg/L	43.00	0.711 ppm	1.65%
Pb 220.353	634.2	0.0453	0.00596 mg/L	2.264	0.2979 ppm	13.16%
Sb 206.833	31.4	-0.0045	0.00899 mg/L	-0.2232	0.44930 ppm	201.33%
Se 196.026	-71.9	0.0161	0.00384 mg/L	0.8027	0.19176 ppm	23.89%
Tl 190.800	-22.9	-0.0058	0.00630 mg/L	-0.2909	0.31518 ppm	108.33%
V 292.402	46288.9	0.4755	0.00663 mg/L	23.77	0.332 ppm	1.40%
Zn 213.856	24948.9	0.4565	0.00582 mg/L	22.82	0.291 ppm	1.28%

Replicate Data
ID: 2905-17 F=50

Date: 04/28/03 03:55:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-101.6	318.9	0.0042	mg/L	0.2086	ppm
1	Al 308.215	1055526.1	1055083.5	112.9	mg/L	5643	ppm
1	As 188.979	305.6	315.9	0.1372	mg/L	6.860	ppm
1	Ba 233.527	71459.6	71892.4	0.6558	mg/L	32.79	ppm
1	Be 313.107	-8674.1	-6373.4	-0.0026	mg/L	-0.1287	ppm
1	Ca 227.547	23610.5	23642.8	285.2	mg/L	14260	ppm
1	Cd 228.802	466.3	340.4	0.0082	mg/L	0.4105	ppm
1	Co 228.616	7167.9	7096.4	0.1951	mg/L	9.756	ppm
1	Cr 267.716	38422.2	38485.1	0.8329	mg/L	41.65	ppm
1	Cu 324.754	30413.5	29865.0	0.2773	mg/L	13.86	ppm
1	Fe 273.955	4545526.7	4545706.4	213.4	mg/L	10670	ppm
1	K 766.491	932916.2	926828.9	16.05	mg/L	802.7	ppm
1	Mg 279.079	629237.5	630252.6	64.49	mg/L	3224	ppm
1	Mn 257.610	1335433.2	1338816.4	3.126	mg/L	156.3	ppm
1	Mo 202.030	-77.9	36.5	-0.0030	mg/L	-0.1508	ppm
1	Na 330.237	1167.9	-66.1	0.4676	mg/L	23.38	ppm
1	Ni 231.604	26936.7	26989.8	0.6710	mg/L	33.55	ppm
1	Pb 220.353	14365.8	14031.3	0.9717	mg/L	48.59	ppm
1	Sb 206.833	102.8	72.0	0.0112	mg/L	0.5609	ppm
1	Se 196.026	-139.4	-143.9	-0.0053	mg/L	-0.2633	ppm
1	Tl 190.800	-48.4	-14.6	-0.0041	mg/L	-0.2048	ppm
1	V 292.402	45020.8	44738.2	0.4603	mg/L	23.02	ppm
1	Zn 213.856	176761.8	176805.5	3.304	mg/L	165.2	ppm
2	Ag 328.068	5.1	425.6	0.0056	mg/L	0.2783	ppm
2	Al 308.215	1083490.8	1083048.3	115.9	mg/L	5793	ppm
2	As 188.979	317.3	327.6	0.1418	mg/L	7.089	ppm
2	Ba 233.527	72370.8	72803.6	0.6641	mg/L	33.21	ppm
2	Be 313.107	-8934.2	-6633.5	-0.0027	mg/L	-0.1339	ppm
2	Ca 227.547	23849.4	23881.7	288.1	mg/L	14410	ppm
2	Cd 228.802	473.2	347.3	0.0084	mg/L	0.4189	ppm
2	Co 228.616	7138.0	7066.5	0.1943	mg/L	9.715	ppm
2	Cr 267.716	39140.0	39202.9	0.8485	mg/L	42.42	ppm
2	Cu 324.754	30618.4	30069.9	0.2793	mg/L	13.96	ppm
2	Fe 273.955	4612437.5	4612617.1	216.6	mg/L	10830	ppm
2	K 766.491	971951.3	965864.0	16.65	mg/L	832.7	ppm
2	Mg 279.079	636810.5	637825.7	65.26	mg/L	3263	ppm
2	Mn 257.610	1355274.3	1358657.5	3.172	mg/L	158.6	ppm
2	Mo 202.030	-117.0	-2.6	-0.0059	mg/L	-0.2973	ppm
2	Na 330.237	1232.5	-1.5	0.6190	mg/L	30.95	ppm
2	Ni 231.604	26864.5	26917.6	0.6692	mg/L	33.46	ppm
2	Pb 220.353	14567.9	14233.4	0.9859	mg/L	49.29	ppm
2	Sb 206.833	154.3	123.6	0.0316	mg/L	1.578	ppm
2	Se 196.026	-39.3	-43.7	0.0257	mg/L	1.286	ppm
2	Tl 190.800	-25.8	8.0	0.0030	mg/L	0.1513	ppm
2	V 292.402	45688.8	45406.3	0.4672	mg/L	23.36	ppm
2	Zn 213.856	179677.8	179721.5	3.359	mg/L	167.9	ppm
3	Ag 328.068	-183.9	236.6	0.0031	mg/L	0.1547	ppm
3	Al 308.215	1054018.3	1053575.7	112.7	mg/L	5635	ppm
3	As 188.979	311.3	321.7	0.1391	mg/L	6.953	ppm
3	Ba 233.527	70620.4	71053.2	0.6482	mg/L	32.41	ppm
3	Be 313.107	-8837.8	-6537.1	-0.0026	mg/L	-0.1320	ppm
3	Ca 227.547	23127.8	23160.1	281.4	mg/L	14070	ppm
3	Cd 228.802	455.7	329.8	0.0080	mg/L	0.3978	ppm
3	Co 228.616	6916.4	6844.9	0.1882	mg/L	9.410	ppm

3 Cr 267.716	37965.5	38028.4	0.8230 mg/L	41.15 ppm
3 Cu 324.754	30155.6	29607.1	0.2749 mg/L	13.74 ppm
3 Fe 273.955	4505406.1	4505585.7	211.5 mg/L	10580 ppm
3 K 766.491	934815.9	928728.6	16.08 mg/L	804.1 ppm
3 Mg 279.079	622620.8	623636.0	63.81 mg/L	3190 ppm
3 Mn 257.610	1321947.2	1325330.4	3.095 mg/L	154.7 ppm
3 Mo 202.030	-107.3	7.1	-0.0051 mg/L	-0.2553 ppm
3 Na 330.237	1297.2	63.2	0.7704 mg/L	38.52 ppm
3 Ni 231.604	26302.6	26355.7	0.6552 mg/L	32.76 ppm
3 Pb 220.353	13962.6	13628.1	0.9439 mg/L	47.20 ppm
3 Sb 206.833	136.6	105.8	0.0249 mg/L	1.245 ppm
3 Se 196.026	-79.4	-83.9	0.0126 mg/L	0.6304 ppm
3 Tl 190.800	-92.5	-58.7	-0.0179 mg/L	-0.8968 ppm
3 V 292.402	44764.4	44481.8	0.4576 mg/L	22.88 ppm
3 Zn 213.856	176102.8	176146.5	3.292 mg/L	164.6 ppm

Mean Data

ID: 2905-17 F=50	Seq. No.: 96	Sample No.: 68	A/S Pos: 77
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	50.0
	Data: Original	Date: 04/28/03	03:55:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	327.0	0.0043	0.00124	mg/L	0.2139	0.06198	ppm	28.98%
Al 308.215	1063902.5	113.8	1.78	mg/L	5690	88.8	ppm	1.56%
As 188.979	321.7	0.1393	0.00230	mg/L	6.967	0.1149	ppm	1.65%
Ba 233.527	71916.4	0.6561	0.00798	mg/L	32.80	0.399	ppm	1.22%
Be 313.107	-6514.7	-0.0026	0.00005	mg/L	-0.1315	0.00265	ppm	2.02%
Ca 227.547	23561.6	284.9	3.38	mg/L	14250	169.0	ppm	1.19%
Cd 228.802	339.2	0.0082	0.00021	mg/L	0.4091	0.01062	ppm	2.60%
Co 228.616	7002.6	0.1925	0.00378	mg/L	9.627	0.1889	ppm	1.96%
Cr 267.716	38572.1	0.8348	0.01283	mg/L	41.74	0.642	ppm	1.54%
Cu 324.754	29847.3	0.2771	0.00221	mg/L	13.86	0.111	ppm	0.80%
Fe 273.955	4554636.4	213.8	2.54	mg/L	10690	126.9	ppm	1.19%
K 766.491	940473.9	16.26	0.338	mg/L	813.2	16.91	ppm	2.08%
Mg 279.079	630571.4	64.52	0.726	mg/L	3226	36.3	ppm	1.13%
Mn 257.610	1340934.8	3.131	0.0391	mg/L	156.5	1.96	ppm	1.25%
Mo 202.030	13.6	-0.0047	0.00151	mg/L	-0.2345	0.07540	ppm	32.16%
Na 330.237	-1.5	0.6190	0.15144	mg/L	30.95	7.572	ppm	24.47%
Ni 231.604	26754.3	0.6652	0.00863	mg/L	33.26	0.432	ppm	1.30%
Pb 220.353	13964.2	0.9672	0.02135	mg/L	48.36	1.067	ppm	2.21%
Sb 206.833	100.5	0.0226	0.01037	mg/L	1.128	0.5186	ppm	45.98%
Se 196.026	-90.5	0.0110	0.01555	mg/L	0.5509	0.77748	ppm	141.13%
Tl 190.800	-21.7	-0.0063	0.01066	mg/L	-0.3168	0.53294	ppm	168.25%
V 292.402	44875.4	0.4617	0.00493	mg/L	23.09	0.247	ppm	1.07%
Zn 213.856	177557.8	3.318	0.0355	mg/L	165.9	1.78	ppm	1.07%

Replicate Data

ID: 2905-18 F=50	Date: 04/28/03	03:58:32 PM
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Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	72.0	492.5	0.0064	mg/L	0.3221	ppm
1	Al 308.215	810718.1	810275.6	86.67	mg/L	4334	ppm
1	As 188.979	268.4	278.7	0.1229	mg/L	6.143	ppm
1	Ba 233.527	45643.4	46076.3	0.4223	mg/L	21.12	ppm
1	Be 313.107	-8398.7	-6098.0	-0.0025	mg/L	-0.1231	ppm
1	Ca 227.547	18834.1	18866.5	229.2	mg/L	11460	ppm
1	Cd 228.802	130.4	4.5	0.0001	mg/L	0.0055	ppm
1	Co 228.616	4447.1	4375.6	0.1203	mg/L	6.015	ppm
1	Cr 267.716	29343.5	29406.4	0.6351	mg/L	31.76	ppm
1	Cu 324.754	17644.3	17095.8	0.1650	mg/L	8.248	ppm
1	Fe 273.955	4527975.4	4528155.0	212.6	mg/L	10630	ppm
1	K 766.491	673532.5	667445.2	11.94	mg/L	597.0	ppm
1	Mg 279.079	676270.4	677285.5	69.30	mg/L	3465	ppm
1	Mn 257.610	1510339.9	1513723.1	3.534	mg/L	176.7	ppm
1	Mo 202.030	-109.5	4.9	-0.0053	mg/L	-0.2645	ppm
1	Na 330.237	1462.0	228.0	1.156	mg/L	57.82	ppm
1	Ni 231.604	26090.4	26143.5	0.6500	mg/L	32.50	ppm
1	Pb 220.353	2988.2	2653.6	0.1818	mg/L	9.090	ppm
1	Sb 206.833	125.7	95.0	0.0214	mg/L	1.072	ppm
1	Se 196.026	-66.9	-71.4	0.0166	mg/L	0.8303	ppm

1 Tl 190.800	-89.3	-55.5	-0.0168 mg/L	-0.8420 ppm
1 V 292.402	40615.2	40332.6	0.4166 mg/L	20.83 ppm
1 Zn 213.856	40366.5	40410.2	0.7463 mg/L	37.31 ppm
2 Ag 328.068	-81.9	338.6	0.0044 mg/L	0.2214 ppm
2 Al 308.215	776075.3	775632.8	82.97 mg/L	4148 ppm
2 As 188.979	185.0	195.3	0.0921 mg/L	4.604 ppm
2 Ba 233.527	43750.6	44183.5	0.4050 mg/L	20.25 ppm
2 Be 313.107	-8247.9	-5947.2	-0.0024 mg/L	-0.1201 ppm
2 Ca 227.547	19390.6	19423.0	236.0 mg/L	11800 ppm
2 Cd 228.802	107.9	-18.0	-0.0004 mg/L	-0.0217 ppm
2 Co 228.616	4417.7	4346.2	0.1195 mg/L	5.975 ppm
2 Cr 267.716	29804.7	29867.6	0.6454 mg/L	32.27 ppm
2 Cu 324.754	16900.3	16351.8	0.1578 mg/L	7.890 ppm
2 Fe 273.955	4340424.8	4340604.5	203.8 mg/L	10190 ppm
2 K 766.491	650764.5	644677.2	11.57 mg/L	578.4 ppm
2 Mg 279.079	645790.8	646805.9	66.18 mg/L	3309 ppm
2 Mn 257.610	1443971.0	1447354.2	3.379 mg/L	169.0 ppm
2 Mo 202.030	-123.5	-9.1	-0.0061 mg/L	-0.3040 ppm
2 Na 330.237	1391.1	157.1	0.9903 mg/L	49.52 ppm
2 Ni 231.604	26257.0	26310.0	0.6541 mg/L	32.71 ppm
2 Pb 220.353	2937.5	2603.0	0.1782 mg/L	8.911 ppm
2 Sb 206.833	127.9	97.1	0.0228 mg/L	1.140 ppm
2 Se 196.026	-72.1	-76.5	0.0135 mg/L	0.6728 ppm
2 Tl 190.800	-57.5	-23.7	-0.0069 mg/L	-0.3466 ppm
2 V 292.402	38918.0	38635.4	0.3991 mg/L	19.96 ppm
2 Zn 213.856	40790.8	40834.5	0.7547 mg/L	37.74 ppm
3 Ag 328.068	-132.9	287.6	0.0038 mg/L	0.1881 ppm
3 Al 308.215	757439.6	756997.1	80.98 mg/L	4049 ppm
3 As 188.979	216.3	226.6	0.1029 mg/L	5.143 ppm
3 Ba 233.527	42696.9	43129.8	0.3954 mg/L	19.77 ppm
3 Be 313.107	-7962.1	-5661.4	-0.0023 mg/L	-0.1143 ppm
3 Ca 227.547	18680.7	18713.1	227.4 mg/L	11370 ppm
3 Cd 228.802	106.2	-19.7	-0.0005 mg/L	-0.0237 ppm
3 Co 228.616	4319.9	4248.4	0.1168 mg/L	5.841 ppm
3 Cr 267.716	28841.9	28904.9	0.6245 mg/L	31.23 ppm
3 Cu 324.754	16380.3	15831.8	0.1529 mg/L	7.647 ppm
3 Fe 273.955	4253329.2	4253508.9	199.7 mg/L	9985 ppm
3 K 766.491	636519.4	630432.1	11.33 mg/L	566.7 ppm
3 Mg 279.079	633280.9	634296.0	64.90 mg/L	3245 ppm
3 Mn 257.610	1412904.5	1416287.7	3.307 mg/L	165.3 ppm
3 Mo 202.030	-89.0	25.4	-0.0035 mg/L	-0.1728 ppm
3 Na 330.237	1361.9	127.9	0.9220 mg/L	46.10 ppm
3 Ni 231.604	25788.6	25841.7	0.6425 mg/L	32.12 ppm
3 Pb 220.353	2871.1	2536.5	0.1737 mg/L	8.684 ppm
3 Sb 206.833	86.8	56.1	0.0067 mg/L	0.3370 ppm
3 Se 196.026	-31.3	-35.8	0.0251 mg/L	1.255 ppm
3 Tl 190.800	-82.6	-48.8	-0.0148 mg/L	-0.7400 ppm
3 V 292.402	38044.7	37762.1	0.3901 mg/L	19.51 ppm
3 Zn 213.856	39989.7	40033.4	0.7399 mg/L	37.00 ppm

Mean Data

ID: 2905-18 F=50
 Sample Qty: 1.0000 mL
 Seq. No.: 97
 Prep. Vol.:
 Data: Original
 Sample No.: 69
 1.0 mL
 A/S Pos: 78
 Dilution: 1.0: 50.0
 Date: 04/28/03 03:58:32 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	372.9	0.0049	0.00139	mg/L	0.2439	0.06975	ppm	28.60%
Al 308.215	780968.5	83.54	2.892	mg/L	4177	144.6	ppm	3.46%
As 188.979	233.6	0.1059	0.01561	mg/L	5.297	0.7806	ppm	14.74%
Ba 233.527	44463.2	0.4076	0.01368	mg/L	20.38	0.684	ppm	3.36%
Be 313.107	-5902.2	-0.0024	0.00009	mg/L	-0.1192	0.00448	ppm	3.76%
Ca 227.547	19000.8	230.9	4.54	mg/L	11540	226.9	ppm	1.97%
Cd 228.802	-11.0	-0.0003	0.00033	mg/L	-0.0133	0.01629	ppm	122.38%
Co 228.616	4323.4	0.1189	0.00183	mg/L	5.944	0.0916	ppm	1.54%
Cr 267.716	29393.0	0.6350	0.01044	mg/L	31.75	0.522	ppm	1.64%
Cu 324.754	16426.5	0.1586	0.00604	mg/L	7.928	0.3018	ppm	3.81%
Fe 273.955	4374089.5	205.4	6.59	mg/L	10270	329.5	ppm	3.21%
K 766.491	647518.2	11.61	0.306	mg/L	580.7	15.29	ppm	2.63%
Mg 279.079	652795.8	66.79	2.262	mg/L	3340	113.1	ppm	3.39%
Mn 257.610	1459121.7	3.407	0.1162	mg/L	170.3	5.81	ppm	3.40%

Mo 202.030	7.1	-0.0049	0.00135 mg/L	-0.2471	0.06728 ppm	27.23%
Na 330.237	171.0	1.023	0.1205 mg/L	51.14	6.027 ppm	11.78%
Ni 231.604	26098.4	0.6488	0.00590 mg/L	32.44	0.295 ppm	0.91%
Pb 220.353	2597.7	0.1779	0.00407 mg/L	8.895	0.2035 ppm	2.29%
Sb 206.833	82.7	0.0170	0.00891 mg/L	0.8497	0.44534 ppm	52.41%
Se 196.026	-61.2	0.0184	0.00602 mg/L	0.9194	0.30109 ppm	32.75%
Tl 190.800	-42.7	-0.0129	0.00523 mg/L	-0.6429	0.26160 ppm	40.69%
V 292.402	38910.0	0.4019	0.01348 mg/L	20.10	0.674 ppm	3.35%
Zn 213.856	40426.0	0.7470	0.00742 mg/L	37.35	0.371 ppm	0.99%

Replicate Data
ID: 2905-19 F=50

Date: 04/28/03 04:01:03 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc. Units	Calib	Sample Conc. Units
1	Ag 328.068	-280.0	140.5	0.0018 mg/L		0.0918 ppm
1	Al 308.215	549948.3	549505.7	58.78 mg/L		2939 ppm
1	As 188.979	242.5	252.9	0.1110 mg/L		5.548 ppm
1	Ba 233.527	11986.1	12419.0	0.1174 mg/L		5.871 ppm
1	Be 313.107	-6118.4	-3817.7	-0.0015 mg/L		-0.0771 ppm
1	Ca 227.547	5901.6	5933.9	72.09 mg/L		3605 ppm
1	Cd 228.802	97.2	-28.7	-0.0007 mg/L		-0.0346 ppm
1	Co 228.616	3889.8	3818.3	0.1050 mg/L		5.249 ppm
1	Cr 267.716	22548.7	22611.6	0.4876 mg/L		24.38 ppm
1	Cu 324.754	6526.7	5978.2	0.0658 mg/L		3.289 ppm
1	Fe 273.955	4086844.1	4087023.8	191.9 mg/L		9595 ppm
1	K 766.491	497147.5	491060.3	9.004 mg/L		450.2 ppm
1	Mg 279.079	499617.0	500632.1	51.22 mg/L		2561 ppm
1	Mn 257.610	1414086.2	1417469.4	3.310 mg/L		165.5 ppm
1	Mo 202.030	-157.9	-43.5	-0.0083 mg/L		-0.4133 ppm
1	Na 330.237	1055.3	-178.7	0.2036 mg/L		10.18 ppm
1	Ni 231.604	17894.3	17947.3	0.4462 mg/L		22.31 ppm
1	Pb 220.353	1140.2	805.7	0.0540 mg/L		2.702 ppm
1	Sb 206.833	54.1	23.3	-0.0052 mg/L		-0.2598 ppm
1	Se 196.026	-54.5	-58.9	0.0167 mg/L		0.8327 ppm
1	Tl 190.800	-52.5	-18.7	-0.0053 mg/L		-0.2649 ppm
1	V 292.402	29596.6	29314.0	0.3058 mg/L		15.29 ppm
1	Zn 213.856	16825.3	16869.0	0.3059 mg/L		15.30 ppm
2	Ag 328.068	-173.5	247.0	0.0032 mg/L		0.1615 ppm
2	Al 308.215	537046.7	536604.2	57.40 mg/L		2870 ppm
2	As 188.979	227.1	237.5	0.1050 mg/L		5.250 ppm
2	Ba 233.527	11976.7	12409.5	0.1122 mg/L		5.611 ppm
2	Be 313.107	-6006.6	-3705.9	-0.0015 mg/L		-0.0748 ppm
2	Ca 227.547	5977.1	6009.4	73.01 mg/L		3651 ppm
2	Cd 228.802	61.9	-64.0	-0.0015 mg/L		-0.0771 ppm
2	Co 228.616	3894.0	3822.6	0.1051 mg/L		5.255 ppm
2	Cr 267.716	22631.3	22694.2	0.4895 mg/L		24.48 ppm
2	Cu 324.754	6309.8	5761.3	0.0636 mg/L		3.178 ppm
2	Fe 273.955	3989756.9	3989936.5	187.3 mg/L		9367 ppm
2	K 766.491	493639.1	487551.8	8.944 mg/L		447.2 ppm
2	Mg 279.079	486412.8	487427.9	49.87 mg/L		2494 ppm
2	Mn 257.610	1380753.6	1384136.8	3.232 mg/L		161.6 ppm
2	Mo 202.030	-182.2	-67.8	-0.0099 mg/L		-0.4954 ppm
2	Na 330.237	1119.9	-114.1	0.3551 mg/L		17.76 ppm
2	Ni 231.604	18114.0	18167.1	0.4517 mg/L		22.58 ppm
2	Pb 220.353	1091.0	756.4	0.0507 mg/L		2.534 ppm
2	Sb 206.833	63.8	33.0	-0.0010 mg/L		-0.0519 ppm
2	Se 196.026	-41.5	-45.9	0.0198 mg/L		0.9888 ppm
2	Tl 190.800	-48.9	-15.1	-0.0042 mg/L		-0.2088 ppm
2	V 292.402	28874.9	28592.4	0.2983 mg/L		14.91 ppm
2	Zn 213.856	16990.9	17034.6	0.3093 mg/L		15.46 ppm
3	Ag 328.068	-467.2	-46.7	-0.0006 mg/L		-0.0305 ppm
3	Al 308.215	544877.5	544434.9	58.24 mg/L		2912 ppm
3	As 188.979	254.7	265.0	0.1151 mg/L		5.753 ppm
3	Ba 233.527	11859.4	12292.3	0.1162 mg/L		5.810 ppm
3	Be 313.107	-5922.7	-3622.0	-0.0015 mg/L		-0.0731 ppm
3	Ca 227.547	5726.9	5759.3	69.97 mg/L		3499 ppm
3	Cd 228.802	99.4	-26.5	-0.0006 mg/L		-0.0319 ppm
3	Co 228.616	3805.1	3733.6	0.1027 mg/L		5.133 ppm
3	Cr 267.716	22196.7	22259.6	0.4800 mg/L		24.00 ppm

3 Cu 324.754	6584.1	6035.6	0.0661 mg/L	3.306 ppm
3 Fe 273.955	4035213.8	4035393.5	189.5 mg/L	9473 ppm
3 K 766.491	501469.9	495382.6	9.077 mg/L	453.9 ppm
3 Mg 279.079	491263.3	492278.4	50.37 mg/L	2518 ppm
3 Mn 257.610	1393096.6	1396479.9	3.261 mg/L	163.0 ppm
3 Mo 202.030	-91.1	23.3	-0.0033 mg/L	-0.1670 ppm
3 Na 330.237	1026.1	-207.9	0.1352 mg/L	6.758 ppm
3 Ni 231.604	17662.6	17715.7	0.4404 mg/L	22.02 ppm
3 Pb 220.353	1117.1	782.6	0.0525 mg/L	2.624 ppm
3 Sb 206.833	34.7	4.0	-0.0127 mg/L	-0.6372 ppm
3 Se 196.026	-53.0	-57.5	0.0167 mg/L	0.8331 ppm
3 Tl 190.800	-68.9	-35.0	-0.0104 mg/L	-0.5214 ppm
3 V 292.402	29350.7	29068.1	0.3032 mg/L	15.16 ppm
3 Zn 213.856	16648.8	16692.5	0.3028 mg/L	15.14 ppm

Mean Data

ID: 2905-19 F=50
 Sample Qty: 1.0000 mL
 Seq. No.: 98
 Prep. Vol.: 1.0 mL
 Data: Original
 Sample No.: 70
 A/S Pos: 79
 Dilution: 1.0: 50.0
 Date: 04/28/03 04:01:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	113.6	0.0015	0.00194	mg/L	0.0743	0.09721	ppm	130.86%
Al 308.215	543515.0	58.14	0.695	mg/L	2907	34.8	ppm	1.20%
As 188.979	251.8	0.1103	0.00506	mg/L	5.517	0.2529	ppm	4.58%
Ba 233.527	12373.6	0.1153	0.00272	mg/L	5.764	0.1359	ppm	2.36%
Be 313.107	-3715.2	-0.0015	0.00004	mg/L	-0.0750	0.00198	ppm	2.64%
Ca 227.547	5900.9	71.69	1.559	mg/L	3585	77.9	ppm	2.17%
Cd 228.802	-39.7	-0.0010	0.00051	mg/L	-0.0479	0.02536	ppm	52.94%
Co 228.616	3791.5	0.1042	0.00138	mg/L	5.212	0.0689	ppm	1.32%
Cr 267.716	22521.8	0.4857	0.00504	mg/L	24.28	0.252	ppm	1.04%
Cu 324.754	5925.1	0.0652	0.00139	mg/L	3.258	0.0695	ppm	2.13%
Fe 273.955	4037451.3	189.6	2.28	mg/L	9478	114.0	ppm	1.20%
K 766.491	491331.6	9.008	0.0667	mg/L	450.4	3.34	ppm	0.74%
Mg 279.079	493446.1	50.49	0.683	mg/L	2524	34.2	ppm	1.35%
Mn 257.610	1399362.0	3.267	0.0393	mg/L	163.4	1.97	ppm	1.20%
Mo 202.030	-29.3	-0.0072	0.00342	mg/L	-0.3586	0.17090	ppm	47.66%
Na 330.237	-166.9	0.2313	0.11258	mg/L	11.56	5.629	ppm	48.68%
Ni 231.604	17943.4	0.4461	0.00561	mg/L	22.30	0.281	ppm	1.26%
Pb 220.353	781.6	0.0524	0.00169	mg/L	2.620	0.0843	ppm	3.22%
Sb 206.833	20.1	-0.0063	0.00593	mg/L	-0.3163	0.29673	ppm	93.81%
Se 196.026	-54.1	0.0177	0.00180	mg/L	0.8849	0.09003	ppm	10.17%
Tl 190.800	-23.0	-0.0066	0.00333	mg/L	-0.3317	0.16668	ppm	50.25%
V 292.402	28991.5	0.3024	0.00381	mg/L	15.12	0.191	ppm	1.26%
Zn 213.856	16865.4	0.3060	0.00327	mg/L	15.30	0.163	ppm	1.07%

Replicate Data

ID: 2905-20 F=50
 Date: 04/28/03 04:03:34 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-81.9	338.6	0.0044	mg/L	0.2214	ppm
1	Al 308.215	640183.6	639741.0	68.43	mg/L	3422	ppm
1	As 188.979	101.3	111.7	0.0611	mg/L	3.054	ppm
1	Ba 233.527	38133.6	38566.5	0.3488	mg/L	17.44	ppm
1	Be 313.107	-9106.0	-6805.3	-0.0027	mg/L	-0.1374	ppm
1	Ca 227.547	30940.7	30973.1	376.3	mg/L	18820	ppm
1	Cd 228.802	122.3	-3.6	-0.0001	mg/L	-0.0044	ppm
1	Co 228.616	3814.7	3743.2	0.1029	mg/L	5.146	ppm
1	Cr 267.716	25226.7	25289.6	0.5465	mg/L	27.32	ppm
1	Cu 324.754	11448.7	10900.2	0.1077	mg/L	5.386	ppm
1	Fe 273.955	3672917.6	3673097.2	172.4	mg/L	8622	ppm
1	K 766.491	572719.8	566632.5	10.28	mg/L	513.9	ppm
1	Mg 279.079	455449.0	456464.2	46.70	mg/L	2335	ppm
1	Mn 257.610	1439718.3	1443101.5	3.370	mg/L	168.5	ppm
1	Mo 202.030	-71.8	42.6	-0.0015	mg/L	-0.0740	ppm
1	Na 330.237	1833.4	599.4	2.025	mg/L	101.3	ppm
1	Ni 231.604	20931.5	20984.6	0.5217	mg/L	26.09	ppm
1	Pb 220.353	1161.3	826.8	0.0539	mg/L	2.696	ppm
1	Sb 206.833	56.8	26.1	-0.0032	mg/L	-0.1580	ppm
1	Se 196.026	-131.5	-136.0	-0.0102	mg/L	-0.5119	ppm
1	Tl 190.800	-84.5	-50.7	-0.0160	mg/L	-0.7998	ppm

1 V 292.402	34959.2	34676.6	0.3574 mg/L	17.87 ppm
1 Zn 213.856	18216.1	18259.8	0.3331 mg/L	16.65 ppm
2 Ag 328.068	-82.2	338.3	0.0044 mg/L	0.2212 ppm
2 Al 308.215	635540.1	635097.5	67.94 mg/L	3397 ppm
2 As 188.979	86.3	96.7	0.0552 mg/L	2.760 ppm
2 Ba 233.527	37607.3	38040.2	0.3440 mg/L	17.20 ppm
2 Be 313.107	-9227.0	-6926.3	-0.0028 mg/L	-0.1398 ppm
2 Ca 227.547	29126.3	29158.6	354.3 mg/L	17710 ppm
2 Cd 228.802	117.6	-8.3	-0.0002 mg/L	-0.0100 ppm
2 Co 228.616	3798.1	3726.6	0.1025 mg/L	5.123 ppm
2 Cr 267.716	23820.7	23883.6	0.5159 mg/L	25.79 ppm
2 Cu 324.754	11212.1	10663.6	0.1055 mg/L	5.274 ppm
2 Fe 273.955	3624389.6	3624569.3	170.2 mg/L	8508 ppm
2 K 766.491	573661.6	567574.3	10.29 mg/L	514.6 ppm
2 Mg 279.079	448791.7	449806.8	46.02 mg/L	2301 ppm
2 Mn 257.610	1417188.5	1420571.7	3.317 mg/L	165.8 ppm
2 Mo 202.030	-63.7	50.7	-0.0008 mg/L	-0.0417 ppm
2 Na 330.237	1891.8	657.7	2.161 mg/L	108.1 ppm
2 Ni 231.604	19927.3	19980.3	0.4967 mg/L	24.84 ppm
2 Pb 220.353	988.1	653.6	0.0421 mg/L	2.107 ppm
2 Sb 206.833	38.3	7.6	-0.0103 mg/L	-0.5136 ppm
2 Se 196.026	-72.9	-77.4	0.0072 mg/L	0.3576 ppm
2 Tl 190.800	-74.0	-40.2	-0.0126 mg/L	-0.6314 ppm
2 V 292.402	34527.5	34245.0	0.3529 mg/L	17.65 ppm
2 Zn 213.856	17289.2	17332.9	0.3158 mg/L	15.79 ppm
3 Ag 328.068	-88.3	332.2	0.0043 mg/L	0.2172 ppm
3 Al 308.215	636397.3	635954.8	68.03 mg/L	3401 ppm
3 As 188.979	95.9	106.3	0.0586 mg/L	2.928 ppm
3 Ba 233.527	37297.6	37730.4	0.3412 mg/L	17.06 ppm
3 Be 313.107	-9142.4	-6841.7	-0.0028 mg/L	-0.1381 ppm
3 Ca 227.547	28939.2	28971.5	352.0 mg/L	17600 ppm
3 Cd 228.802	98.4	-27.5	-0.0007 mg/L	-0.0332 ppm
3 Co 228.616	3661.8	3590.3	0.0987 mg/L	4.936 ppm
3 Cr 267.716	23565.2	23628.1	0.5103 mg/L	25.52 ppm
3 Cu 324.754	11212.1	10663.6	0.1054 mg/L	5.272 ppm
3 Fe 273.955	3612103.4	3612283.1	169.6 mg/L	8480 ppm
3 K 766.491	590824.3	584737.0	10.58 mg/L	528.9 ppm
3 Mg 279.079	448477.9	449493.0	45.99 mg/L	2300 ppm
3 Mn 257.610	1412425.1	1415808.3	3.306 mg/L	165.3 ppm
3 Mo 202.030	-117.4	-3.0	-0.0047 mg/L	-0.2364 ppm
3 Na 330.237	1733.3	499.2	1.791 mg/L	89.55 ppm
3 Ni 231.604	19792.3	19845.4	0.4934 mg/L	24.67 ppm
3 Pb 220.353	1006.7	672.1	0.0435 mg/L	2.173 ppm
3 Sb 206.833	72.3	41.6	0.0034 mg/L	0.1702 ppm
3 Se 196.026	-79.1	-83.6	0.0052 mg/L	0.2575 ppm
3 Tl 190.800	-66.4	-32.6	-0.0102 mg/L	-0.5124 ppm
3 V 292.402	34809.7	34527.2	0.3557 mg/L	17.78 ppm
3 Zn 213.856	17120.8	17164.5	0.3127 mg/L	15.63 ppm

Mean Data

ID: 2905-20 F=50

Sample Qty: 1.0000 mL

Seq. No.: 99

Prep. Vol.:

Data: Original

Sample No.: 71

1.0 mL

A/S Pos: 80

Dilution: 1.0: 50.0

Date: 04/28/03 04:03:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	336.4	0.0044	0.00005	mg/L	0.2200	0.00236	ppm	1.08%
Al 308.215	636931.1	68.13	0.264	mg/L	3407	13.2	ppm	0.39%
As 188.979	104.9	0.0583	0.00295	mg/L	2.914	0.1477	ppm	5.07%
Ba 233.527	38112.4	0.3447	0.00382	mg/L	17.23	0.191	ppm	1.11%
Be 313.107	-6857.8	-0.0028	0.00003	mg/L	-0.1384	0.00125	ppm	0.91%
Ca 227.547	29701.1	360.9	13.43	mg/L	18040	671.6	ppm	3.72%
Cd 228.802	-13.1	-0.0003	0.00031	mg/L	-0.0158	0.01528	ppm	96.40%
Co 228.616	3686.7	0.1014	0.00231	mg/L	5.068	0.1154	ppm	2.28%
Cr 267.716	24267.1	0.5242	0.01946	mg/L	26.21	0.973	ppm	3.71%
Cu 324.754	10742.5	0.1062	0.00130	mg/L	5.311	0.0652	ppm	1.23%
Fe 273.955	3636649.9	170.7	1.51	mg/L	8537	75.5	ppm	0.88%
K 766.491	572981.3	10.38	0.170	mg/L	519.2	8.49	ppm	1.64%
Mg 279.079	451921.3	46.24	0.403	mg/L	2312	20.1	ppm	0.87%
Mn 257.610	1426493.8	3.331	0.0340	mg/L	166.5	1.70	ppm	1.02%
Mo 202.030	30.1	-0.0023	0.00209	mg/L	-0.1174	0.10430	ppm	88.86%

Na 330.237	585.4	1.993	0.1874 mg/L	99.63	9.369 ppm	-9.40%
Ni 231.604	20270.1	0.5039	0.01547 mg/L	25.20	0.774 ppm	3.07%
Pb 220.353	717.5	0.0465	0.00646 mg/L	2.325	0.3228 ppm	13.88%
Sb 206.833	25.1	-0.0033	0.00684 mg/L	-0.1671	0.34202 ppm	204.63%
Se 196.026	-99.0	0.0007	0.00951 mg/L	0.0344	0.47573 ppm	>999.9%
Tl 190.800	-41.2	-0.0130	0.00289 mg/L	-0.6478	0.14442 ppm	22.29%
V 292.402	34482.9	0.3553	0.00225 mg/L	17.77	0.112 ppm	0.63%
Zn 213.856	17585.7	0.3205	0.01098 mg/L	16.03	0.549 ppm	3.43%

Replicate Data

ID: ICSA 1441

Date: 04/28/03 04:06:09 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-18.3	402.2	0.0053	mg/L		
1	Al 308.215	3957021.5	3956578.9	423.2	mg/L		
1	As 188.979	-96.0	-85.6	-0.0164	mg/L		
1	Ba 233.527	-563.5	-130.6	-0.0012	mg/L		
1	Be 313.107	-2194.1	106.7	0.0000	mg/L		
1	Ca 227.547	36775.1	36807.4	447.2	mg/L		
1	Cd 228.802	95.0	-30.9	-0.0007	mg/L		
1	Co 228.616	222.6	151.1	0.0042	mg/L		
1	Cr 267.716	531.2	594.1	0.0084	mg/L		
1	Cu 324.754	-292.7	-841.2	0.0042	mg/L		
1	Fe 273.955	3571189.7	3571369.3	167.7	mg/L		
1	K 766.491	6372.5	285.2	0.0760	mg/L		
1	Mg 279.079	4235522.7	4236537.8	433.5	mg/L		
1	Mn 257.610	-1253.0	2130.2	-0.0013	mg/L		
1	Mo 202.030	-13.4	101.0	0.0029	mg/L		
1	Na 330.237	1055.6	-178.4	0.2043	mg/L		
1	Ni 231.604	5.9	59.0	0.0015	mg/L		
1	Pb 220.353	-127.4	-461.9	-0.0089	mg/L		
1	Sb 206.833	18.7	-12.1	-0.0149	mg/L		
1	Se 196.026	-65.9	-70.4	0.0088	mg/L		
1	Tl 190.800	-33.2	0.6	0.0016	mg/L		
1	V 292.402	-1435.4	-1718.0	-0.0036	mg/L		
1	Zn 213.856	1027.4	1071.1	0.0025	mg/L		
2	Ag 328.068	126.4	546.9	0.0072	mg/L		
2	Al 308.215	4072279.0	4071836.4	435.6	mg/L		
2	As 188.979	-83.7	-73.4	-0.0118	mg/L		
2	Ba 233.527	-643.5	-210.6	-0.0019	mg/L		
2	Be 313.107	-2136.7	164.0	0.0001	mg/L		
2	Ca 227.547	36967.0	36999.3	449.5	mg/L		
2	Cd 228.802	66.6	-59.3	-0.0014	mg/L		
2	Co 228.616	180.8	109.3	0.0030	mg/L		
2	Cr 267.716	414.7	477.6	0.0058	mg/L		
2	Cu 324.754	-208.8	-757.3	0.0051	mg/L		
2	Fe 273.955	3626448.0	3626627.7	170.2	mg/L		
2	K 766.491	6306.0	218.8	0.0747	mg/L		
2	Mg 279.079	4305922.4	4306937.5	440.7	mg/L		
2	Mn 257.610	-1283.3	2099.9	-0.0015	mg/L		
2	Mo 202.030	-48.1	66.3	0.0003	mg/L		
2	Na 330.237	1097.8	-136.2	0.3033	mg/L		
2	Ni 231.604	-55.6	-2.5	-0.0001	mg/L		
2	Pb 220.353	-148.8	-483.4	-0.0095	mg/L		
2	Sb 206.833	24.3	-6.4	-0.0127	mg/L		
2	Se 196.026	-58.9	-63.3	0.0114	mg/L		
2	Tl 190.800	-85.7	-51.9	-0.0149	mg/L		
2	V 292.402	-1343.9	-1626.4	-0.0025	mg/L		
2	Zn 213.856	1024.7	1068.4	0.0021	mg/L		
3	Ag 328.068	62.3	482.8	0.0063	mg/L		
3	Al 308.215	3919320.9	3918878.3	419.2	mg/L		
3	As 188.979	-40.9	-30.5	0.0032	mg/L		
3	Ba 233.527	-612.9	-180.1	-0.0016	mg/L		
3	Be 313.107	-2152.4	148.3	0.0001	mg/L		
3	Ca 227.547	36618.1	36650.4	445.3	mg/L		
3	Cd 228.802	53.7	-72.2	-0.0017	mg/L		
3	Co 228.616	154.2	82.7	0.0023	mg/L		
3	Cr 267.716	315.3	378.2	0.0038	mg/L		
3	Cu 324.754	-310.0	-858.5	0.0038	mg/L		

3 Fe 273.955	3504986.7	3505166.4	164.5 mg/L
3 K 766.491	6726.7	639.5	0.0829 mg/L
3 Mg 279.079	4154734.3	4155749.4	425.2 mg/L
3 Mn 257.610	-1331.9	2051.3	-0.0013 mg/L
3 Mo 202.030	-30.1	84.3	0.0018 mg/L
3 Na 330.237	1086.1	-147.9	0.2758 mg/L
3 Ni 231.604	12.6	65.6	0.0016 mg/L
3 Pb 220.353	-160.3	-494.8	-0.0113 mg/L
3 Sb 206.833	31.4	0.6	-0.0096 mg/L
3 Se 196.026	-65.5	-69.9	0.0084 mg/L
3 Tl 190.800	-42.0	-8.2	-0.0012 mg/L
3 V 292.402	-1351.8	-1634.4	-0.0030 mg/L
3 Zn 213.856	997.3	1041.1	0.0022 mg/L

Mean Data

ID: ICSA 1441	Seq. No.: 100	Sample No.: 3	A/S Pos: 7
Sample Qty: 1.0000 g	Prep. Vol.: 1.0 L	Dilution: 1.0:	1.0
	Data: Original	Date: 04/28/03	04:06:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	477.3	0.0062	0.00095	mg/L				15.19%
Al 308.215	3982431.2	426.0	8.52	mg/L				2.00%
As 188.979	-63.2	-0.0083	0.01025	mg/L				122.85%
Ba 233.527	-173.8	-0.0016	0.00037	mg/L				23.25%
Be 313.107	139.7	0.0001	0.00001	mg/L				21.22%
Ca 227.547	36819.0	447.3	2.12	mg/L				0.47%
Cd 228.802	-54.2	-0.0013	0.00051	mg/L				39.01%
Co 228.616	114.4	0.0031	0.00095	mg/L				30.14%
Cr 267.716	483.3	0.0060	0.00232	mg/L				38.54%
Cu 324.754	-819.0	0.0044	0.00066	mg/L				15.19%
Fe 273.955	3567721.1	167.5	2.85	mg/L				1.70%
K 766.491	381.1	0.0779	0.00442	mg/L				5.68%
Mg 279.079	4233074.9	433.1	7.74	mg/L				1.79%
Mn 257.610	2093.8	-0.0014	0.00009	mg/L				6.48%
Mo 202.030	83.9	0.0017	0.00130	mg/L				78.73%
Na 330.237	-154.2	0.2612	0.05108	mg/L				19.56%
Ni 231.604	40.7	0.0010	0.00093	mg/L				92.29%
Pb 220.353	-480.0	-0.0099	0.00127	mg/L				12.84%
Sb 206.833	-5.9	-0.0124	0.00267	mg/L				21.51%
Se 196.026	-67.9	0.0095	0.00165	mg/L				17.24%
Tl 190.800	-19.8	-0.0049	0.00881	mg/L				181.69%
V 292.402	-1659.6	-0.0030	0.00056	mg/L				18.37%
Zn 213.856	1060.2	0.0023	0.00017	mg/L				7.53%

Replicate Data

ID: ICSAB 1443	Date: 04/28/03	04:08:54 PM
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Repl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	78630.4	79050.9	1.034 mg/L	
1 Al 308.215	4270006.3	4269563.7	456.7 mg/L	
1 As 188.979	2559.7	2570.0	0.9416 mg/L	
1 Ba 233.527	54642.1	55075.0	0.4981 mg/L	
1 Be 313.107	1173165.8	1175466.5	0.4746 mg/L	
1 Ca 227.547	41027.4	41059.7	498.9 mg/L	
1 Cd 228.802	39416.2	39290.3	0.9477 mg/L	
1 Co 228.616	16965.1	16893.6	0.4645 mg/L	
1 Cr 267.716	22452.1	22515.1	0.4859 mg/L	
1 Cu 324.754	58722.3	58173.8	0.5235 mg/L	
1 Fe 273.955	3749054.5	3749234.1	176.0 mg/L	
1 K 766.491	7328.1	1240.8	0.0947 mg/L	
1 Mg 279.079	4453871.6	4454886.7	455.8 mg/L	
1 Mn 257.610	210200.5	213583.7	0.4921 mg/L	
1 Mo 202.030	12851.1	12965.6	0.9390 mg/L	
1 Na 330.237	1333.4	99.3	0.8552 mg/L	
1 Ni 231.604	38416.3	38469.4	0.9564 mg/L	
1 Pb 220.353	13651.6	13317.0	0.9477 mg/L	
1 Sb 206.833	2483.6	2452.8	0.9685 mg/L	
1 Se 196.026	3121.8	3117.4	0.9781 mg/L	
1 Tl 190.800	2909.5	2943.3	0.9272 mg/L	
1 V 292.402	48586.3	48303.7	0.4927 mg/L	

1 Zn 213.856	54955.4	54999.2	1.013 mg/L
2 Ag 328.068	74319.0	74739.5	0.9775 mg/L
2 Al 308.215	4301886.5	4301443.9	460.1 mg/L
2 As 188.979	2649.7	2660.1	0.9739 mg/L
2 Ba 233.527	52388.5	52821.3	0.4777 mg/L
2 Be 313.107	1184755.0	1187055.7	0.4793 mg/L
2 Ca 227.547	39100.2	39132.6	475.4 mg/L
2 Cd 228.802	39862.5	39736.6	0.9585 mg/L
2 Co 228.616	17135.3	17063.8	0.4692 mg/L
2 Cr 267.716	22622.0	22684.9	0.4896 mg/L
2 Cu 324.754	56167.4	55618.9	0.5012 mg/L
2 Fe 273.955	3775046.2	3775225.9	177.2 mg/L
2 K 766.491	7104.6	1017.3	0.0903 mg/L
2 Mg 279.079	4497235.1	4498250.2	460.2 mg/L
2 Mn 257.610	200959.5	204342.7	0.4705 mg/L
2 Mo 202.030	12713.5	12828.0	0.9289 mg/L
2 Na 330.237	1284.0	50.0	0.7396 mg/L
2 Ni 231.604	36810.3	36863.4	0.9165 mg/L
2 Pb 220.353	13481.9	13147.3	0.9364 mg/L
2 Sb 206.833	2450.6	2419.9	0.9552 mg/L
2 Se 196.026	3028.2	3023.7	0.9499 mg/L
2 Tl 190.800	2916.1	2949.9	0.9293 mg/L
2 V 292.402	46542.2	46259.6	0.4725 mg/L
2 Zn 213.856	52480.9	52524.6	0.9663 mg/L
3 Ag 328.068	75894.4	76314.9	0.9981 mg/L
3 Al 308.215	4340027.4	4339584.9	464.2 mg/L
3 As 188.979	2540.7	2551.1	0.9347 mg/L
3 Ba 233.527	53005.9	53438.8	0.4833 mg/L
3 Be 313.107	1192957.2	1195258.0	0.4826 mg/L
3 Ca 227.547	39608.7	39641.1	481.6 mg/L
3 Cd 228.802	38482.8	38356.9	0.9252 mg/L
3 Co 228.616	16642.6	16571.1	0.4556 mg/L
3 Cr 267.716	22017.7	22080.6	0.4764 mg/L
3 Cu 324.754	56706.7	56158.2	0.5060 mg/L
3 Fe 273.955	3791445.7	3791625.3	178.0 mg/L
3 K 766.491	6880.1	792.8	0.0859 mg/L
3 Mg 279.079	4515841.0	4516856.1	462.2 mg/L
3 Mn 257.610	203981.2	207364.4	0.4775 mg/L
3 Mo 202.030	12488.9	12603.4	0.9126 mg/L
3 Na 330.237	1231.6	-2.5	0.6167 mg/L
3 Ni 231.604	37506.7	37559.8	0.9338 mg/L
3 Pb 220.353	13385.9	13051.4	0.9300 mg/L
3 Sb 206.833	2453.7	2423.0	0.9565 mg/L
3 Se 196.026	2934.1	2929.7	0.9215 mg/L
3 Tl 190.800	2833.3	2867.1	0.9033 mg/L
3 V 292.402	47123.2	46840.6	0.4783 mg/L
3 Zn 213.856	53309.0	53352.7	0.9818 mg/L

Mean Data

ID: ICSAB 1443

Sample Qty: 1.0000 g

Seq. No.: 101

Prep. Vol.: Data: Original

Sample No.: 4

1.0 L

A/S Pos: 8

Dilution:

1.0:

1.0

Date: 04/28/03

04:08:54 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	76701.8	1.003	0.0285	mg/L				2.84%
Al 308.215	4303530.8	460.3	3.75	mg/L				0.81%
As 188.979	2593.7	0.9501	0.02092	mg/L				2.20%
Ba 233.527	53778.4	0.4863	0.01053	mg/L				2.17%
Be 313.107	1185926.7	0.4788	0.00402	mg/L				0.84%
Ca 227.547	39944.5	485.3	12.13	mg/L				2.50%
Cd 228.802	39127.9	0.9438	0.01698	mg/L				1.80%
Co 228.616	16842.8	0.4631	0.00688	mg/L				1.49%
Cr 267.716	22426.8	0.4840	0.00681	mg/L				1.41%
Cu 324.754	56650.3	0.5102	0.01178	mg/L				2.31%
Fe 273.955	3772028.4	177.1	1.00	mg/L				0.57%
K 766.491	1017.0	0.0903	0.00438	mg/L				4.85%
Mg 279.079	4489997.6	459.4	3.25	mg/L				0.71%
Mn 257.610	208430.3	0.4800	0.01104	mg/L				2.30%
Mo 202.030	12799.0	0.9268	0.01333	mg/L				1.44%
Na 330.237	49.0	0.7371	0.11925	mg/L				16.38%

Ni 231.604	37630.8	0.9356	0.02002 mg/L	2.14%
Pb 220.353	13171.9	0.9380	0.00899 mg/L	0.96%
Sb 206.833	2431.9	0.9601	0.00732 mg/L	0.76%
Se 196.026	3023.6	0.9498	0.02831 mg/L	2.98%
Tl 190.800	2920.1	0.9199	0.01445 mg/L	1.57%
V 292.402	47134.6	0.4812	0.01037 mg/L	2.16%
Zn 213.856	53625.5	0.9870	0.02371 mg/L	2.40%

Replicate Data

ID: CCV 1447B

Date: 04/28/03 04:11:38 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	72287.7	72708.2	0.9509 mg/L	
1	Al 308.215	46058.1	45615.5	4.879 mg/L	
1	As 188.979	1352.7	1363.1	0.4923 mg/L	
1	Ba 233.527	525147.8	525580.6	4.753 mg/L	
1	Be 313.107	1191040.8	1193341.5	0.4818 mg/L	
1	Ca 227.547	4055.4	4087.8	49.66 mg/L	
1	Cd 228.802	40195.9	40070.0	0.9665 mg/L	
1	Co 228.616	70687.9	70616.4	1.942 mg/L	
1	Cr 267.716	21979.3	22042.2	0.4804 mg/L	
1	Cu 324.754	218844.2	218295.7	1.919 mg/L	
1	Fe 273.955	102727.0	102906.6	4.822 mg/L	
1	K 766.491	866099.8	860012.5	15.02 mg/L	
1	Mg 279.079	232657.5	233672.7	23.91 mg/L	
1	Mn 257.610	817876.3	821259.5	1.918 mg/L	
1	Mo 202.030	26316.5	26430.9	1.924 mg/L	
1	Na 330.237	46776.0	45542.0	99.49 mg/L	
1	Ni 231.604	78845.4	78898.4	1.962 mg/L	
1	Pb 220.353	7520.6	7186.1	0.4979 mg/L	
1	Sb 206.833	5012.9	4982.2	1.996 mg/L	
1	Se 196.026	1606.8	1602.3	0.4864 mg/L	
1	Tl 190.800	1473.7	1507.6	0.4769 mg/L	
1	V 292.402	194918.1	194635.5	1.928 mg/L	
1	Zn 213.856	105527.4	105571.1	1.980 mg/L	
2	Ag 328.068	69344.2	69764.7	0.9124 mg/L	
2	Al 308.215	44423.4	43980.9	4.705 mg/L	
2	As 188.979	1415.9	1426.3	0.5150 mg/L	
2	Ba 233.527	504906.5	505339.4	4.570 mg/L	
2	Be 313.107	1136709.7	1139010.4	0.4599 mg/L	
2	Ca 227.547	4069.8	4102.2	49.84 mg/L	
2	Cd 228.802	40215.0	40089.1	0.9670 mg/L	
2	Co 228.616	67903.1	67831.6	1.865 mg/L	
2	Cr 267.716	22060.7	22123.6	0.4821 mg/L	
2	Cu 324.754	208766.4	208217.9	1.830 mg/L	
2	Fe 273.955	98794.5	98974.2	4.637 mg/L	
2	K 766.491	831394.5	825307.3	14.47 mg/L	
2	Mg 279.079	224551.9	225567.0	23.08 mg/L	
2	Mn 257.610	783176.2	786559.4	1.837 mg/L	
2	Mo 202.030	26401.7	26516.1	1.930 mg/L	
2	Na 330.237	45055.4	43821.4	96.00 mg/L	
2	Ni 231.604	75451.8	75504.9	1.877 mg/L	
2	Pb 220.353	7551.9	7217.3	0.5001 mg/L	
2	Sb 206.833	4917.5	4886.8	1.957 mg/L	
2	Se 196.026	1652.5	1648.0	0.5003 mg/L	
2	Tl 190.800	1527.1	1561.0	0.4935 mg/L	
2	V 292.402	186720.4	186437.9	1.847 mg/L	
2	Zn 213.856	101314.2	101357.9	1.901 mg/L	
3	Ag 328.068	74526.6	74947.1	0.9802 mg/L	
3	Al 308.215	47243.3	46800.8	5.006 mg/L	
3	As 188.979	1358.9	1369.3	0.4946 mg/L	
3	Ba 233.527	534663.0	535095.9	4.839 mg/L	
3	Be 313.107	1217831.4	1220132.1	0.4927 mg/L	
3	Ca 227.547	4199.0	4231.4	51.41 mg/L	
3	Cd 228.802	40486.8	40360.9	0.9736 mg/L	
3	Co 228.616	72044.7	71973.2	1.979 mg/L	
3	Cr 267.716	22245.6	22308.5	0.4862 mg/L	
3	Cu 324.754	224440.5	223892.0	1.968 mg/L	
3	Fe 273.955	104778.4	104958.0	4.918 mg/L	

3 K 766.491	883038.2	876950.9	15.28 mg/L
3 Mg 279.079	237919.3	238934.4	24.45 mg/L
3 Mn 257.610	832105.9	835489.1	1.951 mg/L
3 Mo 202.030	26621.5	26735.9	1.946 mg/L
3 Na 330.237	48282.8	47048.8	102.5 mg/L
3 Ni 231.604	80645.0	80698.0	2.006 mg/L
3 Pb 220.353	7661.1	7326.6	0.5076 mg/L
3 Sb 206.833	5019.4	4988.6	1.998 mg/L
3 Se 196.026	1659.0	1654.5	0.5023 mg/L
3 Tl 190.800	1559.6	1593.4	0.5039 mg/L
3 V 292.402	200407.7	200125.1	1.983 mg/L
3 Zn 213.856	108390.2	108433.9	2.033 mg/L

Mean Data

ID: CCV 1447B

Sample Qty: 1.0000 g

Seq. No.: 102

Sample No.: 5

A/S Pos: 6

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 04/28/03 04:11:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	72473.3	0.9478	0.03399	mg/L				3.59%
Al 308.215	45465.7	4.863	0.1515	mg/L				3.11%
As 188.979	1386.2	0.5006	0.01252	mg/L				2.50%
Ba 233.527	522005.3	4.721	0.1374	mg/L				2.91%
Be 313.107	1184161.4	0.4781	0.01669	mg/L				3.49%
Ca 227.547	4140.4	50.30	0.961	mg/L				1.91%
Cd 228.802	40173.3	0.9690	0.00393	mg/L				0.41%
Co 228.616	70140.4	1.929	0.0581	mg/L				3.01%
Cr 267.716	22158.1	0.4829	0.00297	mg/L				0.62%
Cu 324.754	216801.9	1.906	0.0698	mg/L				3.66%
Fe 273.955	102279.6	4.792	0.1424	mg/L				2.97%
K 766.491	854090.2	14.92	0.413	mg/L				2.77%
Mg 279.079	232724.7	23.81	0.689	mg/L				2.89%
Mn 257.610	814436.0	1.902	0.0588	mg/L				3.09%
Mo 202.030	26561.0	1.933	0.0115	mg/L				0.59%
Na 330.237	45470.7	99.34	3.267	mg/L				3.29%
Ni 231.604	78367.1	1.948	0.0656	mg/L				3.36%
Pb 220.353	7243.3	0.5019	0.00511	mg/L				1.02%
Sb 206.833	4952.5	1.984	0.0230	mg/L				-1.16%
Se 196.026	1634.9	0.4963	0.00864	mg/L				1.74%
Tl 190.800	1554.0	0.4915	0.01365	mg/L				2.78%
V 292.402	193732.8	1.919	0.0682	mg/L				3.56%
Zn 213.856	105121.0	1.971	0.0668	mg/L				3.39%

Replicate Data

ID: CCB

Date: 04/28/03 04:14:27 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	-457.0	-36.5	-0.0005 mg/L	
1	Al 308.215	465.5	22.9	0.0025 mg/L	
1	As 188.979	-17.0	-6.6	-0.0024 mg/L	
1	Ba 233.527	-397.5	35.3	0.0003 mg/L	
1	Be 313.107	-2285.8	14.9	0.0000 mg/L	
1	Ca 227.547	-30.5	1.8	0.0221 mg/L	
1	Cd 228.802	103.1	-22.8	-0.0006 mg/L	
1	Co 228.616	63.8	-7.7	-0.0002 mg/L	
1	Cr 267.716	-48.4	14.5	0.0003 mg/L	
1	Cu 324.754	609.0	60.5	0.0005 mg/L	
1	Fe 273.955	-118.5	61.2	0.0029 mg/L	
1	K 766.491	5736.4	-350.9	0.0636 mg/L	
1	Mg 279.079	-880.2	134.9	0.0138 mg/L	
1	Mn 257.610	-3159.1	224.1	0.0005 mg/L	
1	Mo 202.030	-100.9	13.5	0.0010 mg/L	
1	Na 330.237	1231.1	-2.9	0.6156 mg/L	
1	Ni 231.604	-42.6	10.5	0.0003 mg/L	
1	Pb 220.353	298.0	-36.5	-0.0025 mg/L	
1	Sb 206.833	29.1	-1.7	-0.0007 mg/L	
1	Se 196.026	1.9	-2.6	-0.0008 mg/L	
1	Tl 190.800	-22.8	11.0	0.0034 mg/L	
1	V 292.402	158.6	-124.0	-0.0012 mg/L	
1	Zn 213.856	-51.1	-7.4	-0.0001 mg/L	

Pb 220.353	-23.7	-0.0016	0.00092 mg/L	55.76%
Sb 206.833	-6.6	-0.0026	0.00398 mg/L	150.33%
Se 196.026	-4.0	-0.0012	0.00057 mg/L	47.11%
Tl 190.800	6.9	0.0022	0.00124 mg/L	57.35%
V 292.402	-82.0	-0.0008	0.00037 mg/L	45.78%
Zn 213.856	-5.7	-0.0001	0.00010 mg/L	91.96%

Calibration Summary

Method: 23ME

Date: 04/28/03 04:15:58 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	76461.4	0.00000	0.999447
Al 308.215	3	Linear-thru-Zero	0.0	9348.5	0.00000	0.999944
As 188.979	3	Linear-thru-Zero	0.0	2781.3	0.00000	0.999845
Ba 233.527	3	Linear-thru-Zero	0.0	110579.1	0.00000	0.999592
Be 313.107	3	Linear-thru-Zero	0.0	2476626.2	0.00000	0.999863
Ca 227.547	3	Linear-thru-Zero	0.0	82.3	0.00000	0.999783
Cd 228.802	3	Linear-thru-Zero	0.0	41457.0	0.00000	0.999802
Co 228.616	3	Linear-thru-Zero	0.0	36369.9	0.00000	0.999837
Cr 267.716	3	Linear-thru-Zero	0.0	45887.0	0.00000	0.999346
Cu 324.754	3	Linear-thru-Zero	0.0	113751.6	0.00000	0.999404
Fe 273.955	3	Linear-thru-Zero	0.0	21297.8	0.00000	0.999864
K 766.491	3	Non-Linear	-3599.7	51085.7	428.04235	0.998180
Mg 279.079	3	Linear-thru-Zero	0.0	9773.5	0.00000	0.999837
Mn 257.610	3	Linear-thru-Zero	0.0	428277.7	0.00000	0.999692
Mo 202.030	3	Linear-thru-Zero	0.0	13739.8	0.00000	0.999279
Na 330.237	3	Non-Linear	-265.6	426.4	0.34184	0.999073
Ni 231.604	3	Linear-thru-Zero	0.0	40222.9	0.00000	0.999942
Pb 220.353	3	Linear-thru-Zero	0.0	14432.5	0.00000	0.999961
Sb 206.833	3	Linear-thru-Zero	0.0	2499.3	0.00000	0.999778
Se 196.026	3	Linear-thru-Zero	0.0	3293.9	0.00000	0.999990
Tl 190.800	3	Linear-thru-Zero	0.0	3181.7	0.00000	0.999881
V 292.402	3	Linear-thru-Zero	0.0	100931.1	0.00000	0.999862
Zn 213.856	3	Linear-thru-Zero	0.0	53324.3	0.00000	0.999994

Replicate Data

ID: 1

Date: 04/28/03 04:17:03 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ag 328.068	148090.5	148511.0	1.950 mg/L	1.950 ppm
1	Al 308.215	90537.4	90094.9	9.637 mg/L	9.637 ppm
1	As 188.979	2610.0	2620.3	0.9466 mg/L	0.9466 ppm
1	Ba 233.527	1064716.7	1065149.5	9.632 mg/L	9.632 ppm
1	Be 313.107	2406731.0	2409031.7	0.9727 mg/L	0.9727 ppm
1	Ca 227.547	8139.0	8171.4	99.28 mg/L	99.28 ppm
1	Cd 228.802	80779.0	80653.1	1.945 mg/L	1.945 ppm
1	Co 228.616	140817.8	140746.3	3.870 mg/L	3.870 ppm
1	Cr 267.716	44361.0	44423.9	0.9681 mg/L	0.9681 ppm
1	Cu 324.754	443834.1	443285.6	3.897 mg/L	3.897 ppm
1	Fe 273.955	204454.7	204634.4	9.588 mg/L	9.588 ppm
1	K 766.491	1879998.8	1873911.5	29.47 mg/L	29.47 ppm
1	Mg 279.079	468509.0	469524.1	48.04 mg/L	48.04 ppm
1	Mn 257.610	1646215.7	1649599.0	3.852 mg/L	3.852 ppm
1	Mo 202.030	52913.7	53028.1	3.859 mg/L	3.859 ppm
1	Na 330.237	97279.5	96045.5	195.3 mg/L	195.3 ppm
1	Ni 231.604	156010.5	156063.6	3.880 mg/L	3.880 ppm
1	Pb 220.353	14286.9	13952.4	0.9667 mg/L	0.9667 ppm
1	Sb 206.833	9805.7	9774.9	3.915 mg/L	3.915 ppm
1	Se 196.026	3115.9	3111.4	0.9446 mg/L	0.9446 ppm
1	Tl 190.800	3057.7	3091.5	0.9778 mg/L	0.9778 ppm
1	V 292.402	388730.6	388448.0	3.849 mg/L	3.849 ppm
1	Zn 213.856	208061.5	208105.2	3.903 mg/L	3.903 ppm
2	Ag 328.068	146124.7	146545.2	1.924 mg/L	1.924 ppm
2	Al 308.215	89843.7	89401.1	9.563 mg/L	9.563 ppm
2	As 188.979	2604.9	2615.2	0.9447 mg/L	0.9447 ppm
2	Ba 233.527	1055303.5	1055736.4	9.547 mg/L	9.547 ppm
2	Be 313.107	2448955.8	2451256.6	0.9898 mg/L	0.9898 ppm
2	Ca 227.547	7874.8	7907.1	96.07 mg/L	96.07 ppm

2 Cd 228.802	79879.1	79753.2	1.924 mg/L	1.924 ppm
2 Co 228.616	139354.7	139283.2	3.830 mg/L	3.830 ppm
2 Cr 267.716	43847.6	43910.5	0.9569 mg/L	0.9569 ppm
2 Cu 324.754	439133.0	438584.5	3.856 mg/L	3.856 ppm
2 Fe 273.955	202684.0	202863.6	9.505 mg/L	9.505 ppm
2 K 766.491	1893913.8	1887826.5	29.66 mg/L	29.66 ppm
2 Mg 279.079	462986.9	464002.0	47.48 mg/L	47.48 ppm
2 Mn 257.610	1630965.7	1634349.0	3.816 mg/L	3.816 ppm
2 Mo 202.030	52653.8	52768.2	3.841 mg/L	3.841 ppm
2 Na 330.237	96088.0	94854.0	193.2 mg/L	193.2 ppm
2 Ni 231.604	154277.4	154330.5	3.837 mg/L	3.837 ppm
2 Pb 220.353	14212.2	13877.7	0.9616 mg/L	0.9616 ppm
2 Sb 206.833	9615.3	9584.5	3.839 mg/L	3.839 ppm
2 Se 196.026	3103.7	3099.3	0.9409 mg/L	0.9409 ppm
2 Tl 190.800	3025.0	3058.8	0.9674 mg/L	0.9674 ppm
2 V 292.402	385313.4	385030.8	3.815 mg/L	3.815 ppm
2 Zn 213.856	206193.0	206236.7	3.868 mg/L	3.868 ppm
3 Ag 328.068	140318.9	140739.4	1.848 mg/L	1.848 ppm
3 Al 308.215	85961.5	85518.9	9.148 mg/L	9.148 ppm
3 As 188.979	2610.6	2620.9	0.9466 mg/L	0.9466 ppm
3 Ba 233.527	1014328.1	1014761.0	9.177 mg/L	9.177 ppm
3 Be 313.107	2357089.5	2359390.2	0.9527 mg/L	0.9527 ppm
3 Ca 227.547	7957.1	7989.4	97.07 mg/L	97.07 ppm
3 Cd 228.802	76841.4	76715.5	1.850 mg/L	1.850 ppm
3 Co 228.616	134321.3	134249.8	3.691 mg/L	3.691 ppm
3 Cr 267.716	42061.6	42124.5	0.9180 mg/L	0.9180 ppm
3 Cu 324.754	421695.4	421146.9	3.702 mg/L	3.702 ppm
3 Fe 273.955	195183.4	195363.1	9.154 mg/L	9.154 ppm
3 K 766.491	1818003.5	1811916.2	28.66 mg/L	28.66 ppm
3 Mg 279.079	446322.8	447337.9	45.77 mg/L	45.77 ppm
3 Mn 257.610	1568934.6	1572317.8	3.671 mg/L	3.671 ppm
3 Mo 202.030	50670.3	50784.7	3.696 mg/L	3.696 ppm
3 Na 330.237	92679.1	91445.1	187.0 mg/L	187.0 ppm
3 Ni 231.604	148469.5	148522.6	3.692 mg/L	3.692 ppm
3 Pb 220.353	14408.8	14074.3	0.9752 mg/L	0.9752 ppm
3 Sb 206.833	9856.8	9826.1	3.936 mg/L	3.936 ppm
3 Se 196.026	3204.7	3200.2	0.9715 mg/L	0.9715 ppm
3 Tl 190.800	3081.1	3114.9	0.9848 mg/L	0.9848 ppm
3 V 292.402	368685.5	368402.9	3.650 mg/L	3.650 ppm
3 Zn 213.856	198172.4	198216.1	3.717 mg/L	3.717 ppm

Calibration Summary

Method: 23ME

Date: 04/28/03 04:17:59 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	76461.4	0.00000	0.999447
Al 308.215	3	Linear-thru-Zero	0.0	9348.5	0.00000	0.999944
As 188.979	3	Linear-thru-Zero	0.0	2781.3	0.00000	0.999845
Ba 233.527	3	Linear-thru-Zero	0.0	110579.1	0.00000	0.999592
Be 313.107	3	Linear-thru-Zero	0.0	2476626.2	0.00000	0.999863
Ca 227.547	3	Linear-thru-Zero	0.0	82.3	0.00000	0.999783
Cd 228.802	3	Linear-thru-Zero	0.0	41457.0	0.00000	0.999802
Co 228.616	3	Linear-thru-Zero	0.0	36369.9	0.00000	0.999837
Cr 267.716	3	Linear-thru-Zero	0.0	45887.0	0.00000	0.999346
Cu 324.754	3	Linear-thru-Zero	0.0	113751.6	0.00000	0.999404
Fe 273.955	3	Linear-thru-Zero	0.0	21297.8	0.00000	0.999864
K 766.491	3	Non-Linear	-3599.7	51085.7	428.04235	0.998180
Mg 279.079	3	Linear-thru-Zero	0.0	9773.5	0.00000	0.999837
Mn 257.610	3	Linear-thru-Zero	0.0	428277.7	0.00000	0.999692
Mo 202.030	3	Linear-thru-Zero	0.0	13739.8	0.00000	0.999279
Na 330.237	3	Non-Linear	-265.6	426.4	0.34184	0.999073
Ni 231.604	3	Linear-thru-Zero	0.0	40222.9	0.00000	0.999942
Pb 220.353	3	Linear-thru-Zero	0.0	14432.5	0.00000	0.999961
Sb 206.833	3	Linear-thru-Zero	0.0	2499.3	0.00000	0.999778
Se 196.026	3	Linear-thru-Zero	0.0	3293.9	0.00000	0.999990
Tl 190.800	3	Linear-thru-Zero	0.0	3181.7	0.00000	0.999881
V 292.402	3	Linear-thru-Zero	0.0	100931.1	0.00000	0.999862
Zn 213.856	3	Linear-thru-Zero	0.0	53324.3	0.00000	0.999994

Replicate Data

ID: DLC A1427

Date: 04/28/03 04:19:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1206.9	-786.4	0.0265	mg/L	0.0265	ppm
1	Al 308.215	3488.2	3045.6	0.3258	mg/L	0.3258	ppm
1	As 188.979	25915.8	25926.1	9.535	mg/L	9.535	ppm
1	Ba 233.527	4896942.2	4897375.1	44.31	mg/L	44.31	ppm
1	Be 313.107	-2907.1	-606.4	-0.0002	mg/L	-0.0002	ppm
1	Ca 227.547	23.9	56.3	0.6838	mg/L	0.6838	ppm
1	Cd 228.802	382127.9	382002.0	9.214	mg/L	9.214	ppm
1	Co 228.616	648209.5	648138.0	17.82	mg/L	17.82	ppm
1	Cr 267.716	2088165.6	2088228.5	45.51	mg/L	45.51	ppm
1	Cu 324.754	5372394.8	5371846.3	47.22	mg/L	47.22	ppm
1	Fe 273.955	1456.0	1635.6	-0.0032	mg/L	-0.0032	ppm
1	K 766.491	15968.5	9881.2	0.2633	mg/L	0.2633	ppm
1	Mg 279.079	-1440.6	-425.5	-0.0435	mg/L	-0.0435	ppm
1	Mn 257.610	7075119.0	7078502.2	16.53	mg/L	16.53	ppm
1	Mo 202.030	134454.6	134569.0	9.793	mg/L	9.793	ppm
1	Na 330.237	286954.0	285720.0	476.7	mg/L	476.7	ppm
1	Ni 231.604	733953.9	734007.0	18.25	mg/L	18.25	ppm
1	Pb 220.353	1083447.8	1083113.3	75.04	mg/L	75.04	ppm
1	Sb 206.833	465.3	434.6	-0.0069	mg/L	-0.0069	ppm
1	Se 196.026	18.8	14.4	0.0085	mg/L	0.0085	ppm
1	Tl 190.800	-91.3	-57.5	-0.0001	mg/L	-0.0001	ppm
1	V 292.402	1820937.5	1820654.9	18.10	mg/L	18.10	ppm
1	Zn 213.856	1882610.5	1882654.2	35.31	mg/L	35.31	ppm
2	Ag 328.068	-1099.1	-678.6	0.0278	mg/L	0.0278	ppm
2	Al 308.215	3530.9	3088.4	0.3304	mg/L	0.3304	ppm
2	As 188.979	26034.1	26044.5	9.577	mg/L	9.577	ppm
2	Ba 233.527	5034675.4	5035108.2	45.55	mg/L	45.55	ppm
2	Be 313.107	-2952.6	-651.9	-0.0003	mg/L	-0.0003	ppm
2	Ca 227.547	29.0	61.4	0.7455	mg/L	0.7455	ppm
2	Cd 228.802	382576.8	382450.9	9.225	mg/L	9.225	ppm
2	Co 228.616	646229.4	646157.9	17.77	mg/L	17.77	ppm
2	Cr 267.716	2078120.6	2078183.5	45.29	mg/L	45.29	ppm
2	Cu 324.754	5615964.0	5615415.5	49.37	mg/L	49.37	ppm
2	Fe 273.955	1445.4	1625.1	-0.0033	mg/L	-0.0033	ppm
2	K 766.491	16622.3	10535.1	0.2760	mg/L	0.2760	ppm
2	Mg 279.079	-1329.5	-314.4	-0.0322	mg/L	-0.0322	ppm
2	Mn 257.610	7288501.8	7291885.0	17.03	mg/L	17.03	ppm
2	Mo 202.030	134923.4	135037.8	9.827	mg/L	9.827	ppm
2	Na 330.237	289129.1	287895.1	479.6	mg/L	479.6	ppm
2	Ni 231.604	731109.7	731162.7	18.18	mg/L	18.18	ppm
2	Pb 220.353	1084487.7	1084153.1	75.12	mg/L	75.12	ppm
2	Sb 206.833	447.2	416.5	-0.0132	mg/L	-0.0132	ppm
2	Se 196.026	25.1	20.7	0.0104	mg/L	0.0104	ppm
2	Tl 190.800	-98.8	-65.0	-0.0025	mg/L	-0.0025	ppm
2	V 292.402	1813828.6	1813546.0	18.03	mg/L	18.03	ppm
2	Zn 213.856	1884020.3	1884064.0	35.33	mg/L	35.33	ppm
3	Ag 328.068	-938.4	-517.9	0.0301	mg/L	0.0301	ppm
3	Al 308.215	3530.2	3087.6	0.3303	mg/L	0.3303	ppm
3	As 188.979	26385.3	26395.7	9.704	mg/L	9.704	ppm
3	Ba 233.527	4736433.7	4736866.6	42.86	mg/L	42.86	ppm
3	Be 313.107	-2815.4	-514.6	-0.0002	mg/L	-0.0002	ppm
3	Ca 227.547	38.3	70.7	0.8587	mg/L	0.8587	ppm
3	Cd 228.802	385543.2	385417.3	9.297	mg/L	9.297	ppm
3	Co 228.616	649137.8	649066.3	17.85	mg/L	17.85	ppm
3	Cr 267.716	2089251.2	2089314.1	45.53	mg/L	45.53	ppm
3	Cu 324.754	5208022.6	5207474.1	45.78	mg/L	45.78	ppm
3	Fe 273.955	1445.4	1625.1	-0.0038	mg/L	-0.0038	ppm
3	K 766.491	17163.3	11076.0	0.2866	mg/L	0.2866	ppm
3	Mg 279.079	-1276.7	-261.6	-0.0268	mg/L	-0.0268	ppm
3	Mn 257.610	6840354.9	6843738.1	15.98	mg/L	15.98	ppm
3	Mo 202.030	135496.4	135610.8	9.869	mg/L	9.869	ppm
3	Na 330.237	294407.9	293173.9	486.4	mg/L	486.4	ppm
3	Ni 231.604	736639.9	736693.0	18.32	mg/L	18.32	ppm
3	Pb 220.353	1090089.2	1089754.7	75.50	mg/L	75.50	ppm
3	Sb 206.833	450.1	419.4	-0.0130	mg/L	-0.0130	ppm
3	Se 196.026	7.3	2.8	0.0050	mg/L	0.0050	ppm

3 Tl 190.800	-90.6	-56.8	0.0002 mg/L	0.0002 ppm
3 V 292.402	1823983.3	1823700.8	18.13 mg/L	18.13 ppm
3 Zn 213.856	1903569.4	1903613.1	35.70 mg/L	35.70 ppm

Mean Data

ID: DLC A1427	Seq. No.: 105	Sample No.: 72	A/S Pos: 81
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL	Dilution: 1.0:	1.0
	Data: Original	Date: 04/28/03	04:19:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-661.0	0.0281	0.00181	mg/L	0.0281	0.00181	ppm	6.44%
Al 308.215	3073.9	0.3288	0.00262	mg/L	0.3288	0.00262	ppm	0.80%
As 188.979	26122.1	9.605	0.0881	mg/L	9.605	0.0881	ppm	0.92%
Ba 233.527	4889783.3	44.24	1.350	mg/L	44.24	1.350	ppm	3.05%
Be 313.107	-591.0	-0.0002	0.00003	mg/L	-0.0002	0.00003	ppm	11.83%
Ca 227.547	62.8	0.7626	0.08868	mg/L	0.7626	0.08868	ppm	11.63%
Cd 228.802	383290.0	9.245	0.0448	mg/L	9.245	0.0448	ppm	0.48%
Co 228.616	647787.4	17.81	0.041	mg/L	17.81	0.041	ppm	0.23%
Cr 267.716	2085242.0	45.44	0.134	mg/L	45.44	0.134	ppm	0.29%
Cu 324.754	5398245.3	47.46	1.804	mg/L	47.46	1.804	ppm	3.80%
Fe 273.955	1628.6	-0.0034	0.00032	mg/L	-0.0034	0.00032	ppm	9.44%
K 766.491	10497.4	0.2753	0.01166	mg/L	0.2753	0.01166	ppm	4.23%
Mg 279.079	-333.8	-0.0342	0.00856	mg/L	-0.0342	0.00856	ppm	25.06%
Mn 257.610	7071375.1	16.51	0.523	mg/L	16.51	0.523	ppm	3.17%
Mo 202.030	135072.5	9.830	0.0380	mg/L	9.830	0.0380	ppm	0.39%
Na 330.237	288929.7	480.9	5.00	mg/L	480.9	5.00	ppm	1.04%
Ni 231.604	733954.2	18.25	0.069	mg/L	18.25	0.069	ppm	0.38%
Pb 220.353	1085673.7	75.22	0.248	mg/L	75.22	0.248	ppm	0.33%
Sb 206.833	423.5	-0.0110	0.00359	mg/L	-0.0110	0.00359	ppm	32.56%
Se 196.026	12.6	0.0080	0.00273	mg/L	0.0080	0.00273	ppm	34.16%
Tl 190.800	-59.8	-0.0008	0.00148	mg/L	-0.0008	0.00148	ppm	178.47%
V 292.402	1819300.6	18.08	0.052	mg/L	18.08	0.052	ppm	0.29%
Zn 213.856	1890110.4	35.45	0.220	mg/L	35.45	0.220	ppm	0.62%