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Level IV Data Package

MWH Group 230066

Method: CR6010

2802090001
2802090002
2802090003
2802090004
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2802090006
2802090007

ICP SUMMARY SHEET

File ID: 080227
Date Started: 2/27/08
Analyst ID: CSK

SAMPLE ID

LINEARITY	(17:13)	Wash	(17:24)	2802200171	(17:56)
2802220550	(18:06)	2802200048	(18:23)	2802220412	(18:27)
2802200580	(18:32)	2802220424_5	(18:36)	2802090004_2	(18:40)
2802090005_2	(18:45)	2802090006_2	(18:49)	2802090007_2	(18:54)
2802150089_5	(18:58)	2802150090_2	(19:02)	2802150092_2	(19:20)
2802150095_5	(19:24)				

COMMENT:

Analyst: CSK 2-28-08

Approved By: WBM

Peer Review: BKL 2/28/08

BATCH NUMBER for 080227

Test Parameter:

SCA YR AG AL B_ BA BE CA CD CO CR CU FE K MG MN MO NA NI PB

Batch ID: 2802200171

2802200171	2802220550	2802200048
2802220412	2802200580	2802220424_5X
2802090004_2X	2802090005_2X	2802090006_2X
2802090007_20X	2802150089_5X	2802150090_2X
2802150092_2X	2802150095_5X	

EPA 200.7/6010B QC Check List

Analyst CLK Analysis Date 2-27-08 Reviewer/Date 2-28-08

Instrumnet PerKin Elmer Optima 4300DV

✓ All sample analyzed within 6 month holding time

✓ All sample raw concentraction below the high standard or linear range o marked for dilution and rerun

Initial and closing QC
- ✓ ICV within +/- 5%
- ✓ Linearity check +/- 10%
- ✓ ICSAB +/- 20%
- ✓ QCS +/- 5%
- ✓ MRL +/- 50%

Middle, closing and batch QC
- ✓ FilterCheck < 1/2 MRL
- ✓ MBLANK < 1/2 MRL
- ✓ LCS +/-15%
- ✓ MS/MSD +/-/30%(200.7) +/- 25% (6010B)
- ✓ CCV/MCV/ECV +/- 10%
- ✓ ICB/CCB/ECB < 1/2 MRL
- ✓ CCB ran after the CCV

General QC
- ✓ RPD between MS/MSD is within +/-/20%
- ✓ RPD between LCS/LCSD is within +/- 20%
- ✓ Internal standards 60 TO 125%
- ✓ All pH of the samples are < 2

✓ No more than 20 samples per batch

✓ MS is run at frequency of 1 every 10 samples and MSD is run at frequency of 1 every 20 samples

NA QIR needed for failed QC

NA Special Det Code noted on the cover sheet

NA R value for multi point calibration is > 0.995

NA Proper MRL check ran for special low MRL samples

Reagent and Standards used for Optima 4300 DV
Updated 01/11/08

Int: CLK
Date: 2-28-08

File ID: 080227

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	2/27/08	17:10	1	10.014	10	95-105	100%
LINEARITY	2/27/08	17:13	1	0.0025	.0025		
ICSA	2/27/08	17:17	1	-0.0002	ND	80-120	
ICSAB	2/27/08	17:20	1	.25236	.252	80-120	100%
Wash	2/27/08	17:24	1	-0.0002	ND		
QC-25 1ppm	2/27/08	17:27	1	1.0124	1.0		
CCV	2/27/08	17:31	1	5.2645	5.26	90-110	105%
ICB	2/27/08	17:34	1	-0.0002	ND		
MRL	2/27/08	17:40	1	0.0102	.0102	50-150	102%
MBLANK2007	2/27/08	17:44	1	-0.0002	ND		
MRL2007	2/27/08	17:48	1	0.0101	.0101		
LCS2007	2/27/08	17:52	1	.99392	.994	85-115	99.3%
LCSD2007	2/27/08	17:54	1	.98040	.98	85-115	98.0%
2802200171	2/27/08	17:56	1	-0.0001	ND		
2802200171MS	2/27/08	18:00	1	1.0105	1.01	[1.011]	101%
2802200171MSD	2/27/08	18:03	1	.99510	.995	[0.995]	99.5%
2802200171T	2/27/08	18:03	1		1.00	70 - 130	
2802220550	2/27/08	18:06	1	0.0005	0.0005		
2802220550MS	2/27/08	18:10	1	1.0312	1.03	[1.031]	103%
2802220550MSD	2/27/08	18:13	1	.99306	.993	[0.993]	99.3%
2802220550T	2/27/08	18:13	1		1.00	70 - 130	
CCV	2/27/08	18:17	1	5.2218	5.22	90-110	104%
CCB	2/27/08	18:20	1	0.0000	0		
2802200048	2/27/08	18:23	1	0.0006	0.0005		
2802220412	2/27/08	18:27	1	0.0120	.012		
2802200580	2/27/08	18:32	1	0.0005	0.0005		
2802220424_5X	2/27/08	18:36	5	.64251	.640		
2802090004_2X	2/27/08	18:40	2	0.0518	.052		
2802090005_2X	2/27/08	18:45	2	0.0222	.022		
2802090006_2X	2/27/08	18:49	2	0.0611	.061		
2802090007_20X	2/27/08	18:54	20	14.807	15		
2802150089_5X	2/27/08	18:58	5	0.0961	.096		
2802150090_2X	2/27/08	19:02	2	0.0254	.025		
CCV	2/27/08	19:07	1	5.3809	5.38	90-110	107%
CCB	2/27/08	19:12	1	0.0001	0.0000		
MCV	2/27/08	19:16	1	2.6242	2.62	90-110	104%
2802150092_2X	2/27/08	19:20	2	0.0023	.0023		
2802150095_5X	2/27/08	19:24	5	1.3889	1.4		
ECV	2/27/08	19:28	1	5.2620	5.26	90-110	105%
ECB	2/27/08	19:37	1	0.0000	0.0000		
MCV	2/27/08	19:50	1	N/A	N/A		

Landscape Summary File ID: 080227 Date: 2/27/08 Analyst: CSK Page: 1

Sample ID	Time	SCA	YR	AG	AL	B	BA	BE	CA	CD	CO	CR
ICV	17:10	N/A	N/A	2.01/2	10.1/10	5.03	10.1/10	4.03/4	101/100	5.07/5	10.0	10.0/10
LINEARITY	17:13	N/A	N/A	-.038	-.008	0.033	0.002	-.000	299/300	-.001	0.002	0.002
ICSA	17:17	N/A	N/A	-.038	256/250	0.010	0.002	-.000	259/250	-.001	0.001	-.000
ICSAB	17:20	N/A	N/A	0.279	249/250	0.003	0.263/.25	0.248/.25	252/250	0.505/.5	0.244/.25	0.252/.25
Wash	17:24	N/A	N/A	-.0004	-.0035	0.0088	-.0000	-.0000	-.0003	0.0003	0.0001	-.0002
QC-25 1ppm	17:27	N/A	N/A	0.9744	1.019	0.9662	1.066	0.9983	1.037	0.9846	1.055	1.012
CCV	17:31	N/A	N/A	0.968/1	5.27/5	2.60	5.27/5	2.11/2	52.7/50	2.11/2	5.29	5.26/5
ICB	17:34	N/A	N/A	-.0006	0.0028	0.0198	0.0001	-.0000	0.0013	0.0003	0.0000	-.0002
MRL	17:40	N/A	N/A	0.010/.01	0.054/.05	0.059	0.021/.02	0.001/.001	1.03/1	0.006/.005	0.053/.05	0.010/.01
MBLANK2007	17:44	N/A	N/A	-.0002	0.0057	0.0073	0.0000	-.0000	0.0217	0.0002	0.0002	-.0002
MRL2007	17:48	N/A	N/A	0.010/.01	0.055/.05	0.055	0.021/.02	0.001/.001	1.06/1	0.007/.005	0.055/.05	0.010/.01
LCS2007	17:52	N/A	N/A	0.477/.5	1.92/2	0.484	1.00/1	0.051/.05	48.9/50	0.205/.2	1.01/1	0.994/1
LCSD2007	17:54	N/A	N/A	0.474/.5	1.92/2	0.488	0.997/1	0.051/.05	49.3/50	0.207/.2	1.01/1	0.980/1
2802200171	17:56	N/A	N/A	-.0000	0.1155	0.0902	0.0405	-.0001	41.63	-.0002	0.0002	-.0001
2802200171MS	18:00	N/A	N/A	0.4847	2.080	0.5848	1.061	0.0519	89.56	0.2112	1.016	1.011
2802200171MSD	18:03	N/A	N/A	0.4850	2.032	0.5731	1.050	0.0518	89.07	0.2065	0.9966	0.9951
2802220550	18:06	N/A	N/A	-.0005	0.0745	0.2947	0.0654	-.0002	74.26	-.0005	0.0012	0.0005
2802220550MS	18:10	N/A	N/A	0.4957	2.056	0.7958	1.090	0.0527	121.1	0.2162	1.040	1.031
2802220550MSD	18:13	N/A	N/A	0.4859	2.006	0.7645	1.068	0.0515	118.4	0.2080	1.002	0.9931
CCV	18:17	N/A	N/A	0.962/1	5.18/5	2.57	5.23/5	2.11/2	52.1/50	2.09/2	5.23	5.22/5
CCB	18:20	N/A	N/A	-.0003	0.0053	0.0168	0.0000	-.0000	0.0034	0.0003	0.0000	0.0000
2802200048	18:23	N/A	N/A	-.0001	0.1126	0.0230	0.0141	-.0001	68.87	-.0003	-.0002	0.0006
2802200412	18:27	N/A	N/A	-.0014	1.133	0.0403	0.1112	-.0001	67.25	-.0005	0.0008	0.0120
2802200580	18:32	N/A	N/A	-.0010	0.0227	3.540	0.1333	-.0002	93.47	-.0006	-.0003	0.0005
2802220424_5X	18:36	N/A	N/A	-.0039	0.0395	14.42	0.0412	-.0024	780.8	-.0039	0.0070	0.6425
2802090004_2X	18:40	N/A	N/A	-.0016	2.768	3.309	0.0337	-.0004	243.1	0.0018	0.0005	0.0518
2802090005_2X	18:45	N/A	N/A	-.0009	1.087	2.622	0.0278	-.0003	416.6	0.0001	-.0005	0.0222
2802090006_2X	18:49	N/A	N/A	-.0012	4.557	2.697	0.0218	-.0002	359.6	0.0005	0.0004	0.0611
2802090007_20X	18:54	N/A	N/A	-.0060	0.1280	8.994	0.0437	-.0058	699.8	-.0046	-.0054	14.81
2802150089_5X	18:58	N/A	N/A	-.0019	0.1555	4.334	0.0199	-.0020	942.5	-.0020	-.0021	0.0961
2802150090_2X	19:02	N/A	N/A	-.0017	1.583	4.662	0.0317	-.0010	761.5	-.0004	0.0017	0.0254
CCV	19:07	N/A	N/A	0.992/1	5.23/5	2.68	5.39/5	2.18/2	52.2/50	2.16/2	5.38	5.38/5
CCB	19:12	N/A	N/A	-.0003	0.0089	0.0196	0.0000	-.0001	0.0050	0.0002	-.0001	0.0001
MCV	19:16	N/A	N/A	0.505/.5	2.56/2.5	1.28	2.67/2.5	1.07/1	25.8/25	1.04/1	2.64	2.62/2.5
2802150092_2X	19:20	N/A	N/A	-.0011	1.217	1.820	0.0373	-.0005	311.0	0.0012	0.0085	0.0023
2802150095_5X	19:24	N/A	N/A	-.0058	0.0484	13.56	0.0456	-.0025	821.1	-.0048	0.0060	1.389
ECV	19:28	N/A	N/A	0.973/1	5.20/5	2.61	5.29/5	2.16/2	51.5/50	2.12/2	5.28	5.26/5
ECB	19:37	N/A	N/A	-.0003	0.0015	0.0170	0.0000	-.0001	0.0049	0.0001	0.0001	0.0000
MCV	19:50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Landscape Summary File ID: 080227 Date: 2/27/08 Analyst: CSK Page: 2

Sample ID	Time	CU	FE	K	MG	MN	MO	NA	NI	PB	V	ZN
ICV	17:10	10.1/10	9.97/10	101/100	101/100	10.1/10	10.0/10	101/100	10.0/10	10.0/10	10.2/10	9.96/10
LINEARITY	17:13	-.013	99.2	319	193	0.001	0.001	308/300	0.000	-.002	-.002	0.023
ICSA	17:17	-.014	100/100	0.317	247/250	0.002	0.001	0.132	-.001	-.037	-.002	0.018
ICSAB	17:20	0.248/.25	99.0/100	0.217	244/250	0.261/.25	0.000	0.075	0.476/.5	0.464/.5	0.250/.25	0.545/.5
Wash	17:24	-.0001	0.0104	0.0544	0.0020	-.0020	0.0002	-.0495	0.0001	0.0001	-.0001	-.0002
QC-25 1ppm	17:27	1.018	1.024	9.863	1.068	1.062	0.9697	0.9859	1.072	1.049	0.9887	1.044
CCV	17:31	5.24/5	5.26/5	51.3/50	52.9/50	5.34/5	5.18/5	51.7/50	5.30/5	5.28/5	5.23/5	5.31/5
ICB	17:34	-.0004	0.0052	0.0673	0.0018	-.0020	0.0004	-.0519	0.0003	0.0012	-.0000	0.0001
MRL	17:40	0.010/.01	0.026/.02	1.03/1	0.107/.1	0.000(.002)	0.020/.02	0.961/1	0.022/.02	0.021/.02	0.002/.002	0.021/.02
MBLANK2007	17:44	-.0002	0.0060	0.0173	0.0018	-.0021	0.0001	-.0086	0.0003	-.0003	0.0003	0.0028
MRL2007	17:48	0.011/.01	0.027/.02	1.04/1	0.107/.1	0.000(.002)	0.020/.02	1.02/1	0.022/.02	0.021/.02	0.002/.002	0.024/.02
LCS2007	17:52	1.01/1	4.90/5	18.6/20	19.8/20	0.510/.5	0.984/1	48.5/50	0.507/.5	0.990/1	0.990/1	1.03/1
LCSD2007	17:54	1.01/1	4.94/5	18.8/20	20.1/20	0.508/.5	0.980/1	48.3/50	0.506/.5	0.995/1	0.987/1	1.03/1
2802200171	17:56	0.0037	0.1014	1.881	16.90	0.0026	0.0037	27.78	0.0002	-.0029	0.0053	0.0056
2802200171MS	18:00	1.030	5.110	20.93	36.40	0.5222	1.001	76.52	0.5034	0.9997	1.009	1.048
2802200171MSD	18:03	1.029	5.013	20.57	35.59	0.5233	0.9821	76.13	0.4941	0.9784	1.010	1.027
2802220550	18:06	0.0195	0.1375	9.966	24.39	0.1157	0.0120	101.7	0.0048	-.0029	0.0041	0.0463
2802220550MS	18:10	1.087	5.223	29.10	43.80	0.6393	1.033	148.5	0.5245	1.012	1.030	1.116
2802220550MSD	18:13	1.056	5.081	28.58	42.70	0.6253	0.9935	144.7	0.5029	0.9800	1.009	1.071
CCV	18:17	5.31/5	5.23/5	50.6/50	52.1/50	5.33/5	5.15/5	50.8/50	5.27/5	5.24/5	5.24/5	5.27/5
CCB	18:20	-.0002	0.0065	0.0620	0.0006	-.0021	0.0008	-.0339	0.0000	0.0014	0.0003	0.0001
2802200048	18:23	0.0036	0.1118	0.9264	23.77	0.0037	0.0013	6.858	0.0001	0.0009	0.0056	0.0099
2802220412	18:27	0.0191	3.061	0.9370	19.73	0.0684	0.0020	8.701	0.0075	0.0036	0.0119	0.3209
2802200580	18:32	0.0076	1.498	3.362	23.13	0.0626	0.0161	108.3	0.0045	-.0027	0.0034	0.0371
2802220424_5X	18:36	0.0058	5.788	67.75	532.1	1.374	0.1692	%3299.1	0.0321	-.0368	0.0075	0.0459
2802090004_2X	18:40	0.0040	1.321	12.67	119.6	0.1366	0.0269	828.8	0.0030	-.0093	0.0427	0.0392
2802090005_2X	18:45	0.0012	0.0278	14.52	162.8	0.1702	0.0079	499.8	0.0025	-.0141	0.0024	0.0036
2802090006_2X	18:49	0.0028	0.4480	9.701	162.4	0.1238	0.0060	597.0	0.0024	-.0123	0.0168	0.0155
2802090007_20X	18:54	0.0044	0.0818	47.52	375.7	0.0058	0.0177	%1696.7	-.0046	-.0782	0.0501	0.0139
2802150089_5X	18:58	0.0038	0.2037	23.08	419.8	0.0065	0.1154	%1554.5	-.0020	-.0381	0.0331	-.0028
2802150090_2X	19:02	0.0076	0.7919	16.26	303.9	0.1374	0.0465	782.9	0.0016	-.0191	0.0292	0.0160
CCV	19:07	5.36/5	5.26/5	51.0/50	52.2/50	5.40/5	5.31/5	51.5/50	5.43/5	5.43/5	5.30/5	5.45/5
CCB	19:12	0.0000	0.0008	0.0679	0.0016	-.0022	0.0001	0.0182	0.0000	-.0017	-.0001	-.0000
MCV	19:16	2.67/2.5	2.58/2.5	24.9/25	26.0/25	2.71/2.5	2.58/2.5	25.3/25	2.67/2.5	2.66/2.5	2.62/2.5	2.66/2.5
2802150092_2X	19:20	0.0056	0.3394	32.05	130.6	0.9972	0.0332	%1223.2	0.0098	-.0128	0.1235	0.0112
2802150095_5X	19:24	0.0057	8.798	70.12	544.7	1.379	0.1742	%3493.2	0.0318	-.0357	0.0116	0.0498
ECV	19:28	5.38/5	5.19/5	50.6/50	51.6/50	5.37/5	5.21/5	51.3/50	5.31/5	5.31/5	5.28/5	5.33/5
ECB	19:37	-.0003	0.0016	0.1209	-.0000	-.0023	0.0004	0.0703	0.0001	-.0012	0.0001	-.0000
MCV	19:50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Analysis Begun

Start Time: 2/27/2008 20:06:27 Plasma On Time: 2/27/2008 16:14:00
Logged In Analyst: Charley Kay Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2121801Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080227A.sif
Batch ID: 080227A
Results Data Set: 080227A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 0
Sample ID: Calib Blank 1 Date Collected: 2/27/2008 20:06:29
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	970902.5	34711.05	3.58%	100	%
Yr	379113.9	8574.73	2.26%	100	%
Agt	487.0	235.55	48.37%	[0.00]	mg/L
Alt	16.1	7.95	49.31%	[0.00]	mg/L
B_t	969.0	1.64	0.17%	[0.00]	mg/L
Bat	-33.1	3.10	9.36%	[0.00]	mg/L
Bet	-1893.0	182.27	9.63%	[0.00]	mg/L
Cat	762.2	37.04	4.86%	[0.00]	mg/L
Cdt	62.0	3.09	4.99%	[0.00]	mg/L
Cot	-66.8	1.56	2.34%	[0.00]	mg/L
Crt	212.9	11.98	5.63%	[0.00]	mg/L
Cut	1325.8	156.73	11.82%	[0.00]	mg/L
Fet	-4.0	2.98	74.82%	[0.00]	mg/L
Kt	327.8	14.38	4.39%	[0.00]	mg/L
Mgt	-46.1	2.07	4.48%	[0.00]	mg/L
Mnt	56.4	4.48	7.94%	[0.00]	mg/L
Mot	23.4	2.99	12.79%	[0.00]	mg/L
Nat	208.6	58.97	28.27%	[0.00]	mg/L
Nit	-66.2	0.22	0.33%	[0.00]	mg/L
Pbt	2.6	4.13	159.00%	[0.00]	mg/L
Vt	132.0	5.26	3.98%	[0.00]	mg/L
Znt	87.3	0.80	0.91%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Standard 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/27/2008 20:09:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	597996.9	77229.57	12.91%	61.6	%
Yr	234930.3	23308.77	9.92%	62.0	%
Saturated within auto integration window (code 4),					
Agt	-139.2	162.11	116.46%	[2]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Alt	44.6	0.37	0.82%	[10]	mg/L
B_t	303.3	224.08	73.88%	[5.02]	mg/L
Bat	-15.7	11.36	72.39%	[10]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Bet	-451.5	138.83	30.75%	[4.01]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Cat	242.0	109.78	45.36%	[100]	mg/L
Cdt	31.4	17.33	55.20%	[5.01]	mg/L
Cot	-37.4	2.77	7.42%	[10]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Crt	76.5	37.87	49.53%	[9.97]	mg/L
Cut	322.1	58.36	18.12%	[10]	mg/L
Fet	-6.2	2.45	39.75%	[9.98]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Kt	89.3	77.98	87.34%	[100]	mg/L
Mgt	-23.6	4.68	19.84%	[100]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Mnt	29.3	12.76	43.53%	[10]	mg/L
Mot	12.4	9.46	76.32%	[9.98]	mg/L
Nat	753.3	58.18	7.72%	[100]	mg/L
Nit	-32.9	18.41	55.98%	[10]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Pbt	-5.9	3.32	56.36%	[10]	mg/L
No calibration curve because standard intensity and concentration values are not in the same order.					
Vt	53.1	8.93	16.81%	[10]	mg/L
Znt	50.6	21.01	41.48%	[10]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al	1	Lin, Calc Int	0.0	4.465	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	60.42	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	2.420	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	6.266	0.00000	1.000000	
Cr	1	Lin, Calc Int	-0.0	7.669	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	32.21	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	0.8928	0.00000	1.000000	
Mn	1	Lin, Calc Int	-0.0	2.932	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	1.242	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	7.533	0.00000	1.000000	
V	1	Lin, Calc Int	0.0	5.312	0.00000	1.000000	
Zn	1	Lin, Calc Int	0.0	5.064	0.00000	1.000000	

2/27/2008 16:34:44 Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): -0.000 Slit adjustment: 2

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	291294.4
-1.6	15.0	416457.8
-1.2	15.0	554916.6
-0.8	15.0	695427.4
-0.4	15.0	785238.1
0.0	15.0	799314.5
0.4	15.0	763815.6
0.8	15.0	679201.4
1.2	15.0	546237.4
1.6	15.0	417003.8
2.0	15.0	300553.6
0.0	10.0	7737.0
0.0	10.5	23927.4
0.0	11.0	40779.9
0.0	11.5	63178.0
0.0	12.0	94945.3
0.0	12.5	210252.5
0.0	13.0	294258.0
0.0	13.5	403901.2
0.0	14.0	523466.2
0.0	14.5	752424.5
0.0	15.0	810757.1
0.0	15.5	802732.3
0.0	16.0	739680.6
0.0	16.5	503805.1
0.0	17.0	368045.1
0.0	17.5	273298.9
0.0	18.0	192686.3
0.0	18.5	115932.1
0.0	19.0	26902.4
0.0	19.5	14838.2
0.0	20.0	14730.0
-0.8	15.0	700330.5
-0.4	15.0	780642.8
0.0	15.0	833694.7
0.4	15.0	770671.7
0.8	15.0	661932.4
0.0	13.0	304165.1
0.0	13.5	395032.0
0.0	14.0	518080.4
0.0	14.5	718209.8
0.0	15.0	798676.6
0.0	15.5	785590.1
0.0	16.0	690320.6
0.0	16.5	501154.5
0.0	17.0	372001.8

2/27/2008 16:41:38 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 798676.6 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 798676.6 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	245.2
-6.5	15.0	362.1
-6.0	15.0	487.1
-5.5	15.0	640.9
-5.0	15.0	872.6
-4.5	15.0	1277.5
-4.0	15.0	2016.8
-3.5	15.0	3246.0
-3.0	15.0	5186.3
-2.5	15.0	7915.9
-2.0	15.0	10471.9

-1.5	15.0	13445.1
-1.0	15.0	16766.1
-0.5	15.0	19786.5
0.0	15.0	21245.6
0.5	15.0	20074.3
1.0	15.0	18441.3
1.5	15.0	17552.0
2.0	15.0	14811.0
2.5	15.0	11351.4
3.0	15.0	6788.6
3.5	15.0	5087.3
4.0	15.0	4530.4
4.5	15.0	3679.4
5.0	15.0	2854.3
5.5	15.0	2370.6
6.0	15.0	2088.9
6.5	15.0	1857.4
7.0	15.0	1686.0

2/27/2008 16:48:18 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 21245.6 for Radial viewing

Analysis Begun

Start Time: 2/27/2008 17:03:21 Plasma On Time: 2/27/2008 16:14:00
Logged In Analyst: Charley Kay Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080227.sif
Batch ID: 080227
Results Data Set: 080227
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 0
Sample ID: Calib Blank 1 Date Collected: 2/27/2008 17:03:38
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	463016.5	341.63	0.07%	100	%
Yr	201604.1	610.44	0.30%	100	%
Agt	429.1	87.17	20.32%	[0.00]	mg/L
Alt	42.4	21.20	49.97%	[0.00]	mg/L
B_t	223.7	8.05	3.60%	[0.00]	mg/L
Bat	-37.8	7.57	20.05%	[0.00]	mg/L
Bet	-3969.2	23.74	0.60%	[0.00]	mg/L
Cat	420.4	3.57	0.85%	[0.00]	mg/L
Cdt	56.3	1.72	3.05%	[0.00]	mg/L
Cot	-75.6	5.92	7.84%	[0.00]	mg/L
Crt	316.0	2.30	0.73%	[0.00]	mg/L
Cut	2074.0	75.37	3.63%	[0.00]	mg/L
Fet	-8.3	2.59	31.07%	[0.00]	mg/L
Kt	242.6	81.51	33.60%	[0.00]	mg/L
Mgt	-40.2	1.18	2.95%	[0.00]	mg/L
Mnt	1631.3	46.88	2.87%	[0.00]	mg/L
Mot	30.5	1.42	4.65%	[0.00]	mg/L
Nat	95.6	29.52	30.88%	[0.00]	mg/L
Nit	-72.8	5.17	7.10%	[0.00]	mg/L
Pbt	-9.3	4.75	51.06%	[0.00]	mg/L
Vt	190.7	12.79	6.71%	[0.00]	mg/L
Znt	120.7	3.08	2.55%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Standard 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/27/2008 17:07:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	406434.7	1132.50	0.28%	87.8	%
Yr	183667.4	3459.85	1.88%	91.1	%
Agt	585723.9	1952.40	0.33%	[2]	mg/L
Alt	40427.7	140.87	0.35%	[10]	mg/L
B_t	163715.1	315.57	0.19%	[5.02]	mg/L
Bat	759100.1	1511.15	0.20%	[10]	mg/L
Bet	12741399.2	4853.59	0.04%	[4.01]	mg/L
Cat	588507.2	575.41	0.10%	[100]	mg/L
Cdt	140450.3	305.26	0.22%	[5.01]	mg/L
Cot	273903.9	364.88	0.13%	[10]	mg/L
Crt	826122.8	1520.64	0.18%	[9.97]	mg/L
Cut	3853969.3	45357.79	1.18%	[10]	mg/L
Fet	7334.1	219.55	2.99%	[9.98]	mg/L
Kt	126763.2	446.38	0.35%	[100]	mg/L
Mgt	236021.3	470.70	0.20%	[100]	mg/L
Mnt	5913074.4	33959.84	0.57%	[10]	mg/L
Mot	131995.9	574.53	0.44%	[9.98]	mg/L
Nat	394494.9	1442.96	0.37%	[100]	mg/L
Nit	235520.2	744.31	0.32%	[10]	mg/L
Pbt	51987.3	272.95	0.53%	[10]	mg/L
Vt	1777982.9	11369.72	0.64%	[10]	mg/L
Znt	507659.9	1777.97	0.35%	[10]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	292900	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	4043	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	32610	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	75910	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3177000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	5885	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	28030	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	27390	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	82860	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	385400	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	734.9	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1268	0.00000	1.000000	
Mg	1	Lin, Calc Int	-0.0	2360	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	591300	0.00000	1.000000	
Mo	1	Lin, Calc Int	-0.0	13230	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3945	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	23550	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	5199	0.00000	1.000000	
V	1	Lin, Calc Int	0.0	177800	0.00000	1.000000	
Zn	1	Lin, Calc Int	-0.0	50770	0.00000	1.000000	

Sequence No.: 3
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/27/2008 17:10:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	403120.5	87.1	%	1.06				1.21%
Yr	182987.6	90.8	%	1.27				1.40%
Ag†	587463.2	2.01	mg/L	0.002	2.01	mg/L	0.002	0.12%
QC value within limits for Ag		Recovery = 100.30%						
Al†	40902.1	10.1	mg/L	0.02	10.1	mg/L	0.02	0.15%
QC value within limits for Al		Recovery = 101.17%						
B_†	164547.3	5.03	mg/L	0.009	5.03	mg/L	0.009	0.19%
QC value within limits for B_		Recovery = 100.50%						
Ba†	763949.1	10.1	mg/L	0.03	10.1	mg/L	0.03	0.26%
QC value within limits for Ba		Recovery = 100.64%						
Be†	12791840.3	4.03	mg/L	0.065	4.03	mg/L	0.065	1.61%
QC value within limits for Be		Recovery = 100.65%						
Ca†	594892.6	101	mg/L	0.1	101	mg/L	0.1	0.13%
QC value within limits for Ca		Recovery = 101.09%						
Cd†	141059.8	5.07	mg/L	0.006	5.07	mg/L	0.006	0.12%
QC value within limits for Cd		Recovery = 101.41%						
Co†	274985.4	10.0	mg/L	0.02	10.0	mg/L	0.02	0.19%
QC value within limits for Co		Recovery = 100.39%						
Cr†	829794.1	10.0	mg/L	0.03	10.0	mg/L	0.03	0.32%
QC value within limits for Cr		Recovery = 100.14%						
Cu†	3907204.7	10.1	mg/L	0.16	10.1	mg/L	0.16	1.56%
QC value within limits for Cu		Recovery = 101.48%						
Fe†	7323.8	9.97	mg/L	0.240	9.97	mg/L	0.240	2.41%
QC value within limits for Fe		Recovery = 99.66%						
K†	127669.8	101	mg/L	0.3	101	mg/L	0.3	0.26%
QC value within limits for K		Recovery = 100.72%						
Mg†	238987.7	101	mg/L	0.0	101	mg/L	0.0	0.02%
QC value within limits for Mg		Recovery = 101.26%						
Mn†	5992974.9	10.1	mg/L	0.12	10.1	mg/L	0.12	1.15%
QC value within limits for Mn		Recovery = 101.35%						
Mo†	132625.4	10.0	mg/L	0.01	10.0	mg/L	0.01	0.13%
QC value within limits for Mo		Recovery = 100.28%						
Na†	398457.7	101	mg/L	0.5	101	mg/L	0.5	0.51%
QC value within limits for Na		Recovery = 101.00%						
Ni†	236026.2	10.0	mg/L	0.01	10.0	mg/L	0.01	0.12%
QC value within limits for Ni		Recovery = 100.21%						
Pb†	52083.0	10.0	mg/L	0.02	10.0	mg/L	0.02	0.24%
QC value within limits for Pb		Recovery = 100.18%						
V†	1802547.0	10.2	mg/L	0.12	10.2	mg/L	0.12	1.15%
QC value within limits for V		Recovery = 101.93%						
Zn†	509136.0	9.96	mg/L	0.017	9.96	mg/L	0.017	0.17%
QC value within limits for Zn		Recovery = 99.61%						

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 2/27/2008 17:20:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	393886.7	85.1	%	0.32				0.38%
Yr	180293.4	89.4	%	0.50				0.56%
Agt	81834.2	0.279	mg/L	0.0013	0.279	mg/L	0.0013	0.45%
QC value less than the lower limit for Ag Recovery = 55.89%								
Alt	1005974.3	249	mg/L	0.3	249	mg/L	0.3	0.11%
QC value within limits for Al Recovery = 99.53%								
B_t	100.1	0.00258	mg/L	0.000239	0.00258	mg/L	0.000239	9.27%
QC value within limits for B_ Recovery = Not calculated								
Bat	19979.1	0.263	mg/L	0.0006	0.263	mg/L	0.0006	0.24%
QC value within limits for Ba Recovery = 105.28%								
Bet	787507.0	0.248	mg/L	0.0007	0.248	mg/L	0.0007	0.27%
QC value within limits for Be Recovery = 99.14%								
Cat	1482933.9	252	mg/L	0.6	252	mg/L	0.6	0.22%
QC value within limits for Ca Recovery = 100.79%								
Cdt	14132.4	0.505	mg/L	0.0017	0.505	mg/L	0.0017	0.33%
QC value within limits for Cd Recovery = 101.01%								
Cot	6672.2	0.244	mg/L	0.0016	0.244	mg/L	0.0016	0.64%
QC value within limits for Co Recovery = 97.44%								
Crt	20910.9	0.252	mg/L	0.0009	0.252	mg/L	0.0009	0.38%
QC value within limits for Cr Recovery = 100.94%								
Cut	95561.0	0.248	mg/L	0.0012	0.248	mg/L	0.0012	0.49%
QC value within limits for Cu Recovery = 99.27%								
Fet	72745.2	99.0	mg/L	0.12	99.0	mg/L	0.12	0.13%
QC value within limits for Fe Recovery = 98.99%								
Kt	275.1	0.217	mg/L	0.0201	0.217	mg/L	0.0201	9.28%
QC value within limits for K Recovery = Not calculated								
Mgt	575772.1	244	mg/L	0.1	244	mg/L	0.1	0.04%
QC value within limits for Mg Recovery = 97.58%								
Mnt	154203.1	0.261	mg/L	0.0003	0.261	mg/L	0.0003	0.10%
QC value within limits for Mn Recovery = 104.31%								
Mot	1.8	0.00014	mg/L	0.000163	0.00014	mg/L	0.000163	119.95%
QC value within limits for Mo Recovery = Not calculated								
Nat	296.0	0.0750	mg/L	0.01343	0.0750	mg/L	0.01343	17.90%
QC value within limits for Na Recovery = Not calculated								
Nit	11217.3	0.476	mg/L	0.0013	0.476	mg/L	0.0013	0.26%
QC value within limits for Ni Recovery = 95.26%								
Pbt	2411.1	0.464	mg/L	0.0048	0.464	mg/L	0.0048	1.03%
QC value within limits for Pb Recovery = 92.76%								
Vt	44237.9	0.250	mg/L	0.0005	0.250	mg/L	0.0005	0.22%
QC value within limits for V Recovery = 100.08%								
Znt	27807.0	0.545	mg/L	0.0015	0.545	mg/L	0.0015	0.27%
QC value within limits for Zn Recovery = 108.90%								

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: Wash
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 17:24:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	458588.2	99.0	%	0.05				0.05%
Yr	199046.1	98.7	%	0.41				0.42%
Ag†	-109.7	-0.00037	mg/L	0.000023	-0.00037	mg/L	0.000023	6.15%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-14.3	-0.00354	mg/L	0.002578	-0.00354	mg/L	0.002578	72.80%
QC value within limits for Al	Recovery = Not calculated							
B_†	288.0	0.00883	mg/L	0.000005	0.00883	mg/L	0.000005	0.06%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-0.5	-0.00001	mg/L	0.000023	-0.00001	mg/L	0.000023	371.70%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-108.7	-0.00003	mg/L	0.000008	-0.00003	mg/L	0.000008	23.51%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-1.9	-0.00033	mg/L	0.000061	-0.00033	mg/L	0.000061	18.47%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	7.0	0.00025	mg/L	0.000180	0.00025	mg/L	0.000180	71.53%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.0	0.00007	mg/L	0.000077	0.00007	mg/L	0.000077	107.64%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-13.2	-0.00016	mg/L	0.000031	-0.00016	mg/L	0.000031	19.18%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-44.4	-0.00012	mg/L	0.000336	-0.00012	mg/L	0.000336	291.23%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	7.7	0.0104	mg/L	0.00020	0.0104	mg/L	0.00020	1.92%
QC value within limits for Fe	Recovery = Not calculated							
K†	69.0	0.0544	mg/L	0.01429	0.0544	mg/L	0.01429	26.26%
QC value within limits for K	Recovery = Not calculated							
Mg†	4.6	0.00197	mg/L	0.000738	0.00197	mg/L	0.000738	37.51%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-1190.6	-0.00201	mg/L	0.000015	-0.00201	mg/L	0.000015	0.74%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	2.7	0.00020	mg/L	0.000057	0.00020	mg/L	0.000057	28.12%
QC value within limits for Mo	Recovery = Not calculated							
Na†	-195.5	-0.0495	mg/L	0.01004	-0.0495	mg/L	0.01004	20.25%
QC value within limits for Na	Recovery = Not calculated							
Ni†	2.0	0.00008	mg/L	0.000007	0.00008	mg/L	0.000007	8.68%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	0.6	0.00011	mg/L	0.000015	0.00011	mg/L	0.000015	12.94%
QC value within limits for Pb	Recovery = Not calculated							
V†	-9.0	-0.00005	mg/L	0.000157	-0.00005	mg/L	0.000157	304.53%
QC value within limits for V	Recovery = Not calculated							
Zn†	-8.0	-0.00016	mg/L	0.000046	-0.00016	mg/L	0.000046	29.03%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 2/27/2008 17:27:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	447133.7	96.6	%	0.58				0.60%
Yr	193307.7	95.9	%	0.92				0.96%
Agt	285352.8	0.974	mg/L	0.0006	0.974	mg/L	0.0006	0.07%
QC value within limits for Ag	Recovery = 97.44%							
Alt	4119.3	1.02	mg/L	0.005	1.02	mg/L	0.005	0.54%
QC value within limits for Al	Recovery = 101.89%							
B_t	31579.1	0.966	mg/L	0.0108	0.966	mg/L	0.0108	1.12%
QC value within limits for B_	Recovery = 96.62%							
Bat	80890.7	1.07	mg/L	0.004	1.07	mg/L	0.004	0.42%
QC value within limits for Ba	Recovery = 106.56%							
Bet	3171978.5	0.998	mg/L	0.0038	0.998	mg/L	0.0038	0.38%
QC value within limits for Be	Recovery = 99.83%							
Cat	6101.9	1.04	mg/L	0.011	1.04	mg/L	0.011	1.08%
QC value within limits for Ca	Recovery = 103.68%							
Cdt	27487.4	0.985	mg/L	0.0099	0.985	mg/L	0.0099	1.01%
QC value within limits for Cd	Recovery = 98.46%							
Cot	28901.4	1.06	mg/L	0.011	1.06	mg/L	0.011	1.04%
QC value within limits for Co	Recovery = 105.52%							
Crt	83888.6	1.01	mg/L	0.003	1.01	mg/L	0.003	0.32%
QC value within limits for Cr	Recovery = 101.24%							
Cut	392128.1	1.02	mg/L	0.003	1.02	mg/L	0.003	0.34%
QC value within limits for Cu	Recovery = 101.85%							
Fet	752.8	1.02	mg/L	0.016	1.02	mg/L	0.016	1.52%
QC value within limits for Fe	Recovery = 102.44%							
Kt	12502.9	9.86	mg/L	0.087	9.86	mg/L	0.087	0.88%
QC value within limits for K	Recovery = 98.63%							
Mgt	2520.3	1.07	mg/L	0.010	1.07	mg/L	0.010	0.93%
QC value within limits for Mg	Recovery = 106.78%							
Mnt	627706.9	1.06	mg/L	0.003	1.06	mg/L	0.003	0.30%
QC value within limits for Mn	Recovery = 106.16%							
Mot	12825.1	0.970	mg/L	0.0078	0.970	mg/L	0.0078	0.80%
QC value within limits for Mo	Recovery = 96.97%							
Nat	3889.5	0.986	mg/L	0.0017	0.986	mg/L	0.0017	0.17%
QC value within limits for Na	Recovery = 98.59%							
Nit	25259.5	1.07	mg/L	0.011	1.07	mg/L	0.011	0.99%
QC value within limits for Ni	Recovery = 107.25%							
Pbt	5455.8	1.05	mg/L	0.019	1.05	mg/L	0.019	1.79%
QC value within limits for Pb	Recovery = 104.95%							
Vt	174796.5	0.989	mg/L	0.0020	0.989	mg/L	0.0020	0.20%
QC value within limits for V	Recovery = 98.87%							
Znt	53392.0	1.04	mg/L	0.009	1.04	mg/L	0.009	0.87%
QC value within limits for Zn	Recovery = 104.44%							

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/27/2008 17:31:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	418253.1	90.3	%	0.15				0.16%
Yr	185384.5	92.0	%	1.04				1.13%
Ag†	283542.6	0.968	mg/L	0.0072	0.968	mg/L	0.0072	0.74%
QC value within limits for Ag	Recovery = 96.82%							
Al†	21315.6	5.27	mg/L	0.002	5.27	mg/L	0.002	0.04%
QC value within limits for Al	Recovery = 105.45%							
B_†	85102.0	2.60	mg/L	0.025	2.60	mg/L	0.025	0.97%
QC value within limits for B_	Recovery = 103.95%							
Ba†	399835.5	5.27	mg/L	0.040	5.27	mg/L	0.040	0.77%
QC value within limits for Ba	Recovery = 105.34%							
Be†	6696669.3	2.11	mg/L	0.001	2.11	mg/L	0.001	0.05%
QC value within limits for Be	Recovery = 105.38%							
Ca†	310114.9	52.7	mg/L	0.06	52.7	mg/L	0.06	0.11%
QC value within limits for Ca	Recovery = 105.39%							
Cd†	58563.2	2.11	mg/L	0.015	2.11	mg/L	0.015	0.72%
QC value within limits for Cd	Recovery = 105.48%							
Co†	144881.6	5.29	mg/L	0.041	5.29	mg/L	0.041	0.77%
QC value within limits for Co	Recovery = 105.79%							
Cr†	436227.0	5.26	mg/L	0.045	5.26	mg/L	0.045	0.85%
QC value within limits for Cr	Recovery = 105.29%							
Cu†	2016382.2	5.24	mg/L	0.006	5.24	mg/L	0.006	0.12%
QC value within limits for Cu	Recovery = 104.74%							
Fe†	3867.1	5.26	mg/L	0.055	5.26	mg/L	0.055	1.04%
QC value within limits for Fe	Recovery = 105.25%							
K†	65040.0	51.3	mg/L	0.20	51.3	mg/L	0.20	0.40%
QC value within limits for K	Recovery = 102.62%							
Mg†	124775.6	52.9	mg/L	0.18	52.9	mg/L	0.18	0.34%
QC value within limits for Mg	Recovery = 105.73%							
Mn†	3155580.4	5.34	mg/L	0.020	5.34	mg/L	0.020	0.37%
QC value within limits for Mn	Recovery = 106.73%							
Mo†	68467.2	5.18	mg/L	0.046	5.18	mg/L	0.046	0.89%
QC value within limits for Mo	Recovery = 103.53%							
Na†	203971.7	51.7	mg/L	0.16	51.7	mg/L	0.16	0.32%
QC value within limits for Na	Recovery = 103.41%							
Ni†	124870.9	5.30	mg/L	0.055	5.30	mg/L	0.055	1.03%
QC value within limits for Ni	Recovery = 106.04%							
Pb†	27448.8	5.28	mg/L	0.042	5.28	mg/L	0.042	0.79%
QC value within limits for Pb	Recovery = 105.60%							
V†	925566.9	5.23	mg/L	0.019	5.23	mg/L	0.019	0.36%
QC value within limits for V	Recovery = 104.70%							
Zn†	271252.5	5.31	mg/L	0.047	5.31	mg/L	0.047	0.89%
QC value within limits for Zn	Recovery = 106.14%							

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 17:34:51
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	458292.3	99.0	%	1.01				1.02%
Yr	198740.2	98.6	%	0.06				0.06%
Ag†	-163.7	-0.00056	mg/L	0.000448	-0.00056	mg/L	0.000448	80.08%
QC value within limits for Ag	Recovery = Not calculated							
Al†	11.5	0.00284	mg/L	0.008581	0.00284	mg/L	0.008581	302.29%
QC value within limits for Al	Recovery = Not calculated							
B_†	644.9	0.0198	mg/L	0.00100	0.0198	mg/L	0.00100	5.07%
QC value within limits for B_	Recovery = Not calculated							
Ba†	5.0	0.00007	mg/L	0.000031	0.00007	mg/L	0.000031	46.49%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-26.7	-0.00001	mg/L	0.000000	-0.00001	mg/L	0.000000	5.65%
QC value within limits for Be	Recovery = Not calculated							
Ca†	7.5	0.00127	mg/L	0.001110	0.00127	mg/L	0.001110	87.56%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	8.6	0.00031	mg/L	0.000182	0.00031	mg/L	0.000182	59.52%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.0	0.00000	mg/L	0.000249	0.00000	mg/L	0.000249	>999.9%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-12.6	-0.00015	mg/L	0.000044	-0.00015	mg/L	0.000044	29.02%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-157.7	-0.00041	mg/L	0.000273	-0.00041	mg/L	0.000273	66.65%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	3.8	0.00518	mg/L	0.000095	0.00518	mg/L	0.000095	1.84%
QC value within limits for Fe	Recovery = Not calculated							
K†	85.4	0.0673	mg/L	0.01169	0.0673	mg/L	0.01169	17.36%
QC value within limits for K	Recovery = Not calculated							
Mg†	4.3	0.00184	mg/L	0.001132	0.00184	mg/L	0.001132	61.63%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-1192.2	-0.00202	mg/L	0.000028	-0.00202	mg/L	0.000028	1.38%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	5.9	0.00044	mg/L	0.000247	0.00044	mg/L	0.000247	55.68%
QC value within limits for Mo	Recovery = Not calculated							
Na†	-204.6	-0.0519	mg/L	0.00305	-0.0519	mg/L	0.00305	5.88%
QC value within limits for Na	Recovery = Not calculated							
Ni†	6.9	0.00029	mg/L	0.000213	0.00029	mg/L	0.000213	73.25%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	6.3	0.00120	mg/L	0.000410	0.00120	mg/L	0.000410	34.07%
QC value within limits for Pb	Recovery = Not calculated							
V†	0.1	0.00000	mg/L	0.000025	0.00000	mg/L	0.000025	>999.9%
QC value within limits for V	Recovery = Not calculated							
Zn†	3.8	0.00007	mg/L	0.000054	0.00007	mg/L	0.000054	75.01%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/27/2008 17:38:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	454868.0	98.2	%	0.86				0.87%
Yr	195730.5	97.1	%	0.56				0.58%
Ag†	2738.8	0.00935	mg/L	0.000258	0.00935	mg/L	0.000258	2.76%
QC value within limits for Ag		Recovery = 93.52%						
Al†	233.2	0.0577	mg/L	0.00451	0.0577	mg/L	0.00451	7.82%
QC value within limits for Al		Recovery = 115.38%						
B_†	1990.0	0.0609	mg/L	0.00070	0.0609	mg/L	0.00070	1.14%
QC value within limits for B_		Recovery = 121.83%						
Ba†	1581.1	0.0208	mg/L	0.00021	0.0208	mg/L	0.00021	1.01%
QC value within limits for Ba		Recovery = 104.14%						
Be†	3236.1	0.00102	mg/L	0.000020	0.00102	mg/L	0.000020	1.96%
QC value within limits for Be		Recovery = 101.85%						
Ca†	6154.2	1.05	mg/L	0.006	1.05	mg/L	0.006	0.56%
QC value within limits for Ca		Recovery = 104.57%						
Cd†	176.3	0.00649	mg/L	0.000046	0.00649	mg/L	0.000046	0.71%
QC value within limits for Cd		Recovery = 129.90%						
Co†	1442.2	0.0527	mg/L	0.00051	0.0527	mg/L	0.00051	0.96%
QC value within limits for Co		Recovery = 105.31%						
Cr†	823.5	0.00994	mg/L	0.000211	0.00994	mg/L	0.000211	2.13%
QC value within limits for Cr		Recovery = 99.39%						
Cu†	3900.0	0.0102	mg/L	0.00023	0.0102	mg/L	0.00023	2.30%
QC value within limits for Cu		Recovery = 101.69%						
Fe†	20.7	0.0282	mg/L	0.00071	0.0282	mg/L	0.00071	2.51%
QC value within limits for Fe		Recovery = 140.85%						
K†	1317.6	1.04	mg/L	0.034	1.04	mg/L	0.034	3.31%
QC value within limits for K		Recovery = 103.94%						
Mg†	256.2	0.109	mg/L	0.0007	0.109	mg/L	0.0007	0.60%
QC value within limits for Mg		Recovery = 108.56%						
Mn†	87.2	0.00015	mg/L	0.000017	0.00015	mg/L	0.000017	11.36%
QC value less than the lower limit for Mn		Recovery = 7.38%						
Mo†	261.6	0.0198	mg/L	0.00020	0.0198	mg/L	0.00020	1.04%
QC value within limits for Mo		Recovery = 98.90%						
Na†	3863.4	0.979	mg/L	0.0176	0.979	mg/L	0.0176	1.79%
QC value within limits for Na		Recovery = 97.93%						
Ni†	510.6	0.0217	mg/L	0.00036	0.0217	mg/L	0.00036	1.68%
QC value within limits for Ni		Recovery = 108.41%						
Pb†	108.8	0.0209	mg/L	0.00097	0.0209	mg/L	0.00097	4.62%
QC value within limits for Pb		Recovery = 104.68%						
V†	354.3	0.00205	mg/L	0.000010	0.00205	mg/L	0.000010	0.51%
QC value within limits for V		Recovery = 102.38%						
Zn†	1051.9	0.0206	mg/L	0.00037	0.0206	mg/L	0.00037	1.79%
QC value within limits for Zn		Recovery = 102.86%						

QC Failed. Retry.

Sequence No.: 12
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/27/2008 17:40:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	452268.5	97.7	%	0.61				0.63%
Yr	199021.6	98.7	%	0.24				0.24%
Ag†	2800.6	0.00956	mg/L	0.000021	0.00956	mg/L	0.000021	0.22%
QC value within limits for Ag		Recovery = 95.63%						
Al†	217.7	0.0538	mg/L	0.00510	0.0538	mg/L	0.00510	9.47%

QC value within limits for Al Recovery = 107.69%					
B_†	1934.0	0.0592 mg/L	0.00042	0.0592 mg/L	0.00042	0.71%
QC value within limits for B_ Recovery = 118.39%					
Ba†	1585.4	0.0209 mg/L	0.00012	0.0209 mg/L	0.00012	0.57%
QC value within limits for Ba Recovery = 104.42%					
Be†	3203.1	0.00101 mg/L	0.000014	0.00101 mg/L	0.000014	1.43%
QC value within limits for Be Recovery = 100.81%					
Ca†	6067.1	1.03 mg/L	0.000	1.03 mg/L	0.000	0.03%
QC value within limits for Ca Recovery = 103.09%					
Cd†	176.0	0.00648 mg/L	0.000124	0.00648 mg/L	0.000124	1.91%
QC value within limits for Cd Recovery = 129.68%					
Co†	1451.2	0.0530 mg/L	0.00054	0.0530 mg/L	0.00054	1.03%
QC value within limits for Co Recovery = 105.96%					
Cr†	846.1	0.0102 mg/L	0.00004	0.0102 mg/L	0.00004	0.39%
QC value within limits for Cr Recovery = 102.11%					
Cu†	3901.9	0.0102 mg/L	0.00008	0.0102 mg/L	0.00008	0.79%
QC value within limits for Cu Recovery = 101.75%					
Fe†	19.0	0.0259 mg/L	0.00357	0.0259 mg/L	0.00357	13.82%
QC value within limits for Fe Recovery = 129.26%					
K†	1299.7	1.03 mg/L	0.047	1.03 mg/L	0.047	4.55%
QC value within limits for K Recovery = 102.53%					
Mg†	253.1	0.107 mg/L	0.0001	0.107 mg/L	0.0001	0.08%
QC value within limits for Mg Recovery = 107.22%					
Mn†	91.3	0.00015 mg/L	0.000008	0.00015 mg/L	0.000008	4.91%
QC value less than the lower limit for Mn Recovery = 7.72%					
Mo†	265.9	0.0201 mg/L	0.00013	0.0201 mg/L	0.00013	0.62%
QC value within limits for Mo Recovery = 100.51%					
Na†	3789.6	0.961 mg/L	0.0144	0.961 mg/L	0.0144	1.50%
QC value within limits for Na Recovery = 96.06%					
Ni†	508.4	0.0216 mg/L	0.00024	0.0216 mg/L	0.00024	1.10%
QC value within limits for Ni Recovery = 107.94%					
Pb†	107.0	0.0206 mg/L	0.00046	0.0206 mg/L	0.00046	2.24%
QC value within limits for Pb Recovery = 102.90%					
V†	357.7	0.00207 mg/L	0.000018	0.00207 mg/L	0.000018	0.87%
QC value within limits for V Recovery = 103.40%					
Zn†	1056.4	0.0207 mg/L	0.00001	0.0207 mg/L	0.00001	0.06%
QC value within limits for Zn Recovery = 103.31%					

QC Failed. Continue with analysis.

User canceled analysis.

==========

Analysis Begun

Start Time: 2/27/2008 17:44:54 **Plasma On Time:** 2/27/2008 16:14:00
Logged In Analyst: Charley Kay **Technique:** ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2121801 **Autosampler Model:** AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080227.sif
Batch ID: 080227
Results Data Set: 080227
Results Library: C:\pe\Charley Kay\Results\Results.mdb

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Sequence No.: 13 **Autosampler Location:** 38
Sample ID: MBLANK2007 **Date Collected:** 2/27/2008 17:44:55
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 1X **Sample Prep Vol:**

Mean Data: MBLANK2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	455670.8	98.4	%	0.06				0.06%
Yr	200845.4	99.6	%	0.81				0.81%
Ag†	-64.5	-0.00022	mg/L	0.000020	-0.00022	mg/L	0.000020	9.27%
Al†	23.1	0.00571	mg/L	0.000420	0.00571	mg/L	0.000420	7.35%
B_†	237.0	0.00727	mg/L	0.000105	0.00727	mg/L	0.000105	1.44%
Ba†	1.2	0.00002	mg/L	0.000031	0.00002	mg/L	0.000031	201.72%
Be†	-125.4	-0.00004	mg/L	0.000022	-0.00004	mg/L	0.000022	55.79%
Ca†	127.8	0.0217	mg/L	0.00177	0.0217	mg/L	0.00177	8.13%
Cd†	4.3	0.00015	mg/L	0.000086	0.00015	mg/L	0.000086	55.80%
Co†	5.5	0.00020	mg/L	0.000249	0.00020	mg/L	0.000249	123.41%
Cr†	-20.7	-0.00025	mg/L	0.000084	-0.00025	mg/L	0.000084	33.78%
Cu†	-82.6	-0.00021	mg/L	0.000100	-0.00021	mg/L	0.000100	46.83%
Fe†	4.4	0.00599	mg/L	0.000598	0.00599	mg/L	0.000598	9.97%
K†	21.9	0.0173	mg/L	0.06208	0.0173	mg/L	0.06208	359.53%
Mg†	4.3	0.00184	mg/L	0.000261	0.00184	mg/L	0.000261	14.21%
Mn†	-1262.4	-0.00213	mg/L	0.000017	-0.00213	mg/L	0.000017	0.80%
Mo†	1.3	0.00010	mg/L	0.000026	0.00010	mg/L	0.000026	25.10%
Na†	-34.0	-0.00861	mg/L	0.015193	-0.00861	mg/L	0.015193	176.51%
Ni†	8.2	0.00035	mg/L	0.000015	0.00035	mg/L	0.000015	4.19%
Pb†	-1.4	-0.00027	mg/L	0.000151	-0.00027	mg/L	0.000151	56.71%
V†	48.4	0.00027	mg/L	0.000253	0.00027	mg/L	0.000253	93.39%
Zn†	139.8	0.00275	mg/L	0.000103	0.00275	mg/L	0.000103	3.73%

Sequence No.: 14
Sample ID: MRL2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 2/27/2008 17:48:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	453701.3	98.0	%	0.37				0.37%
Yr	201378.1	99.9	%	1.26				1.26%
Agt	2820.9	0.00963	mg/L	0.000095	0.00963	mg/L	0.000095	0.99%
Alt	223.4	0.0553	mg/L	0.00301	0.0553	mg/L	0.00301	5.45%
B_t	1783.1	0.0546	mg/L	0.00042	0.0546	mg/L	0.00042	0.77%
Bat	1611.1	0.0212	mg/L	0.00013	0.0212	mg/L	0.00013	0.62%
Bet	3192.6	0.00100	mg/L	0.000049	0.00100	mg/L	0.000049	4.87%
Cat	6209.2	1.06	mg/L	0.009	1.06	mg/L	0.009	0.82%
Cdt	179.3	0.00661	mg/L	0.000194	0.00661	mg/L	0.000194	2.93%
Cot	1510.0	0.0551	mg/L	0.00050	0.0551	mg/L	0.00050	0.91%
Crt	835.9	0.0101	mg/L	0.00009	0.0101	mg/L	0.00009	0.91%
Cut	4107.1	0.0107	mg/L	0.00010	0.0107	mg/L	0.00010	0.95%
Fet	20.1	0.0273	mg/L	0.00139	0.0273	mg/L	0.00139	5.08%
Kt	1313.8	1.04	mg/L	0.069	1.04	mg/L	0.069	6.68%
Mgt	252.3	0.107	mg/L	0.0013	0.107	mg/L	0.0013	1.24%
Mnt	46.9	0.00008	mg/L	0.000024	0.00008	mg/L	0.000024	30.10%
Mot	263.2	0.0199	mg/L	0.00008	0.0199	mg/L	0.00008	0.39%
Nat	4034.0	1.02	mg/L	0.004	1.02	mg/L	0.004	0.37%
Nit	522.7	0.0222	mg/L	0.00024	0.0222	mg/L	0.00024	1.08%
Pbt	111.4	0.0214	mg/L	0.00093	0.0214	mg/L	0.00093	4.32%
Vt	348.3	0.00201	mg/L	0.000221	0.00201	mg/L	0.000221	10.97%
Znt	1227.2	0.0240	mg/L	0.00003	0.0240	mg/L	0.00003	0.11%

Sequence No.: 15
Sample ID: LCS2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 2/27/2008 17:52:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	431350.6	93.2	%	0.48				0.51%
Yr	194501.2	96.5	%	0.39				0.41%
Agt	139619.9	0.477	mg/L	0.0003	0.477	mg/L	0.0003	0.05%
Alt	7746.5	1.92	mg/L	0.032	1.92	mg/L	0.032	1.66%
B_t	15853.6	0.484	mg/L	0.0003	0.484	mg/L	0.0003	0.07%
Bat	76023.0	1.00	mg/L	0.001	1.00	mg/L	0.001	0.13%
Bet	161399.6	0.0508	mg/L	0.00016	0.0508	mg/L	0.00016	0.32%
Cat	287577.8	48.9	mg/L	0.06	48.9	mg/L	0.06	0.11%
Cdt	5649.4	0.205	mg/L	0.0003	0.205	mg/L	0.0003	0.14%
Cot	27654.6	1.01	mg/L	0.005	1.01	mg/L	0.005	0.45%
Crt	82357.1	0.994	mg/L	0.0011	0.994	mg/L	0.0011	0.11%
Cut	389967.8	1.01	mg/L	0.003	1.01	mg/L	0.003	0.25%
Fet	3604.4	4.90	mg/L	0.019	4.90	mg/L	0.019	0.39%
Kt	23632.0	18.6	mg/L	0.37	18.6	mg/L	0.37	2.00%
Mgt	46633.3	19.8	mg/L	0.25	19.8	mg/L	0.25	1.28%
Mnt	301674.3	0.510	mg/L	0.0018	0.510	mg/L	0.0018	0.36%
Mot	13011.7	0.984	mg/L	0.0006	0.984	mg/L	0.0006	0.06%
Nat	191303.6	48.5	mg/L	0.23	48.5	mg/L	0.23	0.47%
Nit	11944.1	0.507	mg/L	0.0032	0.507	mg/L	0.0032	0.64%
Pbt	5145.1	0.990	mg/L	0.0039	0.990	mg/L	0.0039	0.39%
Vt	175065.7	0.990	mg/L	0.0010	0.990	mg/L	0.0010	0.10%
Znt	52380.1	1.03	mg/L	0.000	1.03	mg/L	0.000	0.05%

Sequence No.: 16
Sample ID: LCSD2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 41
Date Collected: 2/27/2008 17:54:28
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSD2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	424021.6	91.6	%	0.44				0.48%
Yr	189269.3	93.9	%	1.84				1.96%
Agt	138801.7	0.474	mg/L	0.0006	0.474	mg/L	0.0006	0.14%
Alt	7764.1	1.92	mg/L	0.049	1.92	mg/L	0.049	2.55%
B_t	15984.3	0.488	mg/L	0.0026	0.488	mg/L	0.0026	0.52%
Bat	75658.1	0.997	mg/L	0.0064	0.997	mg/L	0.0064	0.64%
Bet	161010.0	0.0507	mg/L	0.00021	0.0507	mg/L	0.00021	0.41%
Cat	290233.1	49.3	mg/L	0.14	49.3	mg/L	0.14	0.29%
Cdt	5681.8	0.207	mg/L	0.0003	0.207	mg/L	0.0003	0.15%
Cot	27670.9	1.01	mg/L	0.006	1.01	mg/L	0.006	0.64%
Crt	81237.5	0.980	mg/L	0.0015	0.980	mg/L	0.0015	0.16%
Cut	387932.2	1.01	mg/L	0.002	1.01	mg/L	0.002	0.17%
Fet	3631.3	4.94	mg/L	0.113	4.94	mg/L	0.113	2.29%
Kt	23799.6	18.8	mg/L	0.56	18.8	mg/L	0.56	2.96%
Mgt	47485.2	20.1	mg/L	0.47	20.1	mg/L	0.47	2.33%
Mnt	300167.5	0.508	mg/L	0.0014	0.508	mg/L	0.0014	0.27%
Mot	12963.0	0.980	mg/L	0.0040	0.980	mg/L	0.0040	0.41%
Nat	190734.5	48.3	mg/L	0.28	48.3	mg/L	0.28	0.59%
Nit	11908.9	0.506	mg/L	0.0070	0.506	mg/L	0.0070	1.39%
Pbt	5175.1	0.995	mg/L	0.0052	0.995	mg/L	0.0052	0.52%
Vt	174525.1	0.987	mg/L	0.0023	0.987	mg/L	0.0023	0.23%
Znt	52431.6	1.03	mg/L	0.007	1.03	mg/L	0.007	0.64%

Sequence No.: 17
Sample ID: 2802200171
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 42
Date Collected: 2/27/2008 17:56:51
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802200171

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	433018.1	93.5	%	0.98				1.04%
Yr	193787.3	96.1	%	0.03				0.03%
Agt	-6.2	-0.00002	mg/L	0.000140	-0.00002	mg/L	0.000140	657.07%
Alt	467.1	0.116	mg/L	0.0055	0.116	mg/L	0.0055	4.74%
B_t	2940.1	0.0902	mg/L	0.00086	0.0902	mg/L	0.00086	0.95%
Bat	3076.8	0.0405	mg/L	0.00047	0.0405	mg/L	0.00047	1.16%
Bet	-386.6	-0.00012	mg/L	0.000004	-0.00012	mg/L	0.000004	3.25%
Cat	244981.4	41.6	mg/L	0.07	41.6	mg/L	0.07	0.17%
Cdt	-5.6	-0.00020	mg/L	0.000066	-0.00020	mg/L	0.000066	33.32%
Cot	5.6	0.00020	mg/L	0.000142	0.00020	mg/L	0.000142	69.60%
Crt	-10.4	-0.00013	mg/L	0.000082	-0.00013	mg/L	0.000082	65.31%
Cut	1415.8	0.00367	mg/L	0.000039	0.00367	mg/L	0.000039	1.08%
Fet	74.5	0.101	mg/L	0.0048	0.101	mg/L	0.0048	4.72%
Kt	2383.9	1.88	mg/L	0.094	1.88	mg/L	0.094	5.02%
Mgt	39894.1	16.9	mg/L	0.06	16.9	mg/L	0.06	0.36%
Mnt	1545.6	0.00261	mg/L	0.000072	0.00261	mg/L	0.000072	2.75%
Mot	48.7	0.00368	mg/L	0.000165	0.00368	mg/L	0.000165	4.48%
Nat	109580.5	27.8	mg/L	0.10	27.8	mg/L	0.10	0.35%
Nit	5.3	0.00022	mg/L	0.000317	0.00022	mg/L	0.000317	141.89%
Pbt	-14.9	-0.00286	mg/L	0.001632	-0.00286	mg/L	0.001632	57.07%
Vt	943.2	0.00530	mg/L	0.000006	0.00530	mg/L	0.000006	0.11%
Znt	285.3	0.00562	mg/L	0.000085	0.00562	mg/L	0.000085	1.52%

Sequence No.: 18
Sample ID: 2802200171MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 43
Date Collected: 2/27/2008 18:00:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802200171MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	417073.8	90.1	%	0.39				0.43%
Yr	187555.9	93.0	%	0.51				0.55%
Agt	141961.4	0.485	mg/L	0.0019	0.485	mg/L	0.0019	0.39%
Alt	8410.1	2.08	mg/L	0.014	2.08	mg/L	0.014	0.67%
B_t	19137.5	0.585	mg/L	0.0096	0.585	mg/L	0.0096	1.65%
Bat	80505.3	1.06	mg/L	0.014	1.06	mg/L	0.014	1.30%
Bet	164886.5	0.0519	mg/L	0.00019	0.0519	mg/L	0.00019	0.37%
Cat	527089.3	89.6	mg/L	0.53	89.6	mg/L	0.53	0.59%
Cdt	5810.4	0.211	mg/L	0.0030	0.211	mg/L	0.0030	1.44%
Cot	27828.8	1.02	mg/L	0.013	1.02	mg/L	0.013	1.30%
Crt	83733.1	1.01	mg/L	0.015	1.01	mg/L	0.015	1.44%
Cut	396717.1	1.03	mg/L	0.010	1.03	mg/L	0.010	0.99%
Fet	3755.0	5.11	mg/L	0.019	5.11	mg/L	0.019	0.37%
Kt	26528.3	20.9	mg/L	0.14	20.9	mg/L	0.14	0.66%
Mgt	85901.5	36.4	mg/L	0.40	36.4	mg/L	0.40	1.10%
Mnt	308802.6	0.522	mg/L	0.0015	0.522	mg/L	0.0015	0.28%
Mot	13235.1	1.00	mg/L	0.018	1.00	mg/L	0.018	1.79%
Nat	301862.6	76.5	mg/L	0.49	76.5	mg/L	0.49	0.64%
Nit	11857.0	0.503	mg/L	0.0072	0.503	mg/L	0.0072	1.43%
Pbt	5197.0	1.000	mg/L	0.0101	1.000	mg/L	0.0101	1.01%
Vt	178435.5	1.01	mg/L	0.002	1.01	mg/L	0.002	0.16%
Znt	53379.5	1.05	mg/L	0.014	1.05	mg/L	0.014	1.38%

Sequence No.: 19
Sample ID: 2802200171MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 44
Date Collected: 2/27/2008 18:03:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802200171MSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	424946.4	91.8	%	1.25				1.36%
Yr	194081.0	96.3	%	0.17				0.18%
Agt	142046.9	0.485	mg/L	0.0001	0.485	mg/L	0.0001	0.01%
Alt	8215.8	2.03	mg/L	0.012	2.03	mg/L	0.012	0.60%
B_t	18757.6	0.573	mg/L	0.0061	0.573	mg/L	0.0061	1.06%
Bat	79715.2	1.05	mg/L	0.001	1.05	mg/L	0.001	0.14%
Bet	164712.2	0.0518	mg/L	0.00010	0.0518	mg/L	0.00010	0.19%
Cat	524190.9	89.1	mg/L	0.18	89.1	mg/L	0.18	0.20%
Cdt	5680.0	0.206	mg/L	0.0047	0.206	mg/L	0.0047	2.25%
Cot	27297.7	0.997	mg/L	0.0128	0.997	mg/L	0.0128	1.29%
Crt	82454.9	0.995	mg/L	0.0015	0.995	mg/L	0.0015	0.15%
Cut	396142.3	1.03	mg/L	0.001	1.03	mg/L	0.001	0.10%
Fet	3683.7	5.01	mg/L	0.035	5.01	mg/L	0.035	0.70%
Kt	26081.0	20.6	mg/L	0.06	20.6	mg/L	0.06	0.30%
Mgt	84004.1	35.6	mg/L	0.35	35.6	mg/L	0.35	0.98%
Mnt	309433.0	0.523	mg/L	0.0012	0.523	mg/L	0.0012	0.23%
Mot	12988.8	0.982	mg/L	0.0163	0.982	mg/L	0.0163	1.66%
Nat	300341.9	76.1	mg/L	0.34	76.1	mg/L	0.34	0.45%
Nit	11638.2	0.494	mg/L	0.0063	0.494	mg/L	0.0063	1.28%
Pbt	5086.3	0.978	mg/L	0.0092	0.978	mg/L	0.0092	0.94%
Vt	178682.7	1.01	mg/L	0.001	1.01	mg/L	0.001	0.08%
Znt	52309.8	1.03	mg/L	0.015	1.03	mg/L	0.015	1.42%

Sequence No.: 20
Sample ID: 2802220550
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 45
Date Collected: 2/27/2008 18:06:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802220550

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	421600.8	91.1	%	0.35				0.38%
Yr	195535.0	97.0	%	0.03				0.03%
Agt	-160.4	-0.00055	mg/L	0.000059	-0.00055	mg/L	0.000059	10.73%
Alt	301.1	0.0745	mg/L	0.00088	0.0745	mg/L	0.00088	1.18%
B_t	9610.4	0.295	mg/L	0.0031	0.295	mg/L	0.0031	1.06%
Bat	4965.3	0.0654	mg/L	0.00023	0.0654	mg/L	0.00023	0.35%
Bet	-615.8	-0.00019	mg/L	0.000000	-0.00019	mg/L	0.000000	0.01%
Cat	437026.2	74.3	mg/L	0.13	74.3	mg/L	0.13	0.18%
Cdt	-13.4	-0.00047	mg/L	0.000018	-0.00047	mg/L	0.000018	3.78%
Cot	33.1	0.00121	mg/L	0.000067	0.00121	mg/L	0.000067	5.53%
Crt	44.7	0.00054	mg/L	0.000069	0.00054	mg/L	0.000069	12.84%
Cut	7503.6	0.0195	mg/L	0.00010	0.0195	mg/L	0.00010	0.54%
Fet	101.1	0.138	mg/L	0.0029	0.138	mg/L	0.0029	2.10%
Kt	12633.0	9.97	mg/L	0.023	9.97	mg/L	0.023	0.23%
Mgt	57573.7	24.4	mg/L	0.05	24.4	mg/L	0.05	0.20%
Mnt	68393.9	0.116	mg/L	0.0003	0.116	mg/L	0.0003	0.26%
Mot	159.2	0.0120	mg/L	0.00042	0.0120	mg/L	0.00042	3.45%
Nat	401158.5	102	mg/L	0.5	102	mg/L	0.5	0.45%
Nit	112.7	0.00479	mg/L	0.000396	0.00479	mg/L	0.000396	8.28%
Pbt	-14.9	-0.00287	mg/L	0.000010	-0.00287	mg/L	0.000010	0.36%
Vt	726.7	0.00409	mg/L	0.000029	0.00409	mg/L	0.000029	0.71%
Znt	2352.1	0.0463	mg/L	0.00036	0.0463	mg/L	0.00036	0.77%

Sequence No.: 21
Sample ID: 2802220550MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 46
Date Collected: 2/27/2008 18:10:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802220550MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	402867.9	87.0	%	0.23				0.26%
Yr	184778.1	91.7	%	0.37				0.41%
Agt	145163.3	0.496	mg/L	0.0003	0.496	mg/L	0.0003	0.05%
Alt	8312.2	2.06	mg/L	0.039	2.06	mg/L	0.039	1.88%
B_t	26021.7	0.796	mg/L	0.0048	0.796	mg/L	0.0048	0.60%
Bat	82736.2	1.09	mg/L	0.002	1.09	mg/L	0.002	0.17%
Bet	167326.0	0.0527	mg/L	0.00004	0.0527	mg/L	0.00004	0.08%
Cat	712793.4	121	mg/L	0.1	121	mg/L	0.1	0.07%
Cdt	5948.4	0.216	mg/L	0.0001	0.216	mg/L	0.0001	0.05%
Cot	28497.1	1.04	mg/L	0.009	1.04	mg/L	0.009	0.82%
Crt	85450.7	1.03	mg/L	0.007	1.03	mg/L	0.007	0.72%
Cut	418706.7	1.09	mg/L	0.002	1.09	mg/L	0.002	0.22%
Fet	3838.6	5.22	mg/L	0.064	5.22	mg/L	0.064	1.22%
Kt	36892.4	29.1	mg/L	0.45	29.1	mg/L	0.45	1.53%
Mgt	103384.6	43.8	mg/L	0.70	43.8	mg/L	0.70	1.59%
Mnt	378037.3	0.639	mg/L	0.0008	0.639	mg/L	0.0008	0.13%
Mot	13665.0	1.03	mg/L	0.003	1.03	mg/L	0.003	0.30%
Nat	585883.9	149	mg/L	0.7	149	mg/L	0.7	0.46%
Nit	12352.6	0.524	mg/L	0.0043	0.524	mg/L	0.0043	0.82%
Pbt	5261.2	1.01	mg/L	0.003	1.01	mg/L	0.003	0.30%
Vt	182044.9	1.03	mg/L	0.000	1.03	mg/L	0.000	0.04%
Znt	56831.2	1.12	mg/L	0.007	1.12	mg/L	0.007	0.62%

Sequence No.: 22
Sample ID: 2802220550MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 47
Date Collected: 2/27/2008 18:13:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802220550MSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	415019.7	89.6	%	0.44				0.49%
Yr	188164.1	93.3	%	0.54				0.58%
Agt	142309.5	0.486	mg/L	0.0001	0.486	mg/L	0.0001	0.03%
Alt	8111.8	2.01	mg/L	0.011	2.01	mg/L	0.011	0.52%
B_t	24999.6	0.765	mg/L	0.0093	0.765	mg/L	0.0093	1.21%
Bat	81070.0	1.07	mg/L	0.001	1.07	mg/L	0.001	0.06%
Bet	163699.7	0.0515	mg/L	0.00003	0.0515	mg/L	0.00003	0.05%
Cat	696741.7	118	mg/L	0.2	118	mg/L	0.2	0.15%
Cdt	5723.3	0.208	mg/L	0.0020	0.208	mg/L	0.0020	0.94%
Cot	27437.3	1.00	mg/L	0.004	1.00	mg/L	0.004	0.37%
Crt	82285.9	0.993	mg/L	0.0067	0.993	mg/L	0.0067	0.67%
Cut	406652.8	1.06	mg/L	0.001	1.06	mg/L	0.001	0.12%
Fet	3734.0	5.08	mg/L	0.025	5.08	mg/L	0.025	0.49%
Kt	36228.3	28.6	mg/L	0.16	28.6	mg/L	0.16	0.55%
Mgt	100779.7	42.7	mg/L	0.01	42.7	mg/L	0.01	0.01%
Mnt	369726.5	0.625	mg/L	0.0003	0.625	mg/L	0.0003	0.05%
Mot	13139.7	0.993	mg/L	0.0066	0.993	mg/L	0.0066	0.67%
Nat	570876.3	145	mg/L	0.1	145	mg/L	0.1	0.09%
Nit	11844.4	0.503	mg/L	0.0002	0.503	mg/L	0.0002	0.04%
Pbt	5094.7	0.980	mg/L	0.0066	0.980	mg/L	0.0066	0.67%
Vt	178420.6	1.01	mg/L	0.001	1.01	mg/L	0.001	0.14%
Znt	54569.0	1.07	mg/L	0.006	1.07	mg/L	0.006	0.58%

Sequence No.: 23
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/27/2008 18:17:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	421071.3	90.9	%	0.03				0.03%
Yr	187130.1	92.8	%	0.38				0.41%
Ag†	281677.0	0.962	mg/L	0.0001	0.962	mg/L	0.0001	0.01%
QC value within limits for Ag		Recovery = 96.18%						
Al†	20952.1	5.18	mg/L	0.011	5.18	mg/L	0.011	0.22%
QC value within limits for Al		Recovery = 103.65%						
B_†	84063.8	2.57	mg/L	0.001	2.57	mg/L	0.001	0.03%
QC value within limits for B_		Recovery = 102.68%						
Ba†	396902.9	5.23	mg/L	0.021	5.23	mg/L	0.021	0.40%
QC value within limits for Ba		Recovery = 104.57%						
Be†	6706291.1	2.11	mg/L	0.008	2.11	mg/L	0.008	0.40%
QC value within limits for Be		Recovery = 105.53%						
Ca†	306378.8	52.1	mg/L	0.01	52.1	mg/L	0.01	0.02%
QC value within limits for Ca		Recovery = 104.12%						
Cd†	57970.3	2.09	mg/L	0.005	2.09	mg/L	0.005	0.22%
QC value within limits for Cd		Recovery = 104.41%						
Co†	143323.1	5.23	mg/L	0.012	5.23	mg/L	0.012	0.24%
QC value within limits for Co		Recovery = 104.65%						
Cr†	432686.1	5.22	mg/L	0.004	5.22	mg/L	0.004	0.09%
QC value within limits for Cr		Recovery = 104.44%						
Cu†	2046094.4	5.31	mg/L	0.003	5.31	mg/L	0.003	0.05%
QC value within limits for Cu		Recovery = 106.28%						
Fe†	3840.4	5.23	mg/L	0.046	5.23	mg/L	0.046	0.88%
QC value within limits for Fe		Recovery = 104.52%						
K†	64114.2	50.6	mg/L	0.27	50.6	mg/L	0.27	0.54%
QC value within limits for K		Recovery = 101.16%						
Mg†	122865.0	52.1	mg/L	0.06	52.1	mg/L	0.06	0.12%
QC value within limits for Mg		Recovery = 104.11%						
Mn†	3150777.5	5.33	mg/L	0.001	5.33	mg/L	0.001	0.01%
QC value within limits for Mn		Recovery = 106.57%						
Mo†	68128.3	5.15	mg/L	0.022	5.15	mg/L	0.022	0.42%
QC value within limits for Mo		Recovery = 103.02%						
Na†	200427.0	50.8	mg/L	0.21	50.8	mg/L	0.21	0.42%
QC value within limits for Na		Recovery = 101.61%						
Ni†	124113.5	5.27	mg/L	0.000	5.27	mg/L	0.000	0.01%
QC value within limits for Ni		Recovery = 105.40%						
Pb†	27216.5	5.24	mg/L	0.001	5.24	mg/L	0.001	0.01%
QC value within limits for Pb		Recovery = 104.70%						
V†	927169.1	5.24	mg/L	0.007	5.24	mg/L	0.007	0.12%
QC value within limits for V		Recovery = 104.87%						
Zn†	269445.5	5.27	mg/L	0.008	5.27	mg/L	0.008	0.15%
QC value within limits for Zn		Recovery = 105.43%						

All analyte(s) passed QC.

Sequence No.: 24
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 18:20:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	447296.6	96.6	%	0.57				0.59%
Yr	194731.7	96.6	%	1.09				1.12%
Ag†	-81.1	-0.00028	mg/L	0.000272	-0.00028	mg/L	0.000272	98.37%
QC value within limits for Ag		Recovery = Not calculated						
Al†	21.5	0.00531	mg/L	0.003205	0.00531	mg/L	0.003205	60.32%
QC value within limits for Al		Recovery = Not calculated						
B_†	548.9	0.0168	mg/L	0.00121	0.0168	mg/L	0.00121	7.21%
QC value within limits for B_		Recovery = Not calculated						
Ba†	1.1	0.00001	mg/L	0.000055	0.00001	mg/L	0.000055	383.00%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-75.2	-0.00002	mg/L	0.000001	-0.00002	mg/L	0.000001	4.95%
QC value within limits for Be		Recovery = Not calculated						
Ca†	20.1	0.00342	mg/L	0.000527	0.00342	mg/L	0.000527	15.41%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	9.7	0.00035	mg/L	0.000112	0.00035	mg/L	0.000112	32.38%
QC value within limits for Cd		Recovery = Not calculated						
Co†	1.3	0.00005	mg/L	0.000226	0.00005	mg/L	0.000226	480.74%
QC value within limits for Co		Recovery = Not calculated						
Cr†	0.2	0.00000	mg/L	0.000013	0.00000	mg/L	0.000013	577.52%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-82.9	-0.00022	mg/L	0.000114	-0.00022	mg/L	0.000114	53.04%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	4.8	0.00651	mg/L	0.002249	0.00651	mg/L	0.002249	34.53%
QC value within limits for Fe		Recovery = Not calculated						
K†	78.6	0.0620	mg/L	0.02362	0.0620	mg/L	0.02362	38.08%
QC value within limits for K		Recovery = Not calculated						
Mg†	1.5	0.00065	mg/L	0.002274	0.00065	mg/L	0.002274	350.23%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	-1221.7	-0.00207	mg/L	0.000021	-0.00207	mg/L	0.000021	1.01%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	10.4	0.00079	mg/L	0.000283	0.00079	mg/L	0.000283	35.88%
QC value within limits for Mo		Recovery = Not calculated						
Na†	-133.9	-0.0339	mg/L	0.00855	-0.0339	mg/L	0.00855	25.19%
QC value within limits for Na		Recovery = Not calculated						
Ni†	0.7	0.00003	mg/L	0.000386	0.00003	mg/L	0.000386	>999.9%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	7.2	0.00139	mg/L	0.000132	0.00139	mg/L	0.000132	9.49%
QC value within limits for Pb		Recovery = Not calculated						
V†	59.9	0.00034	mg/L	0.000133	0.00034	mg/L	0.000133	39.40%
QC value within limits for V		Recovery = Not calculated						
Zn†	6.6	0.00013	mg/L	0.000191	0.00013	mg/L	0.000191	147.75%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: 2802090004_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 52
Date Collected: 2/27/2008 18:40:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090004_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	394316.0	85.2	%	0.24				0.28%
Yr	182521.0	90.5	%	0.70				0.77%
Agt	-232.0	-0.00079	mg/L	0.000290	-0.00158	mg/L	0.000580	36.59%
Alt	5594.3	1.38	mg/L	0.007	2.77	mg/L	0.014	0.50%
B_t	53962.5	1.65	mg/L	0.003	3.31	mg/L	0.007	0.20%
Bat	1279.2	0.0169	mg/L	0.00012	0.0337	mg/L	0.00023	0.70%
Bet	-674.0	-0.00021	mg/L	0.000002	-0.00042	mg/L	0.000004	0.98%
Cat	715379.7	122	mg/L	0.7	243	mg/L	1.4	0.59%
Cdt	25.2	0.00090	mg/L	0.000013	0.00180	mg/L	0.000026	1.43%
Cot	6.9	0.00025	mg/L	0.000171	0.00050	mg/L	0.000341	67.77%
Crt	2147.9	0.0259	mg/L	0.00023	0.0518	mg/L	0.00046	0.89%
Cut	766.0	0.00199	mg/L	0.000018	0.00398	mg/L	0.000035	0.89%
Fet	485.4	0.660	mg/L	0.0056	1.32	mg/L	0.011	0.84%
Kt	8027.6	6.33	mg/L	0.064	12.7	mg/L	0.13	1.02%
Mgt	141185.4	59.8	mg/L	0.06	120	mg/L	0.1	0.10%
Mnt	40397.4	0.0683	mg/L	0.00000	0.137	mg/L	0.0000	0.00%
Mot	177.7	0.0134	mg/L	0.00016	0.0269	mg/L	0.00033	1.21%
Nat	1634773.1	414	mg/L	3.0	829	mg/L	6.0	0.72%
Nit	35.5	0.00151	mg/L	0.000094	0.00302	mg/L	0.000189	6.26%
Pbt	-24.2	-0.00466	mg/L	0.001075	-0.00931	mg/L	0.002151	23.10%
Vt	3767.7	0.0213	mg/L	0.00018	0.0427	mg/L	0.00037	0.86%
Znt	996.7	0.0196	mg/L	0.00007	0.0392	mg/L	0.00015	0.37%

Sequence No.: 30
Sample ID: 2802090005_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 53
Date Collected: 2/27/2008 18:45:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090005_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	393887.3	85.1	%	1.21				1.43%
Yr	185127.9	91.8	%	0.99				1.08%
Agt	-136.7	-0.00047	mg/L	0.000087	-0.00093	mg/L	0.000174	18.61%
Alt	2197.0	0.543	mg/L	0.0039	1.09	mg/L	0.008	0.72%
B_t	42750.7	1.31	mg/L	0.003	2.62	mg/L	0.005	0.20%
Bat	1053.6	0.0139	mg/L	0.00006	0.0278	mg/L	0.00012	0.43%
Bet	-483.2	-0.00015	mg/L	0.000006	-0.00030	mg/L	0.000013	4.24%
Cat	1225803.9	208	mg/L	0.4	417	mg/L	0.8	0.20%
Cdt	1.1	0.00004	mg/L	0.000089	0.00007	mg/L	0.000178	240.06%
Cot	-6.7	-0.00024	mg/L	0.000101	-0.00049	mg/L	0.000203	41.52%
Crt	919.2	0.0111	mg/L	0.00025	0.0222	mg/L	0.00050	2.27%
Cut	236.9	0.00061	mg/L	0.000072	0.00123	mg/L	0.000145	11.80%
Fet	10.2	0.0139	mg/L	0.00638	0.0278	mg/L	0.01276	45.89%
Kt	9205.3	7.26	mg/L	0.103	14.5	mg/L	0.21	1.42%
Mgt	192167.6	81.4	mg/L	0.21	163	mg/L	0.4	0.26%
Mnt	50311.7	0.0851	mg/L	0.00013	0.170	mg/L	0.0003	0.16%
Mot	52.4	0.00396	mg/L	0.000777	0.00792	mg/L	0.001553	19.61%
Nat	985839.2	250	mg/L	0.6	500	mg/L	1.1	0.23%
Nit	29.6	0.00126	mg/L	0.000113	0.00251	mg/L	0.000226	8.97%
Pbt	-36.6	-0.00703	mg/L	0.002076	-0.0141	mg/L	0.00415	29.52%
Vt	204.4	0.00121	mg/L	0.000024	0.00242	mg/L	0.000049	2.02%
Znt	93.0	0.00182	mg/L	0.000099	0.00364	mg/L	0.000199	5.45%

Sequence No.: 31
Sample ID: 2802090006_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 54
Date Collected: 2/27/2008 18:49:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090006_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	398427.1	86.1	%	0.66				0.77%
Yr	185113.0	91.8	%	0.45				0.49%
Agt	-178.8	-0.00061	mg/L	0.000167	-0.00122	mg/L	0.000334	27.34%
Alt	9211.7	2.28	mg/L	0.014	4.56	mg/L	0.028	0.62%
B_t	43979.7	1.35	mg/L	0.002	2.70	mg/L	0.004	0.13%
Bat	827.0	0.0109	mg/L	0.00002	0.0218	mg/L	0.00004	0.18%
Bet	-323.5	-0.00010	mg/L	0.000007	-0.00020	mg/L	0.000014	7.09%
Cat	1058019.5	180	mg/L	0.9	360	mg/L	1.9	0.52%
Cdt	6.6	0.00024	mg/L	0.000071	0.00048	mg/L	0.000142	29.76%
Cot	5.7	0.00021	mg/L	0.000194	0.00041	mg/L	0.000388	93.90%
Crt	2530.5	0.0305	mg/L	0.00001	0.0611	mg/L	0.00001	0.02%
Cut	546.2	0.00142	mg/L	0.000113	0.00284	mg/L	0.000225	7.94%
Fet	164.6	0.224	mg/L	0.0018	0.448	mg/L	0.0036	0.80%
Kt	6148.3	4.85	mg/L	0.154	9.70	mg/L	0.309	3.19%
Mgt	191703.3	81.2	mg/L	0.54	162	mg/L	1.1	0.66%
Mnt	36605.1	0.0619	mg/L	0.00042	0.124	mg/L	0.0008	0.68%
Mot	39.9	0.00302	mg/L	0.000267	0.00603	mg/L	0.000535	8.87%
Nat	1177547.8	298	mg/L	1.1	597	mg/L	2.1	0.35%
Nit	28.5	0.00121	mg/L	0.000562	0.00242	mg/L	0.001123	46.37%
Pbt	-32.0	-0.00615	mg/L	0.000902	-0.0123	mg/L	0.00180	14.67%
Vt	1462.5	0.00839	mg/L	0.000062	0.0168	mg/L	0.00012	0.74%
Znt	394.7	0.00777	mg/L	0.000016	0.0155	mg/L	0.00003	0.21%

Sequence No.: 32
Sample ID: 2802090007_20X
Analyst:
Initial Sample Wt:
Dilution: 20X

Autosampler Location: 55
Date Collected: 2/27/2008 18:54:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090007_20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	425273.0	91.8	%	0.92				1.00%
Yr	190856.9	94.7	%	0.46				0.48%
Agt	-88.3	-0.00030	mg/L	0.000375	-0.00603	mg/L	0.007491	124.28%
Alt	25.9	0.00640	mg/L	0.009023	0.128	mg/L	0.1805	141.02%
B_t	14666.1	0.450	mg/L	0.0006	8.99	mg/L	0.013	0.14%
Bat	165.9	0.00219	mg/L	0.000050	0.0437	mg/L	0.00100	2.29%
Bet	-922.5	-0.00029	mg/L	0.000004	-0.00581	mg/L	0.000076	1.30%
Cat	205932.9	35.0	mg/L	0.31	700	mg/L	6.2	0.88%
Cdt	-6.4	-0.00023	mg/L	0.000148	-0.00462	mg/L	0.002961	64.11%
Cot	-7.5	-0.00027	mg/L	0.000055	-0.00544	mg/L	0.001099	20.19%
Crt	61347.0	0.740	mg/L	0.0005	14.8	mg/L	0.01	0.07%
Cut	85.8	0.00022	mg/L	0.000096	0.00445	mg/L	0.001919	43.14%
Fet	3.0	0.00409	mg/L	0.003113	0.0818	mg/L	0.06225	76.09%
Kt	3011.9	2.38	mg/L	0.064	47.5	mg/L	1.27	2.68%
Mgt	44332.0	18.8	mg/L	0.04	376	mg/L	0.8	0.21%
Mnt	171.5	0.00029	mg/L	0.000023	0.00580	mg/L	0.000451	7.77%
Mot	11.7	0.00088	mg/L	0.000113	0.0177	mg/L	0.00226	12.80%
Nat	334673.6	84.8	mg/L	0.14	1700	mg/L	2.9	0.17%
Nit	-5.4	-0.00023	mg/L	0.000220	-0.00460	mg/L	0.004405	95.77%
Pbt	-20.3	-0.00391	mg/L	0.000315	-0.0782	mg/L	0.00629	8.05%
Vt	-280.6	0.00251	mg/L	0.000148	0.0501	mg/L	0.00296	5.91%
Znt	35.2	0.00069	mg/L	0.000107	0.0139	mg/L	0.00215	15.46%

Sequence No.: 35
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/27/2008 19:07:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	411403.9	88.9	%	0.50				0.56%
Yr	183986.0	91.3	%	0.36				0.40%
Agt	290576.6	0.992	mg/L	0.0010	0.992	mg/L	0.0010	0.10%
QC value within limits for Ag		Recovery = 99.22%						
Alt	21155.9	5.23	mg/L	0.024	5.23	mg/L	0.024	0.46%
QC value within limits for Al		Recovery = 104.66%						
B_t	87724.1	2.68	mg/L	0.006	2.68	mg/L	0.006	0.22%
QC value within limits for B_		Recovery = 107.16%						
Bat	409137.6	5.39	mg/L	0.007	5.39	mg/L	0.007	0.14%
QC value within limits for Ba		Recovery = 107.80%						
Bet	6916871.2	2.18	mg/L	0.020	2.18	mg/L	0.020	0.91%
QC value within limits for Be		Recovery = 108.84%						
Cat	307440.8	52.2	mg/L	0.06	52.2	mg/L	0.06	0.11%
QC value within limits for Ca		Recovery = 104.48%						
Cdt	59880.0	2.16	mg/L	0.003	2.16	mg/L	0.003	0.12%
QC value within limits for Cd		Recovery = 107.84%						
Cot	147493.3	5.38	mg/L	0.011	5.38	mg/L	0.011	0.21%
QC value within limits for Co		Recovery = 107.70%						
Crt	445870.5	5.38	mg/L	0.004	5.38	mg/L	0.004	0.08%
QC value within limits for Cr		Recovery = 107.62%						
Cut	2064416.6	5.36	mg/L	0.005	5.36	mg/L	0.005	0.10%
QC value within limits for Cu		Recovery = 107.23%						
Fet	3866.2	5.26	mg/L	0.032	5.26	mg/L	0.032	0.61%
QC value within limits for Fe		Recovery = 105.22%						
Kt	64703.9	51.0	mg/L	0.27	51.0	mg/L	0.27	0.53%
QC value within limits for K		Recovery = 102.09%						
Mgt	123189.8	52.2	mg/L	0.16	52.2	mg/L	0.16	0.30%
QC value within limits for Mg		Recovery = 104.39%						
Mnt	3193026.6	5.40	mg/L	0.000	5.40	mg/L	0.000	0.00%
QC value within limits for Mn		Recovery = 108.00%						
Mot	70226.7	5.31	mg/L	0.002	5.31	mg/L	0.002	0.04%
QC value within limits for Mo		Recovery = 106.19%						
Nat	203350.4	51.5	mg/L	0.18	51.5	mg/L	0.18	0.35%
QC value within limits for Na		Recovery = 103.09%						
Nit	127953.3	5.43	mg/L	0.006	5.43	mg/L	0.006	0.11%
QC value within limits for Ni		Recovery = 108.66%						
Pbt	28215.9	5.43	mg/L	0.005	5.43	mg/L	0.005	0.10%
QC value within limits for Pb		Recovery = 108.55%						
Vt	936555.3	5.30	mg/L	0.010	5.30	mg/L	0.010	0.19%
QC value within limits for V		Recovery = 105.94%						
Znt	278360.9	5.45	mg/L	0.010	5.45	mg/L	0.010	0.19%
QC value within limits for Zn		Recovery = 108.92%						

All analyte(s) passed QC.

Sequence No.: 36
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 19:10:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	445895.1	96.3	%	1.37				1.42%
Yr	194808.2	96.6	%	0.02				0.02%
Ag†	-78.6	-0.00027	mg/L	0.000072	-0.00027	mg/L	0.000072	26.87%
QC value within limits for Ag	Recovery = Not calculated							
Al†	0.0	0.00000	mg/L	0.004239	0.00000	mg/L	0.004239	>999.9%
QC value within limits for Al	Recovery = Not calculated							
B_†	904.7	0.0277	mg/L	0.00179	0.0277	mg/L	0.00179	6.45%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-0.6	-0.00001	mg/L	0.000065	-0.00001	mg/L	0.000065	797.78%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-161.0	-0.00005	mg/L	0.000015	-0.00005	mg/L	0.000015	29.85%
QC value within limits for Be	Recovery = Not calculated							
Ca†	27.5	0.00466	mg/L	0.000837	0.00466	mg/L	0.000837	17.94%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	7.0	0.00025	mg/L	0.000034	0.00025	mg/L	0.000034	13.70%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-0.6	-0.00002	mg/L	0.000110	-0.00002	mg/L	0.000110	519.84%
QC value within limits for Co	Recovery = Not calculated							
Cr†	7.7	0.00009	mg/L	0.000086	0.00009	mg/L	0.000086	92.81%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-13.5	-0.00004	mg/L	0.000003	-0.00004	mg/L	0.000003	8.89%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.6	0.00220	mg/L	0.004127	0.00220	mg/L	0.004127	187.99%
QC value within limits for Fe	Recovery = Not calculated							
K†	143.8	0.113	mg/L	0.0168	0.113	mg/L	0.0168	14.82%
QC value within limits for K	Recovery = Not calculated							
Mg†	3.7	0.00157	mg/L	0.000459	0.00157	mg/L	0.000459	29.14%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-1294.9	-0.00219	mg/L	0.000043	-0.00219	mg/L	0.000043	1.95%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	8.3	0.00063	mg/L	0.000008	0.00063	mg/L	0.000008	1.30%
QC value within limits for Mo	Recovery = Not calculated							
Na†	204.9	0.0519	mg/L	0.00936	0.0519	mg/L	0.00936	18.02%
QC value within limits for Na	Recovery = Not calculated							
Ni†	5.9	0.00025	mg/L	0.000058	0.00025	mg/L	0.000058	23.14%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-1.7	-0.00033	mg/L	0.000537	-0.00033	mg/L	0.000537	165.22%
QC value within limits for Pb	Recovery = Not calculated							
V†	21.8	0.00012	mg/L	0.000144	0.00012	mg/L	0.000144	116.97%
QC value within limits for V	Recovery = Not calculated							
Zn†	2.4	0.00005	mg/L	0.000030	0.00005	mg/L	0.000030	65.18%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 37
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 19:12:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	447248.9	96.6	%	0.33				0.35%
Yr	193518.5	96.0	%	0.35				0.36%
Ag†	-93.2	-0.00032	mg/L	0.000127	-0.00032	mg/L	0.000127	39.80%
QC value within limits for Ag	Recovery = Not calculated							
Al†	35.8	0.00886	mg/L	0.003251	0.00886	mg/L	0.003251	36.70%

QC value within limits for Al Recovery = Not calculated

B_†	639.5	0.0196 mg/L	0.00063	0.0196 mg/L	0.00063	3.19%

QC value within limits for B_ Recovery = Not calculated

Ba†	0.4	0.00001 mg/L	0.000084	0.00001 mg/L	0.000084	>999.9%

QC value within limits for Ba Recovery = Not calculated

Be†	-163.1	-0.00005 mg/L	0.000018	-0.00005 mg/L	0.000018	34.71%

QC value within limits for Be Recovery = Not calculated

Ca†	29.2	0.00497 mg/L	0.001068	0.00497 mg/L	0.001068	21.49%

QC value within limits for Ca Recovery = Not calculated

Cd†	4.5	0.00016 mg/L	0.000124	0.00016 mg/L	0.000124	78.14%

QC value within limits for Cd Recovery = Not calculated

Co†	-1.7	-0.00006 mg/L	0.000278	-0.00006 mg/L	0.000278	442.88%

QC value within limits for Co Recovery = Not calculated

Cr†	6.8	0.00008 mg/L	0.000106	0.00008 mg/L	0.000106	128.33%

QC value within limits for Cr Recovery = Not calculated

Cu†	19.0	0.00005 mg/L	0.000004	0.00005 mg/L	0.000004	8.48%

QC value within limits for Cu Recovery = Not calculated

Fe†	0.6	0.00082 mg/L	0.002758	0.00082 mg/L	0.002758	335.98%

QC value within limits for Fe Recovery = Not calculated

K†	86.0	0.0679 mg/L	0.00308	0.0679 mg/L	0.00308	4.54%

QC value within limits for K Recovery = Not calculated

Mg†	3.9	0.00165 mg/L	0.000785	0.00165 mg/L	0.000785	47.66%

QC value within limits for Mg Recovery = Not calculated

Mn†	-1322.7	-0.00224 mg/L	0.000018	-0.00224 mg/L	0.000018	0.81%

QC value within limits for Mn Recovery = Not calculated

Mo†	1.0	0.00008 mg/L	0.000452	0.00008 mg/L	0.000452	584.39%

QC value within limits for Mo Recovery = Not calculated

Na†	71.9	0.0182 mg/L	0.00608	0.0182 mg/L	0.00608	33.35%

QC value within limits for Na Recovery = Not calculated

Ni†	0.1	0.00000 mg/L	0.000213	0.00000 mg/L	0.000213	>999.9%

QC value within limits for Ni Recovery = Not calculated

Pb†	-8.7	-0.00167 mg/L	0.000973	-0.00167 mg/L	0.000973	58.22%

QC value within limits for Pb Recovery = Not calculated

V†	-17.6	-0.00010 mg/L	0.000127	-0.00010 mg/L	0.000127	129.38%

QC value within limits for V Recovery = Not calculated

Zn†	-1.2	-0.00002 mg/L	0.000133	-0.00002 mg/L	0.000133	555.52%

QC value within limits for Zn Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/27/2008 19:16:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	424207.6	91.6	%	0.98				1.07%
Yr	188520.7	93.5	%	0.42				0.45%
Agt	147829.1	0.505	mg/L	0.0065	0.505	mg/L	0.0065	1.29%
QC value within limits for Ag		Recovery = 100.95%						
Alt	10364.3	2.56	mg/L	0.002	2.56	mg/L	0.002	0.08%
QC value within limits for Al		Recovery = 102.55%						
B_t	41913.1	1.28	mg/L	0.018	1.28	mg/L	0.018	1.41%
QC value within limits for B_		Recovery = 102.39%						
Bat	202445.1	2.67	mg/L	0.006	2.67	mg/L	0.006	0.24%
QC value within limits for Ba		Recovery = 106.68%						
Bet	3401508.8	1.07	mg/L	0.002	1.07	mg/L	0.002	0.20%
QC value within limits for Be		Recovery = 107.05%						
Cat	151994.9	25.8	mg/L	0.06	25.8	mg/L	0.06	0.23%
QC value within limits for Ca		Recovery = 103.31%						
Cdt	28968.9	1.04	mg/L	0.014	1.04	mg/L	0.014	1.39%
QC value within limits for Cd		Recovery = 104.36%						
Cot	72311.4	2.64	mg/L	0.040	2.64	mg/L	0.040	1.50%
QC value within limits for Co		Recovery = 105.60%						
Crt	217444.1	2.62	mg/L	0.001	2.62	mg/L	0.001	0.02%
QC value within limits for Cr		Recovery = 104.97%						
Cut	1027008.0	2.67	mg/L	0.005	2.67	mg/L	0.005	0.20%
QC value within limits for Cu		Recovery = 106.69%						
Fet	1895.4	2.58	mg/L	0.008	2.58	mg/L	0.008	0.30%
QC value within limits for Fe		Recovery = 103.17%						
Kt	31530.6	24.9	mg/L	0.00	24.9	mg/L	0.00	0.01%
QC value within limits for K		Recovery = 99.49%						
Mgt	61268.8	26.0	mg/L	0.10	26.0	mg/L	0.10	0.38%
QC value within limits for Mg		Recovery = 103.84%						
Mnt	1602006.2	2.71	mg/L	0.008	2.71	mg/L	0.008	0.28%
QC value within limits for Mn		Recovery = 108.37%						
Mot	34129.6	2.58	mg/L	0.039	2.58	mg/L	0.039	1.53%
QC value within limits for Mo		Recovery = 103.22%						
Nat	99942.6	25.3	mg/L	0.03	25.3	mg/L	0.03	0.12%
QC value within limits for Na		Recovery = 101.34%						
Nit	62774.9	2.67	mg/L	0.038	2.67	mg/L	0.038	1.42%
QC value within limits for Ni		Recovery = 106.61%						
Pbt	13848.6	2.66	mg/L	0.041	2.66	mg/L	0.041	1.53%
QC value within limits for Pb		Recovery = 106.55%						
Vt	462750.8	2.62	mg/L	0.002	2.62	mg/L	0.002	0.09%
QC value within limits for V		Recovery = 104.69%						
Znt	135975.3	2.66	mg/L	0.038	2.66	mg/L	0.038	1.45%
QC value within limits for Zn		Recovery = 106.41%						

All analyte(s) passed QC.

Sample Information Detail Report
Document Name: 080227A

File Description
080227A

Parameters Common to All Samples

Batch ID	080227A
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Wt.
1	16	MRL/2	
2	18	FILTERCHECK	
3	38	MBLANK	
4	39	LCS	
5	40	LCSD	
6	41	2802270142	
7	42	2802270142MS	
8	43	2802270142MSD	
9	44	2802270143	
10	45	2802270182	
11	46	2802270191	
12	47	2802200187	
13	48	2802200579	
14	49	2802200590	
15	50	2802200593	
16	51	2802200601	
17	52	2802200616	
18	53	2802220457	
19	54	2802220457MS	
20	55	2802220457MSD	
21	56	2802250088	
22	57	2802260010	
23	58	2802260012	
24	59	2802260014	
25	60	2802260015	
26	61	2802260021	
27	62	2802260025	
28	63	2802220425_10X	
29	64	2802220430_20X	
30	65	MBLANK2007	
31	21	MRL	
32	66	MRL2007	
33	67	LCS2007	
34	68	LCSD2007	
35	69	2802150061_2X	
36	70	2802150061_2XMS	
37	71	2802150061_2XMSD	
38	72	2802150067_2X	
39	73	2802150067_2XMS	
40	74	2802150067_2XMSD	
41	75	2802150062_2X	
42	76	2802150064_2X	
43	77	2802150065_2X	
44	78	2802150070_2X	
45	79	2802150071_2X	
46	80	2802150072_2X	
47	81	2802150075_2X	
48	82	2802150076_2X	
49	83	2802150077_2X	
50	84	2802150078_2X	
51	85	2802150079_2X	
52	86	2802150080_2X	
53	87	2802150081_2X	
54	88	2802150082_2X	

55	89	2802150085_2X
56	90	2802150086_2X
57	91	2802150087_2X
58	92	2802150088_2X

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1		1	1
2		1	1
3		1	1
4		1	1
5		1	1
6		1	1
7		1	1
8		1	1
9		1	1
10		1	1
11		1	1
12		1	1
13		1	1
14		1	1
15		1	1
16		1	1
17		1	1
18		1	1
19		1	1
20		1	1
21		1	1
22		1	1
23		1	1
24		1	1
25		1	1
26		1	1
27		1	1
28		1	10
29		1	20
30		1	1
31		1	1
32		1	1
33		1	1
34		1	1
35		1	2
36		1	2
37		1	2
38		1	2
39		1	2
40		1	2
41		1	2
42		1	2
43		1	2
44		1	2
45		1	2
46		1	2
47		1	2
48		1	2
49		1	2
50		1	2
51		1	2
52		1	2
53		1	2
54		1	2
55		1	2
56		1	2
57		1	2
58		1	2

Fe†	1.2	0.00157 mg/L	0.002629	0.00157 mg/L	0.002629	167.85%
QC value within limits for Fe	Recovery = Not calculated					
K†	153.2	0.121 mg/L	0.0443	0.121 mg/L	0.0443	36.67%
QC value within limits for K	Recovery = Not calculated					
Mg†	-0.1	-0.00003 mg/L	0.000087	-0.00003 mg/L	0.000087	250.47%
QC value within limits for Mg	Recovery = Not calculated					
Mn†	-1345.5	-0.00228 mg/L	0.000022	-0.00228 mg/L	0.000022	0.96%
QC value within limits for Mn	Recovery = Not calculated					
Mo†	5.5	0.00042 mg/L	0.000127	0.00042 mg/L	0.000127	30.42%
QC value within limits for Mo	Recovery = Not calculated					
Na†	277.4	0.0703 mg/L	0.00828	0.0703 mg/L	0.00828	11.78%
QC value within limits for Na	Recovery = Not calculated					
Ni†	3.4	0.00014 mg/L	0.000036	0.00014 mg/L	0.000036	24.94%
QC value within limits for Ni	Recovery = Not calculated					
Pb†	-6.3	-0.00122 mg/L	0.000650	-0.00122 mg/L	0.000650	53.51%
QC value within limits for Pb	Recovery = Not calculated					
V†	20.2	0.00011 mg/L	0.000577	0.00011 mg/L	0.000577	508.26%
QC value within limits for V	Recovery = Not calculated					
Zn†	-0.2	-0.00001 mg/L	0.000099	-0.00001 mg/L	0.000099	>999.9%
QC value within limits for Zn	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/27/2008 19:28:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	413420.6	89.3	%	1.51				1.69%
Yr	185910.9	92.2	%	0.07				0.08%
Agt	284858.2	0.973	mg/L	0.0152	0.973	mg/L	0.0152	1.57%
QC value within limits for Ag		Recovery = 97.27%						
Alt	21013.8	5.20	mg/L	0.020	5.20	mg/L	0.020	0.39%
QC value within limits for Al		Recovery = 103.96%						
B_t	85361.9	2.61	mg/L	0.051	2.61	mg/L	0.051	1.96%
QC value within limits for B_		Recovery = 104.27%						
Bat	401742.9	5.29	mg/L	0.086	5.29	mg/L	0.086	1.62%
QC value within limits for Ba		Recovery = 105.85%						
Bet	6877970.1	2.16	mg/L	0.039	2.16	mg/L	0.039	1.81%
QC value within limits for Be		Recovery = 108.23%						
Cat	303356.2	51.5	mg/L	0.20	51.5	mg/L	0.20	0.38%
QC value within limits for Ca		Recovery = 103.09%						
Cdt	58836.1	2.12	mg/L	0.034	2.12	mg/L	0.034	1.61%
QC value within limits for Cd		Recovery = 105.96%						
Cot	144663.5	5.28	mg/L	0.084	5.28	mg/L	0.084	1.59%
QC value within limits for Co		Recovery = 105.63%						
Crt	436020.1	5.26	mg/L	0.091	5.26	mg/L	0.091	1.73%
QC value within limits for Cr		Recovery = 105.24%						
Cut	2069681.7	5.38	mg/L	0.002	5.38	mg/L	0.002	0.04%
QC value within limits for Cu		Recovery = 107.51%						
Fet	3817.1	5.19	mg/L	0.064	5.19	mg/L	0.064	1.23%
QC value within limits for Fe		Recovery = 103.88%						
Kt	64122.0	50.6	mg/L	0.24	50.6	mg/L	0.24	0.48%
QC value within limits for K		Recovery = 101.17%						
Mgt	121703.5	51.6	mg/L	0.18	51.6	mg/L	0.18	0.34%
QC value within limits for Mg		Recovery = 103.13%						
Mnt	3176513.4	5.37	mg/L	0.018	5.37	mg/L	0.018	0.34%
QC value within limits for Mn		Recovery = 107.44%						
Mot	68964.7	5.21	mg/L	0.097	5.21	mg/L	0.097	1.87%
QC value within limits for Mo		Recovery = 104.29%						
Nat	202407.9	51.3	mg/L	0.03	51.3	mg/L	0.03	0.06%
QC value within limits for Na		Recovery = 102.62%						
Nit	125102.3	5.31	mg/L	0.100	5.31	mg/L	0.100	1.88%
QC value within limits for Ni		Recovery = 106.23%						
Pbt	27598.3	5.31	mg/L	0.097	5.31	mg/L	0.097	1.83%
QC value within limits for Pb		Recovery = 106.17%						
Vt	933789.0	5.28	mg/L	0.016	5.28	mg/L	0.016	0.31%
QC value within limits for V		Recovery = 105.62%						
Znt	272520.6	5.33	mg/L	0.092	5.33	mg/L	0.092	1.73%
QC value within limits for Zn		Recovery = 106.64%						

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 19:32:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	443265.6	95.7	%	0.59				0.62%
Yr	196244.1	97.3	%	0.14				0.15%
Agt	-136.0	-0.00046	mg/L	0.000217	-0.00046	mg/L	0.000217	46.68%
QC value within limits for Ag		Recovery = Not calculated						
Alt	-5.2	-0.00128	mg/L	0.005883	-0.00128	mg/L	0.005883	460.98%
QC value within limits for Al		Recovery = Not calculated						
B_t	945.9	0.0290	mg/L	0.00112	0.0290	mg/L	0.00112	3.85%
QC value greater than the upper limit for B_		Recovery = Not calculated						
Bat	-0.7	-0.00001	mg/L	0.000036	-0.00001	mg/L	0.000036	383.16%
QC value within limits for Ba		Recovery = Not calculated						
Bet	-173.3	-0.00005	mg/L	0.000028	-0.00005	mg/L	0.000028	51.55%
QC value within limits for Be		Recovery = Not calculated						
Cat	20.2	0.00342	mg/L	0.000811	0.00342	mg/L	0.000811	23.68%
QC value within limits for Ca		Recovery = Not calculated						
Cdt	10.9	0.00039	mg/L	0.000092	0.00039	mg/L	0.000092	23.81%
QC value within limits for Cd		Recovery = Not calculated						
Cot	3.8	0.00014	mg/L	0.000055	0.00014	mg/L	0.000055	39.91%
QC value within limits for Co		Recovery = Not calculated						
Crt	5.2	0.00006	mg/L	0.000076	0.00006	mg/L	0.000076	119.94%
QC value within limits for Cr		Recovery = Not calculated						
Cut	14.3	0.00004	mg/L	0.000154	0.00004	mg/L	0.000154	413.85%
QC value within limits for Cu		Recovery = Not calculated						
Fet	-0.2	-0.00025	mg/L	0.000996	-0.00025	mg/L	0.000996	393.12%
QC value within limits for Fe		Recovery = Not calculated						
Kt	79.9	0.0630	mg/L	0.02741	0.0630	mg/L	0.02741	43.49%
QC value within limits for K		Recovery = Not calculated						
Mgt	1.5	0.00065	mg/L	0.000967	0.00065	mg/L	0.000967	148.09%
QC value within limits for Mg		Recovery = Not calculated						
Mnt	-1338.8	-0.00226	mg/L	0.000006	-0.00226	mg/L	0.000006	0.26%
QC value within limits for Mn		Recovery = Not calculated						
Mot	7.0	0.00053	mg/L	0.000144	0.00053	mg/L	0.000144	27.13%
QC value within limits for Mo		Recovery = Not calculated						
Nat	536.2	0.136	mg/L	0.0095	0.136	mg/L	0.0095	6.97%
QC value within limits for Na		Recovery = Not calculated						
Nit	0.1	0.00001	mg/L	0.000241	0.00001	mg/L	0.000241	>999.9%
QC value within limits for Ni		Recovery = Not calculated						
Pbt	-4.2	-0.00081	mg/L	0.000005	-0.00081	mg/L	0.000005	0.59%
QC value within limits for Pb		Recovery = Not calculated						
Vt	3.3	0.00002	mg/L	0.000082	0.00002	mg/L	0.000082	428.62%
QC value within limits for V		Recovery = Not calculated						
Znt	2.8	0.00005	mg/L	0.000060	0.00005	mg/L	0.000060	109.55%
QC value within limits for Zn		Recovery = Not calculated						

QC Failed. Retry.

Sequence No.: 43
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/27/2008 19:34:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	444845.8	96.1	%	0.38				0.39%
Yr	196557.8	97.5	%	0.48				0.49%
Agt	-263.0	-0.00090	mg/L	0.000047	-0.00090	mg/L	0.000047	5.24%
QC value within limits for Ag		Recovery = Not calculated						
Alt	30.1	0.00745	mg/L	0.000227	0.00745	mg/L	0.000227	3.05%

QC value within limits for Al Recovery = Not calculated
B_† 689.7 0.0211 mg/L 0.00061 0.0211 mg/L 0.00061 2.90%
QC value greater than the upper limit for B_ Recovery = Not calculated
Ba† 3.1 0.00004 mg/L 0.000033 0.00004 mg/L 0.000033 83.18%
QC value within limits for Ba Recovery = Not calculated
Be† -135.7 -0.00004 mg/L 0.000028 -0.00004 mg/L 0.000028 65.73%
QC value within limits for Be Recovery = Not calculated
Ca† 23.6 0.00401 mg/L 0.000172 0.00401 mg/L 0.000172 4.29%
QC value within limits for Ca Recovery = Not calculated
Cd† 8.2 0.00029 mg/L 0.000148 0.00029 mg/L 0.000148 50.66%
QC value within limits for Cd Recovery = Not calculated
Co† -5.6 -0.00020 mg/L 0.000359 -0.00020 mg/L 0.000359 177.27%
QC value within limits for Co Recovery = Not calculated
Cr† 1.4 0.00002 mg/L 0.000063 0.00002 mg/L 0.000063 379.61%
QC value within limits for Cr Recovery = Not calculated
Cu† 13.2 0.00003 mg/L 0.000022 0.00003 mg/L 0.000022 63.96%
QC value within limits for Cu Recovery = Not calculated
Fe† 1.6 0.00222 mg/L 0.000334 0.00222 mg/L 0.000334 15.07%
QC value within limits for Fe Recovery = Not calculated
K† 79.4 0.0626 mg/L 0.01204 0.0626 mg/L 0.01204 19.23%
QC value within limits for K Recovery = Not calculated
Mg† 0.7 0.00030 mg/L 0.001236 0.00030 mg/L 0.001236 418.95%
QC value within limits for Mg Recovery = Not calculated
Mn† -1338.5 -0.00226 mg/L 0.000002 -0.00226 mg/L 0.000002 0.08%
QC value within limits for Mn Recovery = Not calculated
Mo† 9.2 0.00070 mg/L 0.000126 0.00070 mg/L 0.000126 18.10%
QC value within limits for Mo Recovery = Not calculated
Na† 432.0 0.110 mg/L 0.0031 0.110 mg/L 0.0031 2.86%
QC value within limits for Na Recovery = Not calculated
Ni† 6.1 0.00026 mg/L 0.000501 0.00026 mg/L 0.000501 192.83%
QC value within limits for Ni Recovery = Not calculated
Pb† -6.8 -0.00130 mg/L 0.000106 -0.00130 mg/L 0.000106 8.15%
QC value within limits for Pb Recovery = Not calculated
V† 13.3 0.00008 mg/L 0.000044 0.00008 mg/L 0.000044 58.92%
QC value within limits for V Recovery = Not calculated
Zn† 0.6 0.00001 mg/L 0.000016 0.00001 mg/L 0.000016 151.35%
QC value within limits for Zn Recovery = Not calculated
QC Failed. Retry.

==========

Sequence No.: 44 **Autosampler Location: 0**
Sample ID: ECB **Date Collected: 2/27/2008 19:37:07**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	451374.4	97.5	%	0.23				0.24%
Yr	195020.3	96.7	%	0.49				0.51%
Ag†	-89.1	-0.00030	mg/L	0.000374	-0.00030	mg/L	0.000374	123.11%
QC value within limits for Ag		Recovery = Not calculated						
Al†	6.1	0.00150	mg/L	0.008621	0.00150	mg/L	0.008621	573.95%
QC value within limits for Al		Recovery = Not calculated						
B_†	554.6	0.0170	mg/L	0.00011	0.0170	mg/L	0.00011	0.67%
QC value within limits for B_		Recovery = Not calculated						
Ba†	3.3	0.00004	mg/L	0.000015	0.00004	mg/L	0.000015	34.17%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-164.1	-0.00005	mg/L	0.000014	-0.00005	mg/L	0.000014	26.17%
QC value within limits for Be		Recovery = Not calculated						
Ca†	29.1	0.00495	mg/L	0.001131	0.00495	mg/L	0.001131	22.87%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	3.3	0.00012	mg/L	0.000096	0.00012	mg/L	0.000096	81.16%
QC value within limits for Cd		Recovery = Not calculated						
Co†	4.0	0.00014	mg/L	0.000140	0.00014	mg/L	0.000140	97.22%
QC value within limits for Co		Recovery = Not calculated						
Cr†	3.4	0.00004	mg/L	0.000088	0.00004	mg/L	0.000088	215.30%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-128.0	-0.00033	mg/L	0.000032	-0.00033	mg/L	0.000032	9.59%
QC value within limits for Cu		Recovery = Not calculated						

Analytical Sequence
Method: 200.7&6010_070703

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	LINEARITY	QC Passed
5	10	ICSA	QC Passed
6	11	ICSAB	QC Failed
7	0	Wash	QC Passed
8	12	QC-25 1ppm	QC Passed
9	4	CCV	QC Passed
10	0	ICB	QC Passed
11	20	MRL	QC Failed
12	20	MRL	QC Failed
13	38	MBLANK2007	Analyzed
14	39	MRL2007	Analyzed
15	40	LCS2007	Analyzed
16	41	LCSD2007	Analyzed
17	42	2802200171	Analyzed
18	43	2802200171MS	Analyzed
19	44	2802200171MSD	Analyzed
20	45	2802220550	Analyzed
21	46	2802220550MS	Analyzed
22	47	2802220550MSD	Analyzed
23	4	CCV	QC Passed
24	0	CCB	QC Passed
25	48	2802200048	Analyzed
26	49	2802220412	Analyzed
27	50	2802200580	Analyzed
28	51	2802220424_5X	Analyzed
29	52	2802090004_2X	Analyzed
30	53	2802090005_2X	Analyzed
31	54	2802090006_2X	Analyzed
32	55	2802090007_20X	Analyzed
33	56	2802150089_5X	Analyzed
34	57	2802150090_2X	Analyzed
35	4	CCV	QC Passed
36	0	CCB	QC Failed
37	0	CCB	QC Passed
38	5	MCV	QC Passed
39	58	2802150092_2X	Analyzed
40	59	2802150095_5X	Analyzed
41	4	ECV	QC Passed
42	0	ECB	QC Failed
43	0	ECB	QC Failed
44	0	ECB	QC Passed

ICP SUMMARY SHEET

File ID: 080229
Date Started: 2/29/08
Analyst ID: WBH

SAMPLE ID

2802070595	(7:25)	LINEARITY	(8:04)	Wash	(8:15)
SOULTION CHE	(8:46)	2802070519_2	(8:56)	2802080261_2	(9:07)
2802080260_2	(9:26)	2802070518_2	(9:30)	2802080254_2	(9:34)
2802080259_2	(9:38)	2802080262_5	(9:43)	2802080263_5	(9:47)
2802080264_2	(9:51)	2802080265_1	(9:56)	2802080267_1	(10:00)
2802080271_2	(10:22)	2802080272_2	(10:27)	2802082273_2	(10:31)
2802080274_1	(10:35)	2802080277_1	(10:40)	2802080319_5	(10:44)
2802090001_1	(10:48)	2802090002_2	(10:53)	2802090003_2	(10:57)
2802070496_2	(11:25)	2802070497_2	(11:37)	2802070497DU	(11:45)
2802070485_5	(12:03)	2802070485_5	(12:16)	2802070486_2	(12:20)
2802070487_2	(12:24)	2802070488_2	(12:29)	2802070489_2	(12:33)
2802070490_2	(12:37)	2802070491_5	(12:42)	2802070492_2	(12:46)
2802070493_2	(12:51)	2802070494_2	(12:55)	2802070495_2	(13:10)
2802070498_5	(13:15)	2802070500_1	(13:19)	2802070501_1	(13:23)
2802070502_2	(13:28)	2802070503_1	(13:32)	2802070504_2	(13:36)
2802070512_5	(13:40)	2802070495_2	(14:08)	2802070498_5	(14:12)
2802070500_1	(14:16)	2802070501_1	(14:21)	2802070502_2	(14:25)
2802070503_1	(14:29)	2802070504_2	(14:34)	2802070512_5	(14:38)

COMMENT: "Cr 6/0"

Analyst: WBH

Approved By: _____

Peer Reviewed By: DTH 3/4/08

BATCH NUMBER for 080229

Test Parameter:

SCA SIO2_A YR AG AL AS B_ BA BE CA CD CO CR CU FE K MG MN MO

Batch ID: 2802070595

2802070595

Batch ID: 2802070519_2X

2802070519_2X	2802080261_2X	2802080260_2X
2802070518_2X	2802080254_2X	2802080259_2X
2802080262_5X	2802080263_5X	2802080264_2X
2802080265_10X	2802080267_10X	2802080271_2X
2802080272_2X	2802082273_2X	2802080274_10X
2802080277_10X	2802080319_5X	2802090001_10X
2802090002_2X	2802090003_2X	

Batch ID: 28020470496_2X

2802070496_2X	2802070497_2X	2802070485_5X
2802070485_5X	2802070486_2X	2802070487_2X
2802070488_2X	2802070489_2X	2802070490_2X
2802070491_5X	2802070492_2X	2802070493_2X
2802070494_2X	2802070495_2X	2802070498_5X
2802070500_10X	2802070501_10X	2802070502_2X
2802070503_10X	2802070504_2X	2802070512_5X
2802070495_2X	2802070498_5X	2802070500_10X
2802070501_10X	2802070502_2X	2802070503_10X
2802070504_2X	2802070512_5X	

EPA 200.7/6010B QC Check List

Analyst WBY Analysis Date 2/29/08 Reviewer/Date _____

Instrumnet PerKin Elmer Optima 4300DV

✓ All sample analyzed within 6 month holding time

✓ All sample raw concentraction below the high standard or linear range o marked for dilution
and rerun

Initial and closing QC
✓ ICV within +/- 5%
✓ Linearity check +/- 10%
✓ ICSAB +/- 20%
N/A QCS +/- 5%
✓ MRL +/- 50%

Middle, closing and batch QC
✓ FilterCheck < 1/2 MRL
✓ MBLANK < 1/2 MRL
✓ LCS +/-15%
✓ MS/MSD +/-/30%(200.7) +/- 25% (6010B)
✓ CCV/MCV/ECV +/- 10%
✓ ICB/CCB/ECB < 1/2 MRL
✓ CCB ran after the CCV

General QC
✓ RPD between MS/MSD is within +/-/20%
✓ RPD between LCS/LCSD is within +/- 20%
✓ Internal standards 60 TO 125%
✓ All pH of the samples are < 2

✓ No more than 20 samples per batch

✓ MS is run at frequency of 1 every 10 samples and MSD is run at frequency of 1 every 20 samples

N/A QIR needed for failed QC

✓ Special Det Code noted on the cover sheet Cr 6010.

✓ R value for multi point calibration is > 0.995

_____ Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 01/11/08

Int: WBY
Date: 2/29/08

Method 200.7/6010

File ID: 080229 CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	2/29/08	7:14	1	N/A	N/A		
ICB	2/29/08	7:16	1	N/A	N/A		
MRL	2/29/08	7:17	1	N/A	N/A		
MBLANK	2/29/08	7:19	1	N/A	N/A		
LCS	2/29/08	7:21	1	N/A	N/A		
LCSD	2/29/08	7:23	1	N/A	N/A		
2802070595	2/29/08	7:25	1	N/A	N/A		
2802070595MS	2/29/08	7:27	1	N/A	N/A		
2802070595MSD	2/29/08	7:29	1	N/A	N/A		
ECV	2/29/08	7:31	1	N/A	N/A		
ECB	2/29/08	7:33	1	N/A	N/A		
MRL	2/29/08	7:35	1	N/A	N/A		
ICV	2/29/08	8:00	1	9.9115	9.91	95-105	99.1%
LINEARITY	2/29/08	8:04	1	0.0020	.002		
ICSA	2/29/08	8:07	1	-0.0004	ND	80-120	
ICSAB	2/29/08	8:11	1	.24499	.245	80-120	97.9%
Wash	2/29/08	8:15	1	-0.0003	ND		
QC-25 1ppm	2/29/08	8:21	1	1.0238	1.0		
CCV	2/29/08	8:25	1	5.1487	5.15	90-110	102%
ICB	2/29/08	8:29	1	-0.0003	ND		
MRL	2/29/08	8:35	1	0.0100	.01	50-150	100%
MBLANK	2/29/08	8:39	1	-0.0001	ND		
MRL2007	2/29/08	8:42	1	0.0101	.0101		
SOULTION CHECK	2/29/08	8:46	1	.99813	1.0		
LCS	2/29/08	8:50	1	.98195	.982 ✓	85-115	98.1%
LCSD	2/29/08	8:53	1	.98755	.988 ✓	85-115	98.7%
2802070519_2X	2/29/08	8:56	2	-0.0001	ND ✓		
2802070519_2XMS	2/29/08	9:00	2	.99755	.998	[0.998] ~~49.8~~ Q	99.9
2802070519_2XMSD	2/29/08	9:04	2	.97297	.973	[0.973] ~~48.6~~ Q	97.3
2802070519_2XT	2/29/08	9:04	2		2.00	70 - 130	102
2802080261_2X	2/29/08	9:07	2	.30743	.310 ✓		
2802080261_2XMS	2/29/08	9:11	2	1.3228	1.32	[1.015] ~~50.7~~ Q	
CCV	2/29/08	9:15	1	5.2616	5.26	90-110	105%
CCB	2/29/08	9:19	1	-0.0000	ND		
2802080261_2XMSD	2/29/08	9:22	2	1.2682	1.27	[0.961] ~~48.0~~ Q	
2802080261_2XT	2/29/08	9:22	2		2.00	70 - 130	96.11
2802080260_2X	2/29/08	9:26	2	1.4386	1.4 ✓		
2802070518_2X	2/29/08	9:30	2	2.9282	2.9 ✓		
2802080254_2X	2/29/08	9:34	2	2.5153	2.5 ✓		
2802080259_2X	2/29/08	9:38	2	.10747	.110 ✓		
2802080262_5X	2/29/08	9:43	5	8.2014	8.2 ✓		
2802080263_5X	2/29/08	9:47	5	6.6355	6.6 ✓		
2802080264_2X	2/29/08	9:51	2	4.3717	4.4 ✓		
2802080265_10X	2/29/08	9:56	10	28.998	29 ✓		
2802080267_10X	2/29/08	10:00	10	35.304	35 ✓		
CCV	2/29/08	10:04	1	5.2611	5.26	90-110	105%

File ID: 080229 CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCB	2/29/08	10:13	1	0.0015	.0015		
MCV	2/29/08	10:19	1	2.6653	2.67	90-110	106%
2802080271_2X	2/29/08	10:22	2	.13586	.140		
2802080272_2X	2/29/08	10:27	2	2.8455	2.8		
2802082273_2X	2/29/08	10:31	2	2.7977	2.8		
2802080274_10X	2/29/08	10:35	10	33.187	33		
2802080277_10X	2/29/08	10:40	10	25.657	26		
2802080319_5X	2/29/08	10:44	5	0.0598	.060		
2802090001_10X	2/29/08	10:48	10	30.685	31		
2802090002_2X	2/29/08	10:53	2	2.7345	2.7		
2802090003_2X	2/29/08	10:57	2	4.4851	4.5		
MBLANK	2/29/08	11:02	1	0.0023	.0023		
CCV	2/29/08	11:05	1	5.3320	5.33	90-110	106%
CCB	2/29/08	11:09	1	0.0016	.0016		
MRL	2/29/08	11:12	1	0.0118	.0118	50-150	117%
MRL2007	2/29/08	11:16	1	0.0112	.0112		
LCS	2/29/08	11:19	1	.98253	.983	85-115	98.2%
LCSD	2/29/08	11:22	1	.98138	.981	85-115	98.1%
2802070496_2X	2/29/08	11:25	2	1.2183	1.2		
2802070496_2XMS	2/29/08	11:30	2	2.2171	2.22	[0.999] 49.9	Q
2802070496_2XMSD	2/29/08	11:33	2	2.1477	2.15	[2.148] 107%	
2802070496_2XT	2/29/08	11:33	2		2.00	70 - 130	
2802070497_2X	2/29/08	11:37	2	2.9145	2.9		
2802070497_2SMS	2/29/08	11:41	1	4.0058	4.01	[4.006] 400	Q
2802070497DUP_2X	2/29/08	11:45	2	3.8744	3.9		
CCV	2/29/08	11:51	1	5.4038	5.4	90-110	108%
CCB	2/29/08	11:54	1	0.0007	0.0007		
MCV	2/29/08	12:00	1	2.7522	2.75	90-110	110% Q
2802070485_5X	2/29/08	12:03	5	6.4800	6.5		
MCV	2/29/08	12:13	1	2.5850	2.59	90-110	103%
2802070485_5X	2/29/08	12:16	5	6.4659	6.5		
2802070486_2X	2/29/08	12:20	2	8.5395	8.5		
2802070487_2X	2/29/08	12:24	2	.33457	.330		
2802070488_2X	2/29/08	12:29	2	4.9611	5.0		
2802070489_2X	2/29/08	12:33	2	1.0767	1.1		
2802070490_2X	2/29/08	12:37	2	1.2814	1.3		
2802070491_5X	2/29/08	12:42	5	3.7685	3.8		
2802070492_2X	2/29/08	12:46	2	.36083	.360		
2802070493_2X	2/29/08	12:51	2	0.0460	.046		
2802070494_2X	2/29/08	12:55	2	.85933	.860		
CCV	2/29/08	13:03	1	5.2913	5.29	90-110	105%
CCB	2/29/08	13:07	1	0.0006	0.0005		
2802070495_2X	2/29/08	13:10	2	3.4718	3.5		
2802070498_5X	2/29/08	13:15	5	11.409	11		
2802070500_10X	2/29/08	13:19	10	21.881	22		
2802070501_10X	2/29/08	13:23	10	23.771	24		
2802070502_2X	2/29/08	13:28	2	.98218	.980		

File ID: 080229 CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2802070503_10X	2/29/08	13:32	10	27.057	27		
2802070504_2X	2/29/08	13:36	2	-418.23	ND		
2802070512_5X	2/29/08	13:40	5	-37788.	ND		
ECV	2/29/08	13:54	1	-657.53	ND	90-110	-1315% Q
CCV	2/29/08	14:01	1	5.1124	5.11	90-110	102%
CCB	2/29/08	14:04	1	0.0006	0.0005		
2802070495_2X	2/29/08	14:08	2	3.4994	3.5		
2802070498_5X	2/29/08	14:12	5	11.512	12		
2802070500_10X	2/29/08	14:16	10	22.026	22		
2802070501_10X	2/29/08	14:21	10	23.991	24		
2802070502_2X	2/29/08	14:25	2	.98262	.980		
2802070503_10X	2/29/08	14:29	10	26.624	27		
2802070504_2X	2/29/08	14:34	2	.96070	.960		
2802070512_5X	2/29/08	14:38	5	14.102	14		
ECV	2/29/08	14:47	1	5.2283	5.23	90-110	104%
ECB	2/29/08	14:50	1	0.0013	.0013		

Landscape Summary File ID: 080229 Date: 2/29/08 Analyst: WBH Page: 1

Sample ID	Time	SCA	SIO2 A	YR	AG	AL	AS	B	BA	BE	CA	CD
ICV	7:14	N/A	10.7(50)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICB	7:16	N/A	0.0026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:17	N/A	0.047(.2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MBLANK	7:19	N/A	0.0039	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCS	7:21	N/A	2.30(10)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCSD	7:23	N/A	2.30(10)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595	7:25	N/A	0.0488	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MS	7:27	N/A	2.388	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MSD	7:29	N/A	2.301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECV	7:31	N/A	5.63(25)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECB	7:33	N/A	0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:35	N/A	0.045(.2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICV	8:00	N/A	N/A	N/A	1.99/2	10.0/10	9.80/10	4.99	9.94/10	3.97/4	99.5/100	4.85/5
LINEARITY	8:04	N/A	N/A	N/A	-.032	-.014	-.019	0.020	0.002	-.000	292/300	0.000
ICSA	8:07	N/A	N/A	N/A	-.032	247/250	-.134	0.004	0.002	-.000	251/250	0.002
ICSAB	8:11	N/A	N/A	N/A	0.459	240/250	-.138	-.001	0.255/.25	0.245/.25	244/250	0.486/.5
Wash	8:15	N/A	N/A	N/A	-.0012	-.0038	-.0004	0.0064	0.0001	0.0001	0.0052	0.0001
QC-25 1ppm	8:21	N/A	N/A	N/A	0.4328	0.9992	0.9340	0.9265	1.054	0.9636	1.057	0.9581
CCV	8:25	N/A	N/A	N/A	0.959/1	5.02/5	4.82/5	2.55	5.16/5	2.09/2	51.2/50	1.98/2
ICB	8:29	N/A	N/A	N/A	-.0011	-.0020	0.0130	0.0187	0.0001	0.0001	0.0018	-.0000
MRL	8:35	N/A	N/A	N/A	0.009/.01	0.054/.05	0.094/.1	0.056	0.021/.02	0.001/.001	1.02/1	0.005/.005
MBLANK	8:39	N/A	N/A	N/A	-.0010	0.0077	0.0061	0.0050	0.0001	0.0001	0.0269	0.0001
MRL2007	8:42	N/A	N/A	N/A	0.009/.01	0.052/.05	0.097/.1	0.051	0.020/.02	0.001/.001	1.04/1	0.005/.005
SOULTION CHECK	8:46	N/A	N/A	N/A	N/A	1.871	N/A	0.4859	1.006	0.0519	50.85	0.2092
LCS	8:50	N/A	N/A	N/A	N/A	1.86/2	N/A	0.478	0.982/1	0.051/.05	49.4/50	0.205/.2
LCSD	8:53	N/A	N/A	N/A	N/A	1.85/2	N/A	0.483	0.996/1	0.051/.05	50.5/50	0.208/.2
2802070519_2X	8:56	N/A	N/A	N/A	N/A	0.0206	N/A	0.0099	0.0006	0.0003	0.1861	-.0001
2802070519_2XMS	9:00	N/A	N/A	N/A	N/A	1.922	N/A	0.4757	1.010	0.0519	51.93	0.2067
2802070519_2XMSD	9:04	N/A	N/A	N/A	N/A	1.867	N/A	0.4566	0.9627	0.0506	51.36	0.1970
2802080261_2X	9:07	N/A	N/A	N/A	N/A	-.0015	N/A	1.317	0.0218	-.0001	108.4	-.0000
2802080261_2XMS	9:11	N/A	N/A	N/A	N/A	1.900	N/A	1.804	1.057	0.0535	160.2	0.2155
CCV	9:15	N/A	N/A	N/A	N/A	4.89/5	N/A	2.54	5.26/5	2.14/2	52.0/50	2.08/2
CCB	9:19	N/A	N/A	N/A	N/A	0.0001	N/A	0.0118	0.0000	0.0001	0.0010	0.0004
2802080261_2XMSD	9:22	N/A	N/A	N/A	N/A	1.815	N/A	1.748	1.006	0.0517	155.8	0.2030
2802080260_2X	9:26	N/A	N/A	N/A	N/A	0.0159	N/A	3.050	0.0267	-.0004	211.1	0.0014
2802070518_2X	9:30	N/A	N/A	N/A	N/A	0.7502	N/A	5.090	0.0335	-.0006	236.5	0.0007
2802080254_2X	9:34	N/A	N/A	N/A	N/A	0.3176	N/A	3.125	0.0347	-.0009	421.4	-.0006
2802080259_2X	9:38	N/A	N/A	N/A	N/A	0.3861	N/A	0.7851	0.0307	-.0000	86.81	0.0001
2802080262_5X	9:43	N/A	N/A	N/A	N/A	0.2761	N/A	17.41	0.0346	-.0020	481.1	-.0007
2802080263_5X	9:47	N/A	N/A	N/A	N/A	0.0984	N/A	5.986	0.0442	-.0016	593.3	-.0009
2802080264_2X	9:51	N/A	N/A	N/A	N/A	1.165	N/A	6.275	0.0407	-.0012	582.3	0.0008
2802080265_10X	9:56	N/A	N/A	N/A	N/A	1.121	N/A	4.969	0.0581	-.0051	816.3	-.0037
2802080267_10X	10:00	N/A	N/A	N/A	N/A	6.214	N/A	4.273	0.0574	-.0052	917.5	-.0017
CCV	10:04	N/A	N/A	N/A	N/A	4.73/5	N/A	2.59	5.29/5	2.17/2	51.4/50	2.09/2
CCB	10:13	N/A	N/A	N/A	N/A	-.0084	N/A	0.0300	-.0001	0.0001	0.0022	0.0002
MCV	10:19	N/A	N/A	N/A	N/A	2.40/2.5	N/A	1.30	2.70/2.5	1.10(1)	26.4/25	1.05/1
2802080271_2X	10:22	N/A	N/A	N/A	N/A	0.6222	N/A	1.224	0.0228	0.0001	73.81	0.0016
2802080272_2X	10:27	N/A	N/A	N/A	N/A	0.0332	N/A	10.03	0.0128	-.0005	46.20	0.0062
2802082273_2X	10:31	N/A	N/A	N/A	N/A	0.0338	N/A	N/A	0.0126	N/A	46.12	0.0057

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Sample ID	Time	SCA	SIO2_A	YR	AG	AL	AS	B	BA	BE	CA	CD
2802080274_10X	10:35	N/A	N/A	N/A	N/A	0.0430	N/A	N/A	0.0508	N/A	947.2	-.0024
2802080277_10X	10:40	N/A	N/A	N/A	N/A	-.0083	N/A	N/A	0.0441	N/A	779.5	-.0053
2802080319_5X	10:44	N/A	N/A	N/A	N/A	0.0010	N/A	N/A	0.1287	N/A	%1177.9	-.0024
2802090001_10X	10:48	N/A	N/A	N/A	N/A	0.4667	N/A	N/A	0.0522	N/A	765.8	-.0045
2802090002_2X	10:53	N/A	N/A	N/A	N/A	1.164	N/A	N/A	0.0343	N/A	145.1	0.0014
2802090003_2X	10:57	N/A	N/A	N/A	N/A	0.1283	N/A	N/A	0.0365	N/A	87.57	0.0031
MBLANK	11:02	N/A	N/A	N/A	N/A	0.0110	N/A	N/A	-.0000	N/A	0.0379	-.0000
CCV	11:05	N/A	N/A	N/A	N/A	4.74/5	N/A	N/A	5.36/5	N/A	52.0/50	2.11/2
CCB	11:09	N/A	N/A	N/A	N/A	0.0011	N/A	N/A	-.0001	N/A	0.0022	0.0004
MRL	11:12	N/A	N/A	N/A	N/A	0.044/.05	N/A	N/A	0.021/.02	N/A	1.04/1	0.007/.005
MRL2007	11:16	N/A	N/A	N/A	N/A	0.034/.05	N/A	N/A	0.021/.02	N/A	1.06/1	0.007/.005
LCS	11:19	N/A	N/A	N/A	N/A	1.65(2)	N/A	N/A	0.999/1	N/A	47.8/50	0.206/.2
LCSD	11:22	N/A	N/A	N/A	N/A	1.72/2	N/A	N/A	0.998/1	N/A	48.2/50	0.206/.2
2802070496_2X	11:25	N/A	N/A	N/A	N/A	-.0017	N/A	N/A	0.0176	N/A	463.7	0.0016
2802070496_2XMS	11:30	N/A	N/A	N/A	N/A	1.778	N/A	N/A	1.050	N/A	508.3	0.2232
28020470496_2XMSD	11:33	N/A	N/A	N/A	N/A	1.663	N/A	N/A	1.027	N/A	487.9	0.2156
2802070497_2X	11:37	N/A	N/A	N/A	N/A	-.0239	N/A	N/A	0.0189	N/A	556.3	0.0012
2802070497_2SMS	11:41	N/A	N/A	N/A	N/A	1.780	N/A	N/A	1.088	N/A	607.0	0.2303
2802070497DUP_2X	11:45	N/A	N/A	N/A	N/A	1.748	N/A	N/A	1.046	N/A	550.7	0.2217
CCV	11:51	N/A	N/A	N/A	N/A	4.64/5	N/A	N/A	5.44/5	N/A	52.0/50	2.14/2
CCB	11:54	N/A	N/A	N/A	N/A	-.0077	N/A	N/A	-.0001	N/A	0.0030	0.0005
MCV	12:00	N/A	N/A	N/A	N/A	2.39/2.5	N/A	N/A	2.79(2.5)	N/A	26.6/25	1.08/1
2802070485_5X	12:03	N/A	N/A	N/A	N/A	0.0065	N/A	N/A	0.0170	N/A	273.3	-.0001
MCV	12:13	N/A	N/A	N/A	N/A	2.16(2.5)	N/A	N/A	2.62/2.5	N/A	25.0/25	1.02/1
2802070485_5X	12:16	N/A	N/A	N/A	N/A	0.0171	N/A	N/A	0.0176	N/A	278.6	0.0001
2802070486_2X	12:20	N/A	N/A	N/A	N/A	0.0186	N/A	N/A	0.0376	N/A	298.9	0.0009
2802070487_2X	12:24	N/A	N/A	N/A	N/A	-.0155	N/A	N/A	0.0277	N/A	216.3	0.0023
2802070488_2X	12:29	N/A	N/A	N/A	N/A	0.1315	N/A	N/A	0.0214	N/A	617.9	0.0104
2802070489_2X	12:33	N/A	N/A	N/A	N/A	0.0952	N/A	N/A	0.0167	N/A	472.8	0.0015
2802070490_2X	12:37	N/A	N/A	N/A	N/A	-.0066	N/A	N/A	0.0148	N/A	517.2	0.0014
2802070491_5X	12:42	N/A	N/A	N/A	N/A	-.0021	N/A	N/A	0.0137	N/A	367.2	-.0015
2802070492_2X	12:46	N/A	N/A	N/A	N/A	1.348	N/A	N/A	0.1470	N/A	413.6	0.0495
2802070493_2X	12:51	N/A	N/A	N/A	N/A	0.0105	N/A	N/A	0.0474	N/A	234.2	0.0133
2802070494_2X	12:55	N/A	N/A	N/A	N/A	1.764	N/A	N/A	0.0201	N/A	351.5	0.0015
CCV	13:03	N/A	N/A	N/A	N/A	4.43(5)	N/A	N/A	5.35/5	N/A	50.8/50	2.10/2
CCB	13:07	N/A	N/A	N/A	N/A	-.0062	N/A	N/A	-.0000	N/A	0.0052	0.0005
2802070495_2X	13:10	N/A	N/A	N/A	N/A	2.382	N/A	N/A	0.0325	N/A	367.7	0.0039
2802070498_5X	13:15	N/A	N/A	N/A	N/A	-.0262	N/A	N/A	0.0325	N/A	669.7	-.0007
2802070500_10X	13:19	N/A	N/A	N/A	N/A	0.0269	N/A	N/A	0.0514	N/A	709.9	-.0046
2802070501_10X	13:23	N/A	N/A	N/A	N/A	0.0176	N/A	N/A	0.0611	N/A	856.0	-.0033
2802070502_2X	13:28	N/A	N/A	N/A	N/A	0.0371	N/A	N/A	0.0410	N/A	417.3	0.0016
2802070503_10X	13:32	N/A	N/A	N/A	N/A	-.0419	N/A	N/A	0.0586	N/A	882.0	-.0028
2802070504_2X	13:36	N/A	N/A	N/A	N/A	%-.2126E+00	N/A	N/A	%-8.6741	N/A	%-.2729E+08	%-2.8196
2802070512_5X	13:40	N/A	N/A	N/A	N/A	%1400.2	N/A	N/A	%-57.6296	N/A	%174377.9	%-56.9125
ECV	13:54	N/A	N/A	N/A	N/A	%16416(5)	N/A	N/A	N/A	N/A	%183467(50)	N/A
CCV	14:01	N/A	N/A	N/A	N/A	4.26(5)	N/A	N/A	5.21/5	N/A	48.8/50	2.04/2
CCB	14:04	N/A	N/A	N/A	N/A	-.0108	N/A	N/A	0.0001	N/A	0.0039	0.0006
2802070495_2X	14:08	N/A	N/A	N/A	N/A	2.283	N/A	N/A	0.0335	N/A	372.6	0.0048
2802070498_5X	14:12	N/A	N/A	N/A	N/A	-.0593	N/A	N/A	0.0331	N/A	674.3	0.0003
2802070500_10X	14:16	N/A	N/A	N/A	N/A	-.0493	N/A	N/A	0.0508	N/A	711.6	-.0024

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Sample ID	Time	SCA	SIO2 A	YR	AG	AL	AS	B	BA	BE	CA	CD
2802070501_10X	14:21	N/A	N/A	N/A	N/A	0.0141	N/A	N/A	0.0622	N/A	873.2	-.0035
2802070502_2X	14:25	N/A	N/A	N/A	N/A	0.0460	N/A	N/A	0.0417	N/A	419.8	0.0017
2802070503_10X	14:29	N/A	N/A	N/A	N/A	-.0142	N/A	N/A	0.0571	N/A	884.1	-.0036
2802070504_2X	14:34	N/A	N/A	N/A	N/A	0.2006	N/A	N/A	0.0209	N/A	324.8	0.0039
2802070512_5X	14:38	N/A	N/A	N/A	N/A	0.3891	N/A	N/A	0.0238	N/A	57.91	0.0147
ECV	14:47	N/A	N/A	N/A	N/A	4.10(5)	N/A	N/A	5.33/5	N/A	48.9/50	2.09/2
ECB	14:50	N/A	N/A	N/A	N/A	-.0037	N/A	N/A	0.0001	N/A	0.0059	0.0009

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Sample ID	Time	CO	CR	CU	FE	K	MG	MN	MO	NA	NI	PB
ICV	7:14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICB	7:16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MBLANK	7:19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCS	7:21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCSD	7:23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595	7:25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MS	7:27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MSD	7:29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECV	7:31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECB	7:33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICV	8:00	9.94	9.91/10	9.96/10	9.86/10	99.9/100	99.8/100	9.94/10	9.93/10	100/100	9.95/10	9.86/10
LINEARITY	8:04	0.002	0.002	-.014	97.6	314	187	0.001	0.001	301/300	-.000	-.003
ICSA	8:07	0.001	-.000	-.015	97.0/100	0.283	234/250	0.002	0.001	0.137	-.001	-.037
ICSAB	8:11	0.235/.25	0.245/.25	0.241/.25	97.0/100	0.132	234/250	0.254/.25	0.001	0.057	0.461/.5	0.449/.5
Wash	8:15	0.0002	-.0003	-.0007	0.0119	0.0797	0.0058	-.0019	0.0005	0.0292	-.0002	0.0011
QC-25 1ppm	8:21	1.053	1.024	0.9944	1.042	9.643	1.075	1.054	0.9786	1.053	1.074	1.054
CCV	8:25	5.19	5.15/5	5.16/5	5.19/5	48.9/50	50.9/50	5.21/5	5.10/5	49.8/50	5.23/5	5.13/5
ICB	8:29	0.0002	-.0003	-.0005	0.0096	0.1012	0.0031	-.0014	0.0009	0.0228	0.0002	0.0022
MRL	8:35	0.052/.05	0.010/.01	0.009/.01	0.021/.02	1.02/1	0.108/.1	0.001(.002)	0.020/.02	1.02/1	0.021/.02	0.023/.02
MBLANK	8:39	0.0000	-.0001	-.0009	0.0089	0.0651	0.0032	-.0018	0.0008	0.0256	-.0001	0.0011
MRL2	8:42	0.053/.05	0.010/.01	0.009/.01	0.026/.02	1.02/1	0.104/.1	0.000(.002)	0.020/.02	1.02/1	0.021/.02	0.021/.02
SOLUTION CHECK	8:46	1.023	0.9981	0.9816	5.007	23.65	19.99	N/A	0.9936	48.71	0.5163	1.029
LCS	8:50	0.999/1	0.982/1	0.979/1	4.97/5	18.6/20	19.6/20	N/A	0.966/1	47.3/50	0.505/.5	1.00/1
LCSD	8:53	1.01/1	0.988/1	0.984/1	4.96/5	18.9/20	20.0/20	N/A	0.981/1	48.1/50	0.510/.5	1.02/1
2802070519_2X	8:56	0.0002	-.0001	-.0012	0.0356	0.1151	0.0706	N/A	0.0016	0.2655	-.0000	0.0001
2802070519_2XMS	9:00	1.024	0.9976	0.9885	5.205	20.00	21.26	N/A	0.9860	49.06	0.5159	1.025
2802070519_2XMSD	9:04	0.9755	0.9730	0.9661	5.083	19.62	20.93	N/A	0.9418	48.53	0.4925	0.9813
2802080261_2X	9:07	-.0006	0.3074	0.0002	0.0329	5.872	33.48	N/A	0.0129	206.7	0.0001	-.0048
2802080261_2XMS	9:11	1.041	1.323	1.024	5.205	25.66	54.30	N/A	1.022	252.8	0.5189	1.022
CCV	9:15	5.26	5.26/5	5.10/5	5.22/5	48.2/50	51.0/50	N/A	5.18/5	49.2/50	5.32/5	5.35/5
CCB	9:19	0.0000	-.0000	-.0007	0.0043	0.0585	0.0021	N/A	0.0011	0.0214	-.0002	0.0007
2802080261_2XMSD	9:22	0.9932	1.268	0.9875	4.990	24.84	52.87	N/A	0.9792	247.5	0.4957	0.9890
2802080260_2X	9:26	0.0005	1.439	-.0030	29.29	13.23	111.7	N/A	0.0107	550.3	-.0010	-.0088
2802070518_2X	9:30	-.0003	2.928	0.0026	0.3764	14.65	131.4	N/A	0.0180	508.7	0.0021	-.0113
2802080254_2X	9:34	-.0003	2.515	0.0010	0.1596	16.04	173.2	N/A	0.0124	563.3	0.0005	-.0165
2802080259_2X	9:38	-.0004	0.1075	0.0004	0.2258	6.446	37.37	N/A	0.0100	186.8	-.0000	-.0081
2802080262_5X	9:43	-.0021	8.201	0.0001	0.0825	27.48	242.7	N/A	0.0203	%1534.2	-.0016	-.0354
2802080263_5X	9:47	0.0002	6.636	-.0015	0.0502	24.44	266.4	N/A	0.0230	%1032.3	-.0009	-.0297
2802080264_2X	9:51	-.0000	4.372	0.0053	0.3993	33.17	281.0	N/A	0.0426	%1103.9	0.0022	-.0171
2802080265_10X	9:56	0.0001	29.00	0.0009	0.8189	42.42	431.8	N/A	0.0235	%2236.9	0.0008	-.0472
2802080267_10X	10:00	0.0013	35.30	-.0005	0.4895	35.69	471.6	N/A	0.0130	%2474.7	0.0032	-.0404
CCV	10:04	5.27	5.26/5	5.18/5	5.16/5	46.8/50	50.1/50	N/A	5.22/5	48.4/50	5.36/5	5.38/5
CCB	10:13	0.0002	0.0015	-.0009	0.0012	0.0420	0.0010	N/A	0.0006	0.1203	0.0002	-.0003
MCV	10:19	2.69	2.67/2.5	2.63/2.5	2.63/2.5	23.8/25	25.9/25	N/A	2.64/2.5	24.8/25	2.73/2.5	2.75(2.5)
2802080271_2X	10:22	0.0005	0.1359	0.0009	0.2877	5.305	26.17	N/A	0.0132	187.1	0.0011	-.0060
2802080272_2X	10:27	0.0002	2.846	0.0006	2.045	18.41	35.78	N/A	0.0259	866.0	0.0005	-.0092
2802082273_2X	10:31	0.0004	2.798	-.0005	1.964	18.36	35.81	N/A	0.0261	841.9	0.0001	N/A

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Sample ID	Time	CO	CR	CU	FE	K	MG	MN	MO	NA	NI	PB
2802080274_10X	10:35	0.0018	33.19	-.0025	0.0250	39.60	459.4	N/A	0.0276	%2297.9	-.0009	N/A
2802080277_10X	10:40	0.0014	25.66	-.0036	-.0120	37.27	398.7	N/A	0.0280	%1959.0	-.0019	N/A
2802080319_5X	10:44	0.0153	0.0598	0.0138	0.7283	119.6	899.1	N/A	0.5839	%6826.0	0.0612	N/A
2802090001_10X	10:48	-.0022	30.69	-.0004	0.2415	35.78	377.1	N/A	0.0340	%2326.6	-.0015	N/A
2802090002_2X	10:53	0.0006	2.735	0.0028	0.4464	16.70	90.13	N/A	0.0233	992.9	0.0031	N/A
2802090003_2X	10:57	0.0001	4.485	0.0007	0.1037	34.20	61.82	N/A	0.0304	%1156.6	0.0002	N/A
MBLANK	11:02	0.0001	0.0023	-.0007	0.0073	0.2380	0.0032	N/A	0.0004	1.009	0.0002	N/A
CCV	11:05	5.33	5.33/5	5.17/5	5.07/5	46.8/50	50.7/50	N/A	5.30/5	49.0/50	5.42/5	N/A
CCB	11:09	0.0001	0.0016	-.0006	0.0033	0.1917	0.0017	N/A	0.0012	0.2370	0.0001	N/A
MRL	11:12	0.053/.05	0.012/.01	0.010/.01	0.022/.02	1.04/1	0.107/.1	N/A	0.021/.02	1.18/1	0.022/.02	N/A
MRL2007	11:16	0.054/.05	0.011/.01	0.010/.01	0.024/.02	1.02/1	0.108/.1	N/A	0.021/.02	1.19/1	0.022/.02	N/A
LCS	11:19	0.999/1	0.983/1	0.987/1	4.66/5	17.2/20	18.6/20	N/A	0.986/1	44.9/50	0.509/.5	N/A
LCSD	11:22	0.998/1	0.981/1	0.987/1	4.85/5	17.4/20	19.3/20	N/A	0.986/1	45.5/50	0.508/.5	N/A
2802070496_2X	11:25	0.0002	1.218	0.0024	-.0093	19.36	251.9	N/A	0.0654	842.3	-.0001	N/A
2802070496_2XMS	11:30	1.021	2.217	1.075	5.071	39.03	268.5	N/A	1.084	882.0	0.5098	N/A
28020470496_2XMSD	11:33	0.9920	2.148	1.036	4.757	37.19	256.5	N/A	1.058	844.1	0.4967	N/A
2802070497_2X	11:37	0.0003	2.915	0.0006	-.0088	18.41	294.6	N/A	0.0299	780.5	0.0026	N/A
2802070497_2SMS	11:41	1.041	4.006	1.088	4.995	37.47	314.3	N/A	1.086	832.1	0.5212	N/A
2802070497DUP_2X	11:45	1.011	3.874	1.048	4.945	18.30	293.6	N/A	1.053	778.0	0.5039	N/A
CCV	11:51	5.39	5.40/5	5.34/5	5.13/5	46.1/50	50.4/50	N/A	5.39/5	48.6/50	5.49/5	N/A
CCB	11:54	0.0002	0.0007	-.0004	0.0036	0.2500	-.0004	N/A	0.0014	0.1652	0.0005	N/A
MCV	12:00	2.77	2.75(2.5)	2.73/2.5	2.68/2.5	23.5/25	26.0/25	N/A	2.75/2.5	24.9/25	2.83(2.5)	N/A
2802070485_5X	12:03	0.0007	6.480	0.0004	0.0218	15.76	133.5	N/A	0.0093	612.2	0.0006	N/A
MCV	12:13	2.59	2.59/2.5	2.55/2.5	2.46/2.5	21.8(25)	24.3/25	N/A	2.57/2.5	23.2/25	2.66/2.5	N/A
2802070485_5X	12:16	0.0012	6.466	0.0009	0.0214	16.08	134.2	N/A	0.0116	626.1	0.0012	N/A
2802070486_2X	12:20	0.0010	8.540	0.0019	0.0200	67.06	176.2	N/A	0.0434	%1089.2	0.0053	N/A
2802070487_2X	12:24	0.0063	0.3346	0.0020	0.0205	8.359	102.4	N/A	0.1303	826.9	0.0044	N/A
2802070488_2X	12:29	0.0004	4.961	0.0017	0.0778	24.46	373.7	N/A	0.0171	808.5	0.0021	N/A
2802070489_2X	12:33	-.0005	1.077	0.0011	0.0453	20.90	260.6	N/A	0.0867	956.4	0.0006	N/A
2802070490_2X	12:37	0.0001	1.281	0.0009	0.0005	16.49	246.0	N/A	0.0391	740.4	0.0010	N/A
2802070491_5X	12:42	-.0009	3.769	-.0017	-.0067	14.26	236.0	N/A	0.0157	502.3	0.0010	N/A
2802070492_2X	12:46	-.0007	0.3608	0.0032	0.4672	22.59	202.6	N/A	0.0616	465.5	0.0007	N/A
2802070493_2X	12:51	-.0003	0.0460	0.0017	-.0008	17.17	116.1	N/A	0.0815	380.8	0.0019	N/A
2802070494_2X	12:55	0.0009	0.8593	0.0025	0.5763	20.87	236.2	N/A	0.0850	%1134.3	0.0036	N/A
CCV	13:03	5.29	5.29/5	5.26/5	4.99/5	44.7(50)	48.9/50	N/A	5.29/5	47.6/50	5.40/5	N/A
CCB	13:07	0.0001	0.0006	-.0004	0.0041	0.2434	0.0043	N/A	0.0011	0.1837	0.0002	N/A
2802070495_2X	13:10	0.0015	3.472	0.0076	0.6545	16.30	210.1	N/A	0.0114	480.9	0.0040	N/A
2802070498_5X	13:15	0.0008	11.41	-.0004	0.0025	35.49	414.9	N/A	0.0290	%1168.2	0.0040	N/A
2802070500_10X	13:19	0.0031	21.88	-.0017	0.0113	67.11	414.2	N/A	0.0454	%1812.2	0.0076	N/A
2802070501_10X	13:23	0.0023	23.77	-.0005	-.0508	59.41	452.1	N/A	0.0293	%1758.7	0.0072	N/A
2802070502_2X	13:28	-.0006	0.9822	0.0019	0.7069	38.24	190.8	N/A	0.0289	758.5	0.0009	N/A
2802070503_10X	13:32	0.0015	27.06	0.0007	0.0179	36.49	429.7	N/A	0.0233	%2043.1	0.0003	N/A
2802070504_2X	13:36	2.145	%-418.2338	%-5.0563	%-.1789E+01	%-.1862E+07	%-.1652E+08	N/A	%-58.6206	%-.1119E+09	-.3039	N/A
2802070512_5X	13:40	16.11	%-.3779E+01	%-81.0597	%1399.2	%133687.2	%60442.6	N/A	%-117.3751	%6541986.0	10.81	N/A
ECV	13:54	N/A	N/A	N/A	%18361(5)	%165252(50)	%178313(50)	N/A	N/A	%174487(50)	N/A	N/A
CCV	14:01	5.12	5.11/5	5.17/5	4.82/5	43.3(50)	46.9/50	N/A	5.15/5	46.2/50	5.23/5	N/A
CCB	14:04	0.0001	0.0006	-.0002	0.0037	N/A	N/A	N/A	0.0016	N/A	0.0007	N/A
2802070495_2X	14:08	0.0018	3.499	0.0086	0.6599	N/A	N/A	N/A	0.0103	N/A	0.0039	N/A
2802070498_5X	14:12	-.0002	11.51	0.0022	0.0078	N/A	N/A	N/A	0.0308	N/A	0.0044	N/A
2802070500_10X	14:16	0.0037	22.03	0.0001	0.0124	N/A	N/A	N/A	0.0385	N/A	0.0064	N/A

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Sample ID	Time	CO	CR	CU	FE	K	MG	MN	MO	NA	NI	PB
2802070501_10X	14:21	-.0000	23.99	-.0002	0.0347	N/A	N/A	N/A	0.0301	N/A	0.0064	N/A
2802070502_2X	14:25	0.0001	0.9826	0.0026	0.6957	N/A	N/A	N/A	0.0301	N/A	0.0014	N/A
2802070503_10X	14:29	0.0030	26.62	0.0015	-.0140	N/A	N/A	N/A	0.0188	N/A	0.0020	N/A
2802070504_2X	14:34	-.0001	0.9607	0.0023	0.2398	N/A	N/A	N/A	0.1311	N/A	0.0049	N/A
2802070512_5X	14:38	0.0067	14.10	0.0067	0.5204	N/A	N/A	N/A	0.0366	N/A	0.0048	N/A
ECV	14:47	5.27	5.23/5	5.41/5	4.96/5	N/A	N/A	N/A	5.28/5	N/A	5.40/5	N/A
ECB	14:50	0.0004	0.0013	-.0001	0.0026	N/A	N/A	N/A	0.0024	N/A	0.0009	N/A

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Sample ID	Time	SB	SE	TL	V	ZN	ALX	BEX
ICV	7:14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICB	7:16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MBLANK	7:19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCS	7:21	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCSD	7:23	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595	7:25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MS	7:27	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2802070595MSD	7:29	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECV	7:31	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECB	7:33	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MRL	7:35	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ICV	8:00	9.67/10	9.85/10	9.91/10	10.0/10	9.88/10	9.98/10	3.97/4
LINEARITY	8:04	0.012	-.061	0.018	-.004	0.023	-.002	-.000
ICSA	8:07	0.013	-.067	0.010	-.005	0.019	N/A	-.000
ICSAB	8:11	0.011	-.080	0.005	0.241/.25	0.528/.5	N/A	0.245/.25
Wash	8:15	0.0006	-.0035	-.0018	0.0001	-.0001	-.0010	0.0001
QC-25 1ppm	8:21	0.9280	0.9219	1.064	0.9922	1.026	0.9507	0.9636
CCV	8:25	4.81/5	5.01/5	5.28/5	5.12/5	5.21/5	5.02/5	2.09/2
ICB	8:29	0.0076	-.0057	-.0010	-.0002	0.0003	-.0014	0.0001
MRL	8:35	0.045/.05	0.099/.1	0.109/.1	0.002/.002	0.020/.02	0.042/.05	0.001/.001
MBLANK	8:39	0.0018	-.0020	-.0007	0.0003	0.0025	-.0001	0.0001
MRL2007	8:42	0.040/.05	0.095/.1	0.110/.1	0.002/.002	0.023/.02	0.044/.05	0.001/.001
SOULTION CHECK	8:46	N/A	N/A	N/A	0.9889	1.037	N/A	N/A
LCS	8:50	N/A	N/A	N/A	0.976/1	1.02/1	N/A	N/A
LCSD	8:53	N/A	N/A	N/A	0.983/1	1.04/1	N/A	N/A
2802070519_2X	8:56	N/A	N/A	N/A	0.0004	0.0058	N/A	N/A
2802070519_2XMS	9:00	N/A	N/A	N/A	0.9859	1.034	N/A	N/A
2802070519_2XMSD	9:04	N/A	N/A	N/A	0.9628	0.9892	N/A	N/A
2802080261_2X	9:07	N/A	N/A	N/A	0.0465	0.0135	N/A	N/A
2802080261_2XMS	9:11	N/A	N/A	N/A	1.059	1.079	N/A	N/A
CCV	9:15	N/A	N/A	N/A	5.15/5	5.31/5	N/A	N/A
CCB	9:19	N/A	N/A	N/A	0.0001	0.0001	N/A	N/A
2802080261_2XMSD	9:22	N/A	N/A	N/A	1.026	1.036	N/A	N/A
2802080260_2X	9:26	N/A	N/A	N/A	0.0362	0.0203	N/A	N/A
2802070518_2X	9:30	N/A	N/A	N/A	0.0402	0.0183	N/A	N/A
2802080254_2X	9:34	N/A	N/A	N/A	0.0551	0.0159	N/A	N/A
2802080259_2X	9:38	N/A	N/A	N/A	0.0418	0.0078	N/A	N/A
2802080262_5X	9:43	N/A	N/A	N/A	0.0426	0.0082	N/A	N/A
2802080263_5X	9:47	N/A	N/A	N/A	0.0564	0.0088	N/A	N/A
2802080264_2X	9:51	N/A	N/A	N/A	0.0396	0.0251	N/A	N/A
2802080265_10X	9:56	N/A	N/A	N/A	0.0542	0.0333	N/A	N/A
2802080267_10X	10:00	N/A	N/A	N/A	0.0431	0.0457	N/A	N/A
CCV	10:04	N/A	N/A	N/A	5.21/5	5.34/5	N/A	N/A
CCB	10:13	N/A	N/A	N/A	0.0000	-.0000	N/A	N/A
MCV	10:19	N/A	N/A	N/A	2.62/2.5	2.71/2.5	N/A	N/A
2802080271_2X	10:22	N/A	N/A	N/A	0.0726	0.0146	N/A	N/A
2802080272_2X	10:27	N/A	N/A	N/A	0.1473	0.0264	N/A	N/A
2802082273_2X	10:31	N/A	N/A	N/A	0.1445	0.0137	N/A	N/A

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Sample ID	Time	SB	SE	TL	V	ZN	ALX	BEX
2802080274_10X	10:35	N/A	N/A	N/A	0.0596	0.0233	N/A	N/A
2802080277_10X	10:40	N/A	N/A	N/A	0.0528	0.0175	N/A	N/A
2802080319_5X	10:44	N/A	N/A	N/A	0.0409	0.0604	N/A	N/A
2802090001_10X	10:48	N/A	N/A	N/A	0.0504	0.0261	N/A	N/A
2802090002_2X	10:53	N/A	N/A	N/A	0.0344	0.0133	N/A	N/A
2802090003_2X	10:57	N/A	N/A	N/A	0.0486	0.0058	N/A	N/A
MBLANK	11:02	N/A	N/A	N/A	-.0002	0.0043	N/A	N/A
CCV	11:05	N/A	N/A	N/A	5.20/5	5.39/5	N/A	N/A
CCB	11:09	N/A	N/A	N/A	0.0001	0.0001	N/A	N/A
MRL	11:12	N/A	N/A	N/A	0.002/.002	0.022/.02	N/A	N/A
MRL2007	11:16	N/A	N/A	N/A	0.002/.002	0.024/.02	N/A	N/A
LCS	11:19	N/A	N/A	N/A	0.979/1	1.03/1	N/A	N/A
LCSD	11:22	N/A	N/A	N/A	0.978/1	1.03/1	N/A	N/A
2802070496_2X	11:25	N/A	N/A	N/A	0.0551	0.0139	N/A	N/A
2802070496_2XMS	11:30	N/A	N/A	N/A	1.093	1.094	N/A	N/A
28020470496_2XMSD	11:33	N/A	N/A	N/A	1.056	1.060	N/A	N/A
2802070497_2X	11:37	N/A	N/A	N/A	0.0586	0.0060	N/A	N/A
2802070497_2SMS	11:41	N/A	N/A	N/A	1.121	1.139	N/A	N/A
2802070497DUP_2X	11:45	N/A	N/A	N/A	1.083	1.089	N/A	N/A
CCV	11:51	N/A	N/A	N/A	5.39/5	5.47/5	N/A	N/A
CCB	11:54	N/A	N/A	N/A	0.0002	0.0002	N/A	N/A
MCV	12:00	N/A	N/A	N/A	2.73/2.5	2.79(2.5)	N/A	N/A
2802070485_5X	12:03	N/A	N/A	N/A	0.0245	0.0119	N/A	N/A
MCV	12:13	N/A	N/A	N/A	2.56/2.5	2.62/2.5	N/A	N/A
2802070485_5X	12:16	N/A	N/A	N/A	0.0253	0.0123	N/A	N/A
2802070486_2X	12:20	N/A	N/A	N/A	0.0568	0.0089	N/A	N/A
2802070487_2X	12:24	N/A	N/A	N/A	0.0629	0.0094	N/A	N/A
2802070488_2X	12:29	N/A	N/A	N/A	0.0550	0.0076	N/A	N/A
2802070489_2X	12:33	N/A	N/A	N/A	0.0389	0.0087	N/A	N/A
2802070490_2X	12:37	N/A	N/A	N/A	0.0694	0.0081	N/A	N/A
2802070491_5X	12:42	N/A	N/A	N/A	0.0352	0.0042	N/A	N/A
2802070492_2X	12:46	N/A	N/A	N/A	0.0146	0.0137	N/A	N/A
2802070493_2X	12:51	N/A	N/A	N/A	0.0093	0.0271	N/A	N/A
2802070494_2X	12:55	N/A	N/A	N/A	0.0540	0.0146	N/A	N/A
CCV	13:03	N/A	N/A	N/A	5.29/5	5.39/5	N/A	N/A
CCB	13:07	N/A	N/A	N/A	0.0001	0.0001	N/A	N/A
2802070495_2X	13:10	N/A	N/A	N/A	0.0296	0.0319	N/A	N/A
2802070498_5X	13:15	N/A	N/A	N/A	0.0554	0.0120	N/A	N/A
2802070500_10X	13:19	N/A	N/A	N/A	0.0618	0.0228	N/A	N/A
2802070501_10X	13:23	N/A	N/A	N/A	0.0594	0.0292	N/A	N/A
2802070502_2X	13:28	N/A	N/A	N/A	0.0232	0.1292	N/A	N/A
2802070503_10X	13:32	N/A	N/A	N/A	0.0672	0.0274	N/A	N/A
2802070504_2X	13:36	N/A	N/A	N/A	%-19.4336	%-6.1564	N/A	N/A
2802070512_5X	13:40	N/A	N/A	N/A	%-362.6096	%-115.2821	N/A	N/A
ECV	13:54	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CCV	14:01	N/A	N/A	N/A	5.13/5	5.23/5	N/A	N/A
CCB	14:04	N/A	N/A	N/A	0.0001	0.0003	N/A	N/A
2802070495_2X	14:08	N/A	N/A	N/A	0.0303	0.0340	N/A	N/A
2802070498_5X	14:12	N/A	N/A	N/A	0.0563	0.0147	N/A	N/A
2802070500_10X	14:16	N/A	N/A	N/A	0.0604	0.0260	N/A	N/A

Landscape Summary File ID: 080229 Date: 2/29/08 Analyst: WBH Page: 9

Sample ID	Time	SB	SE	TL	V	ZN	ALX	BEX
2802070501_10X	14:21	N/A	N/A	N/A	0.0582	0.0301	N/A	N/A
2802070502_2X	14:25	N/A	N/A	N/A	0.0235	0.1331	N/A	N/A
2802070503_10X	14:29	N/A	N/A	N/A	0.0662	0.0283	N/A	N/A
2802070504_2X	14:34	N/A	N/A	N/A	0.0427	0.0108	N/A	N/A
2802070512_5X	14:38	N/A	N/A	N/A	0.1305	0.0328	N/A	N/A
ECV	14:47	N/A	N/A	N/A	5.33/5	5.39/5	N/A	N/A
ECB	14:50	N/A	N/A	N/A	0.0003	0.0003	N/A	N/A

Analysis Begun

Start Time: 2/29/2008 07:54:03
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 2/29/2008 06:50:23
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080229A.sif
Batch ID: 080229A
Results Data Set: 080229
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Method Loaded
Method Name: 200.7&6010_070703
IEC File: 070703.iec
Method Description: 200.7/6010_070703
Method Last Saved: 2/5/2008 07:11:20
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Al	Lin, Calc Int	Peak Area	Radial	Yr	Yes
As	Lin, Calc Int	Peak Area	Axial	Sca	Yes
B_	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ba	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Be	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ca	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Cd	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Co	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cr	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cu	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Fe	Lin, Calc Int	Peak Area	Radial	Yr	Yes
K	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mg	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Mo	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Na	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Ni	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Pb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Se	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Tl	Lin, Calc Int	Peak Area	Axial	Sca	Yes
V	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Zn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sca	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yr	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Alx	Lin, Calc Int	Peak Area	Axial	Sca	No
Bex	Lin, Calc Int	Peak Area	Axial	Sca	No

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 0
Date Collected: 2/29/2008 07:54:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	443133.2	4529.17	1.02%	100	%
Yr	193125.9	314.14	0.16%	100.0	%
Ag†	775.1	12.23	1.58%	[0.00]	mg/L
Al†	42.2	8.97	21.26%	[0.00]	mg/L
As†	6.4	1.56	24.41%	[0.00]	mg/L
B_†	104.1	5.17	4.96%	[0.00]	mg/L
Ba†	-37.9	4.50	11.86%	[0.00]	mg/L
Be†	-4246.1	28.84	0.68%	[0.00]	mg/L
Ca†	425.5	3.29	0.77%	[0.00]	mg/L
Cd†	60.0	6.06	10.10%	[0.00]	mg/L
Co†	-68.4	4.63	6.77%	[0.00]	mg/L
Cr†	314.9	11.31	3.59%	[0.00]	mg/L

Cut	2530.6	84.28	3.33%	[0.00] mg/L
Fet	-6.6	1.42	21.70%	[0.00] mg/L
Kt	227.3	15.67	6.90%	[0.00] mg/L
Mgt	-42.0	0.33	0.80%	[0.00] mg/L
Mnt	1357.0	27.40	2.02%	[0.00] mg/L
Mot	24.5	6.50	26.56%	[0.00] mg/L
Nat	-350.5	28.85	8.23%	[0.00] mg/L
Nit	-43.9	7.60	17.31%	[0.00] mg/L
Pbt	-19.4	0.91	4.70%	[0.00] mg/L
Sbt	14.1	2.72	19.24%	[0.00] mg/L
Set	0.1	7.73	>999.9%	[0.00] mg/L
Tlt	-27.7	1.87	6.73%	[0.00] mg/L
Vt	191.4	5.31	2.78%	[0.00] mg/L
Znt	147.6	0.39	0.27%	[0.00] mg/L
Alxt	517.4	51.18	9.89%	[0.00] ug/L
Bext	-4246.1	28.84	0.68%	[0.00] ug/L

Sequence No.: 2
Sample ID: Standard 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/29/2008 07:57:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	395782.9	38.10	0.01%	89.3	%
Yr	184152.1	3037.31	1.65%	95.4	%
Agt	566716.9	111.13	0.02%	[2]	mg/L
Alt	35265.3	214.47	0.61%	[10]	mg/L
Ast	20804.3	47.63	0.23%	[10]	mg/L
B_t	158070.7	128.11	0.08%	[5.02]	mg/L
Bat	746973.8	898.17	0.12%	[10]	mg/L
Bet	12594279.0	45314.18	0.36%	[4.01]	mg/L
Cat	496333.8	2070.01	0.42%	[100]	mg/L
Cdt	136275.5	251.57	0.18%	[5.01]	mg/L
Cot	260981.1	513.44	0.20%	[10]	mg/L
Crt	790045.3	74.88	0.01%	[9.97]	mg/L
Cut	3925472.3	4052.66	0.10%	[10]	mg/L
Fet	6211.5	93.16	1.50%	[9.98]	mg/L
Kt	111633.6	1165.03	1.04%	[100]	mg/L
Mgt	192093.7	1163.55	0.61%	[100]	mg/L
Mnt	5763449.0	5234.47	0.09%	[10]	mg/L
Mot	130176.8	83.22	0.06%	[9.98]	mg/L
Nat	392869.3	3276.55	0.83%	[100]	mg/L
Nit	227767.4	11.61	0.01%	[10]	mg/L
Pbt	51035.0	166.09	0.33%	[10]	mg/L
Sbt	19883.7	99.00	0.50%	[10]	mg/L
Set	13303.7	95.83	0.72%	[10]	mg/L
Tlt	28088.4	62.84	0.22%	[10]	mg/L
Vt	1735445.4	402.43	0.02%	[10]	mg/L
Znt	497505.7	61.78	0.01%	[10]	mg/L
Alxt	974441.3	6917.58	0.71%	[10000]	ug/L
Bext	12594279.0	45314.18	0.36%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	283400	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	3527	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	2080	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	31490	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	74700	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3141000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	4963	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	27200	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	26100	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	79240	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	392500	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	622.4	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1116	0.00000	1.000000	
Mg	1	Lin, Calc Int	-0.0	1921	0.00000	1.000000	
Mn	1	Lin, Calc Int	-0.0	576300	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	13040	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3929	0.00000	1.000000	
Ni	1	Lin, Calc Int	-0.0	22780	0.00000	1.000000	
Pb	1	Lin, Calc Int	-0.0	5104	0.00000	1.000000	
Sb	1	Lin, Calc Int	-0.0	1988	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1330	0.00000	1.000000	
Tl	1	Lin, Calc Int	-0.0	2809	0.00000	1.000000	
V	1	Lin, Calc Int	-0.0	173500	0.00000	1.000000	
Zn	1	Lin, Calc Int	0.0	49750	0.00000	1.000000	
Alx	1	Lin, Calc Int	0.0	97.44	0.00000	1.000000	
Bex	1	Lin, Calc Int	0.0	3141	0.00000	1.000000	

Sequence No.: 3
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 2/29/2008 08:00:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	401018.7	90.5	%	0.47				0.52%
Yr	178779.6	92.6	%	0.79				0.85%
Agt	563810.5	1.99	mg/L	0.000	1.99	mg/L	0.000	0.01%
QC value within limits for Ag		Recovery = 99.49%						
Alt	35288.6	10.0	mg/L	0.06	10.0	mg/L	0.06	0.61%
QC value within limits for Al		Recovery = 100.07%						
Ast	20396.0	9.80	mg/L	0.065	9.80	mg/L	0.065	0.66%
QC value within limits for As		Recovery = 98.03%						
B_t	157886.9	4.99	mg/L	0.006	4.99	mg/L	0.006	0.12%
QC value within limits for B_		Recovery = 99.88%						
Bat	742172.7	9.94	mg/L	0.024	9.94	mg/L	0.024	0.24%
QC value within limits for Ba		Recovery = 99.36%						
Bet	12475209.3	3.97	mg/L	0.001	3.97	mg/L	0.001	0.01%
QC value within limits for Be		Recovery = 99.30%						
Cat	493883.0	99.5	mg/L	0.39	99.5	mg/L	0.39	0.39%
QC value within limits for Ca		Recovery = 99.51%						
Cdt	135395.7	4.85	mg/L	0.001	4.85	mg/L	0.001	0.03%
QC value within limits for Cd		Recovery = 96.91%						
Cot	259454.9	9.94	mg/L	0.025	9.94	mg/L	0.025	0.25%
QC value within limits for Co		Recovery = 99.42%						
Crt	785413.1	9.91	mg/L	0.008	9.91	mg/L	0.008	0.08%
QC value within limits for Cr		Recovery = 99.12%						
Cut	3904874.3	9.96	mg/L	0.018	9.96	mg/L	0.018	0.18%
QC value within limits for Cu		Recovery = 99.57%						
Fet	6134.4	9.86	mg/L	0.094	9.86	mg/L	0.094	0.95%
QC value within limits for Fe		Recovery = 98.56%						
Kt	111563.1	99.9	mg/L	0.86	99.9	mg/L	0.86	0.86%
QC value within limits for K		Recovery = 99.94%						
Mgt	191801.2	99.8	mg/L	0.43	99.8	mg/L	0.43	0.43%
QC value within limits for Mg		Recovery = 99.85%						
Mnt	5727956.0	9.94	mg/L	0.026	9.94	mg/L	0.026	0.27%
QC value within limits for Mn		Recovery = 99.38%						
Mot	129524.7	9.93	mg/L	0.046	9.93	mg/L	0.046	0.46%
QC value within limits for Mo		Recovery = 99.30%						
Nat	393902.1	100	mg/L	0.9	100	mg/L	0.9	0.94%
QC value within limits for Na		Recovery = 100.26%						
Nit	226665.2	9.95	mg/L	0.025	9.95	mg/L	0.025	0.25%
QC value within limits for Ni		Recovery = 99.52%						
Pbt	50341.0	9.86	mg/L	0.034	9.86	mg/L	0.034	0.35%
QC value within limits for Pb		Recovery = 98.64%						
Sbt	19532.2	9.67	mg/L	0.019	9.67	mg/L	0.019	0.20%
QC value within limits for Sb		Recovery = 96.66%						
Set	13084.6	9.85	mg/L	0.065	9.85	mg/L	0.065	0.66%
QC value within limits for Se		Recovery = 98.54%						
Tlt	27759.0	9.91	mg/L	0.042	9.91	mg/L	0.042	0.42%
QC value within limits for Tl		Recovery = 99.11%						
Vt	1727546.0	10.0	mg/L	0.01	10.0	mg/L	0.01	0.12%
QC value within limits for V		Recovery = 100.09%						
Znt	494724.2	9.88	mg/L	0.016	9.88	mg/L	0.016	0.17%
QC value within limits for Zn		Recovery = 98.76%						
Alxt	972211.7	9980	ug/L	1.7	9.98	mg/L	0.002	0.02%
QC value within limits for Alx		Recovery = 99.77%						
Bext	12475209.3	3970	ug/L	0.5	3.97	mg/L	0.001	0.01%
QC value within limits for Bex		Recovery = 99.30%						

All analyte(s) passed QC.

Sequence No.: 4
Sample ID: LINEARITY
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/29/2008 08:04:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	380551.1	85.9	%	0.62				0.72%
Yr	175159.4	90.7	%	0.01				0.01%
Agt	-9083.9	-0.0321	mg/L	0.00032	-0.0321	mg/L	0.00032	1.00%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-49.7	-0.0141	mg/L	0.00295	-0.0141	mg/L	0.00295	20.90%
QC value within limits for Al	Recovery = Not calculated							
Ast	-161.3	-0.0186	mg/L	0.00267	-0.0186	mg/L	0.00267	14.41%
QC value within limits for As	Recovery = Not calculated							
B_t	621.3	0.0197	mg/L	0.00164	0.0197	mg/L	0.00164	8.31%
QC value within limits for B_	Recovery = Not calculated							
Bat	117.8	0.00158	mg/L	0.000041	0.00158	mg/L	0.000041	2.57%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-895.9	-0.00029	mg/L	0.000023	-0.00029	mg/L	0.000023	8.04%
QC value within limits for Be	Recovery = Not calculated							
Cat	1447215.9	292	mg/L	0.4	292	mg/L	0.4	0.14%
QC value within limits for Ca	Recovery = 97.19%							
Cdt	-27.5	0.00035	mg/L	0.000150	0.00035	mg/L	0.000150	43.38%
QC value within limits for Cd	Recovery = Not calculated							
Cot	58.9	0.00226	mg/L	0.000092	0.00226	mg/L	0.000092	4.10%
QC value within limits for Co	Recovery = Not calculated							
Crt	158.7	0.00200	mg/L	0.000023	0.00200	mg/L	0.000023	1.15%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-5319.6	-0.0135	mg/L	0.00018	-0.0135	mg/L	0.00018	1.33%
QC value within limits for Cu	Recovery = Not calculated							
Fet	60774.6	97.6	mg/L	0.11	97.6	mg/L	0.11	0.12%
QC value within limits for Fe	Recovery = 97.65%							
Kt	350479.2	314	mg/L	2.1	314	mg/L	2.1	0.68%
QC value within limits for K	Recovery = 104.65%							
Mgt	358470.2	187	mg/L	0.0	187	mg/L	0.0	0.02%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	853.7	0.00148	mg/L	0.000048	0.00148	mg/L	0.000048	3.22%
QC value within limits for Mn	Recovery = Not calculated							
Mot	11.9	0.00091	mg/L	0.000227	0.00091	mg/L	0.000227	25.00%
QC value within limits for Mo	Recovery = Not calculated							
Nat	1183396.0	301	mg/L	1.9	301	mg/L	1.9	0.63%
QC value within limits for Na	Recovery = 100.41%							
Nit	-0.2	-0.00001	mg/L	0.000303	-0.00001	mg/L	0.000303	>999.9%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-17.3	-0.00339	mg/L	0.000445	-0.00339	mg/L	0.000445	13.11%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	23.5	0.0118	mg/L	0.00231	0.0118	mg/L	0.00231	19.63%
QC value within limits for Sb	Recovery = Not calculated							
Set	-334.3	-0.0613	mg/L	0.00668	-0.0613	mg/L	0.00668	10.90%
QC value within limits for Se	Recovery = Not calculated							
Tlt	51.3	0.0183	mg/L	0.00099	0.0183	mg/L	0.00099	5.40%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-765.8	-0.00440	mg/L	0.000462	-0.00440	mg/L	0.000462	10.50%
QC value within limits for V	Recovery = Not calculated							
Znt	1168.9	0.0235	mg/L	0.00014	0.0235	mg/L	0.00014	0.62%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	-150.2	-1.54	ug/L	0.322	-0.00154	mg/L	0.000322	20.89%
QC value within limits for Alx	Recovery = Not calculated							
Bext	-895.9	-0.285	ug/L	0.0229	-0.00029	mg/L	0.000023	8.04%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 5
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/29/2008 08:07:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	392357.3	88.5	%	0.14				0.16%
Yr	180027.7	93.2	%	0.03				0.03%
Ag†	-9018.7	-0.0318	mg/L	0.00014	-0.0318	mg/L	0.00014	0.43%
QC value within limits for Ag	Recovery = Not calculated							
Al†	871801.2	247	mg/L	3.9	247	mg/L	3.9	1.57%
QC value within limits for Al	Recovery = 98.88%							
As†	-400.8	-0.134	mg/L	0.0005	-0.134	mg/L	0.0005	0.40%
QC value within limits for As	Recovery = Not calculated							
B_†	137.3	0.00436	mg/L	0.000693	0.00436	mg/L	0.000693	15.90%
QC value within limits for B_	Recovery = Not calculated							
Ba†	154.3	0.00207	mg/L	0.000074	0.00207	mg/L	0.000074	3.60%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-818.6	-0.00026	mg/L	0.000036	-0.00026	mg/L	0.000036	13.63%
QC value within limits for Be	Recovery = Not calculated							
Ca†	1246090.0	251	mg/L	4.0	251	mg/L	4.0	1.59%
QC value within limits for Ca	Recovery = 100.42%							
Cd†	-31.4	0.00220	mg/L	0.000234	0.00220	mg/L	0.000234	10.62%
QC value within limits for Cd	Recovery = Not calculated							
Co†	36.5	0.00140	mg/L	0.000042	0.00140	mg/L	0.000042	2.98%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-30.3	-0.00038	mg/L	0.000043	-0.00038	mg/L	0.000043	11.20%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-5738.5	-0.0146	mg/L	0.00010	-0.0146	mg/L	0.00010	0.71%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	60376.6	97.0	mg/L	0.14	97.0	mg/L	0.14	0.15%
QC value within limits for Fe	Recovery = 97.01%							
K†	316.0	0.283	mg/L	0.0049	0.283	mg/L	0.0049	1.72%
QC value within limits for K	Recovery = Not calculated							
Mg†	450106.2	234	mg/L	0.2	234	mg/L	0.2	0.08%
QC value within limits for Mg	Recovery = 93.73%							
Mn†	1228.9	0.00213	mg/L	0.000144	0.00213	mg/L	0.000144	6.75%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	14.2	0.00109	mg/L	0.000564	0.00109	mg/L	0.000564	51.97%
QC value within limits for Mo	Recovery = Not calculated							
Na†	538.6	0.137	mg/L	0.0026	0.137	mg/L	0.0026	1.93%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-13.7	-0.00060	mg/L	0.000420	-0.00060	mg/L	0.000420	69.97%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-189.5	-0.0371	mg/L	0.00043	-0.0371	mg/L	0.00043	1.16%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	25.5	0.0128	mg/L	0.00205	0.0128	mg/L	0.00205	16.03%
QC value within limits for Sb	Recovery = Not calculated							
Se†	-340.6	-0.0672	mg/L	0.00251	-0.0672	mg/L	0.00251	3.74%
QC value within limits for Se	Recovery = Not calculated							
Tl†	28.6	0.0102	mg/L	0.00524	0.0102	mg/L	0.00524	51.44%
QC value within limits for Tl	Recovery = Not calculated							
V†	-789.4	-0.00455	mg/L	0.000107	-0.00455	mg/L	0.000107	2.35%
QC value within limits for V	Recovery = Not calculated							
Zn†	950.1	0.0191	mg/L	0.00000	0.0191	mg/L	0.00000	0.02%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	Saturated2							
Unable to evaluate QC.								
Bex†	-818.6	-0.261	ug/L	0.0355	-0.00026	mg/L	0.000036	13.63%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 6
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 2/29/2008 08:11:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	392134.3	88.5	%	0.60				0.68%
Yr	183427.7	95.0	%	1.29				1.36%
Agt	130052.4	0.459	mg/L	0.0009	0.459	mg/L	0.0009	0.19%
QC value within limits for Ag Recovery = 91.79%								
Alt	847463.5	240	mg/L	2.3	240	mg/L	2.3	0.98%
QC value within limits for Al Recovery = 96.12%								
Ast	-407.8	-0.138	mg/L	0.0007	-0.138	mg/L	0.0007	0.49%
QC value less than the lower limit for As Recovery = Not calculated								
B_t	-10.4	-0.00081	mg/L	0.000493	-0.00081	mg/L	0.000493	61.10%
QC value within limits for B_ Recovery = Not calculated								
Bat	19084.8	0.255	mg/L	0.0006	0.255	mg/L	0.0006	0.23%
QC value within limits for Ba Recovery = 102.20%								
Bet	767932.9	0.245	mg/L	0.0010	0.245	mg/L	0.0010	0.42%
QC value within limits for Be Recovery = 97.80%								
Cat	1213389.5	244	mg/L	3.3	244	mg/L	3.3	1.34%
QC value within limits for Ca Recovery = 97.79%								
Cdt	13108.0	0.486	mg/L	0.0020	0.486	mg/L	0.0020	0.41%
QC value within limits for Cd Recovery = 97.24%								
Cot	6127.9	0.235	mg/L	0.0005	0.235	mg/L	0.0005	0.22%
QC value within limits for Co Recovery = 93.92%								
Crt	19414.1	0.245	mg/L	0.0005	0.245	mg/L	0.0005	0.22%
QC value within limits for Cr Recovery = 98.00%								
Cut	94497.3	0.241	mg/L	0.0015	0.241	mg/L	0.0015	0.61%
QC value within limits for Cu Recovery = 96.38%								
Fet	60356.1	97.0	mg/L	0.31	97.0	mg/L	0.31	0.32%
QC value within limits for Fe Recovery = 96.97%								
Kt	147.7	0.132	mg/L	0.0076	0.132	mg/L	0.0076	5.77%
QC value within limits for K Recovery = Not calculated								
Mgt	448600.3	234	mg/L	0.1	234	mg/L	0.1	0.03%
QC value within limits for Mg Recovery = 93.41%								
Mnt	146296.9	0.254	mg/L	0.0013	0.254	mg/L	0.0013	0.51%
QC value within limits for Mn Recovery = 101.53%								
Mot	9.0	0.00069	mg/L	0.000020	0.00069	mg/L	0.000020	2.88%
QC value within limits for Mo Recovery = Not calculated								
Nat	223.0	0.0568	mg/L	0.01484	0.0568	mg/L	0.01484	26.15%
QC value within limits for Na Recovery = Not calculated								
Nit	10509.7	0.461	mg/L	0.0009	0.461	mg/L	0.0009	0.20%
QC value within limits for Ni Recovery = 92.28%								
Pbt	2292.1	0.449	mg/L	0.0007	0.449	mg/L	0.0007	0.15%
QC value within limits for Pb Recovery = 89.83%								
Sbt	29.8	0.0111	mg/L	0.00003	0.0111	mg/L	0.00003	0.24%
QC value within limits for Sb Recovery = Not calculated								
Set	-357.4	-0.0799	mg/L	0.00755	-0.0799	mg/L	0.00755	9.45%
QC value within limits for Se Recovery = Not calculated								
Tlt	13.1	0.00533	mg/L	0.000095	0.00533	mg/L	0.000095	1.78%
QC value within limits for Tl Recovery = Not calculated								
Vt	41555.1	0.241	mg/L	0.0001	0.241	mg/L	0.0001	0.02%
QC value within limits for V Recovery = 96.32%								
Znt	26406.9	0.528	mg/L	0.0018	0.528	mg/L	0.0018	0.35%
QC value within limits for Zn Recovery = 105.53%								
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	767932.9	245	ug/L	1.0	0.245	mg/L	0.0010	0.42%
QC value within limits for Bex Recovery = 97.80%								

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: Wash
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 08:15:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	444828.5	100	%	0.1				0.09%
Yr	197446.8	102	%	0.4				0.40%
Agt	-351.7	-0.00124	mg/L	0.000158	-0.00124	mg/L	0.000158	12.77%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-13.3	-0.00378	mg/L	0.005116	-0.00378	mg/L	0.005116	135.19%
QC value within limits for Al	Recovery = Not calculated							
Ast	-0.8	-0.00038	mg/L	0.000532	-0.00038	mg/L	0.000532	138.50%
QC value within limits for As	Recovery = Not calculated							
B_t	202.1	0.00642	mg/L	0.000123	0.00642	mg/L	0.000123	1.91%
QC value within limits for B_	Recovery = Not calculated							
Bat	5.9	0.00008	mg/L	0.000048	0.00008	mg/L	0.000048	60.14%
QC value within limits for Ba	Recovery = Not calculated							
Bet	269.7	0.00009	mg/L	0.000002	0.00009	mg/L	0.000002	2.39%
QC value within limits for Be	Recovery = Not calculated							
Cat	25.9	0.00521	mg/L	0.000569	0.00521	mg/L	0.000569	10.92%
QC value within limits for Ca	Recovery = Not calculated							
Cdt	2.4	0.00010	mg/L	0.000163	0.00010	mg/L	0.000163	166.86%
QC value within limits for Cd	Recovery = Not calculated							
Cot	6.1	0.00023	mg/L	0.000028	0.00023	mg/L	0.000028	11.85%
QC value within limits for Co	Recovery = Not calculated							
Crt	-21.4	-0.00027	mg/L	0.000021	-0.00027	mg/L	0.000021	7.87%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-271.7	-0.00069	mg/L	0.000091	-0.00069	mg/L	0.000091	13.11%
QC value within limits for Cu	Recovery = Not calculated							
Fet	7.4	0.0119	mg/L	0.00222	0.0119	mg/L	0.00222	18.63%
QC value within limits for Fe	Recovery = Not calculated							
Kt	89.0	0.0797	mg/L	0.02798	0.0797	mg/L	0.02798	35.10%
QC value within limits for K	Recovery = Not calculated							
Mgt	11.1	0.00580	mg/L	0.002072	0.00580	mg/L	0.002072	35.71%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-1068.1	-0.00185	mg/L	0.000003	-0.00185	mg/L	0.000003	0.15%
QC value within limits for Mn	Recovery = Not calculated							
Mot	5.9	0.00045	mg/L	0.000154	0.00045	mg/L	0.000154	34.20%
QC value within limits for Mo	Recovery = Not calculated							
Nat	114.9	0.0292	mg/L	0.00430	0.0292	mg/L	0.00430	14.72%
QC value within limits for Na	Recovery = Not calculated							
Nit	-4.7	-0.00021	mg/L	0.000338	-0.00021	mg/L	0.000338	163.60%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	5.7	0.00112	mg/L	0.000162	0.00112	mg/L	0.000162	14.44%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	1.2	0.00059	mg/L	0.001029	0.00059	mg/L	0.001029	175.81%
QC value within limits for Sb	Recovery = Not calculated							
Set	-4.6	-0.00345	mg/L	0.000643	-0.00345	mg/L	0.000643	18.62%
QC value within limits for Se	Recovery = Not calculated							
Tlt	-5.2	-0.00183	mg/L	0.000117	-0.00183	mg/L	0.000117	6.37%
QC value within limits for Tl	Recovery = Not calculated							
Vt	21.8	0.00012	mg/L	0.000034	0.00012	mg/L	0.000034	27.50%
QC value within limits for V	Recovery = Not calculated							
Znt	-2.8	-0.00005	mg/L	0.000023	-0.00005	mg/L	0.000023	42.54%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	-92.9	-0.953	ug/L	0.1994	-0.00095	mg/L	0.000199	20.92%
QC value within limits for Alx	Recovery = Not calculated							
Bext	269.7	0.0859	ug/L	0.00205	0.00009	mg/L	0.000002	2.39%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 2/29/2008 08:18:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	448153.6	101	%	0.3				0.27%
Yr	191930.4	99.4	%	1.49				1.50%
Agt	127480.3	0.450	mg/L	0.0008	0.450	mg/L	0.0008	0.17%
QC value less than the lower limit for Ag Recovery = 44.99%								
Alt	3544.7	1.01	mg/L	0.015	1.01	mg/L	0.015	1.53%
QC value within limits for Al Recovery = 100.52%								
Ast	1941.4	0.933	mg/L	0.0057	0.933	mg/L	0.0057	0.61%
QC value within limits for As Recovery = 93.31%								
B_t	29014.7	0.919	mg/L	0.0044	0.919	mg/L	0.0044	0.48%
QC value within limits for B_ Recovery = 91.93%								
Bat	78785.4	1.05	mg/L	0.007	1.05	mg/L	0.007	0.68%
QC value within limits for Ba Recovery = 105.47%								
Bet	3024865.0	0.963	mg/L	0.0016	0.963	mg/L	0.0016	0.17%
QC value within limits for Be Recovery = 96.31%								
Cat	5241.4	1.06	mg/L	0.041	1.06	mg/L	0.041	3.84%
QC value within limits for Ca Recovery = 105.60%								
Cdt	26428.6	0.959	mg/L	0.0064	0.959	mg/L	0.0064	0.67%
QC value within limits for Cd Recovery = 95.95%								
Cot	27631.7	1.06	mg/L	0.008	1.06	mg/L	0.008	0.75%
QC value within limits for Co Recovery = 105.88%								
Crt	80930.1	1.02	mg/L	0.007	1.02	mg/L	0.007	0.64%
QC value within limits for Cr Recovery = 102.13%								
Cut	389652.9	0.994	mg/L	0.0005	0.994	mg/L	0.0005	0.05%
QC value within limits for Cu Recovery = 99.36%								
Fet	649.9	1.04	mg/L	0.042	1.04	mg/L	0.042	4.00%
QC value within limits for Fe Recovery = 104.42%								
Kt	10835.2	9.71	mg/L	0.013	9.71	mg/L	0.013	0.13%
QC value within limits for K Recovery = 97.06%								
Mgt	2064.3	1.07	mg/L	0.041	1.07	mg/L	0.041	3.78%
QC value within limits for Mg Recovery = 107.46%								
Mnt	607135.7	1.05	mg/L	0.001	1.05	mg/L	0.001	0.13%
QC value within limits for Mn Recovery = 105.34%								
Mot	12765.4	0.979	mg/L	0.0011	0.979	mg/L	0.0011	0.12%
QC value within limits for Mo Recovery = 97.87%								
Nat	4132.8	1.05	mg/L	0.022	1.05	mg/L	0.022	2.11%
QC value within limits for Na Recovery = 105.20%								
Nit	24433.2	1.07	mg/L	0.009	1.07	mg/L	0.009	0.88%
QC value within limits for Ni Recovery = 107.27%								
Pbt	5365.2	1.05	mg/L	0.001	1.05	mg/L	0.001	0.11%
QC value within limits for Pb Recovery = 105.13%								
Sbt	1873.9	0.926	mg/L	0.0006	0.926	mg/L	0.0006	0.06%
QC value within limits for Sb Recovery = 92.60%								
Set	1228.5	0.925	mg/L	0.0037	0.925	mg/L	0.0037	0.40%
QC value within limits for Se Recovery = 92.54%								
Tlt	2976.4	1.06	mg/L	0.003	1.06	mg/L	0.003	0.25%
QC value within limits for Tl Recovery = 106.24%								
Vt	170785.6	0.990	mg/L	0.0058	0.990	mg/L	0.0058	0.59%
QC value within limits for V Recovery = 98.97%								
Znt	51253.5	1.02	mg/L	0.008	1.02	mg/L	0.008	0.79%
QC value within limits for Zn Recovery = 102.29%								
Alxt	93115.5	956	ug/L	8.3	0.956	mg/L	0.0083	0.87%
QC value within limits for Alx Recovery = 95.56%								
Bext	3024865.0	963	ug/L	1.6	0.963	mg/L	0.0016	0.17%
QC value within limits for Bex Recovery = 96.31%								

QC Failed. Retry.

Sequence No.: 9
Sample ID: QC-25 1ppm
Analyst:

Autosampler Location: 12
Date Collected: 2/29/2008 08:21:12
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	447280.2	101	%	1.1				1.12%
Yr	195666.5	101	%	2.0				1.99%
Agt	122649.9	0.433	mg/L	0.0074	0.433	mg/L	0.0074	1.72%
QC value less than the lower limit for Ag Recovery = 43.28%								
Alt	3523.5	0.999	mg/L	0.0113	0.999	mg/L	0.0113	1.13%
QC value within limits for Al Recovery = 99.92%								
Ast	1943.3	0.934	mg/L	0.0077	0.934	mg/L	0.0077	0.82%
QC value within limits for As Recovery = 93.40%								
B_t	29240.6	0.926	mg/L	0.0041	0.926	mg/L	0.0041	0.44%
QC value within limits for B_ Recovery = 92.65%								
Bat	78762.1	1.05	mg/L	0.006	1.05	mg/L	0.006	0.56%
QC value within limits for Ba Recovery = 105.44%								
Bet	3026293.5	0.964	mg/L	0.0046	0.964	mg/L	0.0046	0.47%
QC value within limits for Be Recovery = 96.36%								
Cat	5247.1	1.06	mg/L	0.029	1.06	mg/L	0.029	2.71%
QC value within limits for Ca Recovery = 105.72%								
Cdt	26392.7	0.958	mg/L	0.0070	0.958	mg/L	0.0070	0.73%
QC value within limits for Cd Recovery = 95.81%								
Cot	27485.3	1.05	mg/L	0.004	1.05	mg/L	0.004	0.36%
QC value within limits for Co Recovery = 105.32%								
Crt	81129.4	1.02	mg/L	0.006	1.02	mg/L	0.006	0.58%
QC value within limits for Cr Recovery = 102.38%								
Cut	389975.1	0.994	mg/L	0.0078	0.994	mg/L	0.0078	0.78%
QC value within limits for Cu Recovery = 99.44%								
Fet	648.5	1.04	mg/L	0.031	1.04	mg/L	0.031	2.94%
QC value within limits for Fe Recovery = 104.20%								
Kt	10765.3	9.64	mg/L	0.130	9.64	mg/L	0.130	1.34%
QC value within limits for K Recovery = 96.43%								
Mgt	2064.8	1.07	mg/L	0.029	1.07	mg/L	0.029	2.74%
QC value within limits for Mg Recovery = 107.49%								
Mnt	607297.1	1.05	mg/L	0.002	1.05	mg/L	0.002	0.16%
QC value within limits for Mn Recovery = 105.37%								
Mot	12764.3	0.979	mg/L	0.0116	0.979	mg/L	0.0116	1.19%
QC value within limits for Mo Recovery = 97.86%								
Nat	4135.4	1.05	mg/L	0.012	1.05	mg/L	0.012	1.17%
QC value within limits for Na Recovery = 105.26%								
Nit	24458.9	1.07	mg/L	0.007	1.07	mg/L	0.007	0.61%
QC value within limits for Ni Recovery = 107.39%								
Pbt	5378.3	1.05	mg/L	0.012	1.05	mg/L	0.012	1.09%
QC value within limits for Pb Recovery = 105.38%								
Sbt	1877.9	0.928	mg/L	0.0104	0.928	mg/L	0.0104	1.12%
QC value within limits for Sb Recovery = 92.80%								
Set	1223.7	0.922	mg/L	0.0069	0.922	mg/L	0.0069	0.75%
QC value within limits for Se Recovery = 92.19%								
Tlt	2980.1	1.06	mg/L	0.013	1.06	mg/L	0.013	1.22%
QC value within limits for Tl Recovery = 106.38%								
Vt	171211.3	0.992	mg/L	0.0051	0.992	mg/L	0.0051	0.52%
QC value within limits for V Recovery = 99.22%								
Znt	51398.2	1.03	mg/L	0.005	1.03	mg/L	0.005	0.44%
QC value within limits for Zn Recovery = 102.58%								
Alxt	92638.6	951	ug/L	12.2	0.951	mg/L	0.0122	1.28%
QC value within limits for Alx Recovery = 95.07%								
Bext	3026293.5	964	ug/L	4.6	0.964	mg/L	0.0046	0.47%
QC value within limits for Bex Recovery = 96.36%								

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 08:25:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	415685.4	93.8	%	0.21				0.23%
Yr	188755.8	97.7	%	1.61				1.65%
Agt	271738.8	0.959	mg/L	0.0003	0.959	mg/L	0.0003	0.04%
QC value within limits for Ag		Recovery = 95.90%						
Alt	17699.6	5.02	mg/L	0.044	5.02	mg/L	0.044	0.88%
QC value within limits for Al		Recovery = 100.38%						
Ast	10025.7	4.82	mg/L	0.071	4.82	mg/L	0.071	1.47%
QC value within limits for As		Recovery = 96.37%						
B_t	80488.3	2.55	mg/L	0.009	2.55	mg/L	0.009	0.35%
QC value within limits for B_		Recovery = 101.83%						
Bat	385263.4	5.16	mg/L	0.002	5.16	mg/L	0.002	0.05%
QC value within limits for Ba		Recovery = 103.15%						
Bet	6564881.5	2.09	mg/L	0.024	2.09	mg/L	0.024	1.14%
QC value within limits for Be		Recovery = 104.51%						
Cat	254217.9	51.2	mg/L	0.09	51.2	mg/L	0.09	0.18%
QC value within limits for Ca		Recovery = 102.44%						
Cdt	55613.2	1.98	mg/L	0.001	1.98	mg/L	0.001	0.05%
QC value within limits for Cd		Recovery = 99.04%						
Cot	135330.2	5.19	mg/L	0.002	5.19	mg/L	0.002	0.03%
QC value within limits for Co		Recovery = 103.71%						
Crt	407997.9	5.15	mg/L	0.010	5.15	mg/L	0.010	0.20%
QC value within limits for Cr		Recovery = 102.97%						
Cut	2023430.8	5.16	mg/L	0.003	5.16	mg/L	0.003	0.05%
QC value within limits for Cu		Recovery = 103.19%						
Fet	3232.8	5.19	mg/L	0.039	5.19	mg/L	0.039	0.74%
QC value within limits for Fe		Recovery = 103.88%						
Kt	54644.3	48.9	mg/L	0.28	48.9	mg/L	0.28	0.58%
QC value within limits for K		Recovery = 97.90%						
Mgt	97809.5	50.9	mg/L	0.14	50.9	mg/L	0.14	0.27%
QC value within limits for Mg		Recovery = 101.84%						
Mnt	3004432.0	5.21	mg/L	0.003	5.21	mg/L	0.003	0.06%
QC value within limits for Mn		Recovery = 104.26%						
Mot	66514.0	5.10	mg/L	0.001	5.10	mg/L	0.001	0.02%
QC value within limits for Mo		Recovery = 101.99%						
Nat	195616.8	49.8	mg/L	0.11	49.8	mg/L	0.11	0.23%
QC value within limits for Na		Recovery = 99.58%						
Nit	119024.5	5.23	mg/L	0.001	5.23	mg/L	0.001	0.02%
QC value within limits for Ni		Recovery = 104.51%						
Pbt	26174.6	5.13	mg/L	0.068	5.13	mg/L	0.068	1.32%
QC value within limits for Pb		Recovery = 102.57%						
Sbt	9729.6	4.81	mg/L	0.076	4.81	mg/L	0.076	1.57%
QC value within limits for Sb		Recovery = 96.23%						
Set	6650.9	5.01	mg/L	0.078	5.01	mg/L	0.078	1.57%
QC value within limits for Se		Recovery = 100.19%						
Tlt	14777.2	5.28	mg/L	0.070	5.28	mg/L	0.070	1.32%
QC value within limits for Tl		Recovery = 105.51%						
Vt	884187.6	5.12	mg/L	0.008	5.12	mg/L	0.008	0.16%
QC value within limits for V		Recovery = 102.47%						
Znt	261195.6	5.21	mg/L	0.003	5.21	mg/L	0.003	0.06%
QC value within limits for Zn		Recovery = 104.29%						
Alxt	489129.8	5020	ug/L	11.7	5.02	mg/L	0.012	0.23%
QC value within limits for Alx		Recovery = 100.39%						
Bext	6564881.5	2090	ug/L	23.9	2.09	mg/L	0.024	1.14%
QC value within limits for Bex		Recovery = 104.51%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 08:29:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	446835.4	101	%	1.0				1.01%
Yr	199783.0	103	%	1.4				1.33%
Ag†	-299.0	-0.00106	mg/L	0.000531	-0.00106	mg/L	0.000531	50.33%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-7.1	-0.00203	mg/L	0.003766	-0.00203	mg/L	0.003766	185.93%
QC value within limits for Al	Recovery = Not calculated							
As†	26.9	0.0130	mg/L	0.00362	0.0130	mg/L	0.00362	27.95%
QC value within limits for As	Recovery = Not calculated							
B_†	588.6	0.0187	mg/L	0.00111	0.0187	mg/L	0.00111	5.94%
QC value within limits for B_	Recovery = Not calculated							
Ba†	10.7	0.00014	mg/L	0.000007	0.00014	mg/L	0.000007	5.01%
QC value within limits for Ba	Recovery = Not calculated							
Be†	298.6	0.00010	mg/L	0.000022	0.00010	mg/L	0.000022	23.45%
QC value within limits for Be	Recovery = Not calculated							
Ca†	9.2	0.00185	mg/L	0.001399	0.00185	mg/L	0.001399	75.62%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	5.3	-0.00003	mg/L	0.000059	-0.00003	mg/L	0.000059	195.60%
QC value within limits for Cd	Recovery = Not calculated							
Co†	5.5	0.00021	mg/L	0.000110	0.00021	mg/L	0.000110	51.80%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-20.9	-0.00026	mg/L	0.000009	-0.00026	mg/L	0.000009	3.27%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-199.6	-0.00051	mg/L	0.000116	-0.00051	mg/L	0.000116	22.84%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	6.0	0.00962	mg/L	0.002323	0.00962	mg/L	0.002323	24.15%
QC value within limits for Fe	Recovery = Not calculated							
K†	112.9	0.101	mg/L	0.0424	0.101	mg/L	0.0424	41.94%
QC value within limits for K	Recovery = Not calculated							
Mg†	5.9	0.00308	mg/L	0.001474	0.00308	mg/L	0.001474	47.78%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-784.8	-0.00136	mg/L	0.000028	-0.00136	mg/L	0.000028	2.02%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	12.1	0.00093	mg/L	0.000157	0.00093	mg/L	0.000157	16.93%
QC value within limits for Mo	Recovery = Not calculated							
Na†	89.4	0.0228	mg/L	0.00018	0.0228	mg/L	0.00018	0.78%
QC value within limits for Na	Recovery = Not calculated							
Ni†	3.8	0.00017	mg/L	0.000158	0.00017	mg/L	0.000158	94.60%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	11.3	0.00221	mg/L	0.001640	0.00221	mg/L	0.001640	74.20%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	15.0	0.00756	mg/L	0.003328	0.00756	mg/L	0.003328	44.01%
QC value within limits for Sb	Recovery = Not calculated							
Se†	-7.7	-0.00573	mg/L	0.003721	-0.00573	mg/L	0.003721	64.91%
QC value within limits for Se	Recovery = Not calculated							
Tl†	-2.8	-0.00099	mg/L	0.000913	-0.00099	mg/L	0.000913	91.83%
QC value within limits for Tl	Recovery = Not calculated							
V†	-26.1	-0.00015	mg/L	0.000099	-0.00015	mg/L	0.000099	64.81%
QC value within limits for V	Recovery = Not calculated							
Zn†	12.7	0.00025	mg/L	0.000018	0.00025	mg/L	0.000018	6.92%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	-134.9	-1.38	ug/L	0.531	-0.00138	mg/L	0.000531	38.36%
QC value within limits for Alx	Recovery = Not calculated							
Bex†	298.6	0.0951	ug/L	0.02229	0.00010	mg/L	0.000022	23.45%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 2/29/2008 08:33:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	434142.4	98.0	%	0.61				0.62%
Yr	197509.6	102	%	0.6				0.61%
Agt	2559.3	0.00903	mg/L	0.000270	0.00903	mg/L	0.000270	2.99%
QC value within limits for Ag		Recovery = 90.32%						
Alt	179.1	0.0508	mg/L	0.00042	0.0508	mg/L	0.00042	0.82%
QC value within limits for Al		Recovery = 101.57%						
Ast	206.0	0.0990	mg/L	0.00007	0.0990	mg/L	0.00007	0.07%
QC value within limits for As		Recovery = 99.05%						
B_t	1927.9	0.0611	mg/L	0.00017	0.0611	mg/L	0.00017	0.28%
QC value within limits for B_		Recovery = 122.24%						
Bat	1575.3	0.0211	mg/L	0.00006	0.0211	mg/L	0.00006	0.30%
QC value within limits for Ba		Recovery = 105.45%						
Bet	3391.9	0.00108	mg/L	0.000022	0.00108	mg/L	0.000022	2.02%
QC value within limits for Be		Recovery = 108.00%						
Cat	5067.4	1.02	mg/L	0.003	1.02	mg/L	0.003	0.30%
QC value within limits for Ca		Recovery = 102.10%						
Cdt	177.6	0.00501	mg/L	0.000222	0.00501	mg/L	0.000222	4.44%
QC value within limits for Cd		Recovery = 100.17%						
Cot	1373.9	0.0526	mg/L	0.00034	0.0526	mg/L	0.00034	0.65%
QC value within limits for Co		Recovery = 105.29%						
Crt	811.1	0.0102	mg/L	0.00000	0.0102	mg/L	0.00000	0.04%
QC value within limits for Cr		Recovery = 102.36%						
Cut	3739.8	0.00958	mg/L	0.000088	0.00958	mg/L	0.000088	0.92%
QC value within limits for Cu		Recovery = 95.77%						
Fet	16.6	0.0267	mg/L	0.00149	0.0267	mg/L	0.00149	5.60%
QC value within limits for Fe		Recovery = 133.28%						
Kt	1136.8	1.02	mg/L	0.014	1.02	mg/L	0.014	1.42%
QC value within limits for K		Recovery = 101.84%						
Mgt	205.6	0.107	mg/L	0.0004	0.107	mg/L	0.0004	0.33%
QC value within limits for Mg		Recovery = 107.02%						
Mnt	407.0	0.00071	mg/L	0.000016	0.00071	mg/L	0.000016	2.33%
QC value less than the lower limit for Mn		Recovery = 35.31%						
Mot	270.8	0.0208	mg/L	0.00000	0.0208	mg/L	0.00000	0.01%
QC value within limits for Mo		Recovery = 103.81%						
Nat	3951.0	1.01	mg/L	0.004	1.01	mg/L	0.004	0.39%
QC value within limits for Na		Recovery = 100.57%						
Nit	482.5	0.0212	mg/L	0.00018	0.0212	mg/L	0.00018	0.86%
QC value within limits for Ni		Recovery = 105.92%						
Pbt	108.1	0.0212	mg/L	0.00080	0.0212	mg/L	0.00080	3.79%
QC value within limits for Pb		Recovery = 105.90%						
Sbt	91.2	0.0457	mg/L	0.00128	0.0457	mg/L	0.00128	2.80%
QC value within limits for Sb		Recovery = 91.31%						
Set	135.7	0.102	mg/L	0.0016	0.102	mg/L	0.0016	1.55%
QC value within limits for Se		Recovery = 102.07%						
Tlt	319.2	0.114	mg/L	0.0018	0.114	mg/L	0.0018	1.58%
QC value within limits for Tl		Recovery = 113.64%						
Vt	342.5	0.00203	mg/L	0.000162	0.00203	mg/L	0.000162	8.00%
QC value within limits for V		Recovery = 101.49%						
Znt	1046.1	0.0209	mg/L	0.00008	0.0209	mg/L	0.00008	0.39%
QC value within limits for Zn		Recovery = 104.41%						
Alxt	4497.9	46.2	ug/L	0.41	0.0462	mg/L	0.00041	0.89%
QC value within limits for Alx		Recovery = 92.32%						
Bext	3391.9	1.08	ug/L	0.022	0.00108	mg/L	0.000022	2.02%
QC value within limits for Bex		Recovery = 108.00%						

QC Failed. Retry.

Sequence No.: 13
Sample ID: MRL
Analyst:

Autosampler Location: 20
Date Collected: 2/29/2008 08:35:55
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	446221.8	101	%	0.5				0.46%
Yr	199150.3	103	%	0.6				0.58%
Agt	2457.3	0.00867	mg/L	0.000163	0.00867	mg/L	0.000163	1.88%
QC value within limits for Ag Recovery = 86.72%								
Alt	189.3	0.0537	mg/L	0.00214	0.0537	mg/L	0.00214	3.98%
QC value within limits for Al Recovery = 107.34%								
Ast	196.5	0.0945	mg/L	0.00184	0.0945	mg/L	0.00184	1.94%
QC value within limits for As Recovery = 94.47%								
B_t	1752.4	0.0555	mg/L	0.00062	0.0555	mg/L	0.00062	1.11%
QC value within limits for B_ Recovery = 111.10%								
Bat	1531.5	0.0205	mg/L	0.00012	0.0205	mg/L	0.00012	0.60%
QC value within limits for Ba Recovery = 102.51%								
Bet	3718.8	0.00118	mg/L	0.000000	0.00118	mg/L	0.000000	0.03%
QC value within limits for Be Recovery = 118.41%								
Cat	5078.7	1.02	mg/L	0.004	1.02	mg/L	0.004	0.42%
QC value within limits for Ca Recovery = 102.32%								
Cdt	171.7	0.00487	mg/L	0.000082	0.00487	mg/L	0.000082	1.69%
QC value within limits for Cd Recovery = 97.37%								
Cot	1353.5	0.0519	mg/L	0.00067	0.0519	mg/L	0.00067	1.29%
QC value within limits for Co Recovery = 103.72%								
Crt	793.9	0.0100	mg/L	0.00011	0.0100	mg/L	0.00011	1.15%
QC value within limits for Cr Recovery = 100.18%								
Cut	3486.8	0.00893	mg/L	0.000114	0.00893	mg/L	0.000114	1.27%
QC value within limits for Cu Recovery = 89.32%								
Fet	13.1	0.0211	mg/L	0.00300	0.0211	mg/L	0.00300	14.20%
QC value within limits for Fe Recovery = 105.61%								
Kt	1141.1	1.02	mg/L	0.055	1.02	mg/L	0.055	5.35%
QC value within limits for K Recovery = 102.22%								
Mgt	207.7	0.108	mg/L	0.0015	0.108	mg/L	0.0015	1.43%
QC value within limits for Mg Recovery = 108.14%								
Mnt	315.7	0.00055	mg/L	0.000023	0.00055	mg/L	0.000023	4.16%
QC value less than the lower limit for Mn Recovery = 27.39%								
Mot	264.8	0.0203	mg/L	0.00019	0.0203	mg/L	0.00019	0.93%
QC value within limits for Mo Recovery = 101.51%								
Nat	3993.2	1.02	mg/L	0.000	1.02	mg/L	0.000	0.04%
QC value within limits for Na Recovery = 101.64%								
Nit	481.7	0.0211	mg/L	0.00012	0.0211	mg/L	0.00012	0.58%
QC value within limits for Ni Recovery = 105.74%								
Pbt	115.7	0.0227	mg/L	0.00134	0.0227	mg/L	0.00134	5.92%
QC value within limits for Pb Recovery = 113.33%								
Sbt	89.5	0.0448	mg/L	0.00041	0.0448	mg/L	0.00041	0.92%
QC value within limits for Sb Recovery = 89.65%								
Set	131.0	0.0985	mg/L	0.00258	0.0985	mg/L	0.00258	2.62%
QC value within limits for Se Recovery = 98.51%								
Tlt	306.4	0.109	mg/L	0.0002	0.109	mg/L	0.0002	0.15%
QC value within limits for Tl Recovery = 109.11%								
Vt	340.6	0.00202	mg/L	0.000002	0.00202	mg/L	0.000002	0.08%
QC value within limits for V Recovery = 100.90%								
Znt	1017.0	0.0203	mg/L	0.00034	0.0203	mg/L	0.00034	1.69%
QC value within limits for Zn Recovery = 101.49%								
Alxt	4117.8	42.3	ug/L	0.58	0.0423	mg/L	0.00058	1.38%
QC value within limits for Alx Recovery = 84.52%								
Bext	3718.8	1.18	ug/L	0.000	0.00118	mg/L	0.000000	0.03%
QC value within limits for Bex Recovery = 118.41%								

QC Failed. Continue with analysis.

Sequence No.: 14
Sample ID: MBLANK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 2/29/2008 08:39:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MBLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	446527.6	101	%	0.5				0.48%
Yr	203318.3	105	%	0.8				0.75%
Agt	-279.6	-0.00099	mg/L	0.000017	-0.00099	mg/L	0.000017	1.70%
Alt	27.2	0.00772	mg/L	0.003033	0.00772	mg/L	0.003033	39.28%
Ast	12.8	0.00614	mg/L	0.000584	0.00614	mg/L	0.000584	9.52%
B_t	156.4	0.00497	mg/L	0.000151	0.00497	mg/L	0.000151	3.04%
Bat	7.1	0.00010	mg/L	0.000022	0.00010	mg/L	0.000022	23.04%
Bet	379.4	0.00012	mg/L	0.000045	0.00012	mg/L	0.000045	37.10%
Cat	133.8	0.0269	mg/L	0.00167	0.0269	mg/L	0.00167	6.20%
Cdt	6.4	0.00013	mg/L	0.000012	0.00013	mg/L	0.000012	9.17%
Cot	0.8	0.00003	mg/L	0.000064	0.00003	mg/L	0.000064	208.79%
Crt	-11.9	-0.00015	mg/L	0.000067	-0.00015	mg/L	0.000067	44.64%
Cut	-346.5	-0.00088	mg/L	0.000017	-0.00088	mg/L	0.000017	1.94%
Fet	5.6	0.00893	mg/L	0.000287	0.00893	mg/L	0.000287	3.21%
Kt	72.7	0.0651	mg/L	0.01074	0.0651	mg/L	0.01074	16.49%
Mgt	6.2	0.00323	mg/L	0.000270	0.00323	mg/L	0.000270	8.35%
Mnt	-1055.0	-0.00183	mg/L	0.000023	-0.00183	mg/L	0.000023	1.24%
Mot	10.4	0.00080	mg/L	0.000005	0.00080	mg/L	0.000005	0.66%
Nat	100.5	0.0256	mg/L	0.00140	0.0256	mg/L	0.00140	5.48%
Nit	-2.1	-0.00009	mg/L	0.000317	-0.00009	mg/L	0.000317	352.25%
Pbt	5.6	0.00110	mg/L	0.000481	0.00110	mg/L	0.000481	43.81%
Sbt	3.6	0.00183	mg/L	0.002118	0.00183	mg/L	0.002118	115.74%
Set	-2.7	-0.00204	mg/L	0.004304	-0.00204	mg/L	0.004304	210.97%
Tlt	-2.0	-0.00073	mg/L	0.002595	-0.00073	mg/L	0.002595	356.73%
Vt	44.0	0.00025	mg/L	0.000044	0.00025	mg/L	0.000044	17.58%
Znt	123.4	0.00248	mg/L	0.000058	0.00248	mg/L	0.000058	2.35%
Alxt	-6.5	-0.0666	ug/L	0.29260	-0.00007	mg/L	0.000293	439.58%
Bext	379.4	0.121	ug/L	0.0448	0.00012	mg/L	0.000045	37.10%

Sequence No.: 15
Sample ID: MRL2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 2/29/2008 08:42:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	455446.5	103	%	0.5				0.49%
Yr	205252.9	106	%	1.2				1.13%
Agt	2472.5	0.00873	mg/L	0.000019	0.00873	mg/L	0.000019	0.22%
Alt	182.3	0.0517	mg/L	0.00495	0.0517	mg/L	0.00495	9.57%
Ast	201.7	0.0970	mg/L	0.00084	0.0970	mg/L	0.00084	0.87%
B_t	1602.0	0.0508	mg/L	0.00022	0.0508	mg/L	0.00022	0.43%
Bat	1526.1	0.0204	mg/L	0.00025	0.0204	mg/L	0.00025	1.21%
Bet	3716.6	0.00118	mg/L	0.000003	0.00118	mg/L	0.000003	0.22%
Cat	5160.7	1.04	mg/L	0.006	1.04	mg/L	0.006	0.58%
Cdt	169.5	0.00475	mg/L	0.000104	0.00475	mg/L	0.000104	2.18%
Cot	1379.1	0.0528	mg/L	0.00052	0.0528	mg/L	0.00052	0.98%
Crt	801.4	0.0101	mg/L	0.00010	0.0101	mg/L	0.00010	1.03%
Cut	3588.0	0.00919	mg/L	0.000061	0.00919	mg/L	0.000061	0.66%
Fet	16.4	0.0263	mg/L	0.00069	0.0263	mg/L	0.00069	2.63%
Kt	1134.0	1.02	mg/L	0.022	1.02	mg/L	0.022	2.17%
Mgt	199.7	0.104	mg/L	0.0003	0.104	mg/L	0.0003	0.31%
Mnt	162.4	0.00028	mg/L	0.000062	0.00028	mg/L	0.000062	21.83%
Mot	260.1	0.0199	mg/L	0.00033	0.0199	mg/L	0.00033	1.64%
Nat	4015.4	1.02	mg/L	0.005	1.02	mg/L	0.005	0.45%
Nit	483.4	0.0212	mg/L	0.00034	0.0212	mg/L	0.00034	1.61%
Pbt	109.1	0.0214	mg/L	0.00127	0.0214	mg/L	0.00127	5.96%
Sbt	80.9	0.0405	mg/L	0.00022	0.0405	mg/L	0.00022	0.54%
Set	126.7	0.0953	mg/L	0.00450	0.0953	mg/L	0.00450	4.73%
Tlt	308.3	0.110	mg/L	0.0011	0.110	mg/L	0.0011	1.00%
Vt	364.8	0.00216	mg/L	0.000327	0.00216	mg/L	0.000327	15.14%
Znt	1163.6	0.0232	mg/L	0.00023	0.0232	mg/L	0.00023	1.00%
Alxt	4260.4	43.7	ug/L	0.31	0.0437	mg/L	0.00031	0.70%
Bext	3716.6	1.18	ug/L	0.003	0.00118	mg/L	0.000003	0.22%

Sequence No.: 16
Sample ID: SOULTION CHECK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 25
Date Collected: 2/29/2008 08:46:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SOULTION CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	422095.9	95.3	%	1.40				1.47%
Yr	191809.5	99.3	%	0.14				0.14%
Alt	6596.4	1.87	mg/L	0.002	1.87	mg/L	0.002	0.09%
B_t	15364.7	0.486	mg/L	0.0118	0.486	mg/L	0.0118	2.43%
Bat	75171.6	1.01	mg/L	0.021	1.01	mg/L	0.021	2.11%
Bet	162939.7	0.0519	mg/L	0.00016	0.0519	mg/L	0.00016	0.32%
Cat	252366.0	50.8	mg/L	0.13	50.8	mg/L	0.13	0.25%
Cdt	5582.0	0.209	mg/L	0.0047	0.209	mg/L	0.0047	2.25%
Cot	26708.5	1.02	mg/L	0.021	1.02	mg/L	0.021	2.09%
Crt	79094.4	0.998	mg/L	0.0047	0.998	mg/L	0.0047	0.47%
Cut	384955.3	0.982	mg/L	0.0026	0.982	mg/L	0.0026	0.27%
Fet	3116.6	5.01	mg/L	0.003	5.01	mg/L	0.003	0.05%
Kt	26403.4	23.7	mg/L	0.18	23.7	mg/L	0.18	0.75%
Mgt	38393.9	20.0	mg/L	0.01	20.0	mg/L	0.01	0.06%
Mot	12960.2	0.994	mg/L	0.0175	0.994	mg/L	0.0175	1.76%
Nat	191381.3	48.7	mg/L	0.32	48.7	mg/L	0.32	0.66%
Nit	11758.5	0.516	mg/L	0.0106	0.516	mg/L	0.0106	2.06%
Pbt	5250.9	1.03	mg/L	0.033	1.03	mg/L	0.033	3.19%
Vt	170653.9	0.989	mg/L	0.0041	0.989	mg/L	0.0041	0.41%
Znt	51782.6	1.04	mg/L	0.023	1.04	mg/L	0.023	2.20%

Sequence No.: 17
Sample ID: LCS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 2/29/2008 08:50:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	431463.4	97.4	%	0.82				0.85%
Yr	192067.7	99.5	%	1.14				1.14%
Alt	6550.1	1.86	mg/L	0.013	1.86	mg/L	0.013	0.69%
B_t	15113.6	0.478	mg/L	0.0047	0.478	mg/L	0.0047	0.98%
Bat	73357.0	0.982	mg/L	0.0064	0.982	mg/L	0.0064	0.65%
Bet	161711.8	0.0515	mg/L	0.00011	0.0515	mg/L	0.00011	0.21%
Cat	245401.9	49.4	mg/L	0.20	49.4	mg/L	0.20	0.41%
Cdt	5472.3	0.205	mg/L	0.0009	0.205	mg/L	0.0009	0.42%
Cot	26069.1	0.999	mg/L	0.0074	0.999	mg/L	0.0074	0.74%
Crt	77812.1	0.982	mg/L	0.0023	0.982	mg/L	0.0023	0.23%
Cut	384124.9	0.979	mg/L	0.0028	0.979	mg/L	0.0028	0.29%
Fet	3095.3	4.97	mg/L	0.065	4.97	mg/L	0.065	1.30%
Kt	20771.3	18.6	mg/L	0.06	18.6	mg/L	0.06	0.32%
Mgt	37743.4	19.6	mg/L	0.24	19.6	mg/L	0.24	1.22%
Mot	12600.5	0.966	mg/L	0.0063	0.966	mg/L	0.0063	0.65%
Nat	186003.5	47.3	mg/L	0.04	47.3	mg/L	0.04	0.09%
Nit	11499.8	0.505	mg/L	0.0040	0.505	mg/L	0.0040	0.78%
Pbt	5112.7	1.00	mg/L	0.007	1.00	mg/L	0.007	0.69%
Vt	168460.5	0.976	mg/L	0.0037	0.976	mg/L	0.0037	0.38%
Znt	50988.9	1.02	mg/L	0.008	1.02	mg/L	0.008	0.75%

Sequence No.: 18
Sample ID: LCSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 41
Date Collected: 2/29/2008 08:53:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	421575.5	95.1	%	2.11				2.22%
Yr	193439.5	100	%	3.8				3.80%
Alt	6507.9	1.85	mg/L	0.043	1.85	mg/L	0.043	2.32%
B_t	15258.9	0.483	mg/L	0.0013	0.483	mg/L	0.0013	0.27%
Bat	74382.6	0.996	mg/L	0.0065	0.996	mg/L	0.0065	0.65%
Bet	161654.8	0.0515	mg/L	0.00000	0.0515	mg/L	0.00000	0.00%
Cat	250678.8	50.5	mg/L	0.37	50.5	mg/L	0.37	0.74%
Cdt	5545.5	0.208	mg/L	0.0008	0.208	mg/L	0.0008	0.38%
Cot	26404.7	1.01	mg/L	0.004	1.01	mg/L	0.004	0.38%
Crt	78256.0	0.988	mg/L	0.0007	0.988	mg/L	0.0007	0.07%
Cut	385907.7	0.984	mg/L	0.0024	0.984	mg/L	0.0024	0.25%
Fet	3089.5	4.96	mg/L	0.092	4.96	mg/L	0.092	1.85%
Kt	21096.9	18.9	mg/L	0.17	18.9	mg/L	0.17	0.91%
Mgt	38503.1	20.0	mg/L	0.41	20.0	mg/L	0.41	2.04%
Mot	12792.4	0.981	mg/L	0.0068	0.981	mg/L	0.0068	0.70%
Nat	188845.7	48.1	mg/L	0.16	48.1	mg/L	0.16	0.33%
Nit	11622.7	0.510	mg/L	0.0047	0.510	mg/L	0.0047	0.92%
Pbt	5180.4	1.02	mg/L	0.009	1.02	mg/L	0.009	0.84%
Vt	169600.7	0.983	mg/L	0.0002	0.983	mg/L	0.0002	0.02%
Znt	51685.3	1.04	mg/L	0.005	1.04	mg/L	0.005	0.47%

Sequence No.: 19
Sample ID: 2802070519_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 42
Date Collected: 2/29/2008 08:56:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802070519_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	448060.6	101	%	1.2				1.17%
Yr	202664.8	105	%	2.7				2.53%
Alt	36.3	0.0103	mg/L	0.00222	0.0206	mg/L	0.00444	21.53%
B_t	156.3	0.00496	mg/L	0.000219	0.00993	mg/L	0.000438	4.41%
Bat	24.1	0.00032	mg/L	0.000033	0.00065	mg/L	0.000066	10.22%
Bet	451.5	0.00014	mg/L	0.000001	0.00029	mg/L	0.000001	0.37%
Cat	461.8	0.0930	mg/L	0.00474	0.186	mg/L	0.0095	5.10%
Cdt	-1.6	-0.00006	mg/L	0.000009	-0.00012	mg/L	0.000019	16.27%
Cot	3.0	0.00012	mg/L	0.000060	0.00023	mg/L	0.000120	51.61%
Crt	-4.3	-0.00005	mg/L	0.000127	-0.00011	mg/L	0.000255	234.50%
Cut	-242.0	-0.00062	mg/L	0.000014	-0.00123	mg/L	0.000028	2.30%
Fet	11.1	0.0178	mg/L	0.00755	0.0356	mg/L	0.01510	42.37%
Kt	64.2	0.0575	mg/L	0.00000	0.115	mg/L	0.0000	0.01%
Mgt	67.8	0.0353	mg/L	0.00273	0.0706	mg/L	0.00547	7.74%
Mot	10.1	0.00078	mg/L	0.000107	0.00156	mg/L	0.000213	13.72%
Nat	521.5	0.133	mg/L	0.0144	0.265	mg/L	0.0289	10.88%
Nit	-0.1	0.00000	mg/L	0.000286	-0.00001	mg/L	0.000572	>999.9%
Pbt	0.1	0.00003	mg/L	0.001229	0.00006	mg/L	0.002457	>999.9%
Vt	38.0	0.00022	mg/L	0.000073	0.00044	mg/L	0.000146	33.32%
Znt	144.6	0.00291	mg/L	0.000071	0.00581	mg/L	0.000142	2.45%

Sequence No.: 20
Sample ID: 2802070519_2XMS
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 2/29/2008 09:00:28
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802070519_2XMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	423508.2	95.6	%	2.62				2.74%
Yr	184900.6	95.7	%	0.41				0.43%
Alt	3388.4	0.961	mg/L	0.0075	1.92	mg/L	0.015	0.78%
B_t	7522.2	0.238	mg/L	0.0053	0.476	mg/L	0.0107	2.24%
Bat	37715.4	0.505	mg/L	0.0140	1.01	mg/L	0.028	2.77%
Bet	81459.1	0.0259	mg/L	0.00008	0.0519	mg/L	0.00015	0.29%
Cat	128872.4	26.0	mg/L	0.04	51.9	mg/L	0.08	0.15%
Cdt	2756.8	0.103	mg/L	0.0031	0.207	mg/L	0.0062	2.99%
Cot	13356.3	0.512	mg/L	0.0146	1.02	mg/L	0.029	2.86%
Crt	39524.4	0.499	mg/L	0.0021	0.998	mg/L	0.0043	0.43%
Cut	193822.5	0.494	mg/L	0.0051	0.988	mg/L	0.0102	1.03%
Fet	1619.6	2.60	mg/L	0.029	5.20	mg/L	0.058	1.12%
Kt	11161.1	10.00	mg/L	0.075	20.0	mg/L	0.15	0.75%
Mgt	20418.8	10.6	mg/L	0.08	21.3	mg/L	0.15	0.71%
Mot	6430.5	0.493	mg/L	0.0135	0.986	mg/L	0.0271	2.75%
Nat	96380.6	24.5	mg/L	0.06	49.1	mg/L	0.12	0.24%
Nit	5875.1	0.258	mg/L	0.0066	0.516	mg/L	0.0132	2.57%
Pbt	2614.9	0.512	mg/L	0.0161	1.02	mg/L	0.032	3.14%
Vt	85074.8	0.493	mg/L	0.0032	0.986	mg/L	0.0065	0.66%
Znt	25810.6	0.517	mg/L	0.0139	1.03	mg/L	0.028	2.69%

Sequence No.: 21
Sample ID: 2802070519_2XMSD
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 2/29/2008 09:04:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802070519_2XMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	431653.6	97.4	%	0.23				0.24%
Yr	185364.5	96.0	%	0.70				0.73%
Alt	3292.6	0.934	mg/L	0.0079	1.87	mg/L	0.016	0.85%
B_t	7219.8	0.228	mg/L	0.0026	0.457	mg/L	0.0052	1.13%
Bat	35954.2	0.481	mg/L	0.0042	0.963	mg/L	0.0085	0.88%
Bet	79427.3	0.0253	mg/L	0.00003	0.0506	mg/L	0.00006	0.12%
Cat	127452.0	25.7	mg/L	0.10	51.4	mg/L	0.19	0.37%
Cdt	2628.0	0.0985	mg/L	0.00051	0.197	mg/L	0.0010	0.52%
Cot	12729.3	0.488	mg/L	0.0032	0.975	mg/L	0.0065	0.67%
Crt	38550.3	0.486	mg/L	0.0010	0.973	mg/L	0.0020	0.21%
Cut	189436.9	0.483	mg/L	0.0007	0.966	mg/L	0.0015	0.15%
Fet	1581.8	2.54	mg/L	0.015	5.08	mg/L	0.030	0.59%
Kt	10952.9	9.81	mg/L	0.065	19.6	mg/L	0.13	0.66%
Mgt	20099.3	10.5	mg/L	0.09	20.9	mg/L	0.18	0.84%
Mot	6142.4	0.471	mg/L	0.0031	0.942	mg/L	0.0062	0.66%
Nat	95337.9	24.3	mg/L	0.12	48.5	mg/L	0.23	0.48%
Nit	5608.7	0.246	mg/L	0.0023	0.492	mg/L	0.0045	0.92%
Pbt	2503.9	0.491	mg/L	0.0033	0.981	mg/L	0.0066	0.68%
Vt	83076.5	0.481	mg/L	0.0001	0.963	mg/L	0.0003	0.03%
Znt	24689.3	0.495	mg/L	0.0042	0.989	mg/L	0.0084	0.85%

Sequence No.: 22
Sample ID: 2802080261_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 2/29/2008 09:07:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080261_2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	419362.4	94.6	%	0.13				0.13%
Yr	194829.9	101	%	1.1				1.11%
Alt	-2.7	-0.00077	mg/L	0.005583	-0.00153	mg/L	0.011166	729.25%
B_t	20738.1	0.659	mg/L	0.0001	1.32	mg/L	0.000	0.02%
Bat	813.2	0.0109	mg/L	0.00027	0.0218	mg/L	0.00054	2.46%
Bet	-129.5	-0.00004	mg/L	0.000009	-0.00008	mg/L	0.000018	22.36%
Cat	269069.4	54.2	mg/L	0.09	108	mg/L	0.2	0.17%
Cdt	-0.7	-0.00002	mg/L	0.000007	-0.00005	mg/L	0.000014	27.21%
Cot	-7.2	-0.00028	mg/L	0.000185	-0.00055	mg/L	0.000371	67.21%
Crt	12181.0	0.154	mg/L	0.0008	0.307	mg/L	0.0016	0.52%
Cut	33.1	0.00008	mg/L	0.000126	0.00017	mg/L	0.000253	150.40%
Fet	10.2	0.0164	mg/L	0.00056	0.0329	mg/L	0.00113	3.44%
Kt	3277.5	2.94	mg/L	0.052	5.87	mg/L	0.105	1.78%
Mgt	32160.8	16.7	mg/L	0.21	33.5	mg/L	0.41	1.23%
Mot	83.8	0.00643	mg/L	0.000015	0.0129	mg/L	0.00003	0.23%
Nat	406104.8	103	mg/L	0.2	207	mg/L	0.5	0.23%
Nit	0.7	0.00003	mg/L	0.000128	0.00006	mg/L	0.000256	440.84%
Pbt	-12.3	-0.00240	mg/L	0.000137	-0.00480	mg/L	0.000274	5.70%
Vt	3884.2	0.0232	mg/L	0.00046	0.0465	mg/L	0.00093	1.99%
Znt	335.8	0.00675	mg/L	0.000110	0.0135	mg/L	0.00022	1.63%

Sequence No.: 23
Sample ID: 2802080261_2XMS
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 46
Date Collected: 2/29/2008 09:11:58
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080261_2XMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	410518.0	92.6	%	0.03				0.03%
Yr	192753.7	99.8	%	0.75				0.76%
Alt	3349.9	0.950	mg/L	0.0061	1.90	mg/L	0.012	0.64%
B_t	28430.7	0.902	mg/L	0.0064	1.80	mg/L	0.013	0.71%
Bat	39463.3	0.528	mg/L	0.0013	1.06	mg/L	0.003	0.24%
Bet	84034.4	0.0268	mg/L	0.00001	0.0535	mg/L	0.00002	0.04%
Cat	397585.1	80.1	mg/L	0.25	160	mg/L	0.5	0.31%
Cdt	2876.2	0.108	mg/L	0.0007	0.216	mg/L	0.0013	0.62%
Cot	13587.8	0.521	mg/L	0.0017	1.04	mg/L	0.003	0.32%
Crt	52413.4	0.661	mg/L	0.0028	1.32	mg/L	0.006	0.42%
Cut	200838.1	0.512	mg/L	0.0026	1.02	mg/L	0.005	0.51%
Fet	1619.8	2.60	mg/L	0.021	5.21	mg/L	0.041	0.79%
Kt	14321.0	12.8	mg/L	0.06	25.7	mg/L	0.12	0.47%
Mgt	52150.6	27.1	mg/L	0.09	54.3	mg/L	0.19	0.35%
Mot	6668.6	0.511	mg/L	0.0011	1.02	mg/L	0.002	0.21%
Nat	496589.0	126	mg/L	0.1	253	mg/L	0.1	0.04%
Nit	5909.1	0.259	mg/L	0.0001	0.519	mg/L	0.0001	0.02%
Pbt	2607.3	0.511	mg/L	0.0032	1.02	mg/L	0.006	0.62%
Vt	91264.5	0.530	mg/L	0.0015	1.06	mg/L	0.003	0.27%
Znt	26930.8	0.540	mg/L	0.0024	1.08	mg/L	0.005	0.45%

Sequence No.: 24
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 09:15:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	409820.8	92.5	%	0.50				0.54%
Yr	187772.9	97.2	%	0.13				0.13%
Al†	17230.9	4.89	mg/L	0.011	4.89	mg/L	0.011	0.23%
QC value within limits for Al		Recovery = 97.72%						
B_†	80418.9	2.54	mg/L	0.026	2.54	mg/L	0.026	1.01%
QC value within limits for B_		Recovery = 101.73%						
Ba†	392700.6	5.26	mg/L	0.032	5.26	mg/L	0.032	0.61%
QC value within limits for Ba		Recovery = 105.14%						
Be†	6717837.2	2.14	mg/L	0.000	2.14	mg/L	0.000	0.02%
QC value within limits for Be		Recovery = 106.95%						
Ca†	258024.0	52.0	mg/L	0.29	52.0	mg/L	0.29	0.55%
QC value within limits for Ca		Recovery = 103.97%						
Cd†	56062.5	2.08	mg/L	0.015	2.08	mg/L	0.015	0.73%
QC value within limits for Cd		Recovery = 104.07%						
Co†	137278.1	5.26	mg/L	0.025	5.26	mg/L	0.025	0.48%
QC value within limits for Co		Recovery = 105.20%						
Cr†	416942.6	5.26	mg/L	0.045	5.26	mg/L	0.045	0.85%
QC value within limits for Cr		Recovery = 105.23%						
Cu†	2000760.2	5.10	mg/L	0.018	5.10	mg/L	0.018	0.36%
QC value within limits for Cu		Recovery = 102.04%						
Fe†	3249.5	5.22	mg/L	0.017	5.22	mg/L	0.017	0.32%
QC value within limits for Fe		Recovery = 104.42%						
K†	53837.5	48.2	mg/L	0.02	48.2	mg/L	0.02	0.05%
QC value within limits for K		Recovery = 96.45%						
Mg†	98058.3	51.0	mg/L	0.06	51.0	mg/L	0.06	0.12%
QC value within limits for Mg		Recovery = 102.09%						
Mo†	67550.1	5.18	mg/L	0.030	5.18	mg/L	0.030	0.58%
QC value within limits for Mo		Recovery = 103.57%						
Na†	193325.9	49.2	mg/L	0.11	49.2	mg/L	0.11	0.23%
QC value within limits for Na		Recovery = 98.42%						
Ni†	121257.0	5.32	mg/L	0.035	5.32	mg/L	0.035	0.65%
QC value within limits for Ni		Recovery = 106.47%						
Pb†	27322.2	5.35	mg/L	0.036	5.35	mg/L	0.036	0.66%
QC value within limits for Pb		Recovery = 107.07%						
V†	888828.5	5.15	mg/L	0.017	5.15	mg/L	0.017	0.34%
QC value within limits for V		Recovery = 103.01%						
Zn†	265905.6	5.31	mg/L	0.037	5.31	mg/L	0.037	0.69%
QC value within limits for Zn		Recovery = 106.17%						

All analyte(s) passed QC.

Sequence No.: 25
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 09:19:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	436217.7	98.4	%	0.21				0.22%
Yr	201029.0	104	%	0.2				0.16%
Al†	0.4	0.00011	mg/L	0.003764	0.00011	mg/L	0.003764	>999.9%
QC value within limits for Al		Recovery = Not calculated						
B_†	372.6	0.0118	mg/L	0.00027	0.0118	mg/L	0.00027	2.26%
QC value within limits for B_		Recovery = Not calculated						
Ba†	0.3	0.00000	mg/L	0.000064	0.00000	mg/L	0.000064	>999.9%
QC value within limits for Ba		Recovery = Not calculated						
Be†	458.9	0.00015	mg/L	0.000014	0.00015	mg/L	0.000014	9.71%
QC value within limits for Be		Recovery = Not calculated						
Ca†	4.7	0.00095	mg/L	0.000943	0.00095	mg/L	0.000943	98.95%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	9.5	0.00035	mg/L	0.000060	0.00035	mg/L	0.000060	17.14%
QC value within limits for Cd		Recovery = Not calculated						
Co†	0.4	0.00001	mg/L	0.000036	0.00001	mg/L	0.000036	250.27%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-2.8	-0.00003	mg/L	0.000106	-0.00003	mg/L	0.000106	303.82%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-271.1	-0.00069	mg/L	0.000078	-0.00069	mg/L	0.000078	11.27%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	2.7	0.00432	mg/L	0.001641	0.00432	mg/L	0.001641	38.00%
QC value within limits for Fe		Recovery = Not calculated						
K†	65.3	0.0585	mg/L	0.00643	0.0585	mg/L	0.00643	10.99%
QC value within limits for K		Recovery = Not calculated						
Mg†	4.1	0.00212	mg/L	0.000832	0.00212	mg/L	0.000832	39.27%
QC value within limits for Mg		Recovery = Not calculated						
Mo†	14.7	0.00113	mg/L	0.000074	0.00113	mg/L	0.000074	6.52%
QC value within limits for Mo		Recovery = Not calculated						
Na†	84.1	0.0214	mg/L	0.00530	0.0214	mg/L	0.00530	24.78%
QC value within limits for Na		Recovery = Not calculated						
Ni†	-4.3	-0.00019	mg/L	0.000111	-0.00019	mg/L	0.000111	58.27%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	3.8	0.00075	mg/L	0.000816	0.00075	mg/L	0.000816	109.00%
QC value within limits for Pb		Recovery = Not calculated						
V†	10.6	0.00006	mg/L	0.000020	0.00006	mg/L	0.000020	33.54%
QC value within limits for V		Recovery = Not calculated						
Zn†	2.6	0.00005	mg/L	0.000092	0.00005	mg/L	0.000092	174.71%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: 2802080261_2XMSD
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 2/29/2008 09:22:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080261_2XMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	418708.7	94.5	%	0.74				0.79%
Yr	192708.9	99.8	%	1.00				1.00%
Alt	3200.5	0.908	mg/L	0.0093	1.82	mg/L	0.019	1.03%
B_t	27557.2	0.874	mg/L	0.0092	1.75	mg/L	0.018	1.05%
Bat	37583.0	0.503	mg/L	0.0060	1.01	mg/L	0.012	1.19%
Bet	81130.7	0.0258	mg/L	0.00005	0.0517	mg/L	0.00011	0.21%
Cat	386738.9	77.9	mg/L	0.06	156	mg/L	0.1	0.08%
Cdt	2709.1	0.102	mg/L	0.0007	0.203	mg/L	0.0014	0.69%
Cot	12960.8	0.497	mg/L	0.0043	0.993	mg/L	0.0086	0.86%
Crt	50251.4	0.634	mg/L	0.0067	1.27	mg/L	0.013	1.05%
Cut	193641.1	0.494	mg/L	0.0002	0.988	mg/L	0.0004	0.04%
Fet	1552.8	2.49	mg/L	0.020	4.99	mg/L	0.039	0.78%
Kt	13862.5	12.4	mg/L	0.13	24.8	mg/L	0.26	1.06%
Mgt	50777.6	26.4	mg/L	0.05	52.9	mg/L	0.10	0.18%
Mot	6386.2	0.490	mg/L	0.0053	0.979	mg/L	0.0107	1.09%
Nat	486164.4	124	mg/L	0.9	247	mg/L	1.7	0.70%
Nit	5644.7	0.248	mg/L	0.0027	0.496	mg/L	0.0053	1.08%
Pbt	2523.6	0.494	mg/L	0.0104	0.989	mg/L	0.0207	2.10%
Vt	88400.8	0.513	mg/L	0.0001	1.03	mg/L	0.000	0.03%
Znt	25852.7	0.518	mg/L	0.0057	1.04	mg/L	0.011	1.10%

Sequence No.: 36
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 10:04:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	410798.8	92.7	%	0.03				0.04%
Yr	192889.5	99.9	%	0.15				0.15%
Al†	16690.5	4.73	mg/L	0.012	4.73	mg/L	0.012	0.25%
QC value within limits for Al		Recovery = 94.66%						
B_†	81861.6	2.59	mg/L	0.014	2.59	mg/L	0.014	0.52%
QC value within limits for B_		Recovery = 103.56%						
Ba†	395384.8	5.29	mg/L	0.005	5.29	mg/L	0.005	0.10%
QC value within limits for Ba		Recovery = 105.86%						
Be†	6809368.3	2.17	mg/L	0.017	2.17	mg/L	0.017	0.79%
QC value within limits for Be		Recovery = 108.40%						
Ca†	255036.2	51.4	mg/L	0.39	51.4	mg/L	0.39	0.75%
QC value within limits for Ca		Recovery = 102.77%						
Cd†	56408.8	2.09	mg/L	0.003	2.09	mg/L	0.003	0.16%
QC value within limits for Cd		Recovery = 104.71%						
Co†	137560.0	5.27	mg/L	0.009	5.27	mg/L	0.009	0.17%
QC value within limits for Co		Recovery = 105.42%						
Cr†	416901.4	5.26	mg/L	0.002	5.26	mg/L	0.002	0.05%
QC value within limits for Cr		Recovery = 105.22%						
Cu†	2032533.5	5.18	mg/L	0.003	5.18	mg/L	0.003	0.06%
QC value within limits for Cu		Recovery = 103.66%						
Fe†	3209.6	5.16	mg/L	0.012	5.16	mg/L	0.012	0.23%
QC value within limits for Fe		Recovery = 103.14%						
K†	52253.9	46.8	mg/L	0.09	46.8	mg/L	0.09	0.19%
QC value within limits for K		Recovery = 93.62%						
Mg†	96143.0	50.1	mg/L	0.23	50.1	mg/L	0.23	0.46%
QC value within limits for Mg		Recovery = 100.10%						
Mo†	68087.7	5.22	mg/L	0.012	5.22	mg/L	0.012	0.23%
QC value within limits for Mo		Recovery = 104.40%						
Na†	190131.7	48.4	mg/L	0.16	48.4	mg/L	0.16	0.33%
QC value within limits for Na		Recovery = 96.79%						
Ni†	122055.2	5.36	mg/L	0.014	5.36	mg/L	0.014	0.27%
QC value within limits for Ni		Recovery = 107.18%						
Pb†	27473.3	5.38	mg/L	0.010	5.38	mg/L	0.010	0.19%
QC value within limits for Pb		Recovery = 107.66%						
V†	898483.0	5.21	mg/L	0.003	5.21	mg/L	0.003	0.05%
QC value within limits for V		Recovery = 104.13%						
Zn†	267389.5	5.34	mg/L	0.014	5.34	mg/L	0.014	0.26%
QC value within limits for Zn		Recovery = 106.76%						

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 10:08:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	424814.7	95.9	%	1.87				1.95%
Yr	197778.7	102	%	1.7				1.68%
Al†	-14.7	-0.00417	mg/L	0.005152	-0.00417	mg/L	0.005152	123.44%
QC value within limits for Al	Recovery = Not calculated							
B_†	1295.5	0.0411	mg/L	0.00173	0.0411	mg/L	0.00173	4.20%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-2.4	-0.00003	mg/L	0.000044	-0.00003	mg/L	0.000044	137.78%
QC value within limits for Ba	Recovery = Not calculated							
Be†	401.3	0.00013	mg/L	0.000051	0.00013	mg/L	0.000051	39.65%
QC value within limits for Be	Recovery = Not calculated							
Ca†	0.8	0.00017	mg/L	0.002560	0.00017	mg/L	0.002560	>999.9%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	10.9	0.00040	mg/L	0.000138	0.00040	mg/L	0.000138	34.41%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.2	0.00001	mg/L	0.000314	0.00001	mg/L	0.000314	>999.9%
QC value within limits for Co	Recovery = Not calculated							
Cr†	214.4	0.00271	mg/L	0.000204	0.00271	mg/L	0.000204	7.55%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-265.2	-0.00068	mg/L	0.000141	-0.00068	mg/L	0.000141	20.87%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.8	0.00293	mg/L	0.004101	0.00293	mg/L	0.004101	139.89%
QC value within limits for Fe	Recovery = Not calculated							
K†	123.0	0.110	mg/L	0.0275	0.110	mg/L	0.0275	24.94%
QC value within limits for K	Recovery = Not calculated							
Mg†	3.4	0.00176	mg/L	0.002125	0.00176	mg/L	0.002125	120.42%
QC value within limits for Mg	Recovery = Not calculated							
Mo†	14.8	0.00113	mg/L	0.000136	0.00113	mg/L	0.000136	12.07%
QC value within limits for Mo	Recovery = Not calculated							
Na†	525.8	0.134	mg/L	0.0054	0.134	mg/L	0.0054	4.00%
QC value within limits for Na	Recovery = Not calculated							
Ni†	2.7	0.00012	mg/L	0.000154	0.00012	mg/L	0.000154	127.81%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	1.7	0.00033	mg/L	0.001130	0.00033	mg/L	0.001130	340.06%
QC value within limits for Pb	Recovery = Not calculated							
V†	10.5	0.00008	mg/L	0.000046	0.00008	mg/L	0.000046	60.69%
QC value within limits for V	Recovery = Not calculated							
Zn†	3.9	0.00008	mg/L	0.000075	0.00008	mg/L	0.000075	98.06%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 38
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 10:11:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	430428.6	97.1	%	0.84				0.86%
Yr	192937.1	99.9	%	7.26				7.27%
Al†	4.7	0.00133	mg/L	0.009550	0.00133	mg/L	0.009550	718.89%
QC value within limits for Al	Recovery = Not calculated							
B_†	1073.2	0.0341	mg/L	0.00141	0.0341	mg/L	0.00141	4.15%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-3.4	-0.00005	mg/L	0.000110	-0.00005	mg/L	0.000110	240.92%
QC value within limits for Ba	Recovery = Not calculated							
Be†	388.8	0.00012	mg/L	0.000014	0.00012	mg/L	0.000014	11.05%

QC value within limits for Be Recovery = Not calculated
Cat 13.0 0.00262 mg/L 0.001195 0.00262 mg/L 0.001195 45.69%
QC value within limits for Ca Recovery = Not calculated
Cdt 4.8 0.00017 mg/L 0.000271 0.00017 mg/L 0.000271 155.54%
QC value within limits for Cd Recovery = Not calculated
Cot -6.6 -0.00025 mg/L 0.000098 -0.00025 mg/L 0.000098 38.83%
QC value within limits for Co Recovery = Not calculated
Crt 142.7 0.00180 mg/L 0.000069 0.00180 mg/L 0.000069 3.83%
QC value within limits for Cr Recovery = Not calculated
Cut -269.6 -0.00069 mg/L 0.000069 -0.00069 mg/L 0.000069 10.10%
QC value within limits for Cu Recovery = Not calculated
Fet 0.4 0.00063 mg/L 0.000404 0.00063 mg/L 0.000404 64.46%
QC value within limits for Fe Recovery = Not calculated
Kt 153.2 0.137 mg/L 0.0076 0.137 mg/L 0.0076 5.52%
QC value within limits for K Recovery = Not calculated
Mgt -0.7 -0.00035 mg/L 0.001964 -0.00035 mg/L 0.001964 562.87%
QC value within limits for Mg Recovery = Not calculated
Mot 8.5 0.00065 mg/L 0.000188 0.00065 mg/L 0.000188 28.72%
QC value within limits for Mo Recovery = Not calculated
Nat 528.9 0.135 mg/L 0.0015 0.135 mg/L 0.0015 1.13%
QC value within limits for Na Recovery = Not calculated
Nit 1.9 0.00008 mg/L 0.000323 0.00008 mg/L 0.000323 390.36%
QC value within limits for Ni Recovery = Not calculated
Pbt -4.9 -0.00096 mg/L 0.000401 -0.00096 mg/L 0.000401 41.73%
QC value within limits for Pb Recovery = Not calculated
Vt 12.2 0.00008 mg/L 0.000004 0.00008 mg/L 0.000004 4.75%
QC value within limits for V Recovery = Not calculated
Znt -6.3 -0.00013 mg/L 0.000028 -0.00013 mg/L 0.000028 21.63%
QC value within limits for Zn Recovery = Not calculated
QC Failed. Retry.

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Sequence No.: 39 **Autosampler Location: 0**
Sample ID: CCB **Date Collected: 2/29/2008 10:13:45**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	425880.2	96.1	%	3.91				4.07%
Yr	200231.8	104	%	0.1				0.06%
Alt	-29.5	-0.00838	mg/L	0.005636	-0.00838	mg/L	0.005636	67.28%
QC value within limits for Al Recovery = Not calculated								
B_t	946.1	0.0300	mg/L	0.00149	0.0300	mg/L	0.00149	4.97%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Bat	-4.1	-0.00005	mg/L	0.000077	-0.00005	mg/L	0.000077	139.41%
QC value within limits for Ba Recovery = Not calculated								
Bet	400.7	0.00013	mg/L	0.000009	0.00013	mg/L	0.000009	7.34%
QC value within limits for Be Recovery = Not calculated								
Cat	11.1	0.00223	mg/L	0.000324	0.00223	mg/L	0.000324	14.52%
QC value within limits for Ca Recovery = Not calculated								
Cdt	4.2	0.00015	mg/L	0.000131	0.00015	mg/L	0.000131	84.67%
QC value within limits for Cd Recovery = Not calculated								
Cot	4.1	0.00016	mg/L	0.000194	0.00016	mg/L	0.000194	123.73%
QC value within limits for Co Recovery = Not calculated								
Crt	121.8	0.00154	mg/L	0.000286	0.00154	mg/L	0.000286	18.63%
QC value within limits for Cr Recovery = Not calculated								
Cut	-345.4	-0.00088	mg/L	0.000250	-0.00088	mg/L	0.000250	28.45%
QC value within limits for Cu Recovery = Not calculated								
Fet	0.8	0.00122	mg/L	0.002837	0.00122	mg/L	0.002837	232.98%
QC value within limits for Fe Recovery = Not calculated								
Kt	46.9	0.0420	mg/L	0.00111	0.0420	mg/L	0.00111	2.64%
QC value within limits for K Recovery = Not calculated								
Mgt	2.0	0.00102	mg/L	0.000086	0.00102	mg/L	0.000086	8.48%
QC value within limits for Mg Recovery = Not calculated								
Mot	8.1	0.00062	mg/L	0.000357	0.00062	mg/L	0.000357	57.55%
QC value within limits for Mo Recovery = Not calculated								
Nat	472.7	0.120	mg/L	0.0139	0.120	mg/L	0.0139	11.59%
QC value within limits for Na Recovery = Not calculated								

Ni†	4.4	0.00019	mg/L	0.000261	0.00019	mg/L	0.000261 136.51%
QC value within limits for Ni Recovery = Not calculated							
Pb†	-1.7	-0.00032	mg/L	0.000309	-0.00032	mg/L	0.000309 95.51%
QC value within limits for Pb Recovery = Not calculated							
V†	4.6	0.00004	mg/L	0.000019	0.00004	mg/L	0.000019 54.05%
QC value within limits for V Recovery = Not calculated							
Zn†	-1.0	-0.00002	mg/L	0.000267	-0.00002	mg/L	0.000267 >999.9%
QC value within limits for Zn Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 40
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/29/2008 10:17:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	408138.9	92.1	%	1.65				1.80%
Yr	194844.7	101	%	0.3				0.29%
Al†	8518.2	2.42	mg/L	0.010	2.42	mg/L	0.010	0.41%
QC value within limits for Al Recovery = 96.62%								
B_†	40818.3	1.29	mg/L	0.017	1.29	mg/L	0.017	1.33%
QC value within limits for B_ Recovery = 103.27%								
Ba†	205726.1	2.75	mg/L	0.009	2.75	mg/L	0.009	0.32%
QC value greater than the upper limit for Ba Recovery = 110.17%								
Be†	3515314.2	1.12	mg/L	0.006	1.12	mg/L	0.006	0.52%
QC value greater than the upper limit for Be Recovery = 111.93%								
Ca†	131796.7	26.6	mg/L	0.20	26.6	mg/L	0.20	0.75%
QC value within limits for Ca Recovery = 106.22%								
Cd†	28506.6	1.06	mg/L	0.012	1.06	mg/L	0.012	1.17%
QC value within limits for Cd Recovery = 105.85%								
Co†	70702.6	2.71	mg/L	0.031	2.71	mg/L	0.031	1.15%
QC value within limits for Co Recovery = 108.36%								
Cr†	215112.2	2.71	mg/L	0.008	2.71	mg/L	0.008	0.29%
QC value within limits for Cr Recovery = 108.58%								
Cu†	1046919.5	2.67	mg/L	0.005	2.67	mg/L	0.005	0.18%
QC value within limits for Cu Recovery = 106.78%								
Fe†	1646.6	2.65	mg/L	0.007	2.65	mg/L	0.007	0.25%
QC value within limits for Fe Recovery = 105.83%								
K†	26531.6	23.8	mg/L	0.23	23.8	mg/L	0.23	0.95%
QC value within limits for K Recovery = 95.07%								
Mg†	50052.1	26.1	mg/L	0.17	26.1	mg/L	0.17	0.63%
QC value within limits for Mg Recovery = 104.22%								
Mo†	34676.3	2.66	mg/L	0.025	2.66	mg/L	0.025	0.95%
QC value within limits for Mo Recovery = 106.34%								
Na†	97298.9	24.8	mg/L	0.10	24.8	mg/L	0.10	0.39%
QC value within limits for Na Recovery = 99.06%								
Ni†	62847.5	2.76	mg/L	0.029	2.76	mg/L	0.029	1.05%
QC value greater than the upper limit for Ni Recovery = 110.37%								
Pb†	14140.7	2.77	mg/L	0.043	2.77	mg/L	0.043	1.57%
QC value greater than the upper limit for Pb Recovery = 110.83%								
V†	460600.6	2.67	mg/L	0.008	2.67	mg/L	0.008	0.29%
QC value within limits for V Recovery = 106.76%								
Zn†	136852.1	2.73	mg/L	0.028	2.73	mg/L	0.028	1.01%
QC value within limits for Zn Recovery = 109.28%								

QC Failed. Retry.

Sequence No.: 41
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/29/2008 10:19:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	421330.3	95.1	%	0.13				0.14%
Yr	195651.1	101	%	1.9				1.86%
Al†	8459.3	2.40	mg/L	0.028	2.40	mg/L	0.028	1.16%
QC value within limits for Al Recovery = 95.95%								
B_†	40980.8	1.30	mg/L	0.011	1.30	mg/L	0.011	0.81%
QC value within limits for B_ Recovery = 103.68%								
Ba†	201942.9	2.70	mg/L	0.009	2.70	mg/L	0.009	0.32%
QC value within limits for Ba Recovery = 108.14%								
Be†	3457106.7	1.10	mg/L	0.004	1.10	mg/L	0.004	0.33%

QC value greater than the upper limit for Be Recovery = 110.07%

Ca†	131245.1	26.4 mg/L	0.19	26.4 mg/L	0.19	0.70%

QC value within limits for Ca Recovery = 105.77%

Cd†	28296.8	1.05 mg/L	0.009	1.05 mg/L	0.009	0.84%

QC value within limits for Cd Recovery = 105.07%

Co†	70107.1	2.69 mg/L	0.018	2.69 mg/L	0.018	0.66%

QC value within limits for Co Recovery = 107.45%

Cr†	211206.5	2.67 mg/L	0.013	2.67 mg/L	0.013	0.51%

QC value within limits for Cr Recovery = 106.61%

Cu†	1032870.4	2.63 mg/L	0.002	2.63 mg/L	0.002	0.08%

QC value within limits for Cu Recovery = 105.35%

Fe†	1634.5	2.63 mg/L	0.026	2.63 mg/L	0.026	0.99%

QC value within limits for Fe Recovery = 105.05%

K†	26590.2	23.8 mg/L	0.21	23.8 mg/L	0.21	0.90%

QC value within limits for K Recovery = 95.28%

Mg†	49801.0	25.9 mg/L	0.17	25.9 mg/L	0.17	0.65%

QC value within limits for Mg Recovery = 103.70%

Mo†	34462.1	2.64 mg/L	0.014	2.64 mg/L	0.014	0.55%

QC value within limits for Mo Recovery = 105.68%

Na†	97494.8	24.8 mg/L	0.28	24.8 mg/L	0.28	1.13%

QC value within limits for Na Recovery = 99.26%

Ni†	62265.4	2.73 mg/L	0.024	2.73 mg/L	0.024	0.89%

QC value within limits for Ni Recovery = 109.35%

Pb†	14050.5	2.75 mg/L	0.021	2.75 mg/L	0.021	0.76%

QC value greater than the upper limit for Pb Recovery = 110.12%

V†	452551.5	2.62 mg/L	0.009	2.62 mg/L	0.009	0.34%

QC value within limits for V Recovery = 104.90%

Zn†	135972.1	2.71 mg/L	0.024	2.71 mg/L	0.024	0.90%

QC value within limits for Zn Recovery = 108.58%

QC Failed. Continue with analysis.

Sequence No.: 48
Sample ID: 2802090001_10X
Analyst:
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 63
Date Collected: 2/29/2008 10:48:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090001_10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	376226.9	84.9	%	0.12				0.14%
Yr	182128.3	94.3	%	4.82				5.11%
Alt	164.6	0.0467	mg/L	0.00374	0.467	mg/L	0.0374	8.02%
Bat	389.8	0.00522	mg/L	0.000004	0.0522	mg/L	0.00004	0.07%
Cat	380098.6	76.6	mg/L	0.22	766	mg/L	2.2	0.29%
Cdt	-12.3	-0.00045	mg/L	0.000075	-0.00454	mg/L	0.000749	16.50%
Cot	-5.6	-0.00022	mg/L	0.000298	-0.00216	mg/L	0.002980	138.16%
Crt	243158.3	3.07	mg/L	0.009	30.7	mg/L	0.09	0.28%
Cut	-16.0	-0.00004	mg/L	0.000053	-0.00041	mg/L	0.000530	129.67%
Fet	15.0	0.0241	mg/L	0.00132	0.241	mg/L	0.0132	5.46%
Kt	3993.9	3.58	mg/L	0.143	35.8	mg/L	1.43	4.00%
Mgt	72430.7	37.7	mg/L	1.38	377	mg/L	13.8	3.65%
Mot	44.3	0.00340	mg/L	0.000272	0.0340	mg/L	0.00272	8.02%
Nat	914061.2	233	mg/L	2.3	2330	mg/L	23.5	1.01%
Nit	-3.5	-0.00015	mg/L	0.000066	-0.00154	mg/L	0.000662	43.08%
Vt	-2063.1	0.00504	mg/L	0.000082	0.0504	mg/L	0.00082	1.63%
Znt	129.6	0.00261	mg/L	0.000267	0.0261	mg/L	0.00267	10.26%

Sequence No.: 49
Sample ID: 2802090002_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 64
Date Collected: 2/29/2008 10:53:19
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090002_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	374883.7	84.6	%	1.74				2.06%
Yr	183609.4	95.1	%	0.19				0.20%
Alt	2052.5	0.582	mg/L	0.0109	1.16	mg/L	0.022	1.88%
Bat	1279.6	0.0171	mg/L	0.00013	0.0343	mg/L	0.00027	0.78%
Cat	360105.6	72.6	mg/L	0.17	145	mg/L	0.3	0.23%
Cdt	19.2	0.00071	mg/L	0.000034	0.00141	mg/L	0.000067	4.76%
Cot	7.2	0.00028	mg/L	0.000166	0.00055	mg/L	0.000332	60.34%
Crt	108347.4	1.37	mg/L	0.007	2.73	mg/L	0.015	0.55%
Cut	557.4	0.00142	mg/L	0.000346	0.00284	mg/L	0.000692	24.38%
Fet	138.9	0.223	mg/L	0.0027	0.446	mg/L	0.0053	1.20%
Kt	9319.9	8.35	mg/L	0.013	16.7	mg/L	0.03	0.15%
Mgt	86570.9	45.1	mg/L	0.07	90.1	mg/L	0.14	0.15%
Mot	152.1	0.0117	mg/L	0.00025	0.0233	mg/L	0.00049	2.11%
Nat	1950410.2	496	mg/L	1.2	993	mg/L	2.3	0.23%
Nit	35.3	0.00155	mg/L	0.000969	0.00310	mg/L	0.001937	62.53%
Vt	1674.7	0.0172	mg/L	0.00007	0.0344	mg/L	0.00014	0.41%
Znt	331.2	0.00665	mg/L	0.000003	0.0133	mg/L	0.00001	0.04%

Sequence No.: 50
Sample ID: 2802090003_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 65
Date Collected: 2/29/2008 10:57:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802090003_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	366426.8	82.7	%	0.06				0.07%
Yr	179606.4	93.0	%	3.56				3.83%
Alt	226.3	0.0642	mg/L	0.00059	0.128	mg/L	0.0012	0.92%
Bat	1362.2	0.0182	mg/L	0.00030	0.0365	mg/L	0.00060	1.64%
Cat	217325.8	43.8	mg/L	0.12	87.6	mg/L	0.24	0.27%
Cdt	41.7	0.00153	mg/L	0.000144	0.00306	mg/L	0.000288	9.40%
Cot	1.5	0.00006	mg/L	0.000231	0.00012	mg/L	0.000461	393.92%
Crt	177708.5	2.24	mg/L	0.009	4.49	mg/L	0.018	0.39%
Cut	140.7	0.00036	mg/L	0.000117	0.00072	mg/L	0.000234	32.59%
Fet	32.3	0.0518	mg/L	0.00441	0.104	mg/L	0.0088	8.51%
Kt	19089.5	17.1	mg/L	0.20	34.2	mg/L	0.40	1.18%
Mgt	59373.2	30.9	mg/L	0.49	61.8	mg/L	0.97	1.57%
Mot	198.0	0.0152	mg/L	0.00036	0.0304	mg/L	0.00072	2.37%
Nat	2272008.0	578	mg/L	0.2	1160	mg/L	0.4	0.03%
Nit	2.4	0.00010	mg/L	0.000390	0.00021	mg/L	0.000780	377.20%
Vt	2073.3	0.0243	mg/L	0.00017	0.0486	mg/L	0.00035	0.71%
Znt	145.2	0.00292	mg/L	0.000221	0.00584	mg/L	0.000443	7.59%

Sequence No.: 92
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 14:41:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	398422.8	89.9	%	0.27				0.30%
Yr	196191.0	102	%	0.4				0.35%
Alt	14898.3	4.22	mg/L	0.015	4.22	mg/L	0.015	0.35%
QC value less than the lower limit for Al Recovery = 84.49%								
Bat	396565.9	5.31	mg/L	0.025	5.31	mg/L	0.025	0.47%
QC value within limits for Ba Recovery = 106.18%								
Cat	248100.4	50.0	mg/L	0.23	50.0	mg/L	0.23	0.46%
QC value within limits for Ca Recovery = 99.97%								
Cdt	56187.0	2.09	mg/L	0.006	2.09	mg/L	0.006	0.29%
QC value within limits for Cd Recovery = 104.30%								
Cot	136789.8	5.24	mg/L	0.015	5.24	mg/L	0.015	0.29%
QC value within limits for Co Recovery = 104.83%								
Crt	412517.9	5.21	mg/L	0.001	5.21	mg/L	0.001	0.02%
QC value within limits for Cr Recovery = 104.12%								
Cut	2017983.3	5.15	mg/L	0.149	5.15	mg/L	0.149	2.89%
QC value within limits for Cu Recovery = 102.91%								
Fet	3014.7	4.84	mg/L	0.009	4.84	mg/L	0.009	0.18%
QC value within limits for Fe Recovery = 96.87%								
Mot	68548.6	5.26	mg/L	0.014	5.26	mg/L	0.014	0.26%
QC value within limits for Mo Recovery = 105.11%								
Nit	122135.2	5.36	mg/L	0.011	5.36	mg/L	0.011	0.21%
QC value within limits for Ni Recovery = 107.25%								
Vt	900787.2	5.22	mg/L	0.004	5.22	mg/L	0.004	0.08%
QC value within limits for V Recovery = 104.39%								
Znt	269223.0	5.37	mg/L	0.005	5.37	mg/L	0.005	0.09%
QC value within limits for Zn Recovery = 107.50%								

QC Failed. Retry.

Sequence No.: 93
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 14:43:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	396135.3	89.4	%	1.22				1.36%
Yr	196510.0	102	%	1.6				1.60%
Alt	14488.6	4.11	mg/L	0.047	4.11	mg/L	0.047	1.14%
QC value less than the lower limit for Al Recovery = 82.17%								
Bat	393618.3	5.27	mg/L	0.028	5.27	mg/L	0.028	0.53%
QC value within limits for Ba Recovery = 105.39%								
Cat	243850.7	49.1	mg/L	0.37	49.1	mg/L	0.37	0.76%
QC value within limits for Ca Recovery = 98.26%								
Cdt	55681.2	2.07	mg/L	0.012	2.07	mg/L	0.012	0.60%
QC value within limits for Cd Recovery = 103.36%								
Cot	135565.3	5.19	mg/L	0.031	5.19	mg/L	0.031	0.60%
QC value within limits for Co Recovery = 103.89%								
Crt	409225.5	5.16	mg/L	0.062	5.16	mg/L	0.062	1.20%
QC value within limits for Cr Recovery = 103.28%								
Cut	2018873.4	5.15	mg/L	0.100	5.15	mg/L	0.100	1.94%
QC value within limits for Cu Recovery = 102.96%								
Fet	3090.1	4.96	mg/L	0.131	4.96	mg/L	0.131	2.64%
QC value within limits for Fe Recovery = 99.30%								
Mot	67983.1	5.21	mg/L	0.038	5.21	mg/L	0.038	0.73%
QC value within limits for Mo Recovery = 104.24%								
Nit	121380.5	5.33	mg/L	0.049	5.33	mg/L	0.049	0.93%

QC value within limits for Ni Recovery = 106.58%

Vt	892956.8	5.17 mg/L	0.055	5.17 mg/L	0.055	1.07%

QC value within limits for V Recovery = 103.48%

Znt	267014.7	5.33 mg/L	0.039	5.33 mg/L	0.039	0.74%

QC value within limits for Zn Recovery = 106.62%

QC Failed. Continue with analysis.

Sequence No.: 94
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 14:45:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	400872.2	90.5	%	0.30				0.33%
Yr	194275.8	101	%	0.8				0.76%
Alt	14513.7	4.12	mg/L	0.026	4.12	mg/L	0.026	0.63%
QC value less than the lower limit for Al Recovery = 82.31%								
Bat	395634.3	5.30	mg/L	0.021	5.30	mg/L	0.021	0.40%
QC value within limits for Ba Recovery = 105.93%								
Cat	241679.1	48.7	mg/L	0.63	48.7	mg/L	0.63	1.29%
QC value within limits for Ca Recovery = 97.39%								
Cdt	55963.1	2.08	mg/L	0.003	2.08	mg/L	0.003	0.16%
QC value within limits for Cd Recovery = 103.88%								
Cot	136345.6	5.22	mg/L	0.023	5.22	mg/L	0.023	0.45%
QC value within limits for Co Recovery = 104.49%								
Crt	412142.1	5.20	mg/L	0.015	5.20	mg/L	0.015	0.28%
QC value within limits for Cr Recovery = 104.02%								
Cut	2050926.0	5.23	mg/L	0.025	5.23	mg/L	0.025	0.48%
QC value within limits for Cu Recovery = 104.59%								
Fet	3062.6	4.92	mg/L	0.023	4.92	mg/L	0.023	0.48%
QC value within limits for Fe Recovery = 98.41%								
Mot	68483.5	5.25	mg/L	0.017	5.25	mg/L	0.017	0.32%
QC value within limits for Mo Recovery = 105.01%								
Nit	122332.5	5.37	mg/L	0.023	5.37	mg/L	0.023	0.44%
QC value within limits for Ni Recovery = 107.42%								
Vt	889799.1	5.16	mg/L	0.012	5.16	mg/L	0.012	0.23%
QC value within limits for V Recovery = 103.12%								
Znt	269204.5	5.37	mg/L	0.014	5.37	mg/L	0.014	0.27%
QC value within limits for Zn Recovery = 107.49%								

QC Failed. Continue with analysis.

Sequence No.: 95
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/29/2008 14:47:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	391087.7	88.3	%	1.08				1.22%
Yr	192407.2	99.6	%	0.20				0.20%
Alt	14444.5	4.10	mg/L	0.008	4.10	mg/L	0.008	0.18%
QC value less than the lower limit for Al Recovery = 81.92%								
Bat	398181.4	5.33	mg/L	0.028	5.33	mg/L	0.028	0.53%
QC value within limits for Ba Recovery = 106.61%								
Cat	242542.0	48.9	mg/L	0.05	48.9	mg/L	0.05	0.10%
QC value within limits for Ca Recovery = 97.73%								
Cdt	56386.5	2.09	mg/L	0.013	2.09	mg/L	0.013	0.62%
QC value within limits for Cd Recovery = 104.67%								
Cot	137553.0	5.27	mg/L	0.037	5.27	mg/L	0.037	0.70%
QC value within limits for Co Recovery = 105.41%								
Crt	414308.3	5.23	mg/L	0.035	5.23	mg/L	0.035	0.67%
QC value within limits for Cr Recovery = 104.57%								
Cut	2120908.8	5.41	mg/L	0.082	5.41	mg/L	0.082	1.52%

QC value within limits for Cu Recovery = 108.16%

Fet	3085.8	4.96 mg/L	0.182	4.96 mg/L	0.182	3.67%

QC value within limits for Fe Recovery = 99.16%

Mot	68851.2	5.28 mg/L	0.033	5.28 mg/L	0.033	0.63%

QC value within limits for Mo Recovery = 105.57%

Nit	122931.4	5.40 mg/L	0.038	5.40 mg/L	0.038	0.71%

QC value within limits for Ni Recovery = 107.94%

Vt	919838.2	5.33 mg/L	0.075	5.33 mg/L	0.075	1.41%

QC value within limits for V Recovery = 106.58%

Znt	270082.0	5.39 mg/L	0.040	5.39 mg/L	0.040	0.73%

QC value within limits for Zn Recovery = 107.84%

QC Failed. Continue with analysis.

Sequence No.: 96
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/29/2008 14:50:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	422943.2	95.4	%	1.13				1.19%
Yr	203657.4	105	%	4.0				3.80%
Al†	-13.1	-0.00371	mg/L	0.006579	-0.00371	mg/L	0.006579	177.17%
QC value within limits for Al		Recovery = Not calculated						
Ba†	7.0	0.00009	mg/L	0.000053	0.00009	mg/L	0.000053	56.53%
QC value within limits for Ba		Recovery = Not calculated						
Ca†	29.4	0.00593	mg/L	0.003862	0.00593	mg/L	0.003862	65.10%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	23.3	0.00086	mg/L	0.000064	0.00086	mg/L	0.000064	7.41%
QC value within limits for Cd		Recovery = Not calculated						
Co†	9.6	0.00037	mg/L	0.000005	0.00037	mg/L	0.000005	1.33%
QC value within limits for Co		Recovery = Not calculated						
Cr†	99.7	0.00126	mg/L	0.000102	0.00126	mg/L	0.000102	8.11%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-52.5	-0.00013	mg/L	0.000051	-0.00013	mg/L	0.000051	38.38%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	1.6	0.00263	mg/L	0.001545	0.00263	mg/L	0.001545	58.81%
QC value within limits for Fe		Recovery = Not calculated						
Mo†	31.5	0.00241	mg/L	0.000032	0.00241	mg/L	0.000032	1.32%
QC value within limits for Mo		Recovery = Not calculated						
Ni†	20.4	0.00090	mg/L	0.000265	0.00090	mg/L	0.000265	29.57%
QC value within limits for Ni		Recovery = Not calculated						
V†	50.7	0.00030	mg/L	0.000013	0.00030	mg/L	0.000013	4.40%
QC value within limits for V		Recovery = Not calculated						
Zn†	17.5	0.00034	mg/L	0.000029	0.00034	mg/L	0.000029	8.44%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

Analytical Sequence
Method: 200.7&6010_070703

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	LINEARITY	QC Passed
5	10	ICSA	QC Passed
6	11	ICSAB	QC Failed
7	0	Wash	QC Passed
8	12	QC-25 1ppm	QC Failed
9	12	QC-25 1ppm	QC Failed
10	4	CCV	QC Passed
11	0	ICB	QC Passed
12	20	MRL	QC Failed
13	20	MRL	QC Failed
14	38	MBLANK	Analyzed
15	39	MRL2007	Analyzed
16	25	SOULTION CHECK	Analyzed
17	40	LCS	Analyzed
18	41	LCSD	Analyzed
19	42	2802070519_2X	Analyzed
20	43	2802070519_2XMS	Analyzed
21	44	2802070519_2XMSD	Analyzed
22	45	2802080261_2X	Analyzed
23	46	2802080261_2XMS	Analyzed
24	4	CCV	QC Passed
25	0	CCB	QC Passed
26	47	2802080261_2XMSD	Analyzed
27	48	2802080260_2X	Analyzed
28	49	2802070518_2X	Analyzed
29	50	2802080254_2X	Analyzed
30	51	2802080259_2X	Analyzed
31	52	2802080262_5X	Analyzed
32	53	2802080263_5X	Analyzed
33	54	2802080264_2X	Analyzed
34	55	2802080265_10X	Analyzed
35	56	2802080267_10X	Analyzed
36	4	CCV	QC Passed
37	0	CCB	QC Failed
38	0	CCB	QC Failed
39	0	CCB	QC Failed
40	5	MCV	QC Failed
41	5	MCV	QC Failed
42	57	2802080271_2X	Analyzed
43	58	2802080272_2X	Analyzed
44	59	2802082273_2X	Analyzed
45	60	2802080274_10X	Analyzed
46	61	2802080277_10X	Analyzed
47	62	2802080319_5X	Analyzed
48	63	2802090001_10X	Analyzed
49	64	2802090002_2X	Analyzed
50	65	2802090003_2X	Analyzed
51	66	MBLANK	Analyzed
52	4	CCV	QC Passed
53	0	CCB	QC Passed
54	21	MRL	Analyzed
55	67	MRL2007	Analyzed
56	68	LCS	Analyzed
57	69	LCSD	Analyzed
58	70	2802070496_2X	Analyzed
59	71	2802070496_2XMS	Analyzed
60	72	28020470496_2XMSD	Analyzed
61	73	2802070497_2X	Analyzed
62	74	2802070497_2SMS	Analyzed
63	75	2802070497DUP_2X	Analyzed
64	4	CCV	QC Failed
65	4	CCV	QC Passed
66	0	CCB	QC Passed
67	5	MCV	QC Failed

68	5	MCV	QC Failed
69	5	MCV	QC Failed
70	76	2802070485_5X	Analyzed
71	77	2802070486_2X	Analyzed
72	78	2802070487_2X	Analyzed
73	79	2802070488_2X	Analyzed
74	80	2802070489_2X	Analyzed
75	81	2802070490_2X	Analyzed
76	82	2802070491_5X	Analyzed
77	83	2802070492_2X	Analyzed
78	84	2802070493_2X	Analyzed
79	85	2802070494_2X	Analyzed
80	4	CCV	QC Failed
81	4	CCV	QC Failed
82	4	CCV	QC Failed
83	0	CCB	QC Passed
84	86	2802070495_2X	Analyzed
85	87	2802070498_5X	Analyzed
86	88	2802070500_10X	Analyzed
87	89	2802070501_10X	Analyzed
88	90	2802070502_2X	Analyzed
89	91	2802070503_10X	Analyzed
90	92	2802070504_2X	Analyzed
91	93	2802070512_5X	Analyzed
92	4	ECV	QC Failed
93	4	ECV	QC Failed
94	4	ECV	QC Failed
95	4	ECV	QC Failed
96	0	ECB	QC Passed

Standard Preparation Worksheet & Certificate of Analysis

Reagent	Lot #			
HNO3 R# 100450		HCL R# 100446		
IS = Yttrium(ME0709008)0.75mL + Scandium (ME0710007)0.5mL to 1000mL w/ 2% HNO3				
Standards	Lot #	Exp. Date	Dilution	
Calibration	ME0712001	(12/01/08)	1:10 ME0801001	
(Prepare daily)	ME0712001	(12/01/08)	1:10	
			CCV/ECV	MCV
CCV/MCV/ECV	ME0710008	(04/17/09)	1:20 ME0801002	1:40 ME0801003
(Prepare daily)				
Spike/LCS	ME0709009	(03/11/09)	1:100 ME0801005	
(Prepare daily)	ME0801004	(07/11/08)	1:100	
	ME0709007	(08/16/08)	1:200	
MRL	ME0801007	(07/11/08)	1:100 ME0801008	
(Prepare daily)				
ICSA	ME0712003	(06/01/08)		
ICSAB	ME0712004	(06/01/08)		
QCS	ME0610005	(04/10/08)		
1ppm Check	ME0801010	(07/11/08)		
Linearity	ME0711002	(05/06/08)		
Method Sr/Ti/Sn/SiO2				
Calibration	ME0801012	(07/11/08)		
CCV/ECV	ME0801013	(03/31/08)		
QCS	ME0801012	(07/11/08)		
Spike/LCS	ME0801015	(03/31/08)	1:100	
(Prepare daily)				
MRL	ME0801014	(07/11/08)	1:100	
(Prepare daily)				
Method Li				
Std/ICV/MRL	ME0801009	(07/11/08)	1:1000, 200, 40, 10	
(Prepare daily)				
QCS	ME0801011	(07/11/08)	1:10	
(Prepare daily)				
LCS/Spike	ME0801011	(07/11/08)	1:50	
(Prepare daily)				
ccv	ME0801011	(07/11/08)	1:40	
(Prepare daily)				

From May 2005: the calibration std for ICP should be ME0505010,011 not ME0408010

Intial: STE
Date: 12/01/07

METALS STANDARD DOCUMENTATION

Standard: ICPCalibration Stock Std #1
Date Received/Prepped: 12/1/2007
Date Expired: 12/1/2008
Manufacturer: Inorganic Ventures
Matrix: 5% Nitric Acid
Amount: 500 mL

ME #: 0712001
By: STE
Lot #: A2-MEB243151
Certificate: Y
NIST SRM: Varies
Storage: Room Temp

Component	Comment	Conc. Unit:
Ca	(P/N MWH-ICAP-CAL-1)	1000 ug/ml
K		1000 ug/ml
Mg		1000 ug/ml
Na		1000 ug/ml
Al		100 ug/ml
As		100 ug/ml
Ba		100 ug/ml
Co		100 ug/ml
Cr		100 ug/ml
Cu		100 ug/ml
Fe		100 ug/ml
Mn		100 ug/ml
Ni		100 ug/ml
Pb		100 ug/ml
Se		100 ug/ml
Tl		100 ug/ml
V		100 ug/ml
Zn		100 ug/ml
Cd		50 ug/ml
Be		40 ug/ml
SR		30 ug/ml
Ag		20 ug/ml

INORGANIC VENTURES™
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CERTIFICATE OF ANALYSIS

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1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35-1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB243151**

ME 0712031

Matrix: 5% HNO3(abs)

1,000.00 µg/mL ea:
Ca, K, Mg, Na,

100.00 µg/mL ea:
Al, As, Ba, Co, Cr3, Cu, Fe, Mn, Ni, Pb, Se, Tl, V, Zn,

50.00 µg/mL ea:
Cd,

40.00 µg/mL ea:
Be,

30.00 µg/mL ea:
Sr,

20.00 µg/mL ea:
Ag

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	100.4 ± 0.3 µg/mL	Arsenic, As	100.1 ± 0.3 µg/mL	Barium, Ba	99.6 ± 0.4 µg/mL
Beryllium, Be	40.04 ± 0.08 µg/mL	Cadmium, Cd	50.15 ± 0.12 µg/mL	Calcium, Ca	1,000 ± 2 µg/mL
Chromium+3, Cr3	100.0 ± 0.2 µg/mL	Cobalt, Co	99.9 ± 0.2 µg/mL	Copper, Cu	100.0 ± 0.2 µg/mL
Iron, Fe	99.6 ± 0.1 µg/mL	Lead, Pb	100.0 ± 0.3 µg/mL	Magnesium, Mg	1,000 ± 4 µg/mL
Manganese, Mn	100.0 ± 0.3 µg/mL	Nickel, Ni	100.0 ± 0.3 µg/mL	Potassium, K	1,001 ± 5 µg/mL
Selenium, Se	100.0 ± 0.2 µg/mL	Silver, Ag	20.04 ± 0.02 µg/mL	Sodium, Na	1,002 ± 5 µg/mL
Strontium, Sr	30.04 ± 0.18 µg/mL	Thallium, Tl	99.7 ± 0.1 µg/mL	Vanadium, V	100.0 ± 0.3 µg/mL
Zinc, Zn	100.0 ± 0.3 µg/mL				

Certified Density: 1.055 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212	Ag	Volhard	999a	999a
Al	ICP Assay	3101a	010808	Al	EDTA	928	928
As	ICP Assay	3103a	010713	As	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	992907	Ba	Gravimetric		See Sec. 4.2
Be	Gravimetric		See Sec. 4.2	Be	ICP Assay	3105a	892707
Ca	EDTA	928	928	Ca	ICP Assay	3109a	000622
Cd	ICP Assay	3108	890312	Cd	EDTA	928	928
Co	EDTA	928	928	Co	ICP Assay	3181	000630
Cr3	ICP Assay	3112a	990607	Cr3	Calculated		See Sec. 4.2
Cu	EDTA	928	928	Cu	ICP Assay	3114	891811
Fe	ICP Assay	3126a	000606	Fe	EDTA	928	928
K	ICP Assay	3141a	891312	K	Gravimetric		See Sec. 4.2
Mg	EDTA	928	928	Mg	ICP Assay	3131a	991107
Mn	EDTA	928	928	Mn	ICP Assay	3132	890903
Na	ICP Assay	3152a	990907	Na	Gravimetric		See Sec. 4.2
Ni	EDTA	928	928	Ni	ICP Assay	3136	000612
Pb	EDTA	928	928	Pb	ICP Assay	3128	991504
Se	ICP Assay	3149	992106	Se	Gravimetric		See Sec. 4.2
Sr	ICP Assay	3153a	990906	Sr	EDTA	928	928
Tl	Gravimetric		See Sec. 4.2	Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706	V	EDTA	928	928
Zn	EDTA	928	928	Zn	ICP Assay	3168a	001402

4.2 **BALANCE CALIBRATION** - All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is

4.3 **THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240.Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A Glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
HPLC, IC, TLC, ISE, IR, NMR, UV/VIS, MS, Capillary Eletrophoresis, Potentiometry, Wet Chemistry and Voltammetry
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

This CRM was manufactured using 18 megohn doubly deionized water that has been filtered through a 0.2 micron filter.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at 20 ± 4°C. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to in-house procedure IV-MPM-004 and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105**
Recognized by:
Registrar Accreditation Board (ANSI-RAB)
Standards Council of Canada (SCC)
Dutch Council for Accreditation (RVA)
Entidad Mexicana de Acreditacion, a.c.(EMA)
Members of IQ Net International Certification Network:
Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter) , Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland(PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 **ISO/IEC 17025:2005 "General Requirements for the Competence of Testing and Calibration"**
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"**
- Reference Materials Production - Accredited A2LA Certificate Number 883.02
A2LA Mutual Recognition Agreement Partners:
Australia (NATA), Austria (BmwA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS, Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission** - Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission** - Reporting Defects and Non-Compliance

10.6 **MIL-STD-45662A (Obsolete/Observed)**

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special environmental controls that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: November 19, 2007
Expiration Date:

EXPIRES
01 DEC 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Angela Sinclair, Product Documentation Administrator

Angela Sinclair

Certificate Approved By: Katalin Le, QC Manager

Katalin Le

Certifying Officer: Paul Gaines, PhD., Senior Technical Director

Paul R Gaines

Intial: STE
Date: 10/19/07

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV/QCS Stock Standard
Date Received/Prepped: 10/19/2007
Date Expired: 4/17/2009
Manufacturer: CPI
Matrix: 5% HNO3 = tr HF
Amount: 100 mL x 10

ME #: 0710008
By: STE
Lot #: 07J154
Certificate: Y
NIST SRM: Various
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag	P/N 4400-061003RH01	20 ppm
Al		100 ppm
As		100 ppm
B		50 ppm
Ba		100 ppm
bE		40 ppm
Ca		1000 ppm
Cd		50 ppm
Co		100 ppm
Cr		100 ppm
Cu		100 ppm
Fe		100 ppm
K		1000 ppm
Mg		1000 ppm
Mn		100 ppm
Mo		100 ppm
Na		1000 ppm
Ni		100 ppm
Pb		100 ppm
Sb		100 ppm
Se		100 ppm
Tl		100 ppm
V		100 ppm
Zn		100 ppm
Sr		20 ppm
Sn		20 ppm
Ti		20 ppm

CPI INTERNATIONAL

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Expiry: 4/17/2009

Certificate of Analysis

Part Number: **4400-061003RH01**
Lot Number: **07J154**
Shelf Life: **18 months**

ME 07100C8
Rec'd: 10/19/07
STE

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

Ag	20	K	1000	Sr	20
Al	100	Mg	1000	Sn	20
As	100	Mn	100	Ti	20
B	50	Mo	100		
Ba	100	Na	1000		
Be	40	Ni	100		
Ca	1000	Pb	100		
Cd	50	Sb	100		
Co	100	Se	100		
Cr	100	TL	100		
Cu	100	V	100		
Fe	100	Zn	100		

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Intial: STE
Date: 9/13/07

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV Stock Standard
Date Received/Prepped: 9/13/2007
Date Expired: 3/11/2009
Manufacturer: CPI International
Matrix: 5% HNO3 AND 0.1% HF
Amount: 100 mL

ME #: 0709009
By: STE
Lot #: 07I040
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Fe	P/N 4400-050314RH01	500
Al	(10 bottles)	200
Ba		100
Co		100
Cr		100
Cu		100
Mo		100
Sr		100
Ti		100
V		100
Zn		50
Ag		50
Ba		50
Mn		50
Ni		50
Sb		50
As		20
Cd		20
Pb		20
Se		20
Tl		20
Sn		100
Be		5
U		20

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1000 CS Amsterdam Fax +31 20 420 28 36
The Netherlands www.cpiinternational.com

Expiry: 3/11/2009

Certificate of Analysis

Part Number: **4400-050314RH01**
Lot Number: **07I040**
Shelf Life: **18 months**

ME 07 09 009

MWH Labs
5% HNO3 + 0.1% HF
#REF!

Concentrations in ug/mL ± 0.5%

Fe	500	B	50
Al	200	Mn	50
Ba	100	Ni	50
Co	100	Sb	50
Cr	100	As	20
Cu	100	Cd	20
Mo	100	Pb	20
Sr	100	Se	20
Ti	100	TL	20
V	100	Sn	100
Zn	100	Be	5
Ag	50	U	20

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Intial: WBH
Date: 1/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP Spike Solution	**ME #:**	0801004
Date Received/Prepped:	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	VARIOUS
Manufacturer:	MWH-wbh	**Certificate:**	
Matrix:	2%HNO3	**NIST SRM:**	
Amount:	100mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
AS	8.0mL ME07090023/100mL	80	ppm
PB	8.0mL ME0704013/100mL	80	ppm
SE	8.0mL ME0703001/100mL	80	ppm
TL	8.0mL ME0702006/100mL	80	ppm

Intial: STE
Date: 9/24/07

METALS STANDARD DOCUMENTATION

Standard: As Stock Standard
Date Received/Prepped: 9/24/2007
Date Expired: 10/1/2008
Manufacturer: Inorganic Ventures
Matrix: 1.4% HNO3
Amount: 100 mL X2

ME #: 0709023
By: STE
Lot #: A2-AS02035
Certificate: Y
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
As	PN: CGAS1-1	1000 ug/ml

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CERTIFICATE OF ANALYSIS

1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 DESCRIPTION OF CRM — 1000 µg/mL Arsenic in 1.4% (abs) HNO3

Catalog Number:	CGAS1-1, CGAS1-2, and CGAS1-5
Lot Number:	**A2-AS02035**
Starting Material:	As Polycrystaline lump
Starting Material Purity (%):	99.998288
Starting Material Lot No:	23444
Matrix:	1.4% (abs) HNO3

ME0709023

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1000 ± 6 µg/mL

Certified Density: 1.010 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** **1000 ± 6 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION -** All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-98.

4.3 **THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.

4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Al	0.00047	M	Dy	< 0.02998	O	Li	< 0.00002	M	Pr	< 0.00150	M	Te	< 0.14992
O	Sb	< 0.01000	M	Er	< 0.02499	M	Lu	< 0.00200	O	Re	< 0.01000	M	Tb	< 0.00150
s	As		M	Eu	< 0.01499	O	Mg	0.00012	M	Rh	< 0.00500	M	Tl	< 0.00500
M	Ba	< 0.04997	M	Gd	< 0.00500	O	Mn	0.00001	M	Rb	< 0.00500	M	Th	< 0.00500
M	Be	< 0.00250	M	Ga	< 0.00500	O	Hg	< 0.01200	M	Ru	< 0.01000	M	Tm	< 0.00200
M	Bi	< 0.00200	M	Ge	< 0.02998	M	Mo	< 0.01000	M	Sm	< 0.00500	O	Sn	0.00076
O	B	0.00152	M	Au	< 0.01499	M	Nd	< 0.01000	M	Sc	< 0.04997	M	Ti	< 0.24987
M	Cd	< 0.01499	M	Hf	< 0.01000	O	Ni	< 0.00200	M	Se	< 0.03998	M	W	< 0.04997
O	Ca	0.00122	M	Ho	< 0.00250	O	Nb	< 0.00200	O	Si	0.00893	M	U	< 0.01000
M	Ce	< 0.02499	M	In	< 0.04997	n	Os		M	Ag	< 0.01000	M	V	< 0.01000
M	Cs	< 0.00150	M	Ir	< 0.02499	M	Pd	< 0.02499	O	Na	0.00228	M	Yb	< 0.00500
M	Cr	< 0.02499	O	Fe	0.00177	O	P	< 0.00260	M	Sr	< 0.00250	M	Y	< 0.19990
M	Co	< 0.01499	M	La	< 0.00250	M	Pt	< 0.01000	O	S	< 0.00000	O	Zn	0.00006
M	Cu	< 0.02998	M	Pb	< 0.01499	O	K	0.00057	M	Ta	< 0.03498	M	Zr	< 0.02499

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
ICP-MS, ICP-OES, FAAS, GFAA, XRF, and DCP
For the validation of analytical methods
For the preparation of "working reference samples"
For interference studies and the determination of correction coefficients
For detection limit and linearity studies
For additional intended uses, contact Technical Staff

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at 20 ± 4°C. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.9216; mix of +3 and +5; 6; H3AsO4 and HAsO2

Chemical Compatibility -Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - As0 (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphoric form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (One gram of powered sample is fused in a Ni0 crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of the sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni0 crucible. The fuseate is extracted with water and acidified with HNO3)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES189.042 nm	0.05 / 0.005 µg/mL	1	atom	Cr
ICP-OES193.696 nm	0.1 / 0.01 µg/mL	1	atom	V, Ge
ICP-OES 228.812 nm	0.1 / 0.01 µg/mL	1	atom	Cd, Pt, Ir, Co
ICP-MS 75 amu	20 ppt	n/a	M+	40Ar35Cl, 59Co16O, 36Ar38Ar1H, 38Ar37Cl, 6Ar39K, 150Nd2+,150Sm2+

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to an in house procedure and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105
Recognized by:
Registrar Accreditation Board (ANSI-RAB)
Standards Council of Canada (SCC)
Dutch Council for Accreditation (RVA)
Entidad Mexicana de Acreditacion, a.c.(EMA)
Members of IQ Net International Certification Network:
Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter) , Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland(PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02
A2LA Mutual Recognition Agreement Partners:
Australia (NATA), Austria (BmwA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS, Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission
- Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance

10.6 MIL-STD-45662A (Obsolete/Observed)

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: February 13, 2007

Expiration Date:

EXPIRES
1 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product Documentation Administrator

Certificate Approved By: Katalin Le, QC Manager

Certifying Officer: Paul Gaines, PhD., Senior Technical Director

Intial: WBH
Date: 4/16/07

METALS STANDARD DOCUMENTATION

Standard:	Lead Stock Standard	**ME #:**	0704013
Date Received/Prepped:	4/16/2007	**By:**	WBH
Date Expired:	10/11/2008	**Lot #:**	07A097
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3128
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Pb	P/N S4400-1000281	1000 ppm

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CERTIFICATE OF ANALYSIS

P/N S4400-1000281
P/N 4400-1000281

Single-Element Lead Standard
Pb in 2% HNO_3
1000 ± 3 µg/mL

1270704013

Lot # 07A097

Material Source: Lead Metal
Source Purity: 99.995 %
Specific Gravity: 1.009 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3128. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	10.3	0.1	Cu	58	0.1	Pb	X	0.1	K	ND	70	Tl	0.25	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	2	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.22	0.1	Eu	ND	0.1	Mg	1.4	0.2	Rh	IN	0.1	Sn	ND	0.1
Be	0.58	0.1	Gd	ND	0.1	Mn	3.8	1	Rb	ND	0.1	Ti	0.58	0.1
Bi	0.7	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	0.17	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Sc	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	0.9	0.1	Si	31	8	Yb	ND	0.1
Ca	25	7	Ho	ND	0.1	Nb	ND	0.1	Ag	6.1	0.1	Y	ND	0.1
Ce	ND	0.1	I	0.1	0.2	Os	ND	0.1	Na	3.5	1	Zn	23	2
Cs	0.26	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	ND	0.1	Zr	INT	0.1
Cr	ND	1	Fe	ND	30	P	ND	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the United States or +31 20 638 05 97 in Europe.

Intial: WBH
Date: 3/5/07

METALS STANDARD DOCUMENTATION

Standard:	Selenium Stock Standard	**ME #:**	0703001
Date Received/Prepped:	3/5/2007	**By:**	wbh
Date Expired:	8/22/2008	**Lot #:**	6.00E+228
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3148
Amount:	100 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Se	P/N # S4400-1000491	1000	ppm

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CERTIFICATE OF ANALYSIS

P/N 4400-1000491
P/N S4400-1000491

M70703001

Single-Element Selenium Standard
Se in 2% HNO_3
1000 ± 3 µg/mL

Lot # 06E228

Material Source: Selenium Metal
Source Purity: 99.99%
Specific Gravity: 1.011 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3148. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	1.8	0.1	Cu	0.4	0.1	Pb	0.3	0.1	K	ND	70	Tl	3.6	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	ND	0.1	Eu	ND	0.1	Mg	1.1	0.2	Rh	ND	0.1	Sn	ND	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	ND	1	Rb	ND	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	0.6	0.1	Sm	ND	0.1	U	ND	0.1
Br	INT	10	Au	ND	0.1	Nd	ND	0.1	Se	X	6	V	ND	1
Cd	0.4	0.1	Hf	ND	0.1	Ni	0.6	0.1	Si	40	8	Yb	ND	0.1
Ca	5	7	Ho	ND	0.1	Nb	INT	0.1	Ag	0.8	0.1	Y	ND	0.1
Ce	ND	0.1	I	0.5	0.2	Os	ND	0.1	Na	3.8	1	Zn	ND	2
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	ND	0.1	Zr	INT	0.1
Cr	ND	1	Fe	ND	30	P	ND	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Thallium 1000ppm Stock Std	**ME #:**	0702006
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	06H213
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3158
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Tl	P/N S4400-1000581	1000 ppm

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MF0702006

CERTIFICATE OF ANALYSIS

P/N 4400-1000581
P/N S4400-1000581

Single Element Thallium Standard
Tl in 2% HNO_3
1000 ± 3 µg/mL

Lot # 06H213

Material Source: Thallium metal
Source Purity: 99.999%
Specific Gravity: 1.015 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3158. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

	ppb	DL		ppb	DL		Ppb	DL		ppb	DL		ppb	DL
Al	13.3	0.1	Cu	9.3	0.1	Pb	41	0.1	K	ND	70	Tl	X	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.37	0.1	Eu	ND	0.1	Mg	1.7	0.2	Rh	ND	0.1	Sn	ND	0.1
Be	0.67	0.1	Gd	ND	0.1	Mn	ND	1	Rb	ND	0.1	Ti	0.45	0.1
Bi	0.12	0.1	Ga	ND	0.1	Hg	0.16	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	0.21	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cd	1.6	0.1	Hf	ND	0.1	Ni	1.1	0.1	Si	46	8	Yb	ND	0.1
Ca	51	7	Ho	ND	0.1	Nb	ND	0.1	Ag	0.3	0.1	Y	ND	0.1
Ce	ND	0.1	I	0.4	0.2	Os	ND	0.1	Na	3.3	1	Zn	14.7	2
Cs	0.24	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	ND	0.1	Zr	ND	0.1
Cr	ND	1	Fe	ND	30	P	20	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654.

Intial: STE
Date: 9/13/07

METALS STANDARD DOCUMENTATION

Standard:	DAT MW Standard	**ME #:**	0709007
Date Received/Prepped:	9/13/2007	**By:**	STE
Date Expired:	8/16/2008	**Lot #:**	07B086
Manufacturer:	CPI International	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	100 mL	**Storage:**	Room Temp

Component	Comment	Conc. Unit:
Na	P/N: 4400-130309	10000 ug/L
Ca		10000 ug/L
Mg		4000 ug/L
K		4000 ug/L

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CERTIFICATE OF ANALYSIS

P/N: 4400-130309
Lot Number: 07B086
Shelf Life: 18 months
Expiration Date: 08/16/2008

ME0709CC7

MWH
Dat MW Standard
µg/mL ± 0.5% in 5% HNO_3

Na 10,000 Ca 10,000 Mg 4,000 K 4,000

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Date: wbh 1/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Working Stock Solu	**ME #:**	0801007
Date Received/Prepped:	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	10mL ME0709020 / 100mL	5 ppm
Sb		5 ppm
As		10 ppm
Ba		2 ppm
Be		0.1 ppm
Ba		5 ppm
Cd		0.5 ppm
Ca		100 ppm
Cr		1 ppm
Co		5 ppm
Cu		1 ppm
Fe		2 ppm
Pb		2 ppm
Li		10 ppm
Mg		0.2 ppm
Mn		2 ppm
Mo		2 ppm
Ni		100 ppm
K		10 ppm
Se		1 ppm
Ag		100 ppm
Na		2 ppm
Tl		0.2 ppm
V		10 ppm
Zn		0.1 ppm
Ti		2 ppm
Sr		1 ppm
Sn		20 ppm

Intial: SE
Date: 9/20/07

METALS STANDARD DOCUMENTATION

Standard: ICP MRL Stock Standard
Date Received/Prepped: 9/20/2007
Date Expired: 9/18/2008
Manufacturer: CPI
Matrix: 2% HNO3 + tr HF
Amount: 100 mL

ME #: 0709020
By:
Lot #: 06I162
Certificate: Y
NIST SRM:
Room temp. storage

Component	Comment	Conc. Unit:
Al	P/N 4400-060915RHO1	50 ppm
Sb		50 ppm
As		100 ppm
Ba		20 ppm
Be		1 ppm
Ba		50 ppm
Cd		5 ppm
Ca		1000 ppm
Cr		10 ppm
Co		50 ppm
Cu		10 ppm
Fe		20 ppm
Pb		20 ppm
Li		1 ppm
Mg		100 ppm
Mn		2 ppm
Mo		20 ppm
Ni		20 ppm
K		1000 ppm
Se		100 ppm
Ag		10 ppm
Na		1000 ppm
Tl		100 ppm
V		2 ppm
Zn		20 ppm
Ti		20 ppm
Sr		10 ppm
Sn		200 ppm

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Innovative Solutions in Analytical Science and Technology

ME07090020

Expiry 9/18/2008

Certificate of Analysis

Part Number: **4400-060915RH01**
Lot Number: **06I162**
Shelf Life: **12 months**

MWH
Custom Standard
2% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

Al	50	Pb	20	Zn	20
Sb	50	Li	1	Ti	20
As	100	Mg	100	Sr	10
Ba	20	Mn	2	Sn	200
Be	1	Mo	20		
B	50	Ni	20		
Cd	5	K	1000		
Ca	1000	Se	100		
Cr	10	Ag	10		
Co	50	Na	1000		
Cu	10	TL	100		
Fe	20	V	2		

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Intial: STE
Date: 12/1/07

METALS STANDARD DOCUMENTATION

Standard: Interference Check Standard (ICSA)
Date Received/Prepped: 12/1/2007
Date Expired: 6/1/2008
Manufacturer: MWH-STE
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0712003
By: STE
Lot #:
Certificate:
NIST SRM:
Room temp. storage

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500	250 ppm
Ca	25 mL in 500 mL	250 ppm
Fe		100 ppm
Mg		250 ppm

Intial: STE
Date: 12/01/07

METALS STANDARD DOCUMENTATION

Standard: ICPCalibration Stock Std #2
Date Received/Prepped: 12/1/2007
Date Expired: 12/1/2008
Manufacturer: Inorganic Ventures
Matrix: 5% Nitric Acid + Trace HF
Amount: 500 mL

ME #: 0712002
By: STE
Lot #: A2-MEB243152
Certificate: Y
NIST SRM: Varies
Storage: Room Temp

Component	Comment	Conc. Unit:
Mo	(P/N MWH-ICAP-CAL-2)	100 ug/ml
Sb		100 ug/ml
Sn		100 ug/ml
Ti		100 ug/ml
B		50 ug/ml
Mo		100 ug/ml

Intial: STE
Date: 12/01/08

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Standard (ICSAB	**ME #:**	0712004
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	6/1/2008	**Lot #:**	
Manufacturer:	MWH-STE	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500 (25 mL)	250 ppm
Ca	P/N 4400-INTB1-100 (2.5 mL)	250 ppm
Fe		100 ppm
Mg		250 ppm
Ag		0.5 ppm
Ba		0.25 ppm
Be		0.25 ppm
Cd		0.5 ppm
Co		0.25 ppm
Cr		0.25 ppm
Cu		0.25 ppm
Mn		0.25 ppm
Ni		0.5 ppm
Pb		0.5 ppm
V		0.25 ppm
Zn		0.5 ppm

Intial: WBH
Date: 10/17/06

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV Stock Standard
Date Received/Prepped: 10/17/2006
Date Expired: 4/10/2008
Manufacturer: CPI
Matrix: 5% HNO3 = tr HF
Amount: 100 mL x 10

ME #: 0610005
By: WBH
Lot #: 06j053
Certificate: Y
NIST SRM: Varius
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag		20 ppm
Al		100 ppm
As		100 ppm
B		50 ppm
Ba		100 ppm
bE		40 ppm
Ca		1000 ppm
Cd		50 ppm
Co		100 ppm
Cr		100 ppm
Cu		100 ppm
Fe		100 ppm
K		1000 ppm
Mg		1000 ppm
Mn		100 ppm
Mo		100 ppm
Na		1000 ppm
Ni		100 ppm
Pb		100 ppm
Sb		100 ppm
Se		100 ppm
Tl		100 ppm
V		100 ppm
Zn		100 ppm
Sr		20 ppm
Sn		20 ppm
Ti		20 ppm

CPI International

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Expiry: 4/10/2008

Certificate of Analysis

Part Number: **4400-061003RH01**
Lot Number: **06J053**
Shelf Life: **18 months**

M706100 25

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

Ag	20	K	1000	Sr	20
Al	100	Mg	1000	Sn	20
As	100	Mn	100	Ti	20
B	50	Mo	100		
Ba	100	Na	1000		
Be	40	Ni	100		
Ca	1000	Pb	100		
Cd	50	Sb	100		
Co	100	Se	100		
Cr	100	TL	100		
Cu	100	V	100		
Fe	100	Zn	100		

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

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Intial: Wbh
Date: 1/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP 1 PPM CHECK	**ME #:**	0801010
Date Received/Prepped	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	VARIOUS
Manufacturer:	MWH-wbh	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	**Storage:**	Room Tem

Component	Comment	Conc.	Unit:
Ag	5mL ME0708011 /500mL	1	mg/L
Al		1	mg/L
B		1	mg/L
Ba		1	mg/L
K		10	mg/L
Na		1	mg/L
Si		1	mg/L
As	5mL ME0708012 /500mL	1	mg/L
Be		1	mg/L
Ca		1	mg/L
Cd		1	mg/L
Co		1	mg/L
Cr		1	mg/L
Cu		1	mg/L
Fe		1	mg/L
Li		1	mg/L
Mg		1	mg/L
Mn		1	mg/L
Mo		1	mg/L
Ni		1	mg/L
Pb		1	mg/L
Sb		1	mg/L
Se		1	mg/L
Sr		1	mg/L
Ti		1	mg/L
Tl		1	mg/L
V		1	mg/L
Zn		1	mg/L

ME070[illegible]11

Intial: STE

Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	QC Check Standard 7		**ME #:** 0705011
Date Received/Prepped:	8/27/2007		**By:** STE
Date Expired:	8/31/2007		**Lot #:** 074438I
Manufacturer:	Crescent Chemical Co. Inc.		**Certificate:**
Matrix:	5% HNO3		**NIST SRM:**
Amount:		100	**Storage:** Room Temp.

Component	Comment	Conc. Unit:
Ag	Catalog No: QC-007.1	100 ug/mL
Al		100 ug/mL
B		100 ug/mL
Ba		100 ug/mL
K		1000 +/- 5 ug/mL
Na		100 ug/mL
Si		50 ug/mL

ME 07 08 011

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 7

CATALOG NO: QC-007.1

CONTENTS: See Below

MATRIX: 5% HNO_3/tr. F^- **LOT NO.:** 074438I

This solution is intended for use as a calibration standard for plasma emission spectroscopy (ICP or DCP). It is a multielement solution, that was prepared gravimetrically to contain the elements/concentrations shown below.

In order to verify the concentration, the final solution was checked against NIST SRMS: 3101a, 3104a, 3107, 3141a, 3150, 3151, and 3152a.

Concentrations are given in µg/mL unless noted otherwise.

Ag	**100**	**Al**	**100**	**B**	**100**	**Ba**	**100**	**K**	**1,000±5**
Na	**100**	**Si**	**50.0**						

Crescent Chemical Co. Inc.

Julie M. MacIntosh

QA Manager

EXPIRES: August 2008

CRESCENT CHEMICAL CO, INC., waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Crescent Chemical Co, Inc., 2 Oval Drive, Islandia, NY 11749
(516) 348-0333 - Fax (516) 348-0913

Intial: STE
Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	QC Check Standard 21	**ME #:** 0708012	
Date Received/Prepped:	8/27/2007	**By:** STE	
Date Expired:	8/31/2008	**Lot #:** 074438H	
Manufacturer:	Crescent Chemical Co. Inc.	**Certificate:**	
Matrix:	5% HNO3/tr. F/tr Tartaric Acid	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
As	Catalog No: QC-021.1	100 ug/mL
Be		100 ug/mL
Ca		100 ug/mL
Cd		100 ug/mL
Co		100 ug/mL
Cu		100 ug/mL
Fe		100 ug/mL
Li		100 ug/mL
Mg		100 ug/mL
Mn		100 ug/mL
Mo		100 ug/mL
Ni		100 ug/mL
Pb		100 ug/mL
Sb		100 ug/mL
Se		100 ug/mL
Sr		100 ug/mL
Ti		100 ug/mL
Tl		100 ug/mL
V		100 ug/mL
Zn		100 ug/mL

ME 07080I2

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 21

CATALOG NO: QC-021.1

CONTENTS: See Below

MATRIX: 5% HNO_3/tr. F^-/tr. Tartaric Acid **LOT NO.:** 074438H

This solution is intended for use as a calibration standard for plasma emission spectroscopy (ICP or DCP). It is a multielement solution, that was prepared gravimetrically to contain the elements/concentrations shown below.

In order to verify the concentration, the final solution was checked against NIST SRMS: 3102a, 3103a, 3105a, 3108, 3109a, 3112a, 3113, 3114, 3126a, 3128, 3129a, 3131a, 3132, 3134, 3136, 3149, 3153a, 3158, 3162a, 3165, and 3168a.

Concentrations are given in µg/mL unless noted otherwise.

As 100	**Be 100**	**Ca 100**	**Cd 100**	**Co 100**
Cr 100	**Cu 100**	**Fe 100**	**Li 100**	**Mg 100**
Mn 100	**Mo 100**	**Ni 100**	**Pb 100**	**Sb 100**
Se 100	**Sr 100**	**Ti 100**	**Tl 100**	**V 100**
Zn 100				

Crescent Chemical Co. Inc.

Julie M. Macanton

QA Manager

EXPIRES: August 2008

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Intial: STE
Date: 11/6/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped 11/6/2007
Date Expired: STE 11/6/07 ~~5/6/2008~~ ~~2/6/2008~~
Manufacturer: MWH-STE
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0711002
By: STE
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Ca	15.0 mL ME0702002/500 mL	300 ppm
K	15.0 mL ME0702005/ 500 mL	300 ppm
Mg	10.0 mL ME0702004/ 500 mL	200 ppm
Na	15 mL ME0702003/ 500 mL	300 ppm
Fe	5.0 mL ME0701008/ 500 mL	100 ppm

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Calcium 10000ppm Stock Std	**ME #:**	0702002
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B065
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	4% HNO3	**NIST SRM:**	3109a
Amount:	250 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Ca	P/N 4400-10M91	10000	ppm

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CERTIFICATE OF ANALYSIS

P/N 4400-10M91
P/N S4400-10M91

1807026002

Single-Element Calcium Standard
Ca in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B065

Material Source: Calcium Carbonate ($CaCO_3$)
Source Purity: 99.997%
Specific Gravity: 1.035 @ 21 °C

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3109a. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	7	0.1	Cu	1.7	0.1	Pb	0.23	0.1	K	ND	70	Tl	0.27	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	1.5	0.1	Eu	ND	0.1	Mg	38	0.2	Rh	ND	0.1	Sn	ND	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	ND	1	Rb	ND	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	1.5	4	Ge	ND	0.1	Mo	ND	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	3	0.1	Si	47	8	Yb	ND	0.1
Ca	X	7	Ho	ND	0.1	Nb	ND	0.1	Ag	ND	0.1	Y	ND	0.1
Ce	ND	0.1	I	0.27	0.2	Os	ND	0.1	Na	11.6	1	Zn	3.5	2
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	55	0.1	Zr	ND	0.1
Cr	ND	1	Fe	INT	30	P	ND	10	Ta	ND	0.1			
Co	INT	0.1	La	0.41	0.1	Pt	ND	0.1	Te	ND	0.1			

INT=Interference from Major Element ND=None Detected X=Major Element DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Sodium 10000ppm Stock Std	**ME #:**	0702003
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B057
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	1% HNO3	**NIST SRM:**	3152a
Amount:	250 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Na	P/N 4400-10M521	10000	ppm

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CERTIFICATE OF ANALYSIS

M20702003

P/N 4400-10M521
P/N S4400-10M521

Single-Element Sodium Standard
Na in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B057

Material Source: Sodium Nitrate ($NaNO_3$)
Source Purity: 99.99%
Specific Gravity: 1.053 @ 21 °C

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3152a. Trace impurities of the standard solution at 1000µg/mL were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	1.5	0.1	Cu	0.45	0.1	Pb	ND	0.1	K	ND	70	Tl	ND	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.13	0.1	Eu	ND	0.1	Mg	2.3	0.2	Rh	ND	0.1	Sn	ND	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	ND	1	Rb	ND	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	ND	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	0.4	0.1	Si	50	8	Yb	ND	0.1
Ca	120	7	Ho	ND	0.1	Nb	ND	0.1	Ag	ND	0.1	Y	ND	0.1
Ce	ND	0.1	I	ND	0.2	Os	ND	0.1	Na	X	1	Zn	2.9	2
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	1	0.1	Zr	ND	0.1
Cr	ND	1	Fe	ND	30	P	18	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Magnessium 10000ppm Stock Std	**ME #:**	0702004
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B058
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	4% HNO3	**NIST SRM:**	3131
Amount:	250 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Mg	P/N 4400-10M311	10000	ppm

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CERTIFICATE OF ANALYSIS

M70702004

P/N 4400-10M311
P/N S4400-10M311

Single-Element Magnesium Standard
Mg in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B058

Material Source: Magnesium Metal
Source Purity: 99.99%
Specific Gravity: 1.056 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3131. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	28	0.1	Cu	1.6	0.1	Pb	7.7	0.7	K	ND	70	Tl	0.91	0.1
Sb	ND	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	0.28	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.28	0.1	Eu	ND	0.1	Mg	X	0.2	Rh	ND	0.1	Sn	0.14	0.1
Be	ND	0.1	Gd	0.23	0.1	Mn	19.8	1	Rb	ND	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	0.18	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	ND	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	1.1	0.1	Se	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	1	0.1	Si	64	20	Yb	ND	0.1
Ca	ND	7	Ho	ND	0.1	Nb	ND	0.1	Ag	0.19	0.1	Y	0.2	0.1
Ce	2.1	0.1	I	1	0.2	Os	ND	0.1	Na	7.2	1	Zn	ND	1
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	0.19	0.1	Zr	0.29	0.1
Cr	ND	1	Fe	80	30	P	ND	10	Ta	ND	0.1			
Co	ND	0.1	La	0.76	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Potassium 10000ppm Stock Std	**ME #:**	0702005
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B056
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	1% HNO3	**NIST SRM:**	3141
Amount:	250 mL	Room temp. storage	

Component	Comment	Conc. Unit:
K	P/N 4400-10M411	10000 ppm

AUG 16 '08

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CERTIFICATE OF ANALYSIS

M20702005

P/N 4400-10M411
P/N S4400-10M411

Single-Element Potassium Standard
K in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B056

Material Source: Potassium Nitrate (KNO_3)
Source Purity: 99.999%
Specific Gravity: 1.019 @ 21 °C

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3141. Trace impurities of the standard solution at 1000µg/mL were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	0.39	0.1	Cu	0.16	0.1	Pb	ND	0.1	K	X	70	Tl	ND	0.1
Sb	0.34	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.14	0.1	Eu	ND	0.1	Mg	2.6	0.2	Rh	ND	0.1	Sn	0.17	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	0.93	1	Rb	9.5	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	ND	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	0.4	0.1	Si	50	20	Yb	ND	0.1
Ca	82	7	Ho	ND	0.1	Nb	ND	0.1	Ag	ND	0.1	Y	ND	0.1
Ce	ND	0.1	I	ND	0.2	Os	ND	0.1	Na	19	1	Zn	2.9	1
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	1	0.1	Zr	ND	0.1
Cr	ND	1	Fe	ND	30	P	18	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Intial: WBH
Date: 1/27/07

METALS STANDARD DOCUMENTATION

Standard:	FE 10000ppm Stock Std	**ME #:**	701008
Date Received/Prepped:	1/26/2007	**By:**	WBH
Date Expired:	7/19/2008	**Lot #:**	06I143
Manufacturer:	CPI	**Certificate:**	
Matrix:	4% HNO3	**NIST SRM:**	3126a
Amount:	100 mL	**Storage:**	Room Temp

Component	Comment	Conc. Unit:
Fe	PN4400-10M261	10000 PPM

CPI INTERNATIONAL

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JUL 19 '08

CERTIFICATE OF ANALYSIS

MZ070100X

P/N 4400-10M261
P/N S4400-10M261

Single-Element Iron Standard
Fe in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 06I143

Material Source: Iron Metal
Source Purity: 99.999%
Specific Gravity: 1.062 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3126a. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	INT	0.1	Cu	6.4	0.1	Pb	ND	0.1	K	ND	70	Tl	0.18	0.1
Sb	0.35	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	ND	0.1	Eu	ND	0.1	Mg	1.3	0.2	Rh	ND	0.1	Sn	0.67	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	INT	1	Rb	ND	0.1	Ti	0.21	0.1
Bi	ND	0.1	Ga	0.41	0.1	Hg	ND	0.2	Ru	ND	0.1	W	0.13	0.1
B	ND	4	Ge	INT	0.1	Mo	4.9	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cd	ND	0.1	Hf	ND	0.1	Ni	9.3	0.1	Si	INT	8	Yb	ND	0.1
Ca	15	7	Ho	ND	0.1	Nb	ND	0.1	Ag	ND	0.1	Y	ND	0.1
Ce	ND	0.1	I	0.34	0.2	Os	ND	0.1	Na	8	1	Zn	8.6	2
Cs	0.34	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	ND	0.1	Zr	ND	0.1
Cr	3.3	1	Fe	X	30	P	28	10	Ta	ND	0.1			
Co	12	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

INT=Interference from Major Element ND=Not Detected X=Major Element DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Project No. _____

TITLE _____ Book No. _____

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COC #	CLIENT	SX ID	MIX	VOLUME	COMMENTS
	200.7 DIGEST	02-20-08	JRF		HNO_3 100445 1ml HCl 100446 2.5ml ICS/ISPK
BLANK					
LCS					
LCSD					ME 0709009 → 0.5ml ME 0712008 → 0.5ml ME 0709007 → 0.25ml
2802070519	KERRMCGEE-MP	E B - 2	AQ	50ml → 50ml	
MS					
MSD					
2802080261		M - 83			MRL ME 0710013 → 0.5ml
MS					
MSD					
2802080260		M - 85			HOTBLOCK # 1 TEMP. INITIAL: 111/94 FINAL:
2802070518		M - 10			
2802080254		M - 87			
0259		M - 86			
0262		M - 70			
0263		M - 71			
0264		M - 72			
0265		M - 38			
0267		M - 36			
0271		M - 84			
0272		M - 11			
0273		MD-2			
0274		M 22A			
0277		M-89			
0319		GW-11			
2802090001		M-17A			
0002		M-76			
0003		M-75			
	200.7	02-20-08	JRF		

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Recorded by: | Date | Verified by: | Date

Project No. _____

Book No. _____ TITLE _____

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LOG#	CLIENT	SK – 2D	MIX	VOLUME	COMMENTS
	200.7 DIGEST	02-26-08	JRF		HNO_3 100445 1 ml HCl 100446 2.5 ml LCS / SPK
BLANK					ME 070 9009 → 0.5 ml
LCS					ME 07120008 → 0.5 ml
LCSD					ME 0802001 → 1 ml
2802200171	CENTRAL A2	022008 APR	AQ	50 ml → 50 ml	
MS	↓	↓	↓	↓	
MSD	↓	↓	↓	↓	
2802220550	WDD	530026			MRL
MS	↓	↓			ME 0710013 → 0.5 ml
MSD	↓	↓			
2802200048	TOXICOMED A2	POE 001			HOT BLOCK .4 I TEMP
2802220412	PEPSI IRAK	280222 0412			INITIAL: 1/2/94
2802200580	NEWHALL	PINETREE #5			FINAL:
2802220424	KERR MC (GEL-MI)	DISCHARGE			
2802090004		M III A			
0005		M-115			
0006		M-14A			
0007		I→N			
2802150089		APP-6B			
0090		APP. 7			
0092		PC-10B			
0095		DISCHARGE			
	200.7 DIGEST	02-26-08	JRF		

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Recorded by:	Date	Verified by:	Date