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Level IV Data Package

MWH Group 229554

Method: EPA 200.7

2802050696
2802050697

EPA 200.7/6010B QC Check List

Analyst CGK Analysis Date 2-6-08 Reviewer/Date 2-7-08
9 Feb08

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

NA 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: CGK
Date: 2-7-08

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 080206A
Date Started: 2/6/08
Analyst ID: CSK

SAMPLE ID

LINEARITY	(18:32)	Wash	(18:43)	FILTERCHECK	(19:16)
2802050531	(19:28)	2802050546	(19:39)	2802050557	(19:55)
2801300083	(19:59)	2802050265	(20:03)	2802010008	(20:08)
2802050250	(20:12)	2802050251	(20:16)	2802050757	(20:21)
2801300506	(20:25)	2801300508	(20:30)	2801300509	(20:56)
2801300512_2	(21:00)	2801300515	(21:04)	2801300516	(21:09)
2802050238	(21:12)	2802050246	(21:16)	2802050247	(21:21)
2802050266	(21:25)	2802050267	(21:29)	2802050292	(21:58)
2802050293	(22:08)	2802050294	(22:12)	2802050295	(22:16)
2802050298	(22:36)	2802050560	(22:40)	2802050619	(22:44)
2802050658	(22:48)	2802050386	(22:52)	2802050697_2	(22:56)
2802040069	(23:29)	2802050753	(23:39)	2802040328	(23:43)
2802040329	(23:48)	2802040272	(23:52)	2802050634_5	(23:56)
2802040635_5	(23:59)	2802040636_5	(0:18)	2802040058	(0:22)
2712110780	(0:26)				

COMMENT: CCB in "B" Failed
Rerun all the SAMPLES require "B" in 080207A
LCS2007 & LCSD2007 "K" Failed Rerun in 080207A
plus 2802040069 & 2802050753 which need to report "K"

Analyst: CSK 2-7-08

Approved By: M 9 Feb 08

Peer Reviewed! BKK 2/8/08

BATCH NUMBER for 080206A

Test Parameter:

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

Batch ID: 2802050531

2802050531	2802050546	2802050557
2801300083	2802050265	2802010008
2802050250	2802050251	2802050757
2801300506	2801300508	2801300509
2801300512_2X	2801300515	2801300516
2802050238	2802050246	2802050247
2802050266	2802050267	

Batch ID: 2802050292

2802050292	2802050293	2802050294
2802050295	2802050298	2802050560
2802050619	2802050658	2802050386
2802050697_2X		

Batch ID: 2802040069

2802040069	2802050753	2802040328
2802040329	2802040272	2802050634_5X
2802040635_5X	2802040636_5X	2802040058
2712110780		

File ID: 080206A

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	2/6/08	18:29	1	9.9377	9.94	95-105	99.3%
LINEARITY	2/6/08	18:32	1	0.0022	.0022		
ICSA	2/6/08	18:36	1	0.0003	0.0003	80-120	
ICSAB	2/6/08	18:40	1	.24989	.25	80-120	99.9%
Wash	2/6/08	18:43	1	0.0001	0.0000		
QC-25 1ppm	2/6/08	18:47	1	1.0248	1.0		
CCV	2/6/08	18:51	1	5.2127	5.21	90-110	104%
ICB	2/6/08	19:01	1	0.0003	0.0002		
MRL	2/6/08	19:05	1	0.0106	.0106	50-150	105%
MRL/2	2/6/08	19:08	1	0.0052	.0052		
MRL/5	2/6/08	19:12	1	0.0022	.0022		
FILTERCHECK	2/6/08	19:16	1	0.0002	0.0001		
MBLANK	2/6/08	19:19	1	0.0002	0.0002		
LCS	2/6/08	19:23	1	1.0228	1.02	85-115	102%
LCSD	2/6/08	19:26	1	1.0171	1.02	85-115	101%
2802050531	2/6/08	19:28	1	0.0032	.0032		
2802050531MS	2/6/08	19:33	1	.98507	.985	[0.982]	98.1%
2802050531MSD	2/6/08	19:36	1	.98289	.983	[0.980]	97.9%
2802050531T	2/6/08	19:36	1		1.00	70 - 130	
2802050546	2/6/08	19:39	1	0.0027	.0027		
CCV	2/6/08	19:43	1	5.2328	5.23	90-110	104%
CCB	2/6/08	19:51	1	0.0002	0.0001		
2802050557	2/6/08	19:55	1	0.0028	.0028		
2801300083	2/6/08	19:59	1	-0.0001	ND		
2802050265	2/6/08	20:03	1	0.0007	0.0006		
2802010008	2/6/08	20:08	1	-0.0001	ND		
2802050250	2/6/08	20:12	1	0.0001	0.0000		
2802050251	2/6/08	20:16	1	-0.0001	ND		
2802050757	2/6/08	20:21	1	0.0016	.0016		
2801300506	2/6/08	20:25	1	-0.0005	ND		
2801300508	2/6/08	20:30	1	-0.0005	ND		
2801300508MS	2/6/08	20:34	1	.97907	.979	[0.979]	97.9%
CCV	2/6/08	20:37	1	5.1582	5.16	90-110	103%
CCB	2/6/08	20:45	1	0.0002	0.0001		
MCV	2/6/08	20:49	1	2.5820	2.58	90-110	103%
2801300508MSD	2/6/08	20:52	1	.97411	.974	[0.974]	97.4%
2801300508T	2/6/08	20:52	1		1.00	70 - 130	
2801300509	2/6/08	20:56	1	-0.0004	ND		
2801300512_2X	2/6/08	21:00	2	0.0004	0.0004		
2801300515	2/6/08	21:04	1	-0.0006	ND		
2801300516	2/6/08	21:09	1	-0.0004	ND		
2802050238	2/6/08	21:12	1	-0.0004	ND		
2802050246	2/6/08	21:16	1	-0.0002	ND		
2802050247	2/6/08	21:21	1	-0.0004	ND		
2802050266	2/6/08	21:25	1	-0.0004	ND		
2802050267	2/6/08	21:29	1	-0.0004	ND		

File ID: 080206A

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	2/6/08	21:33	1	5.1058	5.11	90-110	102%
CCB	2/6/08	21:41	1	0.0001	0.0001		
MBLANK	2/6/08	21:45	1	0.0001	0.0001		
MRL	2/6/08	21:48	1	0.0107	.0107	50-150	106%
LCS	2/6/08	21:52	1	1.0233	1.02 ✓	85-115	102%
LCSD	2/6/08	21:55	1	1.0066	1.01 ✓	85-115	100%
2802050292	2/6/08	21:58	1	-0.0001	ND		
2802050292MS	2/6/08	22:02	1	.99859	.999 ✓	[0.999]	99.8%
2802050292MSD	2/6/08	22:05	1	.98609	.986 ✓	[0.986]	98.6%
2802050292T	2/6/08	22:05	1		1.00	70 - 130	
2802050293	2/6/08	22:08	1	0.0000	0.0000		
2802050294	2/6/08	22:12	1	0.0060	.006		
2802050295	2/6/08	22:16	1	-0.0003	ND		
CCV	2/6/08	22:20	1	5.1489	5.15	90-110	102%
CCB	2/6/08	22:29	1	0.0001	0.0001		
MCV	2/6/08	22:32	1	2.5249	2.52	90-110	100%
2802050298	2/6/08	22:36	1	0.0006	0.0006		
2802050560	2/6/08	22:40	1	0.0006	0.0006		
2802050619	2/6/08	22:44	1	-0.0000	ND		
2802050658	2/6/08	22:48	1	-0.0004	ND		
2802050386	2/6/08	22:52	1	0.0066	.0066		
2802050697_2X	2/6/08	22:56	2	0.0414	.041 ✓		
MBLANK2007	2/6/08	23:00	1	0.0001	0.0001		
MRL	2/6/08	23:04	1	.01074	.0107	50-150	107%
MRL2007	2/6/08	23:08	1	0.0102	.0102		
LCS2007	2/6/08	23:11	1	.94649	.946	85-115	94.6%
CCV	2/6/08	23:14	1	5.1461	5.15	90-110	102%
CCB	2/6/08	23:22	1	0.0004	0.0004		
LCSD2007	2/6/08	23:25	1	.98148	.981	85-115	98.1%
2802040069	2/6/08	23:29	1	0.0001	0.0000		
2802040069MS	2/6/08	23:33	1	.96569	.966	[0.966]	96.5%
2802040069MSD	2/6/08	23:36	1	.96685	.967	[0.967]	96.6%
2802040069T	2/6/08	23:36	1		1.00	70 - 130	
2802050753	2/6/08	23:39	1	0.0010	.001		
2802040328	2/6/08	23:43	1	0.0017	.0017		
2802040329	2/6/08	23:48	1	0.0007	0.0007		
2802040272	2/6/08	23:52	1	0.0115	.012		
2802050634_5X	2/6/08	23:56	5	0.0000	0.0000		
2802040635_5X	2/6/08	23:59	5	0.0005	0.0004		
CCV	2/7/08	0:03	1	5.1313	5.13	90-110	102%
CCB	2/7/08	0:11	1	0.0001	0.0001		
MCV	2/7/08	0:15	1	2.5210	2.52	90-110	100%
2802040636_5X	2/7/08	0:18	5	0.0004	0.0003		
2802040058	2/7/08	0:22	1	0.0002	0.0001		
2712110780	2/7/08	0:26	1	0.0370	.037		
ECV	2/7/08	0:29	1	5.0507	5.05 ✓	90-110	101%
ECB	2/7/08	0:38	1	0.0002	0.0002		

Analysis Begun

Start Time: 2/6/2008 18:22:21
Plasma On Time: 2/6/2008 07:11:38
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\080206A.sif
Batch ID: 080206A
Results Data Set: 080206A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

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

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
Autosampler Location: 0
Sample ID: Calib Blank 1
Date Collected: 2/6/2008 18:22:46
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	Calib Conc.	Calib Units
Sca	469037.8	5080.20	1.08%	100	%
Yr	285498.6	6512.12	2.28%	100	%
Ag†	439.7	103.97	23.65%	[0.00]	mg/L
Al†	48.4	1.57	3.25%	[0.00]	mg/L
As†	6.0	0.80	13.32%	[0.00]	mg/L
B_†	78.4	7.58	9.67%	[0.00]	mg/L
Ba†	-27.1	3.62	13.34%	[0.00]	mg/L
Be†	-4149.4	27.70	0.67%	[0.00]	mg/L
Ca†	679.8	7.53	1.11%	[0.00]	mg/L
Cd†	60.5	2.27	3.75%	[0.00]	mg/L
Co†	-52.1	0.37	0.70%	[0.00]	mg/L
Cr†	240.3	6.78	2.82%	[0.00]	mg/L

Cut	2749.4	22.45	0.82%	[0.00]	mg/L
Fet	-8.0	0.23	2.90%	[0.00]	mg/L
Kt	297.9	12.82	4.30%	[0.00]	mg/L
Mgt	-46.4	4.35	9.37%	[0.00]	mg/L
Mnt	823.5	4.09	0.50%	[0.00]	mg/L
Mot	21.9	2.08	9.48%	[0.00]	mg/L
Nat	-23.4	8.35	35.65%	[0.00]	mg/L
Nit	-26.6	2.85	10.69%	[0.00]	mg/L
Pbt	-20.1	0.58	2.91%	[0.00]	mg/L
Sbt	0.4	5.53	>999.9%	[0.00]	mg/L
Set	3.5	2.72	77.31%	[0.00]	mg/L
Tlt	-29.7	4.31	14.52%	[0.00]	mg/L
Vt	144.3	10.01	6.94%	[0.00]	mg/L
Znt	152.3	0.01	0.00%	[0.00]	mg/L
Alxt	228.9	32.95	14.40%	[0.00]	ug/L
Bext	-4149.4	27.70	0.67%	[0.00]	ug/L

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

Autosampler Location: 15
Date Collected: 2/6/2008 18:26:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	410413.1	400.49	0.10%	87.5	%
Yr	270967.1	813.94	0.30%	94.9	%
Agt	585314.0	1857.08	0.32%	[2]	mg/L
Alt	47480.8	85.43	0.18%	[10]	mg/L
Ast	19325.6	133.30	0.69%	[10]	mg/L
B_t	157599.0	615.18	0.39%	[5.02]	mg/L
Bat	755019.9	2317.72	0.31%	[10]	mg/L
Bet	13011101.5	15335.65	0.12%	[4.01]	mg/L
Cat	745825.5	2453.79	0.33%	[100]	mg/L
Cdt	135397.5	399.55	0.30%	[5.01]	mg/L
Cot	254114.8	236.56	0.09%	[10]	mg/L
Crt	788109.3	1765.52	0.22%	[9.97]	mg/L
Cut	4484313.2	24520.62	0.55%	[10]	mg/L
Fet	9258.6	44.68	0.48%	[9.98]	mg/L
Kt	136464.2	532.37	0.39%	[100]	mg/L
Mgt	283546.1	59.21	0.02%	[100]	mg/L
Mnt	5812625.5	14723.75	0.25%	[10]	mg/L
Mot	129012.7	408.43	0.32%	[9.98]	mg/L
Nat	421862.2	4523.00	1.07%	[100]	mg/L
Nit	221949.6	831.47	0.37%	[10]	mg/L
Pbt	47739.8	420.98	0.88%	[10]	mg/L
Sbt	19420.6	153.75	0.79%	[10]	mg/L
Set	12860.2	95.51	0.74%	[10]	mg/L
Tlt	26224.1	210.82	0.80%	[10]	mg/L
Vt	1830850.2	5462.89	0.30%	[10]	mg/L
Znt	471484.3	1428.34	0.30%	[10]	mg/L
Alxt	1034500.8	12168.57	1.18%	[10000]	ug/L
Bext	13011101.5	15335.65	0.12%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	292700	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	4748	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	1933	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	31390	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	75500	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3245000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	7458	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	27030	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	25410	0.00000	1.000000	
Cr	1	Lin, Calc Int	-0.0	79050	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	448400	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	927.7	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1365	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	2835	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	581300	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	12930	0.00000	1.000000	
Na	1	Lin, Calc Int	-0.0	4219	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	22190	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	4774	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1942	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1286	0.00000	1.000000	
Tl	1	Lin, Calc Int	0.0	2622	0.00000	1.000000	
V	1	Lin, Calc Int	0.0	183100	0.00000	1.000000	
Zn	1	Lin, Calc Int	-0.0	47150	0.00000	1.000000	
Alx	1	Lin, Calc Int	0.0	103.5	0.00000	1.000000	
Bex	1	Lin, Calc Int	0.0	3245	0.00000	1.000000	

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

Autosampler Location: 15
Date Collected: 2/6/2008 18:29:32
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	409437.5	87.3	%	0.42				0.48%
Yr	273367.4	95.8	%	0.60				0.63%
Al†	47173.1	9.94	mg/L	0.125	9.94	mg/L	0.125	1.25%
QC value within limits for Al		Recovery = 99.35%						
B_†	157369.9	4.99	mg/L	0.036	4.99	mg/L	0.036	0.73%
QC value within limits for B_		Recovery = 99.85%						
Ba†	754049.8	9.99	mg/L	0.060	9.99	mg/L	0.060	0.60%
QC value within limits for Ba		Recovery = 99.87%						
Be†	12940315.8	3.99	mg/L	0.042	3.99	mg/L	0.042	1.06%
QC value within limits for Be		Recovery = 99.70%						
Ca†	742303.9	99.5	mg/L	0.20	99.5	mg/L	0.20	0.20%
QC value within limits for Ca		Recovery = 99.53%						
Cd†	134538.2	5.02	mg/L	0.048	5.02	mg/L	0.048	0.95%
QC value within limits for Cd		Recovery = 100.34%						
Co†	253853.8	9.99	mg/L	0.098	9.99	mg/L	0.098	0.98%
QC value within limits for Co		Recovery = 99.90%						
Cr†	785563.0	9.94	mg/L	0.032	9.94	mg/L	0.032	0.32%
QC value within limits for Cr		Recovery = 99.38%						
Cu†	4451279.7	9.94	mg/L	0.041	9.94	mg/L	0.041	0.41%
QC value within limits for Cu		Recovery = 99.36%						
Fe†	9202.3	9.92	mg/L	0.106	9.92	mg/L	0.106	1.07%
QC value within limits for Fe		Recovery = 99.19%						
K†	135734.9	99.5	mg/L	0.39	99.5	mg/L	0.39	0.39%
QC value within limits for K		Recovery = 99.47%						
Mg†	281566.4	99.3	mg/L	0.21	99.3	mg/L	0.21	0.21%
QC value within limits for Mg		Recovery = 99.30%						
Mn†	5801482.6	9.98	mg/L	0.057	9.98	mg/L	0.057	0.57%
QC value within limits for Mn		Recovery = 99.81%						
Mo†	128930.1	9.97	mg/L	0.075	9.97	mg/L	0.075	0.75%
QC value within limits for Mo		Recovery = 99.74%						
Na†	418701.4	99.3	mg/L	0.36	99.3	mg/L	0.36	0.36%
QC value within limits for Na		Recovery = 99.25%						
Ni†	221042.9	9.96	mg/L	0.090	9.96	mg/L	0.090	0.90%
QC value within limits for Ni		Recovery = 99.59%						
Pb†	48187.1	10.1	mg/L	0.07	10.1	mg/L	0.07	0.68%
QC value within limits for Pb		Recovery = 100.94%						
V†	1823024.5	10.0	mg/L	0.04	10.0	mg/L	0.04	0.38%
QC value within limits for V		Recovery = 100.12%						
Zn†	473377.6	9.97	mg/L	0.083	9.97	mg/L	0.083	0.83%
QC value within limits for Zn		Recovery = 99.72%						

All analyte(s) passed QC.

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

Autosampler Location: 9
Date Collected: 2/6/2008 18:32:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	393769.0	84.0	%	0.78				0.93%
Yr	265504.7	93.0	%	0.13				0.14%
Alt	-47.6	-0.0100	mg/L	0.00024	-0.0100	mg/L	0.00024	2.41%
QC value within limits for Al	Recovery = Not calculated							
B_t	1222.2	0.0389	mg/L	0.00323	0.0389	mg/L	0.00323	8.29%
QC value within limits for B_	Recovery = Not calculated							
Bat	117.6	0.00156	mg/L	0.000063	0.00156	mg/L	0.000063	4.07%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-1317.9	-0.00041	mg/L	0.000014	-0.00041	mg/L	0.000014	3.38%
QC value within limits for Be	Recovery = Not calculated							
Cat	2186538.5	293	mg/L	1.3	293	mg/L	1.3	0.43%
QC value within limits for Ca	Recovery = 97.72%							
Cdt	-28.1	-0.00103	mg/L	0.000130	-0.00103	mg/L	0.000130	12.59%
QC value within limits for Cd	Recovery = Not calculated							
Cot	58.4	0.00230	mg/L	0.000089	0.00230	mg/L	0.000089	3.87%
QC value within limits for Co	Recovery = Not calculated							
Crt	171.3	0.00217	mg/L	0.000197	0.00217	mg/L	0.000197	9.12%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-4094.1	-0.00913	mg/L	0.000191	-0.00913	mg/L	0.000191	2.09%
QC value within limits for Cu	Recovery = Not calculated							
Fet	91187.5	98.3	mg/L	0.59	98.3	mg/L	0.59	0.60%
QC value within limits for Fe	Recovery = 98.29%							
Kt	417778.6	306	mg/L	1.7	306	mg/L	1.7	0.54%
QC value within limits for K	Recovery = 102.05%							
Mgt	533257.2	188	mg/L	0.3	188	mg/L	0.3	0.16%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	2121.6	0.00365	mg/L	0.000174	0.00365	mg/L	0.000174	4.78%
QC value within limits for Mn	Recovery = Not calculated							
Mot	22.5	0.00174	mg/L	0.000060	0.00174	mg/L	0.000060	3.42%
QC value within limits for Mo	Recovery = Not calculated							
Nat	1262601.8	299	mg/L	1.5	299	mg/L	1.5	0.51%
QC value within limits for Na	Recovery = 99.76%							
Nit	3.0	0.00013	mg/L	0.000045	0.00013	mg/L	0.000045	33.25%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-9.4	-0.00197	mg/L	0.002248	-0.00197	mg/L	0.002248	113.88%
QC value within limits for Pb	Recovery = Not calculated							
Vt	-1083.5	-0.00591	mg/L	0.000117	-0.00591	mg/L	0.000117	1.99%
QC value within limits for V	Recovery = Not calculated							
Znt	1317.5	0.0279	mg/L	0.00022	0.0279	mg/L	0.00022	0.79%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 10
Date Collected: 2/6/2008 18:36:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	416340.3	88.8	%	0.81				0.92%
Yr	271519.6	95.1	%	0.02				0.02%
Al†	1160230.4	244	mg/L	0.8	244	mg/L	0.8	0.31%
QC value within limits for Al	Recovery = 97.74%							
B_†	774.8	0.0247	mg/L	0.00042	0.0247	mg/L	0.00042	1.71%
QC value within limits for B_	Recovery = Not calculated							
Ba†	172.6	0.00229	mg/L	0.000084	0.00229	mg/L	0.000084	3.69%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-1044.9	-0.00032	mg/L	0.000013	-0.00032	mg/L	0.000013	4.13%
QC value within limits for Be	Recovery = Not calculated							
Ca†	1859205.1	249	mg/L	0.4	249	mg/L	0.4	0.14%
QC value within limits for Ca	Recovery = 99.71%							
Cd†	-29.0	-0.00107	mg/L	0.000067	-0.00107	mg/L	0.000067	6.30%
QC value within limits for Cd	Recovery = Not calculated							
Co†	34.4	0.00135	mg/L	0.000084	0.00135	mg/L	0.000084	6.17%
QC value within limits for Co	Recovery = Not calculated							
Cr†	25.6	0.00032	mg/L	0.000043	0.00032	mg/L	0.000043	13.33%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-4375.0	-0.00975	mg/L	0.000090	-0.00975	mg/L	0.000090	0.92%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	89405.0	96.4	mg/L	0.20	96.4	mg/L	0.20	0.21%
QC value within limits for Fe	Recovery = 96.37%							
K†	399.9	0.293	mg/L	0.0098	0.293	mg/L	0.0098	3.33%
QC value within limits for K	Recovery = Not calculated							
Mg†	663683.0	234	mg/L	0.1	234	mg/L	0.1	0.03%
QC value within limits for Mg	Recovery = 93.63%							
Mn†	2565.2	0.00441	mg/L	0.000071	0.00441	mg/L	0.000071	1.60%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	14.3	0.00111	mg/L	0.000289	0.00111	mg/L	0.000289	26.10%
QC value within limits for Mo	Recovery = Not calculated							
Na†	1015.0	0.241	mg/L	0.0065	0.241	mg/L	0.0065	2.71%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-11.6	-0.00052	mg/L	0.000510	-0.00052	mg/L	0.000510	97.49%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-147.4	-0.0309	mg/L	0.00012	-0.0309	mg/L	0.00012	0.40%
QC value within limits for Pb	Recovery = Not calculated							
V†	-1063.7	-0.00581	mg/L	0.000131	-0.00581	mg/L	0.000131	2.26%
QC value within limits for V	Recovery = Not calculated							
Zn†	967.7	0.0205	mg/L	0.00029	0.0205	mg/L	0.00029	1.41%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 11
Date Collected: 2/6/2008 18:40:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	404827.0	86.3	%	0.43				0.50%
Yr	263377.7	92.3	%	0.17				0.19%
Al†	1190447.3	251	mg/L	2.4	251	mg/L	2.4	0.97%
QC value within limits for Al	Recovery = 100.29%							
B_†	671.2	0.0209	mg/L	0.00038	0.0209	mg/L	0.00038	1.82%
QC value within limits for B_	Recovery = Not calculated							
Ba†	19544.1	0.259	mg/L	0.0010	0.259	mg/L	0.0010	0.39%
QC value within limits for Ba	Recovery = 103.54%							
Be†	795520.3	0.245	mg/L	0.0005	0.245	mg/L	0.0005	0.19%
QC value within limits for Be	Recovery = 98.07%							
Ca†	1901731.1	255	mg/L	1.4	255	mg/L	1.4	0.54%
QC value within limits for Ca	Recovery = 101.99%							
Cd†	13104.7	0.486	mg/L	0.0021	0.486	mg/L	0.0021	0.44%
QC value within limits for Cd	Recovery = 97.17%							
Co†	6082.0	0.239	mg/L	0.0004	0.239	mg/L	0.0004	0.15%
QC value within limits for Co	Recovery = 95.74%							
Cr†	19753.5	0.250	mg/L	0.0007	0.250	mg/L	0.0007	0.27%
QC value within limits for Cr	Recovery = 99.96%							
Cu†	111191.2	0.248	mg/L	0.0002	0.248	mg/L	0.0002	0.07%
QC value within limits for Cu	Recovery = 99.27%							
Fe†	93238.0	101	mg/L	0.3	101	mg/L	0.3	0.32%
QC value within limits for Fe	Recovery = 100.50%							
K†	297.8	0.218	mg/L	0.0111	0.218	mg/L	0.0111	5.08%
QC value within limits for K	Recovery = Not calculated							
Mg†	681194.9	240	mg/L	1.9	240	mg/L	1.9	0.80%
QC value within limits for Mg	Recovery = 96.10%							
Mn†	151728.6	0.261	mg/L	0.0007	0.261	mg/L	0.0007	0.27%
QC value within limits for Mn	Recovery = 104.41%							
Mo†	10.3	0.00080	mg/L	0.000961	0.00080	mg/L	0.000961	120.75%
QC value within limits for Mo	Recovery = Not calculated							
Na†	931.5	0.221	mg/L	0.0103	0.221	mg/L	0.0103	4.64%
QC value within limits for Na	Recovery = Not calculated							
Ni†	10413.9	0.469	mg/L	0.0013	0.469	mg/L	0.0013	0.27%
QC value within limits for Ni	Recovery = 93.84%							
Pb†	2200.9	0.461	mg/L	0.0022	0.461	mg/L	0.0022	0.47%
QC value within limits for Pb	Recovery = 92.20%							
V†	44131.1	0.242	mg/L	0.0001	0.242	mg/L	0.0001	0.06%
QC value within limits for V	Recovery = 96.97%							
Zn†	25714.2	0.542	mg/L	0.0016	0.542	mg/L	0.0016	0.29%
QC value within limits for Zn	Recovery = 108.44%							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 2/6/2008 18:43:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	466028.3	99.4	%	0.17				0.17%
Yr	283061.8	99.1	%	0.51				0.52%
Al†	-17.4	-0.00367	mg/L	0.006548	-0.00367	mg/L	0.006548	178.52%
QC value within limits for Al	Recovery = Not calculated							
B_†	710.7	0.0226	mg/L	0.00010	0.0226	mg/L	0.00010	0.45%
QC value within limits for B_	Recovery = Not calculated							
Ba†	3.6	0.00005	mg/L	0.000066	0.00005	mg/L	0.000066	139.77%
QC value within limits for Ba	Recovery = Not calculated							
Be†	70.6	0.00002	mg/L	0.000028	0.00002	mg/L	0.000028	127.36%
QC value within limits for Be	Recovery = Not calculated							
Ca†	7.5	0.00101	mg/L	0.000301	0.00101	mg/L	0.000301	29.86%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	2.4	0.00009	mg/L	0.000070	0.00009	mg/L	0.000070	79.10%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-3.0	-0.00012	mg/L	0.000232	-0.00012	mg/L	0.000232	198.74%
QC value within limits for Co	Recovery = Not calculated							
Cr†	5.5	0.00007	mg/L	0.000005	0.00007	mg/L	0.000005	7.34%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	838.6	0.00187	mg/L	0.000069	0.00187	mg/L	0.000069	3.67%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	8.8	0.00946	mg/L	0.001714	0.00946	mg/L	0.001714	18.11%
QC value within limits for Fe	Recovery = Not calculated							
K†	76.4	0.0560	mg/L	0.06556	0.0560	mg/L	0.06556	117.16%
QC value within limits for K	Recovery = Not calculated							
Mg†	4.6	0.00162	mg/L	0.000463	0.00162	mg/L	0.000463	28.59%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-201.7	-0.00035	mg/L	0.000026	-0.00035	mg/L	0.000026	7.41%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	5.4	0.00042	mg/L	0.000316	0.00042	mg/L	0.000316	75.81%
QC value within limits for Mo	Recovery = Not calculated							
Na†	233.4	0.0553	mg/L	0.00574	0.0553	mg/L	0.00574	10.37%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-3.8	-0.00017	mg/L	0.000414	-0.00017	mg/L	0.000414	244.23%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	1.1	0.00023	mg/L	0.000424	0.00023	mg/L	0.000424	187.85%
QC value within limits for Pb	Recovery = Not calculated							
V†	3.8	0.00002	mg/L	0.000058	0.00002	mg/L	0.000058	273.00%
QC value within limits for V	Recovery = Not calculated							
Zn†	-12.2	-0.00026	mg/L	0.000069	-0.00026	mg/L	0.000069	26.83%
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: 2/6/2008 18:47:19
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	457833.0	97.6	%	0.32				0.33%
Yr	282951.8	99.1	%	0.81				0.81%
Al†	4733.0	0.997	mg/L	0.0115	0.997	mg/L	0.0115	1.16%
QC value within limits for Al	Recovery = 99.68%							
B_†	30580.4	0.972	mg/L	0.0006	0.972	mg/L	0.0006	0.06%
QC value within limits for B_	Recovery = 97.19%							
Ba†	79336.3	1.05	mg/L	0.000	1.05	mg/L	0.000	0.04%
QC value within limits for Ba	Recovery = 105.08%							
Be†	3246415.7	1.00	mg/L	0.001	1.00	mg/L	0.001	0.08%
QC value within limits for Be	Recovery = 100.05%							
Ca†	7744.2	1.04	mg/L	0.011	1.04	mg/L	0.011	1.06%
QC value within limits for Ca	Recovery = 103.83%							
Cd†	26266.5	0.976	mg/L	0.0026	0.976	mg/L	0.0026	0.27%
QC value within limits for Cd	Recovery = 97.60%							
Co†	26844.8	1.06	mg/L	0.000	1.06	mg/L	0.000	0.01%
QC value within limits for Co	Recovery = 105.64%							
Cr†	81010.4	1.02	mg/L	0.000	1.02	mg/L	0.000	0.01%
QC value within limits for Cr	Recovery = 102.48%							
Cu†	449790.6	1.00	mg/L	0.003	1.00	mg/L	0.003	0.25%
QC value within limits for Cu	Recovery = 100.40%							
Fe†	965.0	1.04	mg/L	0.010	1.04	mg/L	0.010	0.97%
QC value within limits for Fe	Recovery = 104.02%							
K†	13166.5	9.65	mg/L	0.142	9.65	mg/L	0.142	1.48%
QC value within limits for K	Recovery = 96.48%							
Mg†	2993.6	1.06	mg/L	0.008	1.06	mg/L	0.008	0.77%
QC value within limits for Mg	Recovery = 105.58%							
Mn†	617344.0	1.06	mg/L	0.000	1.06	mg/L	0.000	0.03%
QC value within limits for Mn	Recovery = 106.21%							
Mo†	12621.8	0.976	mg/L	0.0039	0.976	mg/L	0.0039	0.40%
QC value within limits for Mo	Recovery = 97.64%							
Na†	4249.8	1.01	mg/L	0.003	1.01	mg/L	0.003	0.29%
QC value within limits for Na	Recovery = 100.74%							
Ni†	24031.9	1.08	mg/L	0.001	1.08	mg/L	0.001	0.11%
QC value within limits for Ni	Recovery = 108.28%							
Pb†	5101.7	1.07	mg/L	0.005	1.07	mg/L	0.005	0.48%
QC value within limits for Pb	Recovery = 106.86%							
V†	180104.9	0.989	mg/L	0.0005	0.989	mg/L	0.0005	0.05%
QC value within limits for V	Recovery = 98.94%							
Zn†	50060.1	1.05	mg/L	0.000	1.05	mg/L	0.000	0.01%
QC value within limits for Zn	Recovery = 105.44%							

All analyte(s) passed QC.

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

Autosampler Location: 4
Date Collected: 2/6/2008 18:51:04
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	422753.1	90.1	%	0.55				0.61%
Yr	270056.2	94.6	%	0.01				0.01%
Al†	24379.2	5.13	mg/L	0.019	5.13	mg/L	0.019	0.38%
QC value within limits for Al	Recovery = 102.69%							
B_†	80127.9	2.54	mg/L	0.024	2.54	mg/L	0.024	0.95%
QC value within limits for B_	Recovery = 101.67%							
Ba†	387337.2	5.13	mg/L	0.037	5.13	mg/L	0.037	0.71%
QC value within limits for Ba	Recovery = 102.60%							
Be†	6741962.3	2.08	mg/L	0.014	2.08	mg/L	0.014	0.66%
QC value within limits for Be	Recovery = 103.89%							
Ca†	385322.7	51.7	mg/L	0.01	51.7	mg/L	0.01	0.02%
QC value within limits for Ca	Recovery = 103.33%							
Cd†	54952.3	2.05	mg/L	0.010	2.05	mg/L	0.010	0.47%
QC value within limits for Cd	Recovery = 102.67%							
Co†	131452.7	5.17	mg/L	0.034	5.17	mg/L	0.034	0.66%
QC value within limits for Co	Recovery = 103.46%							
Cr†	412060.8	5.21	mg/L	0.042	5.21	mg/L	0.042	0.80%
QC value within limits for Cr	Recovery = 104.26%							
Cu†	2263845.5	5.05	mg/L	0.016	5.05	mg/L	0.016	0.31%
QC value within limits for Cu	Recovery = 101.07%							
Fe†	4837.2	5.21	mg/L	0.002	5.21	mg/L	0.002	0.05%
QC value within limits for Fe	Recovery = 104.28%							
K†	68204.5	50.0	mg/L	0.03	50.0	mg/L	0.03	0.07%
QC value within limits for K	Recovery = 99.96%							
Mg†	145607.9	51.4	mg/L	0.03	51.4	mg/L	0.03	0.05%
QC value within limits for Mg	Recovery = 102.70%							
Mn†	3028084.0	5.21	mg/L	0.006	5.21	mg/L	0.006	0.11%
QC value within limits for Mn	Recovery = 104.19%							
Mo†	65455.6	5.06	mg/L	0.052	5.06	mg/L	0.052	1.03%
QC value within limits for Mo	Recovery = 101.27%							
Na†	210726.6	50.0	mg/L	0.07	50.0	mg/L	0.07	0.14%
QC value within limits for Na	Recovery = 99.90%							
Ni†	116150.5	5.23	mg/L	0.033	5.23	mg/L	0.033	0.63%
QC value within limits for Ni	Recovery = 104.66%							
Pb†	25114.7	5.26	mg/L	0.009	5.26	mg/L	0.009	0.16%
QC value within limits for Pb	Recovery = 105.21%							
V†	929621.3	5.11	mg/L	0.005	5.11	mg/L	0.005	0.10%
QC value within limits for V	Recovery = 102.13%							
Zn†	248381.6	5.23	mg/L	0.036	5.23	mg/L	0.036	0.69%
QC value within limits for Zn	Recovery = 104.65%							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 2/6/2008 18:54:17
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	457869.3	97.6	%	0.40				0.41%
Yr	285726.0	100	%	0.0				0.05%
Al†	-31.9	-0.00673	mg/L	0.004361	-0.00673	mg/L	0.004361	64.82%
QC value within limits for Al Recovery = Not calculated								
B_†	1064.3	0.0339	mg/L	0.00067	0.0339	mg/L	0.00067	1.98%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	3.8	0.00005	mg/L	0.000070	0.00005	mg/L	0.000070	138.07%
QC value within limits for Ba Recovery = Not calculated								
Be†	0.7	0.00000	mg/L	0.000019	0.00000	mg/L	0.000019	>999.9%
QC value within limits for Be Recovery = Not calculated								
Ca†	-13.8	-0.00185	mg/L	0.000096	-0.00185	mg/L	0.000096	5.17%
QC value within limits for Ca Recovery = Not calculated								
Cd†	3.7	0.00014	mg/L	0.000064	0.00014	mg/L	0.000064	47.04%
QC value within limits for Cd Recovery = Not calculated								
Co†	-3.9	-0.00015	mg/L	0.000002	-0.00015	mg/L	0.000002	1.58%
QC value within limits for Co Recovery = Not calculated								
Cr†	15.0	0.00019	mg/L	0.000056	0.00019	mg/L	0.000056	29.25%
QC value within limits for Cr Recovery = Not calculated								
Cu†	1018.2	0.00227	mg/L	0.000009	0.00227	mg/L	0.000009	0.41%
QC value within limits for Cu Recovery = Not calculated								
Fe†	4.1	0.00443	mg/L	0.004187	0.00443	mg/L	0.004187	94.42%
QC value within limits for Fe Recovery = Not calculated								
K†	86.0	0.0630	mg/L	0.03206	0.0630	mg/L	0.03206	50.85%
QC value within limits for K Recovery = Not calculated								
Mg†	1.1	0.00039	mg/L	0.000349	0.00039	mg/L	0.000349	90.56%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-102.4	-0.00018	mg/L	0.000012	-0.00018	mg/L	0.000012	6.84%
QC value within limits for Mn Recovery = Not calculated								
Mo†	17.8	0.00138	mg/L	0.000065	0.00138	mg/L	0.000065	4.69%
QC value within limits for Mo Recovery = Not calculated								
Na†	75.7	0.0179	mg/L	0.01225	0.0179	mg/L	0.01225	68.27%
QC value within limits for Na Recovery = Not calculated								
Ni†	-4.7	-0.00021	mg/L	0.000093	-0.00021	mg/L	0.000093	44.01%
QC value within limits for Ni Recovery = Not calculated								
Pb†	13.5	0.00282	mg/L	0.001258	0.00282	mg/L	0.001258	44.55%
QC value within limits for Pb Recovery = Not calculated								
V†	15.0	0.00008	mg/L	0.000074	0.00008	mg/L	0.000074	88.74%
QC value within limits for V Recovery = Not calculated								
Zn†	7.0	0.00015	mg/L	0.000074	0.00015	mg/L	0.000074	49.99%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

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

Autosampler Location: 0
Date Collected: 2/6/2008 18:56:50
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	455565.1	97.1	%	1.17				1.21%
Yr	281967.1	98.8	%	0.04				0.04%
Al†	-4.1	-0.00087	mg/L	0.001701	-0.00087	mg/L	0.001701	195.08%
QC value within limits for Al Recovery = Not calculated								
B_†	887.6	0.0283	mg/L	0.00106	0.0283	mg/L	0.00106	3.77%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	1.6	0.00002	mg/L	0.000030	0.00002	mg/L	0.000030	141.30%

QC value within limits for Ba	Recovery = Not calculated					
Be†	-6.9	0.00000 mg/L	0.000034	0.00000 mg/L	0.000034	>999.9%
QC value within limits for Be	Recovery = Not calculated					
Ca†	-16.7	-0.00223 mg/L	0.000138	-0.00223 mg/L	0.000138	6.19%
QC value within limits for Ca	Recovery = Not calculated					
Cd†	1.9	0.00007 mg/L	0.000193	0.00007 mg/L	0.000193	270.08%
QC value within limits for Cd	Recovery = Not calculated					
Co†	4.8	0.00019 mg/L	0.000208	0.00019 mg/L	0.000208	110.83%
QC value within limits for Co	Recovery = Not calculated					
Cr†	13.1	0.00017 mg/L	0.000013	0.00017 mg/L	0.000013	7.74%
QC value within limits for Cr	Recovery = Not calculated					
Cu†	805.0	0.00180 mg/L	0.000134	0.00180 mg/L	0.000134	7.49%
QC value within limits for Cu	Recovery = Not calculated					
Fe†	6.8	0.00730 mg/L	0.000596	0.00730 mg/L	0.000596	8.17%
QC value within limits for Fe	Recovery = Not calculated					
K†	28.0	0.0205 mg/L	0.04243	0.0205 mg/L	0.04243	206.56%
QC value within limits for K	Recovery = Not calculated					
Mg†	2.7	0.00095 mg/L	0.001108	0.00095 mg/L	0.001108	116.63%
QC value within limits for Mg	Recovery = Not calculated					
Mn†	-166.9	-0.00029 mg/L	0.000048	-0.00029 mg/L	0.000048	16.75%
QC value within limits for Mn	Recovery = Not calculated					
Mo†	9.9	0.00077 mg/L	0.000065	0.00077 mg/L	0.000065	8.43%
QC value within limits for Mo	Recovery = Not calculated					
Na†	58.4	0.0138 mg/L	0.00800	0.0138 mg/L	0.00800	57.75%
QC value within limits for Na	Recovery = Not calculated					
Ni†	-5.5	-0.00025 mg/L	0.000060	-0.00025 mg/L	0.000060	24.01%
QC value within limits for Ni	Recovery = Not calculated					
Pb†	-2.6	-0.00054 mg/L	0.000120	-0.00054 mg/L	0.000120	22.10%
QC value within limits for Pb	Recovery = Not calculated					
V†	14.9	0.00008 mg/L	0.000078	0.00008 mg/L	0.000078	95.09%
QC value within limits for V	Recovery = Not calculated					
Zn†	8.4	0.00018 mg/L	0.000050	0.00018 mg/L	0.000050	27.66%
QC value within limits for Zn	Recovery = Not calculated					
QC Failed. Retry.						

Sequence No.: 12 **Autosampler Location: 0**
Sample ID: ICB **Date Collected: 2/6/2008 18:59:23**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc	454444.4	96.9	%	0.06				0.06%
Yr	278345.4	97.5	%	0.21				0.21%
Al†	7.2	0.00152	mg/L	0.003023	0.00152	mg/L	0.003023	198.89%
QC value within limits for Al	Recovery = Not calculated							
B_†	807.9	0.0257	mg/L	0.00033	0.0257	mg/L	0.00033	1.28%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	0.4	0.00001	mg/L	0.000024	0.00001	mg/L	0.000024	453.02%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-78.6	-0.00002	mg/L	0.000030	-0.00002	mg/L	0.000030	125.16%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-12.8	-0.00172	mg/L	0.001511	-0.00172	mg/L	0.001511	87.95%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	2.0	0.00007	mg/L	0.000090	0.00007	mg/L	0.000090	120.41%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-5.3	-0.00021	mg/L	0.000002	-0.00021	mg/L	0.000002	0.96%
QC value within limits for Co	Recovery = Not calculated							
Cr†	11.0	0.00014	mg/L	0.000023	0.00014	mg/L	0.000023	16.44%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	710.8	0.00158	mg/L	0.000027	0.00158	mg/L	0.000027	1.68%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	5.4	0.00580	mg/L	0.000237	0.00580	mg/L	0.000237	4.07%
QC value within limits for Fe	Recovery = Not calculated							
K†	20.6	0.0151	mg/L	0.01241	0.0151	mg/L	0.01241	82.21%
QC value within limits for K	Recovery = Not calculated							
Mg†	-0.2	-0.00007	mg/L	0.000705	-0.00007	mg/L	0.000705	989.78%
QC value within limits for Mg	Recovery = Not calculated							

Mn†	-118.4	-0.00020 mg/L	0.000009	-0.00020 mg/L	0.000009	4.35%
QC value within limits for Mn	Recovery = Not calculated					
Mo†	8.3	0.00064 mg/L	0.000267	0.00064 mg/L	0.000267	41.57%
QC value within limits for Mo	Recovery = Not calculated					
Na†	82.1	0.0195 mg/L	0.00539	0.0195 mg/L	0.00539	27.70%
QC value within limits for Na	Recovery = Not calculated					
Ni†	-3.5	-0.00016 mg/L	0.000303	-0.00016 mg/L	0.000303	193.71%
QC value within limits for Ni	Recovery = Not calculated					
Pb†	1.0	0.00020 mg/L	0.000412	0.00020 mg/L	0.000412	204.61%
QC value within limits for Pb	Recovery = Not calculated					
V†	5.9	0.00003 mg/L	0.000038	0.00003 mg/L	0.000038	116.51%
QC value within limits for V	Recovery = Not calculated					
Zn†	1.0	0.00002 mg/L	0.000080	0.00002 mg/L	0.000080	356.77%
QC value within limits for Zn	Recovery = Not calculated					

QC Failed. Retry.

Sequence No.: 13
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/6/2008 19:01:56
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
Sc‡	449154.6	95.8	%	0.31				0.32%
Yr	281218.8	98.5	%	0.28				0.28%
Al†	7.5	0.00158	mg/L	0.001738	0.00158	mg/L	0.001738	109.94%
QC value within limits for Al	Recovery = Not calculated							
B_†	751.8	0.0239	mg/L	0.00023	0.0239	mg/L	0.00023	0.94%
QC value greater than the upper limit for B	Recovery = Not calculated							
Ba†	-1.0	-0.00001	mg/L	0.000009	-0.00001	mg/L	0.000009	68.03%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-90.6	-0.00003	mg/L	0.000006	-0.00003	mg/L	0.000006	22.48%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-8.8	-0.00118	mg/L	0.000237	-0.00118	mg/L	0.000237	20.00%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-0.6	-0.00002	mg/L	0.000042	-0.00002	mg/L	0.000042	194.26%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-3.2	-0.00012	mg/L	0.000103	-0.00012	mg/L	0.000103	82.97%
QC value within limits for Co	Recovery = Not calculated							
Cr†	20.7	0.00026	mg/L	0.000136	0.00026	mg/L	0.000136	51.85%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	679.7	0.00152	mg/L	0.000034	0.00152	mg/L	0.000034	2.25%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	4.6	0.00491	mg/L	0.002107	0.00491	mg/L	0.002107	42.91%
QC value within limits for Fe	Recovery = Not calculated							
K†	47.1	0.0345	mg/L	0.01894	0.0345	mg/L	0.01894	54.83%
QC value within limits for K	Recovery = Not calculated							
Mg†	1.2	0.00043	mg/L	0.000674	0.00043	mg/L	0.000674	156.03%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-194.5	-0.00033	mg/L	0.000021	-0.00033	mg/L	0.000021	6.27%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	5.6	0.00043	mg/L	0.000638	0.00043	mg/L	0.000638	147.89%
QC value within limits for Mo	Recovery = Not calculated							
Na†	42.5	0.0101	mg/L	0.00191	0.0101	mg/L	0.00191	18.94%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-6.0	-0.00027	mg/L	0.000423	-0.00027	mg/L	0.000423	155.46%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-0.9	-0.00018	mg/L	0.000958	-0.00018	mg/L	0.000958	526.93%
QC value within limits for Pb	Recovery = Not calculated							
V†	19.7	0.00011	mg/L	0.000049	0.00011	mg/L	0.000049	45.30%
QC value within limits for V	Recovery = Not calculated							
Zn†	3.8	0.00008	mg/L	0.000004	0.00008	mg/L	0.000004	4.82%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 54
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/6/2008 21:33:33
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	425723.3	90.8	%	0.15				0.16%
Yr	266538.0	93.4	%	0.03				0.04%
Alt	24513.7	5.16	mg/L	0.004	5.16	mg/L	0.004	0.07%
QC value within limits for Al		Recovery = 103.26%						
B_t	79447.4	2.52	mg/L	0.004	2.52	mg/L	0.004	0.15%
QC value within limits for B_		Recovery = 100.81%						
Bat	384607.1	5.09	mg/L	0.010	5.09	mg/L	0.010	0.20%
QC value within limits for Ba		Recovery = 101.88%						
Bet	6680079.1	2.06	mg/L	0.006	2.06	mg/L	0.006	0.31%
QC value within limits for Be		Recovery = 102.94%						
Cat	383318.3	51.4	mg/L	0.04	51.4	mg/L	0.04	0.08%
QC value within limits for Ca		Recovery = 102.79%						
Cdt	54662.6	2.04	mg/L	0.006	2.04	mg/L	0.006	0.28%
QC value within limits for Cd		Recovery = 102.13%						
Cot	130663.6	5.14	mg/L	0.002	5.14	mg/L	0.002	0.03%
QC value within limits for Co		Recovery = 102.84%						
Crt	403604.2	5.11	mg/L	0.009	5.11	mg/L	0.009	0.17%
QC value within limits for Cr		Recovery = 102.12%						
Cut	2254715.4	5.03	mg/L	0.023	5.03	mg/L	0.023	0.46%
QC value within limits for Cu		Recovery = 100.66%						
Fet	4739.6	5.11	mg/L	0.030	5.11	mg/L	0.030	0.60%
QC value within limits for Fe		Recovery = 102.18%						
Kt	68400.4	50.1	mg/L	0.36	50.1	mg/L	0.36	0.73%
QC value within limits for K		Recovery = 100.25%						
Mgt	143516.6	50.6	mg/L	0.04	50.6	mg/L	0.04	0.07%
QC value within limits for Mg		Recovery = 101.23%						
Mnt	2994684.2	5.15	mg/L	0.008	5.15	mg/L	0.008	0.15%
QC value within limits for Mn		Recovery = 103.04%						
Mot	64782.9	5.01	mg/L	0.003	5.01	mg/L	0.003	0.06%
QC value within limits for Mo		Recovery = 100.23%						
Nat	209789.6	49.7	mg/L	0.23	49.7	mg/L	0.23	0.47%
QC value within limits for Na		Recovery = 99.46%						
Nit	115196.8	5.19	mg/L	0.007	5.19	mg/L	0.007	0.14%
QC value within limits for Ni		Recovery = 103.80%						
Pbt	24864.3	5.21	mg/L	0.001	5.21	mg/L	0.001	0.01%
QC value within limits for Pb		Recovery = 104.17%						
Vt	919429.2	5.05	mg/L	0.008	5.05	mg/L	0.008	0.16%
QC value within limits for V		Recovery = 101.00%						
Znt	246097.5	5.18	mg/L	0.006	5.18	mg/L	0.006	0.11%
QC value within limits for Zn		Recovery = 103.69%						

All analyte(s) passed QC.

Sequence No.: 55
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/6/2008 21:36:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	451685.6	96.3	%	0.33				0.34%
Yr	275621.3	96.5	%	0.44				0.45%
Al†	-27.8	-0.00586	mg/L	0.000238	-0.00586	mg/L	0.000238	4.07%
QC value within limits for Al		Recovery = Not calculated						
B_†	1097.9	0.0350	mg/L	0.00117	0.0350	mg/L	0.00117	3.35%
QC value greater than the upper limit for B_		Recovery = Not calculated						
Ba†	-1.0	-0.00001	mg/L	0.000043	-0.00001	mg/L	0.000043	322.18%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-33.5	-0.00001	mg/L	0.000016	-0.00001	mg/L	0.000016	152.26%
QC value within limits for Be		Recovery = Not calculated						
Ca†	-14.1	-0.00189	mg/L	0.000610	-0.00189	mg/L	0.000610	32.36%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	3.1	0.00011	mg/L	0.000044	0.00011	mg/L	0.000044	38.61%
QC value within limits for Cd		Recovery = Not calculated						
Co†	-1.1	-0.00005	mg/L	0.000042	-0.00005	mg/L	0.000042	93.56%
QC value within limits for Co		Recovery = Not calculated						
Cr†	20.8	0.00026	mg/L	0.000139	0.00026	mg/L	0.000139	52.68%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	584.3	0.00130	mg/L	0.000063	0.00130	mg/L	0.000063	4.85%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	2.1	0.00224	mg/L	0.000368	0.00224	mg/L	0.000368	16.45%
QC value within limits for Fe		Recovery = Not calculated						
K†	31.8	0.0233	mg/L	0.00237	0.0233	mg/L	0.00237	10.20%
QC value within limits for K		Recovery = Not calculated						
Mg†	-4.3	-0.00151	mg/L	0.001051	-0.00151	mg/L	0.001051	69.64%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	-478.1	-0.00082	mg/L	0.000005	-0.00082	mg/L	0.000005	0.59%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	18.0	0.00139	mg/L	0.000057	0.00139	mg/L	0.000057	4.12%
QC value within limits for Mo		Recovery = Not calculated						
Na†	851.8	0.202	mg/L	0.0029	0.202	mg/L	0.0029	1.43%
QC value within limits for Na		Recovery = Not calculated						
Ni†	-4.0	-0.00018	mg/L	0.000154	-0.00018	mg/L	0.000154	84.69%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	12.1	0.00253	mg/L	0.000427	0.00253	mg/L	0.000427	16.86%
QC value within limits for Pb		Recovery = Not calculated						
V†	19.6	0.00011	mg/L	0.000101	0.00011	mg/L	0.000101	93.42%
QC value within limits for V		Recovery = Not calculated						
Zn†	-7.1	-0.00015	mg/L	0.000095	-0.00015	mg/L	0.000095	63.81%
QC value within limits for Zn		Recovery = Not calculated						

QC Failed. Retry.

Sequence No.: 56
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/6/2008 21:39:19
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	450085.5	96.0	%	0.01				0.01%
Yr	275889.4	96.6	%	0.23				0.24%
Al†	-30.2	-0.00636	mg/L	0.008851	-0.00636	mg/L	0.008851	139.16%
QC value within limits for Al		Recovery = Not calculated						
B_†	885.0	0.0282	mg/L	0.00034	0.0282	mg/L	0.00034	1.19%
QC value greater than the upper limit for B_		Recovery = Not calculated						
Ba†	-3.4	-0.00005	mg/L	0.000062	-0.00005	mg/L	0.000062	137.40%

QC value within limits for Ba Recovery = Not calculated
Be† -37.4 -0.00001 mg/L 0.000045 -0.00001 mg/L 0.000045 390.45%
QC value within limits for Be Recovery = Not calculated
Ca† -18.0 -0.00242 mg/L 0.000604 -0.00242 mg/L 0.000604 24.97%
QC value within limits for Ca Recovery = Not calculated
Cd† 4.5 0.00017 mg/L 0.000125 0.00017 mg/L 0.000125 74.54%
QC value within limits for Cd Recovery = Not calculated
Co† -1.2 -0.00005 mg/L 0.000067 -0.00005 mg/L 0.000067 145.56%
QC value within limits for Co Recovery = Not calculated
Cr† 11.3 0.00014 mg/L 0.000076 0.00014 mg/L 0.000076 53.66%
QC value within limits for Cr Recovery = Not calculated
Cu† 425.0 0.00095 mg/L 0.000082 0.00095 mg/L 0.000082 8.66%
QC value within limits for Cu Recovery = Not calculated
Fe† 0.9 0.00098 mg/L 0.001222 0.00098 mg/L 0.001222 125.04%
QC value within limits for Fe Recovery = Not calculated
K† 14.1 0.0103 mg/L 0.01494 0.0103 mg/L 0.01494 144.62%
QC value within limits for K Recovery = Not calculated
Mg† -6.0 -0.00211 mg/L 0.002560 -0.00211 mg/L 0.002560 121.26%
QC value within limits for Mg Recovery = Not calculated
Mn† -485.0 -0.00083 mg/L 0.000013 -0.00083 mg/L 0.000013 1.61%
QC value within limits for Mn Recovery = Not calculated
Mo† 6.0 0.00047 mg/L 0.000086 0.00047 mg/L 0.000086 18.39%
QC value within limits for Mo Recovery = Not calculated
Na† 843.9 0.200 mg/L 0.0129 0.200 mg/L 0.0129 6.46%
QC value within limits for Na Recovery = Not calculated
Ni† -11.6 -0.00052 mg/L 0.000049 -0.00052 mg/L 0.000049 9.46%
QC value within limits for Ni Recovery = Not calculated
Pb† 9.1 0.00190 mg/L 0.000735 0.00190 mg/L 0.000735 38.60%
QC value within limits for Pb Recovery = Not calculated
V† 10.2 0.00006 mg/L 0.000008 0.00006 mg/L 0.000008 14.78%
QC value within limits for V Recovery = Not calculated
Zn† -13.1 -0.00027 mg/L 0.000011 -0.00027 mg/L 0.000011 4.01%
QC value within limits for Zn Recovery = Not calculated
QC Failed. Retry.

Sequence No.: 57 **Autosampler Location: 0**
Sample ID: CCB **Date Collected: 2/6/2008 21:41:52**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	449451.4	95.8	%	0.49				0.51%
Yr	272246.2	95.4	%	1.15				1.20%
Al†	-8.2	-0.00173	mg/L	0.006732	-0.00173	mg/L	0.006732	390.24%
QC value within limits for Al Recovery = Not calculated								
B_†	796.8	0.0254	mg/L	0.00072	0.0254	mg/L	0.00072	2.84%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-4.1	-0.00005	mg/L	0.000049	-0.00005	mg/L	0.000049	90.75%
QC value within limits for Ba Recovery = Not calculated								
Be†	12.4	0.00000	mg/L	0.000029	0.00000	mg/L	0.000029	757.01%
QC value within limits for Be Recovery = Not calculated								
Ca†	-12.6	-0.00168	mg/L	0.001720	-0.00168	mg/L	0.001720	102.23%
QC value within limits for Ca Recovery = Not calculated								
Cd†	-0.3	-0.00001	mg/L	0.000029	-0.00001	mg/L	0.000029	268.09%
QC value within limits for Cd Recovery = Not calculated								
Co†	-4.0	-0.00016	mg/L	0.000182	-0.00016	mg/L	0.000182	116.19%
QC value within limits for Co Recovery = Not calculated								
Cr†	11.7	0.00015	mg/L	0.000082	0.00015	mg/L	0.000082	55.80%
QC value within limits for Cr Recovery = Not calculated								
Cu†	263.7	0.00059	mg/L	0.000057	0.00059	mg/L	0.000057	9.69%
QC value within limits for Cu Recovery = Not calculated								
Fe†	0.1	0.00014	mg/L	0.003173	0.00014	mg/L	0.003173	>999.9%
QC value within limits for Fe Recovery = Not calculated								
K†	83.2	0.0609	mg/L	0.03072	0.0609	mg/L	0.03072	50.40%
QC value within limits for K Recovery = Not calculated								
Mg†	-5.2	-0.00184	mg/L	0.000211	-0.00184	mg/L	0.000211	11.46%
QC value within limits for Mg Recovery = Not calculated								

Mnt	-484.9	-0.00083 mg/L	0.000004	-0.00083 mg/L	0.000004	0.46%
QC value within limits for Mn	Recovery = Not calculated					
Mot	2.6	0.00020 mg/L	0.000252	0.00020 mg/L	0.000252	125.25%
QC value within limits for Mo	Recovery = Not calculated					
Nat	890.6	0.211 mg/L	0.0047	0.211 mg/L	0.0047	2.23%
QC value within limits for Na	Recovery = Not calculated					
Nit	-5.6	-0.00025 mg/L	0.000132	-0.00025 mg/L	0.000132	52.44%
QC value within limits for Ni	Recovery = Not calculated					
Pbt	7.8	0.00164 mg/L	0.000940	0.00164 mg/L	0.000940	57.37%
QC value within limits for Pb	Recovery = Not calculated					
Vt	21.1	0.00012 mg/L	0.000019	0.00012 mg/L	0.000019	16.01%
QC value within limits for V	Recovery = Not calculated					
Znt	-18.0	-0.00038 mg/L	0.000064	-0.00038 mg/L	0.000064	16.76%
QC value within limits for Zn	Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 58
Sample ID: MBLANK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 65
Date Collected: 2/6/2008 21:45:15
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	455040.5	97.0	%	0.69				0.71%
Yr	278356.5	97.5	%	0.02				0.02%
Alt	-38.9	-0.00819	mg/L	0.005222	-0.00819	mg/L	0.005222	63.73%
B_t	719.5	0.0229	mg/L	0.00041	0.0229	mg/L	0.00041	1.77%
Bat	7.2	0.00010	mg/L	0.000043	0.00010	mg/L	0.000043	44.72%
Bet	13.5	0.00000	mg/L	0.000015	0.00000	mg/L	0.000015	372.03%
Cat	121.7	0.0163	mg/L	0.00072	0.0163	mg/L	0.00072	4.43%
Cdt	1.1	0.00004	mg/L	0.000146	0.00004	mg/L	0.000146	371.94%
Cot	-4.0	-0.00016	mg/L	0.000008	-0.00016	mg/L	0.000008	5.02%
Crt	8.1	0.00010	mg/L	0.000049	0.00010	mg/L	0.000049	47.73%
Cut	241.3	0.00054	mg/L	0.000164	0.00054	mg/L	0.000164	30.47%
Fet	-0.9	-0.00098	mg/L	0.002140	-0.00098	mg/L	0.002140	219.35%
Kt	60.6	0.0444	mg/L	0.01326	0.0444	mg/L	0.01326	29.83%
Mgt	-3.3	-0.00116	mg/L	0.000577	-0.00116	mg/L	0.000577	49.65%
Mnt	-476.2	-0.00082	mg/L	0.000001	-0.00082	mg/L	0.000001	0.06%
Mot	1.9	0.00015	mg/L	0.000135	0.00015	mg/L	0.000135	89.64%
Nat	863.3	0.205	mg/L	0.0025	0.205	mg/L	0.0025	1.20%
Nit	-7.3	-0.00033	mg/L	0.000060	-0.00033	mg/L	0.000060	18.28%
Pbt	2.8	0.00058	mg/L	0.000972	0.00058	mg/L	0.000972	168.28%
Vt	13.1	0.00007	mg/L	0.000004	0.00007	mg/L	0.000004	5.74%
Znt	148.9	0.00316	mg/L	0.000005	0.00316	mg/L	0.000005	0.17%

Sequence No.: 59
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 2/6/2008 21:48:53
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	450337.9	96.0	%	0.48				0.50%
Yr	277903.8	97.3	%	1.32				1.35%
Alt	236.0	0.0497	mg/L	0.00306	0.0497	mg/L	0.00306	6.16%
B_t	2181.0	0.0694	mg/L	0.00063	0.0694	mg/L	0.00063	0.91%
Bat	1568.1	0.0208	mg/L	0.00018	0.0208	mg/L	0.00018	0.85%
Bet	3156.0	0.00097	mg/L	0.000027	0.00097	mg/L	0.000027	2.74%
Cat	7688.1	1.03	mg/L	0.010	1.03	mg/L	0.010	1.00%
Cdt	173.4	0.00662	mg/L	0.000125	0.00662	mg/L	0.000125	1.88%
Cot	1328.5	0.0523	mg/L	0.00058	0.0523	mg/L	0.00058	1.10%
Crt	844.3	0.0107	mg/L	0.00016	0.0107	mg/L	0.00016	1.49%
Cut	4737.0	0.0106	mg/L	0.00015	0.0106	mg/L	0.00015	1.40%
Fet	21.6	0.0233	mg/L	0.00196	0.0233	mg/L	0.00196	8.43%
Kt	1408.4	1.03	mg/L	0.034	1.03	mg/L	0.034	3.30%
Mgt	286.5	0.101	mg/L	0.0004	0.101	mg/L	0.0004	0.42%
Mnt	794.6	0.00137	mg/L	0.000011	0.00137	mg/L	0.000011	0.79%
Mot	263.7	0.0204	mg/L	0.00042	0.0204	mg/L	0.00042	2.04%
Nat	4985.6	1.18	mg/L	0.027	1.18	mg/L	0.027	2.27%
Nit	473.5	0.0213	mg/L	0.00021	0.0213	mg/L	0.00021	0.99%
Pbt	108.5	0.0227	mg/L	0.00068	0.0227	mg/L	0.00068	3.01%
Vt	385.0	0.00216	mg/L	0.000001	0.00216	mg/L	0.000001	0.04%
Znt	986.3	0.0208	mg/L	0.00024	0.0208	mg/L	0.00024	1.17%

Sequence No.: 60
Sample ID: LCS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 66
Date Collected: 2/6/2008 21:52:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	427868.2	91.2	%	0.09				0.10%
Yr	266978.3	93.5	%	0.14				0.15%
Alt	9736.7	2.05	mg/L	0.007	2.05	mg/L	0.007	0.35%
B_t	16025.7	0.508	mg/L	0.0056	0.508	mg/L	0.0056	1.11%
Bat	76223.4	1.01	mg/L	0.009	1.01	mg/L	0.009	0.86%
Bet	168141.3	0.0518	mg/L	0.00008	0.0518	mg/L	0.00008	0.15%
Cat	377976.3	50.7	mg/L	0.15	50.7	mg/L	0.15	0.29%
Cdt	5626.1	0.212	mg/L	0.0016	0.212	mg/L	0.0016	0.77%
Cot	26152.3	1.03	mg/L	0.009	1.03	mg/L	0.009	0.87%
Crt	80890.6	1.02	mg/L	0.003	1.02	mg/L	0.003	0.25%
Cut	448517.5	1.00	mg/L	0.001	1.00	mg/L	0.001	0.14%
Fet	4844.2	5.22	mg/L	0.002	5.22	mg/L	0.002	0.03%
Kt	27422.4	20.1	mg/L	0.02	20.1	mg/L	0.02	0.09%
Mgt	57500.7	20.3	mg/L	0.03	20.3	mg/L	0.03	0.13%
Mnt	303639.2	0.522	mg/L	0.0011	0.522	mg/L	0.0011	0.22%
Mot	12854.4	0.994	mg/L	0.0063	0.994	mg/L	0.0063	0.64%
Nat	206676.3	49.0	mg/L	0.08	49.0	mg/L	0.08	0.16%
Nit	11477.3	0.517	mg/L	0.0041	0.517	mg/L	0.0041	0.79%
Pbt	4933.1	1.03	mg/L	0.003	1.03	mg/L	0.003	0.28%
Vt	183767.4	1.01	mg/L	0.003	1.01	mg/L	0.003	0.26%
Znt	49571.8	1.05	mg/L	0.010	1.05	mg/L	0.010	0.93%

Sequence No.: 61
Sample ID: LCSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 67
Date Collected: 2/6/2008 21:55:35
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	436273.8	93.0	%	0.60				0.65%
Yr	271150.4	95.0	%	0.19				0.20%
Alt	9499.2	2.00	mg/L	0.015	2.00	mg/L	0.015	0.74%
B_t	15707.9	0.498	mg/L	0.0014	0.498	mg/L	0.0014	0.29%
Bat	74918.7	0.992	mg/L	0.0016	0.992	mg/L	0.0016	0.16%
Bet	165565.6	0.0510	mg/L	0.00003	0.0510	mg/L	0.00003	0.07%
Cat	362760.1	48.6	mg/L	0.15	48.6	mg/L	0.15	0.32%
Cdt	5526.3	0.208	mg/L	0.0007	0.208	mg/L	0.0007	0.32%
Cot	25643.0	1.01	mg/L	0.002	1.01	mg/L	0.002	0.18%
Crt	79571.1	1.01	mg/L	0.004	1.01	mg/L	0.004	0.39%
Cut	445438.9	0.994	mg/L	0.0034	0.994	mg/L	0.0034	0.34%
Fet	4711.6	5.08	mg/L	0.004	5.08	mg/L	0.004	0.07%
Kt	26187.0	19.2	mg/L	0.06	19.2	mg/L	0.06	0.33%
Mgt	54955.0	19.4	mg/L	0.03	19.4	mg/L	0.03	0.16%
Mnt	299820.6	0.516	mg/L	0.0023	0.516	mg/L	0.0023	0.45%
Mot	12639.0	0.978	mg/L	0.0020	0.978	mg/L	0.0020	0.20%
Nat	198507.9	47.1	mg/L	0.03	47.1	mg/L	0.03	0.06%
Nit	11263.6	0.507	mg/L	0.0003	0.507	mg/L	0.0003	0.07%
Pbt	4876.0	1.02	mg/L	0.006	1.02	mg/L	0.006	0.59%
Vt	181365.0	0.996	mg/L	0.0017	0.996	mg/L	0.0017	0.17%
Znt	48642.7	1.03	mg/L	0.004	1.03	mg/L	0.004	0.39%

Sequence No.: 62
Sample ID: 2802050292
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 68
Date Collected: 2/6/2008 21:58:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802050292

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	446633.0	95.2	%	1.53				1.61%
Yr	283181.3	99.2	%	0.58				0.58%
Alt	357.2	0.0752	mg/L	0.00722	0.0752	mg/L	0.00722	9.60%
B_t	5135.7	0.164	mg/L	0.0020	0.164	mg/L	0.0020	1.25%
Bat	6914.7	0.0916	mg/L	0.00172	0.0916	mg/L	0.00172	1.88%
Bet	-119.6	-0.00004	mg/L	0.000012	-0.00004	mg/L	0.000012	33.80%
Cat	364215.7	48.8	mg/L	0.03	48.8	mg/L	0.03	0.06%
Cdt	-19.6	-0.00072	mg/L	0.000111	-0.00072	mg/L	0.000111	15.32%
Cot	-0.6	-0.00003	mg/L	0.000137	-0.00003	mg/L	0.000137	547.01%
Crt	-5.1	-0.00007	mg/L	0.000133	-0.00007	mg/L	0.000133	205.19%
Cut	35367.1	0.0789	mg/L	0.00078	0.0789	mg/L	0.00078	1.00%
Fet	5.5	0.00591	mg/L	0.002165	0.00591	mg/L	0.002165	36.62%
Kt	5252.2	3.85	mg/L	0.057	3.85	mg/L	0.057	1.48%
Mgt	57540.1	20.3	mg/L	0.05	20.3	mg/L	0.05	0.24%
Mnt	3630.0	0.00624	mg/L	0.000126	0.00624	mg/L	0.000126	2.02%
Mot	60.1	0.00465	mg/L	0.000253	0.00465	mg/L	0.000253	5.43%
Nat	333992.1	79.2	mg/L	1.24	79.2	mg/L	1.24	1.57%
Nit	13.3	0.00060	mg/L	0.000043	0.00060	mg/L	0.000043	7.18%
Pbt	5.5	0.00116	mg/L	0.000774	0.00116	mg/L	0.000774	66.67%
Vt	786.3	0.00429	mg/L	0.000110	0.00429	mg/L	0.000110	2.56%
Znt	44932.0	0.953	mg/L	0.0055	0.953	mg/L	0.0055	0.57%

Sequence No.: 63
Sample ID: 2802050292MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 69
Date Collected: 2/6/2008 22:02:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802050292MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	424760.7	90.6	%	0.19				0.22%
Yr	269578.5	94.4	%	1.23				1.30%
Alt	9845.0	2.07	mg/L	0.024	2.07	mg/L	0.024	1.15%
B_t	20813.5	0.661	mg/L	0.0007	0.661	mg/L	0.0007	0.10%
Bat	83034.8	1.10	mg/L	0.001	1.10	mg/L	0.001	0.11%
Bet	162159.1	0.0500	mg/L	0.00003	0.0500	mg/L	0.00003	0.07%
Cat	725070.2	97.2	mg/L	0.14	97.2	mg/L	0.14	0.14%
Cdt	5698.0	0.215	mg/L	0.0008	0.215	mg/L	0.0008	0.37%
Cot	25772.0	1.01	mg/L	0.001	1.01	mg/L	0.001	0.10%
Crt	78937.2	0.999	mg/L	0.0013	0.999	mg/L	0.0013	0.13%
Cut	467547.5	1.04	mg/L	0.001	1.04	mg/L	0.001	0.07%
Fet	4691.2	5.06	mg/L	0.001	5.06	mg/L	0.001	0.02%
Kt	31508.4	23.1	mg/L	0.15	23.1	mg/L	0.15	0.66%
Mgt	112551.9	39.7	mg/L	0.07	39.7	mg/L	0.07	0.18%
Mnt	304331.5	0.524	mg/L	0.0006	0.524	mg/L	0.0006	0.11%
Mot	12658.8	0.979	mg/L	0.0022	0.979	mg/L	0.0022	0.23%
Nat	534764.4	127	mg/L	0.4	127	mg/L	0.4	0.30%
Nit	11294.8	0.509	mg/L	0.0046	0.509	mg/L	0.0046	0.90%
Pbt	4820.4	1.01	mg/L	0.003	1.01	mg/L	0.003	0.34%
Vt	181457.6	0.997	mg/L	0.0007	0.997	mg/L	0.0007	0.07%
Znt	95726.8	2.03	mg/L	0.001	2.03	mg/L	0.001	0.06%

Sequence No.: 68
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/6/2008 22:20:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	427581.3	91.2	%	0.21				0.23%
Yr	272730.1	95.5	%	2.06				2.15%
Al†	24233.8	5.10	mg/L	0.106	5.10	mg/L	0.106	2.07%
QC value within limits for Al	Recovery = 102.08%							
B_†	79149.8	2.51	mg/L	0.012	2.51	mg/L	0.012	0.46%
QC value within limits for B_	Recovery = 100.43%							
Ba†	382589.2	5.07	mg/L	0.008	5.07	mg/L	0.008	0.16%
QC value within limits for Ba	Recovery = 101.35%							
Be†	6585236.9	2.03	mg/L	0.029	2.03	mg/L	0.029	1.44%
QC value within limits for Be	Recovery = 101.48%							
Ca†	382202.8	51.2	mg/L	0.90	51.2	mg/L	0.90	1.76%
QC value within limits for Ca	Recovery = 102.49%							
Cd†	54568.2	2.04	mg/L	0.002	2.04	mg/L	0.002	0.12%
QC value within limits for Cd	Recovery = 101.95%							
Co†	130143.6	5.12	mg/L	0.017	5.12	mg/L	0.017	0.34%
QC value within limits for Co	Recovery = 102.43%							
Cr†	407016.9	5.15	mg/L	0.001	5.15	mg/L	0.001	0.02%
QC value within limits for Cr	Recovery = 102.98%							
Cu†	2218692.2	4.95	mg/L	0.014	4.95	mg/L	0.014	0.28%
QC value within limits for Cu	Recovery = 99.05%							
Fe†	4726.3	5.09	mg/L	0.100	5.09	mg/L	0.100	1.96%
QC value within limits for Fe	Recovery = 101.89%							
K†	68766.4	50.4	mg/L	0.93	50.4	mg/L	0.93	1.84%
QC value within limits for K	Recovery = 100.78%							
Mg†	144387.8	50.9	mg/L	0.88	50.9	mg/L	0.88	1.73%
QC value within limits for Mg	Recovery = 101.84%							
Mn†	2963478.3	5.10	mg/L	0.018	5.10	mg/L	0.018	0.35%
QC value within limits for Mn	Recovery = 101.97%							
Mo†	64438.4	4.98	mg/L	0.009	4.98	mg/L	0.009	0.18%
QC value within limits for Mo	Recovery = 99.69%							
Na†	211001.2	50.0	mg/L	1.17	50.0	mg/L	1.17	2.34%
QC value within limits for Na	Recovery = 100.03%							
Ni†	114379.7	5.15	mg/L	0.007	5.15	mg/L	0.007	0.13%
QC value within limits for Ni	Recovery = 103.07%							
Pb†	24704.7	5.17	mg/L	0.010	5.17	mg/L	0.010	0.19%
QC value within limits for Pb	Recovery = 103.50%							
V†	909391.3	5.00	mg/L	0.010	5.00	mg/L	0.010	0.20%
QC value within limits for V	Recovery = 99.91%							
Zn†	244726.9	5.16	mg/L	0.003	5.16	mg/L	0.003	0.06%
QC value within limits for Zn	Recovery = 103.11%							

All analyte(s) passed QC.

Sequence No.: 69
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/6/2008 22:24:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	458945.5	97.8	%	0.46				0.47%
Yr	281773.4	98.7	%	0.23				0.24%
Al†	-21.7	-0.00457	mg/L	0.002156	-0.00457	mg/L	0.002156	47.17%
QC value within limits for Al Recovery = Not calculated								
B_†	878.3	0.0280	mg/L	0.00103	0.0280	mg/L	0.00103	3.67%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	7.3	0.00010	mg/L	0.000064	0.00010	mg/L	0.000064	66.22%
QC value within limits for Ba Recovery = Not calculated								
Be†	1.3	0.00000	mg/L	0.000026	0.00000	mg/L	0.000026	>999.9%
QC value within limits for Be Recovery = Not calculated								
Ca†	-22.1	-0.00296	mg/L	0.000007	-0.00296	mg/L	0.000007	0.22%
QC value within limits for Ca Recovery = Not calculated								
Cd†	1.2	0.00005	mg/L	0.000028	0.00005	mg/L	0.000028	61.95%
QC value within limits for Cd Recovery = Not calculated								
Co†	-1.3	-0.00005	mg/L	0.000089	-0.00005	mg/L	0.000089	168.98%
QC value within limits for Co Recovery = Not calculated								
Cr†	7.8	0.00010	mg/L	0.000020	0.00010	mg/L	0.000020	20.71%
QC value within limits for Cr Recovery = Not calculated								
Cu†	527.5	0.00118	mg/L	0.000175	0.00118	mg/L	0.000175	14.91%
QC value within limits for Cu Recovery = Not calculated								
Fe†	1.3	0.00142	mg/L	0.000581	0.00142	mg/L	0.000581	40.94%
QC value within limits for Fe Recovery = Not calculated								
K†	35.1	0.0257	mg/L	0.00085	0.0257	mg/L	0.00085	3.29%
QC value within limits for K Recovery = Not calculated								
Mg†	-2.4	-0.00083	mg/L	0.000154	-0.00083	mg/L	0.000154	18.43%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-412.2	-0.00071	mg/L	0.000006	-0.00071	mg/L	0.000006	0.85%
QC value within limits for Mn Recovery = Not calculated								
Mo†	13.0	0.00100	mg/L	0.000446	0.00100	mg/L	0.000446	44.54%
QC value within limits for Mo Recovery = Not calculated								
Na†	656.2	0.156	mg/L	0.0034	0.156	mg/L	0.0034	2.17%
QC value within limits for Na Recovery = Not calculated								
Ni†	-7.5	-0.00034	mg/L	0.000172	-0.00034	mg/L	0.000172	50.88%
QC value within limits for Ni Recovery = Not calculated								
Pb†	8.0	0.00167	mg/L	0.000818	0.00167	mg/L	0.000818	49.09%
QC value within limits for Pb Recovery = Not calculated								
V†	12.9	0.00007	mg/L	0.000035	0.00007	mg/L	0.000035	49.15%
QC value within limits for V Recovery = Not calculated								
Zn†	-8.6	-0.00018	mg/L	0.000124	-0.00018	mg/L	0.000124	69.41%
QC value within limits for Zn Recovery = Not calculated								
QC Failed. Retry.								

Sequence No.: 70
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/6/2008 22:26:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	458536.3	97.8	%	0.21				0.22%
Yr	278984.2	97.7	%	0.87				0.89%
Al†	-39.7	-0.00837	mg/L	0.000206	-0.00837	mg/L	0.000206	2.46%
QC value within limits for Al Recovery = Not calculated								
B_†	690.7	0.0220	mg/L	0.00063	0.0220	mg/L	0.00063	2.85%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.3	0.00000	mg/L	0.000072	0.00000	mg/L	0.000072	>999.9%

QC value within limits for Ba	Recovery = Not calculated					
Be†	37.7	0.00001 mg/L	0.000002	0.00001 mg/L	0.000002	16.61%
QC value within limits for Be	Recovery = Not calculated					
Ca†	-17.1	-0.00229 mg/L	0.000733	-0.00229 mg/L	0.000733	32.00%
QC value within limits for Ca	Recovery = Not calculated					
Cd†	1.2	0.00004 mg/L	0.000040	0.00004 mg/L	0.000040	94.50%
QC value within limits for Cd	Recovery = Not calculated					
Co†	-5.8	-0.00023 mg/L	0.000055	-0.00023 mg/L	0.000055	23.87%
QC value within limits for Co	Recovery = Not calculated					
Cr†	9.9	0.00012 mg/L	0.000119	0.00012 mg/L	0.000119	95.23%
QC value within limits for Cr	Recovery = Not calculated					
Cu†	304.9	0.00068 mg/L	0.000025	0.00068 mg/L	0.000025	3.62%
QC value within limits for Cu	Recovery = Not calculated					
Fe†	0.2	0.00017 mg/L	0.003039	0.00017 mg/L	0.003039	>999.9%
QC value within limits for Fe	Recovery = Not calculated					
K†	56.0	0.0411 mg/L	0.00530	0.0411 mg/L	0.00530	12.91%
QC value within limits for K	Recovery = Not calculated					
Mg†	1.1	0.00040 mg/L	0.001005	0.00040 mg/L	0.001005	253.40%
QC value within limits for Mg	Recovery = Not calculated					
Mn†	-418.2	-0.00072 mg/L	0.000000	-0.00072 mg/L	0.000000	0.06%
QC value within limits for Mn	Recovery = Not calculated					
Mo†	7.2	0.00056 mg/L	0.000278	0.00056 mg/L	0.000278	49.96%
QC value within limits for Mo	Recovery = Not calculated					
Na†	673.7	0.160 mg/L	0.0057	0.160 mg/L	0.0057	3.58%
QC value within limits for Na	Recovery = Not calculated					
Ni†	-5.5	-0.00025 mg/L	0.000156	-0.00025 mg/L	0.000156	62.83%
QC value within limits for Ni	Recovery = Not calculated					
Pb†	7.2	0.00152 mg/L	0.000387	0.00152 mg/L	0.000387	25.52%
QC value within limits for Pb	Recovery = Not calculated					
V†	20.5	0.00011 mg/L	0.000032	0.00011 mg/L	0.000032	28.71%
QC value within limits for V	Recovery = Not calculated					
Zn†	-18.2	-0.00038 mg/L	0.000019	-0.00038 mg/L	0.000019	4.81%
QC value within limits for Zn	Recovery = Not calculated					

QC Failed. Retry.

Sequence No.: 71 **Autosampler Location: 0**
Sample ID: CCB **Date Collected: 2/6/2008 22:29:06**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	462367.7	98.6	%	0.85				0.86%
Yr	276845.0	97.0	%	0.82				0.84%
Al†	2.6	0.00055	mg/L	0.007810	0.00055	mg/L	0.007810	>999.9%
QC value within limits for Al	Recovery = Not calculated							
B_†	619.2	0.0197	mg/L	0.00019	0.0197	mg/L	0.00019	0.97%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-4.9	-0.00006	mg/L	0.000027	-0.00006	mg/L	0.000027	42.27%
QC value within limits for Ba	Recovery = Not calculated							
Be†	49.8	0.00002	mg/L	0.000013	0.00002	mg/L	0.000013	87.05%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-15.2	-0.00204	mg/L	0.000565	-0.00204	mg/L	0.000565	27.69%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-4.4	-0.00016	mg/L	0.000094	-0.00016	mg/L	0.000094	57.90%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.0	-0.00004	mg/L	0.000044	-0.00004	mg/L	0.000044	107.74%
QC value within limits for Co	Recovery = Not calculated							
Cr†	8.5	0.00011	mg/L	0.000008	0.00011	mg/L	0.000008	7.20%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	267.4	0.00060	mg/L	0.000004	0.00060	mg/L	0.000004	0.67%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-0.1	-0.00006	mg/L	0.001384	-0.00006	mg/L	0.001384	>999.9%
QC value within limits for Fe	Recovery = Not calculated							
K†	38.7	0.0284	mg/L	0.01681	0.0284	mg/L	0.01681	59.30%
QC value within limits for K	Recovery = Not calculated							
Mg†	-4.1	-0.00146	mg/L	0.000163	-0.00146	mg/L	0.000163	11.19%
QC value within limits for Mg	Recovery = Not calculated							

Mn†	-412.8	-0.00071 mg/L	0.000010	-0.00071 mg/L	0.000010	1.44%
QC value within limits for Mn	Recovery = Not calculated					
Mo†	3.4	0.00027 mg/L	0.000050	0.00027 mg/L	0.000050	18.61%
QC value within limits for Mo	Recovery = Not calculated					
Na†	624.3	0.148 mg/L	0.0098	0.148 mg/L	0.0098	6.59%
QC value within limits for Na	Recovery = Not calculated					
Ni†	-9.0	-0.00041 mg/L	0.000188	-0.00041 mg/L	0.000188	46.42%
QC value within limits for Ni	Recovery = Not calculated					
Pb†	7.9	0.00166 mg/L	0.000406	0.00166 mg/L	0.000406	24.45%
QC value within limits for Pb	Recovery = Not calculated					
V†	10.6	0.00006 mg/L	0.000103	0.00006 mg/L	0.000103	174.83%
QC value within limits for V	Recovery = Not calculated					
Zn†	-22.2	-0.00047 mg/L	0.000064	-0.00047 mg/L	0.000064	13.60%
QC value within limits for Zn	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 72
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/6/2008 22:32:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	448717.5	95.7	%	0.09				0.09%
Yr	277247.1	97.1	%	0.21				0.22%
Al†	12154.0	2.56	mg/L	0.001	2.56	mg/L	0.001	0.05%
QC value within limits for Al	Recovery = 102.39%							
B_†	38852.2	1.23	mg/L	0.002	1.23	mg/L	0.002	0.15%
QC value within limits for B_	Recovery = 98.59%							
Ba†	191631.3	2.54	mg/L	0.000	2.54	mg/L	0.000	0.01%
QC value within limits for Ba	Recovery = 101.52%							
Be†	3288472.8	1.01	mg/L	0.000	1.01	mg/L	0.000	0.02%
QC value within limits for Be	Recovery = 101.35%							
Ca†	191101.3	25.6	mg/L	0.06	25.6	mg/L	0.06	0.23%
QC value within limits for Ca	Recovery = 102.49%							
Cd†	26687.1	0.997	mg/L	0.0014	0.997	mg/L	0.0014	0.14%
QC value within limits for Cd	Recovery = 99.73%							
Co†	64455.1	2.54	mg/L	0.004	2.54	mg/L	0.004	0.14%
QC value within limits for Co	Recovery = 101.46%							
Cr†	199595.9	2.52	mg/L	0.001	2.52	mg/L	0.001	0.04%
QC value within limits for Cr	Recovery = 101.00%							
Cu†	1101732.8	2.46	mg/L	0.006	2.46	mg/L	0.006	0.24%
QC value within limits for Cu	Recovery = 98.37%							
Fe†	2375.7	2.56	mg/L	0.001	2.56	mg/L	0.001	0.02%
QC value within limits for Fe	Recovery = 102.43%							
K†	33979.4	24.9	mg/L	0.15	24.9	mg/L	0.15	0.61%
QC value within limits for K	Recovery = 99.60%							
Mg†	72443.8	25.5	mg/L	0.08	25.5	mg/L	0.08	0.33%
QC value within limits for Mg	Recovery = 102.20%							
Mn†	1497724.6	2.58	mg/L	0.002	2.58	mg/L	0.002	0.06%
QC value within limits for Mn	Recovery = 103.07%							
Mo†	31729.7	2.45	mg/L	0.008	2.45	mg/L	0.008	0.32%
QC value within limits for Mo	Recovery = 98.18%							
Na†	104526.1	24.8	mg/L	0.06	24.8	mg/L	0.06	0.26%
QC value within limits for Na	Recovery = 99.11%							
Ni†	56914.3	2.56	mg/L	0.002	2.56	mg/L	0.002	0.08%
QC value within limits for Ni	Recovery = 102.57%							
Pb†	12312.0	2.58	mg/L	0.010	2.58	mg/L	0.010	0.40%
QC value within limits for Pb	Recovery = 103.16%							
V†	451099.3	2.48	mg/L	0.000	2.48	mg/L	0.000	0.02%
QC value within limits for V	Recovery = 99.11%							
Zn†	121441.8	2.56	mg/L	0.002	2.56	mg/L	0.002	0.07%
QC value within limits for Zn	Recovery = 102.33%							

All analyte(s) passed QC.

Sequence No.: 78
Sample ID: 2802050697_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 79
Date Collected: 2/6/2008 22:56:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802050697_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	383719.4	81.8	%	0.25				0.30%
Yr	254096.4	89.0	%	0.70				0.79%
Alt	-32.6	-0.00687	mg/L	0.005562	-0.0137	mg/L	0.01112	81.00%
B_t	57207.5	1.82	mg/L	0.004	3.64	mg/L	0.008	0.22%
Bat	984.5	0.0130	mg/L	0.00004	0.0261	mg/L	0.00009	0.34%
Bet	-1406.6	-0.00043	mg/L	0.000011	-0.00087	mg/L	0.000022	2.51%
Cat	1663703.4	223	mg/L	1.5	446	mg/L	2.9	0.66%
Cdt	-7.7	-0.00027	mg/L	0.000113	-0.00055	mg/L	0.000226	41.16%
Cot	68.8	0.00271	mg/L	0.000560	0.00541	mg/L	0.001121	20.71%
Crt	1637.0	0.0207	mg/L	0.00023	0.0414	mg/L	0.00045	1.10%
Cut	995.8	0.00222	mg/L	0.000112	0.00445	mg/L	0.000224	5.03%
Fet	39.2	0.0423	mg/L	0.00304	0.0845	mg/L	0.00609	7.20%
Kt	21956.1	16.1	mg/L	0.00	32.2	mg/L	0.00	0.01%
Mgt	292724.1	103	mg/L	0.6	206	mg/L	1.2	0.57%
Mnt	295569.9	0.508	mg/L	0.0006	1.02	mg/L	0.001	0.11%
Mot	498.8	0.0386	mg/L	0.00004	0.0772	mg/L	0.00008	0.11%
Nat	3103370.7	736	mg/L	4.6	1470	mg/L	9.2	0.63%
Nit	132.0	0.00595	mg/L	0.000147	0.0119	mg/L	0.00029	2.48%
Pbt	-32.7	-0.00686	mg/L	0.001277	-0.0137	mg/L	0.00255	18.62%
Vt	4409.9	0.0242	mg/L	0.00001	0.0484	mg/L	0.00002	0.04%
Znt	37.4	0.00075	mg/L	0.000030	0.00151	mg/L	0.000059	3.95%

EPA 200.7/6010B QC Check List MME021508

Analyst CSK Analysis Date 2-11-08 Reviewer/Date 2-12-08

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: CSK
Date: 2-12-08

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 080211
Date Started: 2/11/08
Analyst ID: csk

SAMPLE ID

LINEARITY	(18:48)	Wash	(18:59)	FILTERCHECK	(19:38)
2802010008	(19:51)	2802050265_2	(20:02)	2802050757	(20:17)
2802050757	(20:38)	2801300506	(20:43)	2801300508	(20:47)
2801300509	(20:51)	2801300512_2	(20:56)	2801300515	(21:00)
2801300516	(21:05)	2802050266	(21:09)	2802050560	(21:13)
2802050267	(21:43)	2802050658	(21:47)	2802050386	(21:50)
2802050566	(21:55)	2802050567	(21:59)	2802050700	(22:03)
2802050291	(22:08)	2802050694	(22:12)	2802050699	(22:16)
2802080108	(22:45)	2802080111	(22:55)	2802080112	(22:59)
2802080113	(23:03)	2802080114	(23:19)	2802080115	(23:23)
2802080116	(23:27)	2802080117	(23:31)	2802080118	(23:35)
2802080119	(23:39)	2801150171	(23:43)	2802060676	(23:54)
2802060679	(0:07)	D801300513_2	(0:11)	2802050238	(0:15)
2802050246	(0:20)	2802050247	(0:24)	2802070100	(0:28)
2802070104	(0:33)	2802070106	(0:36)	2802060371_2	(0:41)
2802050696_1	(0:45)	2802060371	(1:02)	LINEARITY	(8:24)
Wash	(8:35)	1PPM	(9:48)		

COMMENT:
From 2802010008 to 2802050699 is Re-run of 080208 for "B"
2801150171 is Rechecks
Digestion Sample: 2802060371 & 2802050696 QC Links To-
080210.

Analyst: CSK 2-12-08

Approved By: MLE02/13/08

Peer Reviewed & BKK 2/12/08

BATCH NUMBER for 080211

Test Parameter:

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

Batch ID: 2802010008

2802010008	2802050265_2X	2802050757
2802050757	2801300506	2801300508
2801300509	2801300512_2X	2801300515
2801300516	2802050266	2802050560
2802050267	2802050658	2802050386
2802050566	2802050567	2802050700
2802050291	2802050694	2802050699

Batch ID: 2802080108

2802080108	2802080111	2802080112
2802080113	2802080114	2802080115
2802080116	2802080117	2802080118
2802080119	2801150171	2802060676
2802060679	2802050238	2802050246
2802050247	2802070100	2802070104
2802070106	2802060371_2X	2802050696_10X
2802060371		

File ID: 080211 CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	2/11/08	18:44	1	9.9704	9.97	95-105	99.7%
LINEARITY	2/11/08	18:48	1	0.0017	.0017		
ICSA	2/11/08	18:51	1	-0.0004	ND	80-120	
ICSAB	2/11/08	18:55	1	.24597	.246	80-120	98.3%
Wash	2/11/08	18:59	1	0.0000	0.0000		
QC-25 1ppm	2/11/08	19:14	1	1.0204	1.0		
CCV	2/11/08	19:18	1	5.2196	5.22	90-110	104%
ICB	2/11/08	19:24	1	0.0000	0		
MRL	2/11/08	19:27	1	0.0101	.0101	50-150	101%
MRL/2	2/11/08	19:30	1	0.0052	.0052		
MRL/5	2/11/08	19:34	1	0.0021	.0021		
FILTERCHECK	2/11/08	19:38	1	0.0001	0.0001		
MBLANK	2/11/08	19:41	1	0.0001	0.0000		
LCS	2/11/08	19:45	1	1.0123	1.01	85-115	101%
LCSD	2/11/08	19:48	1	1.0090	1.01	85-115	100%
2802010008	2/11/08	19:51	1	-0.0004	ND		
2802010008MS	2/11/08	19:55	1	.99987	1.00	[1.000]	99.9%
2802010008MSD	2/11/08	19:58	1	1.0018	1.00	[1.002]	100%
2802010008T	2/11/08	19:58	1		1.00	70 - 130	
2802050265_2X	2/11/08	20:02	2	-0.0001	ND		
CCV	2/11/08	20:06	1	5.2482	5.25	90-110	104%
CCB	2/11/08	20:14	1	0.0001	0.0001		
2802050757	2/11/08	20:17	1	0.0015	.0015		
CCB	2/11/08	20:35	1	0.0001	0.0001		
2802050757	2/11/08	20:38	1	0.0016	.0016		
2801300506	2/11/08	20:43	1	-0.0010	ND		
2801300508	2/11/08	20:47	1	-0.0007	ND		
2801300509	2/11/08	20:51	1	-0.0008	ND		
2801300512_2X	2/11/08	20:56	2	-0.0001	ND		
2801300515	2/11/08	21:00	1	-0.0008	ND		
2801300516	2/11/08	21:05	1	-0.0008	ND		
2802050266	2/11/08	21:09	1	-0.0007	ND		
2802050560	2/11/08	21:13	1	0.0003	0.0002		
2802050560MS	2/11/08	21:18	1	1.0344	1.03	[1.034]	103%
CCV	2/11/08	21:21	1	5.2695	5.27	90-110	105%
CCB	2/11/08	21:32	1	-0.0000	ND		
MCV	2/11/08	21:36	1	2.6086	2.61	90-110	104%
2802050560MSD	2/11/08	21:40	1	1.0116	1.01	[1.012]	101%
2802050560T	2/11/08	21:40	1		1.00	70 - 130	
2802050267	2/11/08	21:43	1	-0.0007	ND		
2802050658	2/11/08	21:47	1	-0.0008	ND		
2802050386	2/11/08	21:50	1	0.0065	.0065		
2802050566	2/11/08	21:55	1	-0.0009	ND		
2802050567	2/11/08	21:59	1	-0.0009	ND		
2802050700	2/11/08	22:03	1	-0.0007	ND		
2802050291	2/11/08	22:08	1	0.0016	.0016		

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Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2802050694	2/11/08	22:12	1	-0.0006	ND		
2802050699	2/11/08	22:16	1	-0.0006	ND		
CCV	2/11/08	22:20	1	5.2134	5.21	90-110	104%
CCB	2/11/08	22:28	1	-0.0001	ND		
MBLANK	2/11/08	22:32	1	0.0000	0.0000		
MRL	2/11/08	22:35	1	.01023	.0102	50-150	102%
LCS	2/11/08	22:39	1	1.0065	1.01	85-115	100%
LCSD	2/11/08	22:42	1	1.0080	1.01	85-115	100%
2802080108	2/11/08	22:45	1	-0.0006	ND		
2802080108MS	2/11/08	22:49	1	1.0013	1.00	[1.001]	100%
2802080108MSD	2/11/08	22:52	1	1.0026	1.00	[1.003]	100%
2802080108T	2/11/08	22:52	1		1.00	70 - 130	
2802080111	2/11/08	22:55	1	-0.0006	ND		
2802080112	2/11/08	22:59	1	-0.0006	ND		
2802080113	2/11/08	23:03	1	-0.0007	ND		
CCV	2/11/08	23:07	1	5.185	5.18	90-110	103%
CCB	2/11/08	23:12	1	0.0000	0.0000		
MCV	2/11/08	23:16	1	2.5832	2.58	90-110	103%
2802080114	2/11/08	23:19	1	-0.0006	ND		
2802080115	2/11/08	23:23	1	-0.0006	ND		
2802080116	2/11/08	23:27	1	0.0148	.015		
2802080117	2/11/08	23:31	1	-0.0006	ND		
2802080118	2/11/08	23:35	1	-0.0007	ND		
2802080119	2/11/08	23:39	1	-0.0005	ND		
2801150171	2/11/08	23:43	1	-0.0011	ND		
2801150171MS	2/11/08	23:48	1	1.0320	1.03	[1.032]	103%
2801150171MSD	2/11/08	23:51	1	1.0238	1.02	[1.024]	102%
2801150171T	2/11/08	23:51	1		1.00	70 - 130	
2802060676	2/11/08	23:54	1	-0.0008	ND		
CCV	2/11/08	23:58	1	5.2551	5.26	90-110	105%
CCB	2/12/08	0:04	1	-0.0001	ND		
2802060679	2/12/08	0:07	1	-0.0005	ND		
D801300513_2X	2/12/08	0:11	2	-0.0007	ND		
2802050238	2/12/08	0:15	1	-0.0008	ND		
2802050246	2/12/08	0:20	1	-0.0006	ND		
2802050247	2/12/08	0:24	1	-0.0006	ND		
2802070100	2/12/08	0:28	1	0.0060	.006		
2802070104	2/12/08	0:33	1	0.0084	.0084		
2802070106	2/12/08	0:36	1	-0.0005	ND		
2802060371_2X	2/12/08	0:41	2	0.0140	.014		
2802050696_10X	2/12/08	0:45	10	0.0090	.009		
CCV	2/12/08	0:49	1	5.3295	5.33	90-110	106%
CCB	2/12/08	0:55	1	-0.0000	ND		
MCV	2/12/08	0:59	1	2.5943	2.59	90-110	103%
2802060371	2/12/08	1:02	1	0.0141	.014		
ECV	2/12/08	1:07	1	5.2677	5.27	90-110	105%
ECB	2/12/08	1:15	1	-0.0000	ND		
ICV	2/12/08	8:21	1	9.9557	9.96	95-105	99.5%

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Sample ID	Time	SCA	YR	AG	AL	B	BA	BE	CA	CD	CO	CR
ICV	18:44	N/A	N/A	2.01/2	10.2/10	5.06	10.0/10	4.05/4	100/100	5.06/5	10.0	9.97/10
LINEARITY	18:48	N/A	N/A	-.036	-.006	0.053	0.002	-.000	294/300	0.000	0.002	0.002
ICSA	18:51	N/A	N/A	-.035	249/250	0.016	0.002	-.000	249/250	-.000	0.001	-.000
ICSAB	18:55	N/A	N/A	0.472	248/250	0.005	0.259/.25	0.247/.25	249/250	0.493/.5	0.239/.25	0.246/.25
Wash	18:59	N/A	N/A	0.0003	0.0020	0.0087	-.0000	0.0000	-.0005	0.0001	0.0000	0.0000
QC-25 1ppm	19:14	N/A	N/A	0.9686	0.9910	0.9692	1.063	1.021	1.031	0.9970	1.074	1.020
CCV	19:18	N/A	N/A	1.00/1	5.03/5	2.58	5.22/5	2.14/2	51.6/50	2.09/2	5.26	5.22/5
ICB	19:24	N/A	N/A	0.0003	0.0053	0.0174	-.0002	-.0000	-.0065	0.0001	-.0002	0.0000
MRL	19:27	N/A	N/A	0.010/.01	0.047/.05	0.061	0.020/.02	0.001/.001	1.02/1	0.006/.005	0.052/.05	0.010/.01
MRL/2	19:30	N/A	N/A	0.005/.01	0.024(.05)	0.037	0.010/.02	0.000(.001)	0.518/1	0.003/.005	0.026/.05	0.005/.01
MRL/5	19:34	N/A	N/A	0.002(.01)	0.007(.05)	0.022	0.004(.02)	0.000(.001)	0.207(1)	0.001(.005)	0.011(.05)	0.002(.01)
FILTERCHECK	19:38	N/A	N/A	0.0000	-.0047	0.0114	-.0002	-.0000	-.0079	0.0001	-.0001	0.0001
MBLANK	19:41	N/A	N/A	0.0002	-.0022	0.0111	-.0003	-.0001	-.0039	-.0000	-.0002	0.0001
LCS	19:45	N/A	N/A	0.483/.5	1.94/2	0.501	1.02/1	0.053/.05	51.5/50	0.212/.2	1.03/1	1.01/1
LCSD	19:48	N/A	N/A	0.483/.5	1.90/2	0.505	1.02/1	0.053/.05	50.6/50	0.212/.2	1.03/1	1.01/1
2802010008	19:51	N/A	N/A	0.0002	-.0017	1.844	0.0341	-.0001	4.507	0.0000	-.0002	-.0004
2802010008MS	19:55	N/A	N/A	0.4449	1.949	2.322	1.067	0.0520	56.18	0.2153	1.030	0.9999
2802010008MSD	19:58	N/A	N/A	0.4495	1.929	2.318	1.075	0.0521	54.40	0.2156	1.030	1.002
2802050265_2X	20:02	N/A	N/A	-.0003	0.0795	4.954	0.0083	-.0016	366.5	-.0018	-.0023	-.0001
CCV	20:06	N/A	N/A	1.01/1	5.11/5	2.63	5.26/5	2.14/2	51.2/50	2.11/2	5.28	5.25/5
CCB	20:14	N/A	N/A	0.0003	-.0006	0.0283	-.0002	-.0000	-.0056	0.0002	-.0001	0.0001
2802050757	20:17	N/A	N/A	0.0004	-.0008	0.4395	0.0572	-.0001	95.38	-.0008	-.0002	0.0015
CCB	20:35	N/A	N/A	0.0002	-.0026	0.0240	-.0003	-.0000	-.0110	-.0000	-.0003	0.0001
2802050757	20:38	N/A	N/A	0.0003	-.0042	0.4416	0.0575	-.0002	96.32	-.0008	-.0005	0.0016
2801300506	20:43	N/A	N/A	0.0001	-.0013	0.2238	0.0794	-.0002	64.06	-.0007	-.0005	-.0010
2801300508	20:47	N/A	N/A	-.0001	0.0076	0.2124	0.0756	-.0001	44.23	-.0006	-.0005	-.0007
2801300509	20:51	N/A	N/A	-.0001	0.0110	0.1975	0.0654	-.0001	35.03	-.0005	-.0003	-.0008
2801300512_2X	20:56	N/A	N/A	0.0005	0.0098	0.6511	0.0456	-.0003	30.28	-.0004	-.0011	-.0001
2801300515	21:00	N/A	N/A	0.0004	-.0019	0.2122	0.0389	-.0002	52.09	-.0008	-.0004	-.0008
2801300516	21:05	N/A	N/A	0.0004	0.0047	0.4460	0.0175	-.0001	25.32	-.0004	-.0005	-.0008
2802050266	21:09	N/A	N/A	-.0001	-.0046	0.9077	-.0002	-.0002	0.1512	-.0001	-.0003	-.0007
2802050560	21:13	N/A	N/A	0.0001	-.0017	0.0385	0.1203	-.0002	82.83	-.0008	-.0005	0.0003
2802050560MS	21:18	N/A	N/A	0.4536	2.039	0.5448	1.166	0.0531	130.7	0.2201	1.034	1.034
CCV	21:21	N/A	N/A	1.01/1	5.15/5	2.61	5.29/5	2.15/2	51.3/50	2.12/2	5.31	5.27/5
CCB	21:32	N/A	N/A	0.0002	0.0001	0.0226	-.0003	-.0000	-.0131	-.0000	-.0002	-.0000
MCV	21:36	N/A	N/A	0.479/.5	2.53/2.5	1.28	2.65/2.5	1.08/1	25.8/25	1.04/1	2.64	2.61/2.5
2802050560MSD	21:40	N/A	N/A	0.4206	1.970	0.5541	1.145	0.0521	130.5	0.2178	1.020	1.012
2802050267	21:43	N/A	N/A	0.0002	0.0008	0.5667	-.0001	-.0001	0.0015	-.0000	-.0002	-.0007
2802050658	21:47	N/A	N/A	0.0003	-.0002	0.0426	-.0003	-.0000	-.0088	-.0001	0.0001	-.0008
2802050386	21:50	N/A	N/A	-.0000	0.0003	0.2170	0.0778	-.0002	94.02	-.0008	-.0002	0.0065
2802050566	21:55	N/A	N/A	0.0001	-.0076	0.1219	0.1871	-.0002	91.65	-.0009	-.0005	-.0009
2802050567	21:59	N/A	N/A	0.0002	-.0100	0.1202	0.1896	-.0002	90.19	-.0009	-.0006	-.0009
2802050700	22:03	N/A	N/A	0.0001	0.0049	0.1865	0.1059	-.0002	86.38	-.0008	-.0005	-.0007
2802050291	22:08	N/A	N/A	0.0001	0.0261	0.1481	0.0736	-.0001	51.76	-.0008	-.0006	0.0016
2802050694	22:12	N/A	N/A	0.0003	0.0352	0.0227	0.0043	-.0001	23.45	-.0006	-.0004	-.0006
2802050699	22:16	N/A	N/A	-.0000	0.0011	0.2118	0.0570	-.0002	111.6	-.0008	-.0003	-.0006
CCV	22:20	N/A	N/A	1.00/1	5.13/5	2.57	5.22/5	2.13/2	51.3/50	2.08/2	5.25	5.21/5
CCB	22:28	N/A	N/A	-.0000	0.0021	0.0180	-.0003	-.0001	-.0127	-.0001	-.0002	-.0001
MBLANK	22:32	N/A	N/A	0.0002	-.0008	0.0158	-.0003	-.0000	-.0094	-.0000	-.0000	0.0000

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Sample ID	Time	SCA	YR	AG	AL	B	BA	BE	CA	CD	CO	CR
MRL	22:35	N/A	N/A	0.010/.01	0.046/.05	0.062	0.021/.02	0.001/.001	1.01/1	0.006/.005	0.052/.05	0.010/.01
LCS	22:39	N/A	N/A	0.475/.5	1.90/2	0.496	1.01/1	0.052/.05	50.8/50	0.209/.2	1.02/1	1.01/1
LCSD	22:42	N/A	N/A	0.482/.5	1.98/2	0.504	1.02/1	0.053/.05	51.0/50	0.210/.2	1.03/1	1.01/1
2802080108	22:45	N/A	N/A	0.0003	0.0031	0.0313	0.0084	-.0001	2.846	-.0002	0.0029	-.0006
2802080108MS	22:49	N/A	N/A	0.4397	1.990	0.5196	1.021	0.0517	53.51	0.2118	1.026	1.001
2802080108MSD	22:52	N/A	N/A	0.4572	1.990	0.5219	1.028	0.0518	53.32	0.2136	1.032	1.003
2802080111	22:55	N/A	N/A	0.0001	-.0008	0.1243	0.0334	-.0001	17.04	-.0002	0.0017	-.0006
2802080112	22:59	N/A	N/A	0.0000	-.0012	0.0116	-.0000	-.0001	0.0117	-.0002	0.0005	-.0006
2802080113	23:03	N/A	N/A	0.0001	0.0025	0.0307	0.0080	-.0000	3.257	-.0002	0.0017	-.0007
CCV	23:07	N/A	N/A	0.999/1	5.17/5	2.55	5.21/5	2.13/2	51.2/50	2.08/2	5.23	5.18/5
CCB	23:12	N/A	N/A	0.0002	-.0015	0.0183	-.0004	-.0001	-.0129	-.0001	-.0005	0.0000
MCV	23:16	N/A	N/A	0.478/.5	2.55/2.5	1.28	2.62/2.5	1.06/1	25.7/25	1.03/1	2.63	2.58/2.5
2802080114	23:19	N/A	N/A	-.0000	-.0056	0.0179	-.0000	-.0000	-.0135	0.0000	0.0002	-.0006
2802080115	23:23	N/A	N/A	0.0000	0.0027	0.0215	0.0142	-.0001	6.183	-.0001	0.0004	-.0006
2802080116	23:27	N/A	N/A	0.0029	1.025	0.1868	0.1087	0.0547	42.11	0.0057	-.0005	0.0148
2802080117	23:31	N/A	N/A	0.0001	0.0128	0.1854	0.0366	-.0001	21.19	-.0004	-.0003	-.0006
2802080118	23:35	N/A	N/A	0.0001	0.0030	0.0187	0.0126	-.0001	5.676	-.0003	0.0015	-.0007
2802080119	23:39	N/A	N/A	-.0001	0.0111	0.1920	0.0368	-.0002	21.49	-.0004	-.0003	-.0005
2801150171	23:43	N/A	N/A	-.0002	-.0049	0.1567	0.1563	-.0002	80.43	-.0008	-.0007	-.0011
2801150171MS	23:48	N/A	N/A	0.4359	2.030	0.6664	1.185	0.0520	128.3	0.2196	1.056	1.032
2801150171MSD	23:51	N/A	N/A	0.4345	2.029	0.6602	1.191	0.0522	128.7	0.2191	1.045	1.024
2802060676	23:54	N/A	N/A	-.0001	0.0033	0.1848	0.0406	-.0002	89.27	-.0007	-.0004	-.0008
CC	23:58	N/A	N/A	1.01/1	5.27/5	2.59	5.27/5	2.13/2	51.6/50	2.11/2	5.30	5.26/5
CC	0:04	N/A	N/A	0.0002	0.0018	0.0178	-.0003	-.0000	-.0142	-.0003	-.0004	-.0001
2802060679	0:07	N/A	N/A	0.0000	-.0064	0.0232	-.0002	-.0000	-.0141	0.0000	-.0002	-.0005
D801300513_2X	0:11	N/A	N/A	-.0004	-.0078	0.3310	0.1719	-.0005	149.2	-.0020	-.0012	-.0007
2802050238	0:15	N/A	N/A	0.0001	0.0288	0.1549	0.1574	-.0002	77.88	-.0010	-.0004	-.0008
2802050246	0:20	N/A	N/A	0.0001	0.0043	0.1053	0.1933	-.0002	84.83	-.0010	-.0006	-.0006
2802050247	0:24	N/A	N/A	-.0005	0.0110	0.1042	0.2218	-.0002	85.67	-.0010	-.0003	-.0006
2802070100	0:28	N/A	N/A	0.0001	-.0059	0.1174	0.0827	-.0002	75.16	-.0008	-.0005	0.0060
2802070104	0:33	N/A	N/A	0.0000	0.0050	0.1659	0.0833	-.0001	34.44	-.0006	-.0007	0.0084
2802070106	0:36	N/A	N/A	0.0004	-.0036	0.0326	0.0635	-.0002	75.23	-.0008	-.0006	-.0005
2802060371_2X	0:41	N/A	N/A	0.0009	0.2390	1.163	0.1848	-.0006	217.3	0.0016	-.0002	0.0140
2802050696_10X	0:45	N/A	N/A	0.0031	0.0114	3.651	0.0263	-.0018	450.4	-.0025	0.0157	0.0090
CCV	0:49	N/A	N/A	1.02/1	5.25/5	2.63	5.33/5	2.14/2	51.5/50	2.14/2	5.37	5.33/5
CCB	0:55	N/A	N/A	0.0001	0.0012	0.0164	-.0003	-.0000	-.0141	0.0001	-.0002	-.0000
MCV	0:59	N/A	N/A	0.482/.5	2.60/2.5	1.29	2.63/2.5	1.06/1	25.8/25	1.05/1	2.66	2.59/2.5
2802060371	1:02	N/A	N/A	0.0002	0.2255	1.155	0.1825	-.0004	212.9	0.0021	0.0008	0.0141
ECV	1:07	N/A	N/A	1.02/1	5.20/5	2.61	5.26/5	2.16/2	51.5/50	2.11/2	5.30	5.27/5
ECB	1:15	N/A	N/A	0.0000	0.0016	0.0204	-.0004	-.0000	-.0133	-.0000	-.0003	-.0000
ICV	8:21	N/A	N/A	2.00/2	10.1/10	5.12	10.0/10	4.08/4	100/100	5.11/5	10.1	9.96/10
LINEARITY	8:24	N/A	N/A	-.034	-.003	0.044	0.002	-.000	295/300	-.001	0.003	0.001
ICSA	8:28	N/A	N/A	-.033	247/250	0.016	0.002	-.000	249/250	-.002	0.001	-.000
ICSAB	8:31	N/A	N/A	0.473	248/250	0.007	0.254/.25	0.244/.25	251/250	0.492/.5	0.237/.25	0.244/.25
Wash	8:35	N/A	N/A	0.0008	-.0065	0.0115	-.0000	0.0000	0.0038	0.0001	0.0000	0.0001
QC-25 1ppm	8:40	N/A	N/A	0.9590	1.019	1.023	1.085	0.9928	1.059	1.030	1.111	1.065
CCV	8:44	N/A	N/A	0.975/1	4.98/5	2.55	5.03/5	2.06/2	50.5/50	2.04/2	5.15	5.04/5
ICB	8:59	N/A	N/A	-.0003	0.0144	0.0129	-.0001	0.0000	0.0094	0.0001	-.0003	-.0001
CCB	9:45	N/A	N/A	-.0002	-.0121	0.0084	-.0000	-.0001	0.0012	-.0001	-.0002	-.0001
1PPM	9:48	N/A	N/A	0.6302	1.026	0.9826	1.062	0.9714	1.093	1.007	1.086	1.042

Landscape Summary File ID: 080211 Date: 2/11/08 Analyst: csk Page: 3

Sample ID	Time	CU	FE	K	MG	MN	MO	NA	NI	PB	V	ZN
ICV	18:44	10.1/10	10.2/10	100/100	101/100	10.1/10	9.98/10	100/100	10.0/10	9.99/10	10.1/10	9.93/10
LINEARITY	18:48	0.028	101	313	192	0.003	0.003	302/300	0.000	-.002	-.003	0.032
ICSA	18:51	0.026	100/100	0.225	237/250	0.003	0.001	0.131	-.001	-.035	-.003	0.024
ICSAB	18:55	0.279/.25	99.8/100	0.112	237/250	0.261/.25	0.001	0.084	0.469/.5	0.457/.5	0.246/.25	0.544/.5
Wash	18:59	0.0011	0.0069	0.0272	-.0076	-.0004	0.0003	-.0047	0.0002	0.0021	0.0001	0.0003
QC-25 1ppm	19:14	1.028	1.061	9.422	1.047	1.079	0.9919	0.9555	1.092	1.076	1.001	1.064
CCV	19:18	5.22/5	5.29/5	49.4/50	51.4/50	5.32/5	5.15/5	50.0/50	5.30/5	5.29/5	5.21/5	5.31/5
ICB	19:24	0.0001	0.0072	0.0153	-.0152	-.0003	0.0006	-.0093	0.0002	0.0005	0.0001	-.0013
MRL	19:27	0.010/.01	0.025/.02	0.966/1	0.089/.1	0.002/.002	0.020/.02	0.965/1	0.021/.02	0.020/.02	0.002/.002	0.020/.02
MRL/2	19:30	0.005(.01)	0.014/.02	0.494(1)	0.035(.1)	0.001(.002)	0.011/.02	0.487(1)	0.011/.02	0.009(.02)	0.001/.002	0.012/.02
MRL/5	19:34	0.002(.01)	0.008(.02)	0.142(1)	0.007(.1)	0.000(.002)	0.004(.02)	0.189(1)	0.005(.02)	0.005(.02)	0.000(.002)	0.004(.02)
FILTERCHECK	19:38	-.0002	0.0036	-.0103	-.0160	-.0003	0.0001	-.0099	0.0001	-.0000	0.0000	-.0014
MBLANK	19:41	-.0002	0.0017	-.0085	-.0133	-.0004	0.0001	-.0084	0.0002	-.0000	-.0001	-.0013
LCS	19:45	1.02/1	5.25/5	19.8/20	20.7/20	0.529/.5	1.000/1	49.2/50	0.518/.5	1.04/1	1.02/1	1.05/1
LCSD	19:48	1.02/1	5.10/5	19.0/20	19.9/20	0.526/.5	1.00/1	48.4/50	0.521/.5	1.05/1	1.02/1	1.05/1
2802010008	19:51	-.0001	0.0014	6.442	2.015	-.0003	0.0007	40.63	0.0004	-.0006	0.0008	-.0018
2802010008MS	19:55	1.020	5.172	25.96	22.62	0.5257	0.9670	88.06	0.5145	1.032	1.003	1.098
2802010008MSD	19:58	1.028	5.100	25.45	21.92	0.5287	0.9722	86.50	0.5143	1.031	1.006	1.097
2802050265_2X	20:02	0.0080	0.1284	463.4	939.8	0.0065	0.0145	N/A	-.0014	-.0260	0.0056	-.0014
CCV	20:06	5.23/5	5.23/5	49.8/50	50.8/50	5.32/5	5.18/5	50.2/50	5.33/5	5.33/5	5.18/5	5.35/5
CCB	20:14	-.0008	0.0011	0.0678	-.0112	-.0005	0.0005	0.1663	0.0002	-.0016	-.0000	-.0021
2802050757	20:17	0.0349	0.0305	4.685	10.74	0.0017	0.0036	44.22	0.0000	-.0039	0.0059	0.0141
CCB	20:35	-.0009	0.0025	0.0248	-.0165	-.0004	0.0002	0.1096	0.0004	-.0016	-.0002	-.0025
2802050757	20:38	0.0354	0.0276	4.656	10.91	0.0017	0.0032	44.07	-.0003	-.0031	0.0060	0.0140
2801300506	20:43	-.0006	-.0021	7.898	27.53	0.0702	0.0044	145.1	-.0003	-.0049	0.0008	0.0134
2801300508	20:47	-.0007	-.0004	3.663	16.97	0.0063	0.0031	63.48	-.0004	-.0044	0.0034	-.0031
2801300509	20:51	-.0011	0.0090	2.569	10.77	0.0607	0.0051	52.12	-.0003	-.0034	0.0005	-.0041
2801300512_2X	20:56	0.0014	0.1211	15.18	20.78	0.0554	0.0019	251.0	0.0003	-.0065	0.0034	0.0417
2801300515	21:00	-.0005	0.0148	3.191	14.25	0.1285	0.0055	96.60	-.0001	-.0047	0.0002	0.0194
2801300516	21:05	-.0008	-.0003	2.923	9.364	0.0086	0.0017	50.11	-.0001	-.0045	0.0003	0.0035
2802050266	21:09	-.0009	-.0026	2.309	0.4743	-.0007	-.0002	44.74	-.0002	-.0029	0.0001	-.0031
2802050560	21:13	-.0003	0.0011	0.7621	19.37	-.0005	0.0014	6.861	-.0005	-.0056	0.0008	0.0344
2802050560MS	21:18	1.023	5.223	21.00	39.26	0.5437	1.012	56.15	0.5192	1.032	1.044	1.142
CCV	21:21	5.27/5	5.25/5	50.1/50	50.9/50	5.36/5	5.21/5	50.1/50	5.36/5	5.36/5	5.24/5	5.37/5
CCB	21:32	-.0010	-.0006	0.0258	-.0231	-.0005	0.0003	0.0397	-.0001	-.0030	-.0001	-.0028
MCV	21:36	2.62/2.5	2.61/2.5	24.6/25	25.5/25	2.71/2.5	2.57/2.5	24.7/25	2.68/2.5	2.67/2.5	2.60/2.5	2.67/2.5
2802050560MSD	21:40	0.9998	5.146	20.84	39.00	0.5320	0.9976	56.30	0.5100	1.034	1.024	1.122
2802050267	21:43	-.0007	0.0021	0.7422	-.0139	-.0007	0.0012	17.64	0.0000	-.0017	-.0001	-.0019
2802050658	21:47	-.0012	-.0002	0.0707	-.0209	-.0008	0.0004	0.4778	-.0001	-.0013	-.0002	-.0029
2802050386	21:50	-.0003	0.0001	4.237	26.15	-.0003	0.0062	52.29	0.0001	-.0055	0.0056	-.0039
2802050566	21:55	0.0013	0.0010	5.503	29.15	-.0006	0.0040	51.07	0.0014	-.0070	0.0002	-.0049
2802050567	21:59	0.0012	-.0023	5.395	28.69	-.0006	0.0036	49.61	0.0017	-.0077	0.0003	-.0048
2802050700	22:03	-.0007	-.0010	3.610	16.16	-.0003	0.0036	60.33	0.0005	-.0049	0.0041	-.0030
2802050291	22:08	0.0036	0.0658	3.228	17.93	0.0027	0.0060	66.23	0.0003	-.0045	0.0063	0.3882
2802050694	22:12	-.0009	0.0066	0.6055	1.114	-.0006	0.0008	8.395	-.0002	-.0040	0.0000	0.0366
2802050699	22:16	0.0110	0.2145	1.924	24.95	0.0145	0.0025	72.64	-.0002	-.0063	0.0017	0.0021
CCV	22:20	5.22/5	5.32/5	49.5/50	50.9/50	5.32/5	5.13/5	49.4/50	5.30/5	5.29/5	5.20/5	5.31/5
CCB	22:28	-.0010	-.0026	-.0043	-.0245	-.0005	0.0003	0.0118	-.0004	-.0028	0.0000	-.0028
MBLANK	22:32	-.0010	-.0005	-.0010	-.0245	-.0005	0.0002	0.0154	0.0002	-.0028	-.0003	-.0023

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Sample ID	Time	CU	FE	K	MG	MN	MO	NA	NI	PB	V	ZN
MRL	22:35	0.009/.01	0.022/.02	0.965/1	0.080/.1	0.002/.002	0.020/.02	0.992/1	0.021/.02	0.018/.02	0.002/.002	0.018/.02
LCS	22:39	1.00/1	4.99/5	19.7/20	20.1/20	0.518/.5	0.993/1	49.1/50	0.512/.5	1.05/1	0.999/1	1.04/1
LCSD	22:42	1.02/1	5.19/5	20.1/20	20.5/20	0.526/.5	1.01/1	49.1/50	0.518/.5	1.03/1	1.02/1	1.05/1
2802080108	22:45	0.0009	0.0044	0.6191	0.5227	0.0047	0.0014	3.256	0.0002	-.0011	0.0006	-.0022
2802080108MS	22:49	1.001	5.123	20.28	20.66	0.5268	0.9727	51.82	0.5139	1.025	1.010	1.077
2802080108MSD	22:52	1.003	5.102	20.20	20.67	0.5279	0.9817	51.66	0.5180	1.036	1.011	1.083
2802080111	22:55	0.0000	0.0069	3.192	13.44	0.0071	0.0027	57.81	0.0006	-.0025	0.0040	0.0003
2802080112	22:59	-.0011	0.0020	0.0061	-.0186	0.0007	0.0005	0.0996	-.0000	-.0027	-.0002	-.0025
2802080113	23:03	-.0012	0.0148	0.5861	0.6242	0.0237	0.0010	3.383	0.0002	-.0010	0.0004	-.0029
CCV	23:07	5.20/5	5.22/5	49.8/50	50.9/50	5.30/5	5.11/5	49.6/50	5.26/5	5.24/5	5.17/5	5.28/5
CCB	23:12	-.0010	-.0001	-.0150	-.0226	-.0005	0.0007	-.0081	-.0002	-.0027	-.0001	-.0028
MCV	23:16	2.59/2.5	2.63/2.5	24.3/25	25.6/25	2.68/2.5	2.56/2.5	24.5/25	2.66/2.5	2.65/2.5	2.58/2.5	2.66/2.5
2802080114	23:19	-.0010	0.0004	0.0195	-.0210	-.0006	0.0008	0.0968	0.0002	-.0012	-.0002	-.0031
2802080115	23:23	-.0008	0.0042	0.6981	1.946	0.0015	0.0007	2.620	0.0002	-.0018	0.0003	-.0028
2802080116	23:27	0.0067	1.084	13.53	34.78	0.0782	0.0020	72.27	0.0549	-.0007	0.0040	0.1169
2802080117	23:31	-.0001	0.0194	3.258	14.24	0.0218	0.0017	62.09	0.0006	-.0045	0.0038	-.0034
2802080118	23:35	-.0011	0.0073	0.6049	1.796	0.0891	0.0002	2.395	0.0003	-.0037	0.0005	-.0037
2802080119	23:39	-.0002	0.0200	3.313	14.25	0.0223	0.0017	62.39	0.0006	-.0045	0.0039	-.0036
2801150171	23:43	-.0004	0.0091	5.393	30.25	-.0008	0.0058	97.11	0.0006	-.0053	0.0023	0.0189
2801150171MS	23:48	1.022	5.274	25.72	49.42	0.5378	1.007	144.3	0.5289	1.041	1.033	1.143
2801150171MSD	23:51	1.025	5.231	25.75	49.46	0.5402	1.003	144.5	0.5238	1.036	1.035	1.133
2802060676	23:54	-.0001	0.0791	1.714	24.43	0.0035	0.0051	74.65	0.0011	-.0058	0.0032	-.0050
CCV	23:58	5.24/5	5.33/5	50.6/50	51.4/50	5.33/5	5.20/5	49.8/50	5.34/5	5.33/5	5.21/5	5.36/5
CCB	0:04	-.0011	-.0015	0.0029	-.0244	-.0005	0.0007	-.0086	-.0002	-.0022	-.0002	-.0030
2802060679	0:07	-.0008	-.0020	3.189	3.200	-.0007	0.0001	1.036	-.0002	-.0021	-.0002	-.0030
D801300513_2X	0:11	-.0008	0.0187	7.321	53.19	0.4662	0.0065	421.5	-.0016	-.0111	0.0006	0.0001
2802050238	0:15	-.0004	0.0187	5.221	30.67	0.0017	0.0051	99.81	0.0003	-.0052	0.0024	-.0055
2802050246	0:20	0.0016	0.0022	5.266	27.50	-.0002	0.0028	45.45	0.0014	-.0059	0.0002	-.0020
2802050247	0:24	-.0002	1.669	5.308	27.76	0.4631	0.0031	44.01	0.0010	-.0040	0.0004	-.0026
2802070100	0:28	-.0004	0.1995	3.525	31.46	0.0057	0.0019	66.28	-.0005	-.0051	0.0111	0.0572
2802070104	0:33	0.0022	0.0107	2.792	9.100	-.0003	0.0034	45.68	-.0009	-.0038	0.0106	-.0036
2802070106	0:36	-.0006	0.0179	1.352	22.47	-.0000	0.0020	5.306	-.0005	-.0052	0.0002	0.0003
2802060371_2X	0:41	0.0943	0.4655	37.72	76.74	0.0375	0.0583	370.7	0.0122	-.0096	0.0193	0.3350
2802050696_10X	0:45	-.0089	0.2280	28.50	203.9	1.116	0.5899	%1440.5	0.0519	-.0492	0.0498	-.0162
CCV	0:49	5.24/5	5.30/5	50.6/50	51.4/50	5.36/5	5.25/5	49.7/50	5.39/5	5.39/5	5.23/5	5.42/5
CCB	0:55	-.0014	-.0004	-.0184	-.0240	-.0004	0.0006	0.0091	-.0001	-.0023	-.0001	-.0030
MCV	0:59	2.59/2.5	2.66/2.5	24.9/25	25.9/25	2.69/2.5	2.58/2.5	24.7/25	2.69/2.5	2.68/2.5	2.58/2.5	2.68/2.5
2802060371	1:02	0.0958	0.4537	38.02	74.57	0.0371	0.0571	371.1	0.0129	-.0026	0.0194	0.3411
ECV	1:07	5.21/5	5.23/5	50.6/50	51.4/50	5.33/5	5.20/5	49.7/50	5.34/5	5.32/5	5.21/5	5.36/5
ECB	1:15	-.0015	-.0009	-.0373	-.0242	-.0005	0.0005	0.0087	-.0004	-.0028	-.0001	-.0032
ICV	8:21	10.0/10	10.1/10	101/100	101/100	%10.00/10	10.1/10	101/100	10.1/10	10.2/10	10.0/10	10.1/10
LINEARITY	8:24	-.010	101	310	193	0.003	0.000	306/300	0.000	-.005	-.003	0.025
ICSA	8:28	-.011	100/100	0.150	245/250	0.003	0.001	0.287	-.001	-.037	-.003	0.018
ICSAB	8:31	0.240/.25	101/100	0.181	246/250	0.253/.25	0.001	0.281	0.466/.5	0.461/.5	0.243/.25	0.530/.5
Wash	8:35	0.0032	0.0095	0.1003	0.0009	-.0007	0.0002	0.0676	0.0000	-.0001	0.0002	-.0003
QC-25 1ppm	8:40	1.035	1.087	10.24	1.096	1.083	1.034	1.281	1.139	1.131	1.017	1.086
CCV	8:44	5.01/5	5.14/5	49.5/50	51.0/50	5.08/5	5.04/5	50.2/50	5.21/5	5.21/5	5.00/5	5.18/5
ICB	8:59	0.0018	0.0059	-.0290	0.0008	-.0008	0.0004	0.0339	0.0002	0.0003	0.0003	-.0005
CCB	9:45	0.0001	-.0009	0.0307	0.0020	-.0001	0.0004	0.0150	0.0001	-.0011	0.0003	0.0003
1PPM	9:48	1.016	1.093	10.03	1.117	1.063	0.9995	1.048	1.103	1.092	0.9983	1.047

2/11/2008 17:58:16 Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): 0.001 Slit adjustment: 2

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	325756.3
-1.6	15.0	463455.2
-1.2	15.0	627888.6
-0.8	15.0	770181.1
-0.4	15.0	894217.5
0.0	15.0	939463.0
0.4	15.0	868436.4
0.8	15.0	780377.4
1.2	15.0	641286.8
1.6	15.0	476561.6
2.0	15.0	347398.3
0.0	10.0	8265.4
0.0	10.5	26579.6
0.0	11.0	45483.4
0.0	11.5	70698.3
0.0	12.0	111348.8
0.0	12.5	247928.8
0.0	13.0	349256.7
0.0	13.5	478524.1
0.0	14.0	635110.7
0.0	14.5	885840.5
0.0	15.0	942573.2
0.0	15.5	905051.7
0.0	16.0	800627.1
0.0	16.5	551381.4
0.0	17.0	414575.0
0.0	17.5	298097.0
0.0	18.0	211265.1
0.0	18.5	143590.6
0.0	19.0	45236.2
0.0	19.5	20133.5
0.0	20.0	8044.8
-0.8	15.0	772344.5
-0.4	15.0	901394.4
0.0	15.0	936492.1
0.4	15.0	880421.6
0.8	15.0	766387.7
0.0	13.0	356622.5
0.0	13.5	473532.5
0.0	14.0	622117.9
0.0	14.5	880569.9
0.0	15.0	930400.4
0.0	15.5	901659.7
0.0	16.0	805820.9
0.0	16.5	548671.3
0.0	17.0	414362.1

2/11/2008 18:11:56 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 930400.4 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 930400.4 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1579.8
-6.5	15.0	1653.2
-6.0	15.0	1829.1
-5.5	15.0	2179.3
-5.0	15.0	3082.0
-4.5	15.0	4806.2
-4.0	15.0	8122.1
-3.5	15.0	12253.1
-3.0	15.0	16821.8
-2.5	15.0	19928.0
-2.0	15.0	22411.6

-1.5	15.0	22324.0
-1.0	15.0	20265.2
-0.5	15.0	26882.5
0.0	15.0	28870.1
0.5	15.0	24541.3
1.0	15.0	20069.5
1.5	15.0	13989.5
2.0	15.0	8881.1
2.5	15.0	5801.2
3.0	15.0	5144.2
3.5	15.0	4316.6
4.0	15.0	3324.1
4.5	15.0	2291.0
5.0	15.0	1541.7
5.5	15.0	1092.5
6.0	15.0	907.1
6.5	15.0	789.9
7.0	15.0	691.0

2/11/2008 18:17:45 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 28870.1 for Radial viewing

Analysis Begun

Start Time: 2/11/2008 18:37:56 Plasma On Time: 2/11/2008 17:48:54
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

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

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 Autosampler Location: 0
Sample ID: Calib Blank 1 Date Collected: 2/11/2008 18:38:13
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	501740.1	1342.74	0.27%	100	%
Yr	250593.0	2528.34	1.01%	100	%
Ag†	274.0	113.90	41.57%	[0.00]	mg/L
Al†	41.2	0.05	0.13%	[0.00]	mg/L
As†	6.0	1.72	28.78%	[0.00]	mg/L
B†	146.7	3.72	2.54%	[0.00]	mg/L
Ba†	1.1	4.03	362.92%	[0.00]	mg/L
Be†	-4221.3	33.67	0.80%	[0.00]	mg/L
Ca†	610.7	15.10	2.47%	[0.00]	mg/L
Cd†	58.8	7.33	12.48%	[0.00]	mg/L
Co†	-57.6	4.34	7.53%	[0.00]	mg/L
Cr†	290.9	10.06	3.46%	[0.00]	mg/L

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

Autosampler Location: 15
Date Collected: 2/11/2008 18:41:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	448260.8	807.89	0.18%	89.3	%
Yr	240623.1	1190.62	0.49%	96.0	%
Agt	601190.2	2115.74	0.35%	[2]	mg/L
Alt	43707.7	7.76	0.02%	[10]	mg/L
B_t	163039.7	955.89	0.59%	[5.02]	mg/L
Bat	739887.1	3235.65	0.44%	[10]	mg/L
Bet	12465944.3	116419.47	0.93%	[4.01]	mg/L
Cat	602446.6	940.08	0.16%	[100]	mg/L
Cdt	136907.7	487.10	0.36%	[5.01]	mg/L
Cot	261559.2	222.97	0.09%	[10]	mg/L
Crt	803452.5	2338.36	0.29%	[9.97]	mg/L
Cut	4148506.7	200.94	0.00%	[10]	mg/L
Fet	8224.6	12.10	0.15%	[9.98]	mg/L
Kt	125182.5	255.78	0.20%	[100]	mg/L
Mgt	239616.1	211.06	0.09%	[100]	mg/L
Mnt	5764331.6	36131.01	0.63%	[10]	mg/L
Mot	124020.9	681.08	0.55%	[9.98]	mg/L
Nat	485673.7	3538.21	0.73%	[100]	mg/L
Nit	224018.9	818.99	0.37%	[10]	mg/L
Pbt	47728.0	194.26	0.41%	[10]	mg/L
Vt	1786646.8	6596.47	0.37%	[10]	mg/L
Znt	469103.0	1874.81	0.40%	[10]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	300600	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	4371	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	32480	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	73990	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3109000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	6024	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	27330	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	26160	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	80590	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	414900	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	824.1	0.00000	1.000000	
K	1	Lin, Calc Int	-0.0	1252	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	2396	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	576400	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	12430	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	4857	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	22400	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	4773	0.00000	1.000000	
V	1	Lin, Calc Int	0.0	178700	0.00000	1.000000	
Zn	1	Lin, Calc Int	0.0	46910	0.00000	1.000000	

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

Autosampler Location: 15
Date Collected: 2/11/2008 18:44:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	446897.8	89.1	%	0.35				0.39%
Yr	237811.4	94.9	%	0.17				0.18%
Ag†	603183.4	2.01	mg/L	0.003	2.01	mg/L	0.003	0.17%
QC value within limits for Ag		Recovery = 100.33%						
Al†	44411.4	10.2	mg/L	0.04	10.2	mg/L	0.04	0.41%
QC value within limits for Al		Recovery = 101.61%						
B_†	165008.3	5.06	mg/L	0.003	5.06	mg/L	0.003	0.07%
QC value within limits for B_		Recovery = 101.21%						
Ba†	740504.3	10.0	mg/L	0.05	10.0	mg/L	0.05	0.47%
QC value within limits for Ba		Recovery = 100.08%						
Be†	12589723.1	4.05	mg/L	0.004	4.05	mg/L	0.004	0.10%
QC value within limits for Be		Recovery = 101.25%						
Ca†	603989.8	100	mg/L	0.1	100	mg/L	0.1	0.10%
QC value within limits for Ca		Recovery = 100.26%						
Cd†	137248.8	5.06	mg/L	0.025	5.06	mg/L	0.025	0.50%
QC value within limits for Cd		Recovery = 101.23%						
Co†	261638.0	10.0	mg/L	0.04	10.0	mg/L	0.04	0.40%
QC value within limits for Co		Recovery = 100.03%						
Cr†	803489.9	9.97	mg/L	0.023	9.97	mg/L	0.023	0.23%
QC value within limits for Cr		Recovery = 99.70%						
Cu†	4185545.3	10.1	mg/L	0.15	10.1	mg/L	0.15	1.46%
QC value within limits for Cu		Recovery = 100.99%						
Fe†	8440.7	10.2	mg/L	0.05	10.2	mg/L	0.05	0.51%
QC value within limits for Fe		Recovery = 102.42%						
K†	125266.0	100	mg/L	1.1	100	mg/L	1.1	1.05%
QC value within limits for K		Recovery = 100.07%						
Mg†	240892.6	101	mg/L	0.2	101	mg/L	0.2	0.23%
QC value within limits for Mg		Recovery = 100.53%						
Mn†	5815372.2	10.1	mg/L	0.11	10.1	mg/L	0.11	1.13%
QC value within limits for Mn		Recovery = 100.89%						
Mo†	123985.7	9.98	mg/L	0.029	9.98	mg/L	0.029	0.29%
QC value within limits for Mo		Recovery = 99.77%						
Na†	485701.8	100	mg/L	0.7	100	mg/L	0.7	0.66%
QC value within limits for Na		Recovery = 100.01%						
Ni†	224023.1	10.0	mg/L	0.02	10.0	mg/L	0.02	0.16%
QC value within limits for Ni		Recovery = 100.00%						
Pb†	47678.2	9.99	mg/L	0.010	9.99	mg/L	0.010	0.10%
QC value within limits for Pb		Recovery = 99.90%						
V†	1800755.7	10.1	mg/L	0.12	10.1	mg/L	0.12	1.17%
QC value within limits for V		Recovery = 101.34%						
Zn†	469239.3	9.93	mg/L	0.028	9.93	mg/L	0.028	0.28%
QC value within limits for Zn		Recovery = 99.35%						

All analyte(s) passed QC.

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

Autosampler Location: 9
Date Collected: 2/11/2008 18:48:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	423381.5	84.4	%	0.25				0.30%
Yr	228475.1	91.2	%	0.20				0.22%
Ag†	-10838.3	-0.0361	mg/L	0.00003	-0.0361	mg/L	0.00003	0.08%
QC value within limits for Ag		Recovery = Not calculated						
Al†	-25.4	-0.00581	mg/L	0.004593	-0.00581	mg/L	0.004593	79.09%
QC value within limits for Al		Recovery = Not calculated						
B_†	1714.4	0.0528	mg/L	0.00539	0.0528	mg/L	0.00539	10.20%
QC value within limits for B_		Recovery = Not calculated						
Ba†	133.1	0.00180	mg/L	0.000016	0.00180	mg/L	0.000016	0.89%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-1335.0	-0.00043	mg/L	0.000033	-0.00043	mg/L	0.000033	7.64%
QC value within limits for Be		Recovery = Not calculated						
Ca†	1773461.2	294	mg/L	0.7	294	mg/L	0.7	0.25%
QC value within limits for Ca		Recovery = 98.13%						
Cd†	6.2	0.00024	mg/L	0.000226	0.00024	mg/L	0.000226	96.27%
QC value within limits for Cd		Recovery = Not calculated						
Co†	55.4	0.00212	mg/L	0.000312	0.00212	mg/L	0.000312	14.74%
QC value within limits for Co		Recovery = Not calculated						
Cr†	135.9	0.00169	mg/L	0.000083	0.00169	mg/L	0.000083	4.93%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	11568.0	0.0279	mg/L	0.00124	0.0279	mg/L	0.00124	4.46%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	83389.4	101	mg/L	0.7	101	mg/L	0.7	0.70%
QC value within limits for Fe		Recovery = 101.19%						
K†	391490.0	313	mg/L	0.6	313	mg/L	0.6	0.18%
QC value within limits for K		Recovery = 104.25%						
Mg†	459054.9	192	mg/L	0.3	192	mg/L	0.3	0.16%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	1653.5	0.00287	mg/L	0.000072	0.00287	mg/L	0.000072	2.49%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	35.8	0.00288	mg/L	0.000874	0.00288	mg/L	0.000874	30.31%
QC value within limits for Mo		Recovery = Not calculated						
Na†	1468597.9	302	mg/L	0.7	302	mg/L	0.7	0.24%
QC value within limits for Na		Recovery = 100.79%						
Ni†	7.2	0.00032	mg/L	0.000263	0.00032	mg/L	0.000263	82.25%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	-11.4	-0.00239	mg/L	0.001062	-0.00239	mg/L	0.001062	44.40%
QC value within limits for Pb		Recovery = Not calculated						
V†	-495.1	-0.00276	mg/L	0.000096	-0.00276	mg/L	0.000096	3.47%
QC value within limits for V		Recovery = Not calculated						
Zn†	1487.8	0.0317	mg/L	0.00128	0.0317	mg/L	0.00128	4.03%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

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

Autosampler Location: 10
Date Collected: 2/11/2008 18:51:51
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	439264.5	87.5	%	0.23				0.26%
Yr	233987.2	93.4	%	0.31				0.33%
Ag†	-10596.6	-0.0353	mg/L	0.00010	-0.0353	mg/L	0.00010	0.27%
QC value within limits for Ag		Recovery = Not calculated						
Al†	1087853.3	249	mg/L	0.5	249	mg/L	0.5	0.20%
QC value within limits for Al		Recovery = 99.56%						
B_†	529.6	0.0163	mg/L	0.00189	0.0163	mg/L	0.00189	11.60%
QC value within limits for B_		Recovery = Not calculated						
Ba†	172.7	0.00233	mg/L	0.000101	0.00233	mg/L	0.000101	4.32%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-1310.0	-0.00042	mg/L	0.000025	-0.00042	mg/L	0.000025	6.03%
QC value within limits for Be		Recovery = Not calculated						
Ca†	1499566.5	249	mg/L	0.9	249	mg/L	0.9	0.34%
QC value within limits for Ca		Recovery = 99.57%						
Cd†	-10.8	-0.00039	mg/L	0.000243	-0.00039	mg/L	0.000243	61.84%
QC value within limits for Cd		Recovery = Not calculated						
Co†	21.3	0.00082	mg/L	0.000183	0.00082	mg/L	0.000183	22.51%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-33.3	-0.00041	mg/L	0.000140	-0.00041	mg/L	0.000140	33.87%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	10637.8	0.0256	mg/L	0.00065	0.0256	mg/L	0.00065	2.55%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	82571.3	100	mg/L	0.1	100	mg/L	0.1	0.13%
QC value within limits for Fe		Recovery = 100.19%						
K†	281.9	0.225	mg/L	0.0406	0.225	mg/L	0.0406	18.03%
QC value within limits for K		Recovery = Not calculated						
Mg†	568188.8	237	mg/L	1.7	237	mg/L	1.7	0.73%
QC value within limits for Mg		Recovery = 94.85%						
Mn†	1977.6	0.00343	mg/L	0.000016	0.00343	mg/L	0.000016	0.48%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	17.0	0.00137	mg/L	0.000895	0.00137	mg/L	0.000895	65.40%
QC value within limits for Mo		Recovery = Not calculated						
Na†	635.6	0.131	mg/L	0.0090	0.131	mg/L	0.0090	6.85%
QC value within limits for Na		Recovery = Not calculated						
Ni†	-12.9	-0.00058	mg/L	0.000252	-0.00058	mg/L	0.000252	43.73%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	-165.8	-0.0347	mg/L	0.00058	-0.0347	mg/L	0.00058	1.67%
QC value within limits for Pb		Recovery = Not calculated						
V†	-545.1	-0.00305	mg/L	0.000000	-0.00305	mg/L	0.000000	0.00%
QC value within limits for V		Recovery = Not calculated						
Zn†	1131.9	0.0241	mg/L	0.00137	0.0241	mg/L	0.00137	5.69%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

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

Autosampler Location: 11
Date Collected: 2/11/2008 18:55:33
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	439853.2	87.7	%	0.41				0.47%
Yr	236452.2	94.4	%	0.18				0.19%
Ag†	142019.3	0.472	mg/L	0.0014	0.472	mg/L	0.0014	0.29%
QC value within limits for Ag	Recovery = 94.49%							
Al†	1082349.8	248	mg/L	1.3	248	mg/L	1.3	0.52%
QC value within limits for Al	Recovery = 99.05%							
B_†	186.4	0.00526	mg/L	0.001957	0.00526	mg/L	0.001957	37.24%
QC value within limits for B_	Recovery = Not calculated							
Ba†	19154.0	0.259	mg/L	0.0010	0.259	mg/L	0.0010	0.40%
QC value within limits for Ba	Recovery = 103.55%							
Be†	767700.1	0.247	mg/L	0.0005	0.247	mg/L	0.0005	0.19%
QC value within limits for Be	Recovery = 98.78%							
Ca†	1497545.4	249	mg/L	2.4	249	mg/L	2.4	0.95%
QC value within limits for Ca	Recovery = 99.43%							
Cd†	13444.2	0.493	mg/L	0.0016	0.493	mg/L	0.0016	0.33%
QC value within limits for Cd	Recovery = 98.58%							
Co†	6249.0	0.239	mg/L	0.0015	0.239	mg/L	0.0015	0.64%
QC value within limits for Co	Recovery = 95.56%							
Cr†	19822.3	0.246	mg/L	0.0008	0.246	mg/L	0.0008	0.31%
QC value within limits for Cr	Recovery = 98.39%							
Cu†	115756.4	0.279	mg/L	0.0018	0.279	mg/L	0.0018	0.63%
QC value within limits for Cu	Recovery = 111.70%							
Fe†	82214.3	99.8	mg/L	0.05	99.8	mg/L	0.05	0.05%
QC value within limits for Fe	Recovery = 99.76%							
K†	140.2	0.112	mg/L	0.0197	0.112	mg/L	0.0197	17.59%
QC value within limits for K	Recovery = Not calculated							
Mg†	567543.7	237	mg/L	2.0	237	mg/L	2.0	0.86%
QC value within limits for Mg	Recovery = 94.74%							
Mn†	150447.3	0.261	mg/L	0.0002	0.261	mg/L	0.0002	0.06%
QC value within limits for Mn	Recovery = 104.40%							
Mo†	8.3	0.00066	mg/L	0.000536	0.00066	mg/L	0.000536	80.65%
QC value within limits for Mo	Recovery = Not calculated							
Na†	410.2	0.0845	mg/L	0.00721	0.0845	mg/L	0.00721	8.53%
QC value within limits for Na	Recovery = Not calculated							
Ni†	10507.9	0.469	mg/L	0.0005	0.469	mg/L	0.0005	0.11%
QC value within limits for Ni	Recovery = 93.81%							
Pb†	2181.7	0.457	mg/L	0.0024	0.457	mg/L	0.0024	0.52%
QC value within limits for Pb	Recovery = 91.42%							
V†	43639.7	0.246	mg/L	0.0001	0.246	mg/L	0.0001	0.05%
QC value within limits for V	Recovery = 98.24%							
Zn†	25673.8	0.544	mg/L	0.0028	0.544	mg/L	0.0028	0.51%
QC value within limits for Zn	Recovery = 108.82%							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 2/11/2008 18:59:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Wash

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	499075.3	99.5	%	0.86				0.86%
Yr	254373.0	102	%	1.5				1.49%
Ag†	93.8	0.00031	mg/L	0.000268	0.00031	mg/L	0.000268	85.85%
QC value within limits for Ag		Recovery = Not calculated						
Al†	8.6	0.00197	mg/L	0.002526	0.00197	mg/L	0.002526	128.30%
QC value within limits for Al		Recovery = Not calculated						
B_†	281.8	0.00868	mg/L	0.000048	0.00868	mg/L	0.000048	0.56%
QC value within limits for B_		Recovery = Not calculated						
Ba†	-2.3	-0.00003	mg/L	0.000118	-0.00003	mg/L	0.000118	388.95%
QC value within limits for Ba		Recovery = Not calculated						
Be†	42.7	0.00001	mg/L	0.000018	0.00001	mg/L	0.000018	132.75%
QC value within limits for Be		Recovery = Not calculated						
Ca†	-3.1	-0.00051	mg/L	0.001296	-0.00051	mg/L	0.001296	253.39%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	3.3	0.00012	mg/L	0.000100	0.00012	mg/L	0.000100	82.52%
QC value within limits for Cd		Recovery = Not calculated						
Co†	0.5	0.00002	mg/L	0.000120	0.00002	mg/L	0.000120	614.28%
QC value within limits for Co		Recovery = Not calculated						
Cr†	0.9	0.00001	mg/L	0.000030	0.00001	mg/L	0.000030	264.06%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	467.4	0.00113	mg/L	0.000103	0.00113	mg/L	0.000103	9.16%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	5.7	0.00691	mg/L	0.000080	0.00691	mg/L	0.000080	1.15%
QC value within limits for Fe		Recovery = Not calculated						
K†	34.0	0.0272	mg/L	0.02252	0.0272	mg/L	0.02252	82.88%
QC value within limits for K		Recovery = Not calculated						
Mg†	-18.3	-0.00764	mg/L	0.001832	-0.00764	mg/L	0.001832	23.99%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	-225.2	-0.00039	mg/L	0.000004	-0.00039	mg/L	0.000004	1.13%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	4.1	0.00033	mg/L	0.000149	0.00033	mg/L	0.000149	45.08%
QC value within limits for Mo		Recovery = Not calculated						
Na†	-22.7	-0.00468	mg/L	0.015995	-0.00468	mg/L	0.015995	341.57%
QC value within limits for Na		Recovery = Not calculated						
Ni†	4.2	0.00019	mg/L	0.000066	0.00019	mg/L	0.000066	34.88%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	10.0	0.00209	mg/L	0.000475	0.00209	mg/L	0.000475	22.66%
QC value within limits for Pb		Recovery = Not calculated						
V†	10.0	0.00006	mg/L	0.000292	0.00006	mg/L	0.000292	519.04%
QC value within limits for V		Recovery = Not calculated						
Zn†	15.8	0.00034	mg/L	0.000123	0.00034	mg/L	0.000123	36.76%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:06:15 **Plasma On Time: 2/11/2008 17:48:54**
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 12**
Sample ID: QC-25 1ppm **Date Collected: 2/11/2008 19:06:16**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:07:14 **Plasma On Time: 2/11/2008 17:48:54**
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 12**
Sample ID: QC-25 1ppm **Date Collected: 2/11/2008 19:07:14**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:07:46 **Plasma On Time: 2/11/2008 17:48:54**
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 8 **Autosampler Location: 12**
Sample ID: QC-25 1ppm **Date Collected: 2/11/2008 19:07:46**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:11:33
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 2/11/2008 17:48:54
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 15
Date Collected: 2/11/2008 19:11:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:12:45 Plasma On Time: 2/11/2008 17:48:54
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 15
Sample ID: ICV Date Collected: 2/11/2008 19:12:45
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:13:34 Plasma On Time: 2/11/2008 17:48:54
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1 Autosampler Location: 0
Sample ID: Calib Blank 1 Date Collected: 2/11/2008 19:13:35
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
User canceled analysis.

Analysis Begun

Start Time: 2/11/2008 19:14:28 Plasma On Time: 2/11/2008 17:48:54
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\080211.sif
Batch ID: 080211
Results Data Set: 080211
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 8 Autosampler Location: 12
Sample ID: QC-25 1ppm Date Collected: 2/11/2008 19:14:28
Analyst: 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	493392.7	98.3	%	0.42				0.43%
Yr	251850.4	101	%	1.1				1.14%
Agt	291158.7	0.969	mg/L	0.0031	0.969	mg/L	0.0031	0.32%
QC value within limits for Ag		Recovery = 96.86%						
Alt	4331.4	0.991	mg/L	0.0055	0.991	mg/L	0.0055	0.55%
QC value within limits for Al		Recovery = 99.10%						
B_t	31547.8	0.969	mg/L	0.0006	0.969	mg/L	0.0006	0.06%
QC value within limits for B_		Recovery = 96.92%						
Bat	78613.6	1.06	mg/L	0.004	1.06	mg/L	0.004	0.36%
QC value within limits for Ba		Recovery = 106.25%						
Bet	3174121.4	1.02	mg/L	0.003	1.02	mg/L	0.003	0.33%
QC value within limits for Be		Recovery = 102.10%						
Cat	6208.9	1.03	mg/L	0.017	1.03	mg/L	0.017	1.62%
QC value within limits for Ca		Recovery = 103.06%						
Cdt	27130.9	0.997	mg/L	0.0007	0.997	mg/L	0.0007	0.07%
QC value within limits for Cd		Recovery = 99.70%						
Cot	28091.6	1.07	mg/L	0.008	1.07	mg/L	0.008	0.77%
QC value within limits for Co		Recovery = 107.40%						
Crt	82232.7	1.02	mg/L	0.003	1.02	mg/L	0.003	0.33%
QC value within limits for Cr		Recovery = 102.04%						
Cut	426030.2	1.03	mg/L	0.007	1.03	mg/L	0.007	0.66%
QC value within limits for Cu		Recovery = 102.80%						
Fet	874.5	1.06	mg/L	0.015	1.06	mg/L	0.015	1.41%
QC value within limits for Fe		Recovery = 106.12%						
Kt	11794.5	9.42	mg/L	0.035	9.42	mg/L	0.035	0.37%
QC value within limits for K		Recovery = 94.22%						
Mgt	2509.2	1.05	mg/L	0.016	1.05	mg/L	0.016	1.57%
QC value within limits for Mg		Recovery = 104.72%						

Mn†	622180.7	1.08 mg/L	0.004	1.08 mg/L	0.004	0.37%
QC value within limits for Mn	Recovery = 107.94%					
Mo†	12326.8	0.992 mg/L	0.0074	0.992 mg/L	0.0074	0.74%
QC value within limits for Mo	Recovery = 99.19%					
Na†	4640.6	0.955 mg/L	0.0208	0.955 mg/L	0.0208	2.18%
QC value within limits for Na	Recovery = 95.55%					
Ni†	24467.3	1.09 mg/L	0.000	1.09 mg/L	0.000	0.01%
QC value within limits for Ni	Recovery = 109.22%					
Pb†	5133.5	1.08 mg/L	0.004	1.08 mg/L	0.004	0.36%
QC value within limits for Pb	Recovery = 107.56%					
V†	177824.2	1.00 mg/L	0.004	1.00 mg/L	0.004	0.38%
QC value within limits for V	Recovery = 100.09%					
Zn†	50275.6	1.06 mg/L	0.001	1.06 mg/L	0.001	0.07%
QC value within limits for Zn	Recovery = 106.43%					

All analyte(s) passed QC.

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

Autosampler Location: 4
Date Collected: 2/11/2008 19:18:14
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	462076.6	92.1	%	0.42				0.45%
Yr	244409.4	97.5	%	0.95				0.97%
Ag†	301622.6	1.00	mg/L	0.006	1.00	mg/L	0.006	0.59%
QC value within limits for Ag		Recovery = 100.34%						
Al†	21992.4	5.03	mg/L	0.092	5.03	mg/L	0.092	1.83%
QC value within limits for Al		Recovery = 100.63%						
B_†	84241.0	2.58	mg/L	0.022	2.58	mg/L	0.022	0.84%
QC value within limits for B_		Recovery = 103.33%						
Ba†	386421.8	5.22	mg/L	0.023	5.22	mg/L	0.023	0.44%
QC value within limits for Ba		Recovery = 104.45%						
Be†	6655950.9	2.14	mg/L	0.006	2.14	mg/L	0.006	0.30%
QC value within limits for Be		Recovery = 107.05%						
Ca†	310717.0	51.6	mg/L	0.05	51.6	mg/L	0.05	0.10%
QC value within limits for Ca		Recovery = 103.15%						
Cd†	56578.4	2.09	mg/L	0.013	2.09	mg/L	0.013	0.62%
QC value within limits for Cd		Recovery = 104.54%						
Co†	137657.6	5.26	mg/L	0.041	5.26	mg/L	0.041	0.78%
QC value within limits for Co		Recovery = 105.26%						
Cr†	420634.5	5.22	mg/L	0.034	5.22	mg/L	0.034	0.66%
QC value within limits for Cr		Recovery = 104.39%						
Cu†	2164918.3	5.22	mg/L	0.002	5.22	mg/L	0.002	0.04%
QC value within limits for Cu		Recovery = 104.47%						
Fe†	4361.2	5.29	mg/L	0.048	5.29	mg/L	0.048	0.91%
QC value within limits for Fe		Recovery = 105.84%						
K†	61826.8	49.4	mg/L	0.41	49.4	mg/L	0.41	0.83%
QC value within limits for K		Recovery = 98.78%						
Mg†	123211.2	51.4	mg/L	0.09	51.4	mg/L	0.09	0.18%
QC value within limits for Mg		Recovery = 102.84%						
Mn†	3066833.8	5.32	mg/L	0.012	5.32	mg/L	0.012	0.23%
QC value within limits for Mn		Recovery = 106.41%						
Mo†	63943.5	5.15	mg/L	0.050	5.15	mg/L	0.050	0.97%
QC value within limits for Mo		Recovery = 102.91%						
Na†	242801.1	50.0	mg/L	0.43	50.0	mg/L	0.43	0.87%
QC value within limits for Na		Recovery = 99.99%						
Ni†	118619.9	5.30	mg/L	0.042	5.30	mg/L	0.042	0.80%
QC value within limits for Ni		Recovery = 105.90%						
Pb†	25236.0	5.29	mg/L	0.051	5.29	mg/L	0.051	0.97%
QC value within limits for Pb		Recovery = 105.75%						
V†	925039.1	5.21	mg/L	0.002	5.21	mg/L	0.002	0.04%
QC value within limits for V		Recovery = 104.13%						
Zn†	250811.7	5.31	mg/L	0.040	5.31	mg/L	0.040	0.75%
QC value within limits for Zn		Recovery = 106.21%						

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 2/11/2008 19:21:27
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	492815.8	98.2	%	0.09				0.09%
Yr	253034.1	101	%	0.7				0.72%
Ag†	80.4	0.00027	mg/L	0.000039	0.00027	mg/L	0.000039	14.40%
QC value within limits for Ag		Recovery = Not calculated						
Al†	-5.9	-0.00135	mg/L	0.001510	-0.00135	mg/L	0.001510	112.13%
QC value within limits for Al		Recovery = Not calculated						
B_†	789.0	0.0243	mg/L	0.00108	0.0243	mg/L	0.00108	4.45%
QC value greater than the upper limit for B_		Recovery = Not calculated						
Ba†	-13.7	-0.00019	mg/L	0.000054	-0.00019	mg/L	0.000054	28.98%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-114.5	-0.00004	mg/L	0.000007	-0.00004	mg/L	0.000007	17.72%
QC value within limits for Be		Recovery = Not calculated						
Ca†	-46.2	-0.00766	mg/L	0.000724	-0.00766	mg/L	0.000724	9.45%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	6.6	0.00024	mg/L	0.000054	0.00024	mg/L	0.000054	22.44%
QC value within limits for Cd		Recovery = Not calculated						
Co†	0.8	0.00003	mg/L	0.000064	0.00003	mg/L	0.000064	210.93%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-0.2	0.00000	mg/L	0.000097	0.00000	mg/L	0.000097	>999.9%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	14.4	0.00003	mg/L	0.000013	0.00003	mg/L	0.000013	38.70%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	5.3	0.00644	mg/L	0.002799	0.00644	mg/L	0.002799	43.46%
QC value within limits for Fe		Recovery = Not calculated						
K†	8.9	0.00711	mg/L	0.007686	0.00711	mg/L	0.007686	108.12%
QC value within limits for K		Recovery = Not calculated						
Mg†	-29.7	-0.0124	mg/L	0.00000	-0.0124	mg/L	0.00000	0.04%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	-166.4	-0.00029	mg/L	0.000042	-0.00029	mg/L	0.000042	14.41%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	21.5	0.00173	mg/L	0.000190	0.00173	mg/L	0.000190	10.96%
QC value within limits for Mo		Recovery = Not calculated						
Na†	-11.8	-0.00243	mg/L	0.009829	-0.00243	mg/L	0.009829	404.38%
QC value within limits for Na		Recovery = Not calculated						
Ni†	3.4	0.00015	mg/L	0.000037	0.00015	mg/L	0.000037	24.21%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	2.7	0.00057	mg/L	0.001443	0.00057	mg/L	0.001443	250.88%
QC value within limits for Pb		Recovery = Not calculated						
V†	-75.3	-0.00042	mg/L	0.000095	-0.00042	mg/L	0.000095	22.64%
QC value within limits for V		Recovery = Not calculated						
Zn†	-59.7	-0.00127	mg/L	0.000133	-0.00127	mg/L	0.000133	10.48%
QC value within limits for Zn		Recovery = Not calculated						

QC Failed. Retry.

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

Autosampler Location: 0
Date Collected: 2/11/2008 19:24:00
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	495115.1	98.7	%	0.09				0.09%
Yr	250356.9	99.9	%	1.26				1.26%
Ag†	102.5	0.00034	mg/L	0.000041	0.00034	mg/L	0.000041	12.10%
QC value within limits for Ag		Recovery = Not calculated						
Al†	23.2	0.00530	mg/L	0.001526	0.00530	mg/L	0.001526	28.79%

QC value within limits for Al Recovery = Not calculated
B_† 563.6 0.0174 mg/L 0.00022 0.0174 mg/L 0.00022 1.28%
QC value within limits for B_ Recovery = Not calculated
Ba† -11.6 -0.00016 mg/L 0.000026 -0.00016 mg/L 0.000026 16.90%
QC value within limits for Ba Recovery = Not calculated
Be† -67.1 -0.00002 mg/L 0.000025 -0.00002 mg/L 0.000025 115.19%
QC value within limits for Be Recovery = Not calculated
Ca† -38.9 -0.00646 mg/L 0.000425 -0.00646 mg/L 0.000425 6.57%
QC value within limits for Ca Recovery = Not calculated
Cd† 2.6 0.00009 mg/L 0.000037 0.00009 mg/L 0.000037 39.43%
QC value within limits for Cd Recovery = Not calculated
Co† -6.4 -0.00025 mg/L 0.000116 -0.00025 mg/L 0.000116 46.99%
QC value within limits for Co Recovery = Not calculated
Cr† 0.6 0.00001 mg/L 0.000063 0.00001 mg/L 0.000063 827.75%
QC value within limits for Cr Recovery = Not calculated
Cu† 38.7 0.00009 mg/L 0.000009 0.00009 mg/L 0.000009 9.77%
QC value within limits for Cu Recovery = Not calculated
Fe† 5.9 0.00717 mg/L 0.000239 0.00717 mg/L 0.000239 3.33%
QC value within limits for Fe Recovery = Not calculated
K† 19.2 0.0153 mg/L 0.00452 0.0153 mg/L 0.00452 29.47%
QC value within limits for K Recovery = Not calculated
Mg† -36.5 -0.0152 mg/L 0.00037 -0.0152 mg/L 0.00037 2.42%
QC value within limits for Mg Recovery = Not calculated
Mn† -188.7 -0.00033 mg/L 0.000030 -0.00033 mg/L 0.000030 9.08%
QC value within limits for Mn Recovery = Not calculated
Mo† 7.8 0.00063 mg/L 0.000347 0.00063 mg/L 0.000347 55.09%
QC value within limits for Mo Recovery = Not calculated
Na† -45.1 -0.00928 mg/L 0.008581 -0.00928 mg/L 0.008581 92.48%
QC value within limits for Na Recovery = Not calculated
Ni† 3.9 0.00017 mg/L 0.000018 0.00017 mg/L 0.000018 10.49%
QC value within limits for Ni Recovery = Not calculated
Pb† 2.4 0.00050 mg/L 0.000533 0.00050 mg/L 0.000533 106.12%
QC value within limits for Pb Recovery = Not calculated
V† 18.2 0.00010 mg/L 0.000424 0.00010 mg/L 0.000424 417.55%
QC value within limits for V Recovery = Not calculated
Zn† -60.6 -0.00129 mg/L 0.000042 -0.00129 mg/L 0.000042 3.21%
QC value within limits for Zn Recovery = Not calculated
All analyte(s) passed QC.

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

Autosampler Location: 20
Date Collected: 2/11/2008 19:27:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	506103.8	101	%	0.0				0.04%
Yr	255663.7	102	%	0.1				0.10%
Agt	3013.5	0.0100	mg/L	0.00004	0.0100	mg/L	0.00004	0.37%
QC value within limits for Ag		Recovery = 100.25%						
Alt	205.1	0.0469	mg/L	0.00691	0.0469	mg/L	0.00691	14.74%
QC value within limits for Al		Recovery = 93.84%						
B_t	1993.8	0.0613	mg/L	0.00035	0.0613	mg/L	0.00035	0.57%
QC value within limits for B_		Recovery = 122.57%						
Bat	1509.0	0.0204	mg/L	0.00006	0.0204	mg/L	0.00006	0.30%
QC value within limits for Ba		Recovery = 101.98%						
Bet	3156.6	0.00102	mg/L	0.000022	0.00102	mg/L	0.000022	2.20%
QC value within limits for Be		Recovery = 101.54%						
Cat	6167.4	1.02	mg/L	0.005	1.02	mg/L	0.005	0.53%
QC value within limits for Ca		Recovery = 102.37%						
Cdt	165.8	0.00627	mg/L	0.000048	0.00627	mg/L	0.000048	0.77%
QC value within limits for Cd		Recovery = 125.35%						
Cot	1355.7	0.0518	mg/L	0.00007	0.0518	mg/L	0.00007	0.14%
QC value within limits for Co		Recovery = 103.66%						
Crt	814.4	0.0101	mg/L	0.00003	0.0101	mg/L	0.00003	0.26%
QC value within limits for Cr		Recovery = 101.05%						
Cut	4074.4	0.00987	mg/L	0.000311	0.00987	mg/L	0.000311	3.16%
QC value within limits for Cu		Recovery = 98.70%						
Fet	20.7	0.0251	mg/L	0.00486	0.0251	mg/L	0.00486	19.37%
QC value within limits for Fe		Recovery = 125.57%						
Kt	1209.7	0.966	mg/L	0.0192	0.966	mg/L	0.0192	1.99%
QC value within limits for K		Recovery = 96.64%						
Mgt	213.5	0.0891	mg/L	0.00020	0.0891	mg/L	0.00020	0.22%
QC value within limits for Mg		Recovery = 89.10%						
Mnt	1041.8	0.00181	mg/L	0.000024	0.00181	mg/L	0.000024	1.35%
QC value within limits for Mn		Recovery = 90.37%						
Mot	250.4	0.0202	mg/L	0.00022	0.0202	mg/L	0.00022	1.09%
QC value within limits for Mo		Recovery = 100.75%						
Nat	4685.0	0.965	mg/L	0.0148	0.965	mg/L	0.0148	1.53%
QC value within limits for Na		Recovery = 96.46%						
Nit	476.2	0.0213	mg/L	0.00002	0.0213	mg/L	0.00002	0.09%
QC value within limits for Ni		Recovery = 106.29%						
Pbt	95.9	0.0201	mg/L	0.00071	0.0201	mg/L	0.00071	3.52%
QC value within limits for Pb		Recovery = 100.41%						
Vt	344.6	0.00198	mg/L	0.000006	0.00198	mg/L	0.000006	0.32%
QC value within limits for V		Recovery = 99.23%						
Znt	957.7	0.0203	mg/L	0.00017	0.0203	mg/L	0.00017	0.85%
QC value within limits for Zn		Recovery = 101.36%						

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: MRL/2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 16
Date Collected: 2/11/2008 19:30:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL/2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	491311.5	97.9	%	0.36				0.36%
Yr	250907.3	100	%	0.2				0.18%
Agt	1564.8	0.00521	mg/L	0.000216	0.00521	mg/L	0.000216	4.15%
Alt	105.7	0.0242	mg/L	0.00622	0.0242	mg/L	0.00622	25.74%
B_t	1213.3	0.0373	mg/L	0.00013	0.0373	mg/L	0.00013	0.34%
Bat	769.0	0.0104	mg/L	0.00002	0.0104	mg/L	0.00002	0.16%
Bet	1505.9	0.00048	mg/L	0.000005	0.00048	mg/L	0.000005	0.96%
Cat	3119.1	0.518	mg/L	0.0065	0.518	mg/L	0.0065	1.26%
Cdt	90.0	0.00340	mg/L	0.000038	0.00340	mg/L	0.000038	1.12%
Cot	691.0	0.0264	mg/L	0.00027	0.0264	mg/L	0.00027	1.04%
Crt	415.9	0.00516	mg/L	0.000002	0.00516	mg/L	0.000002	0.03%
Cut	2056.6	0.00498	mg/L	0.000011	0.00498	mg/L	0.000011	0.22%
Fet	11.7	0.0143	mg/L	0.00429	0.0143	mg/L	0.00429	30.11%
Kt	617.9	0.494	mg/L	0.0134	0.494	mg/L	0.0134	2.72%
Mgt	84.8	0.0354	mg/L	0.00221	0.0354	mg/L	0.00221	6.25%
Mnt	430.2	0.00075	mg/L	0.000026	0.00075	mg/L	0.000026	3.50%
Mot	130.8	0.0105	mg/L	0.00013	0.0105	mg/L	0.00013	1.25%
Nat	2364.3	0.487	mg/L	0.0035	0.487	mg/L	0.0035	0.72%
Nit	243.9	0.0109	mg/L	0.00003	0.0109	mg/L	0.00003	0.28%
Pbt	44.7	0.00937	mg/L	0.000262	0.00937	mg/L	0.000262	2.80%
Vt	188.1	0.00108	mg/L	0.000221	0.00108	mg/L	0.000221	20.48%
Znt	556.2	0.0118	mg/L	0.00015	0.0118	mg/L	0.00015	1.29%

Sequence No.: 14
Sample ID: MRL/5
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 17
Date Collected: 2/11/2008 19:34:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MRL/5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	494577.0	98.6	%	0.43				0.44%
Yr	252973.0	101	%	0.1				0.06%
Agt	692.6	0.00230	mg/L	0.000674	0.00230	mg/L	0.000674	29.27%
Alt	32.6	0.00745	mg/L	0.006676	0.00745	mg/L	0.006676	89.62%
B_t	708.1	0.0218	mg/L	0.00016	0.0218	mg/L	0.00016	0.74%
Bat	295.8	0.00400	mg/L	0.000081	0.00400	mg/L	0.000081	2.04%
Bet	514.2	0.00017	mg/L	0.000029	0.00017	mg/L	0.000029	17.49%
Cat	1244.3	0.207	mg/L	0.0026	0.207	mg/L	0.0026	1.24%
Cdt	33.9	0.00128	mg/L	0.000022	0.00128	mg/L	0.000022	1.69%
Cot	275.5	0.0105	mg/L	0.00019	0.0105	mg/L	0.00019	1.83%
Crt	170.2	0.00211	mg/L	0.000002	0.00211	mg/L	0.000002	0.09%
Cut	754.1	0.00183	mg/L	0.000076	0.00183	mg/L	0.000076	4.13%
Fet	6.7	0.00807	mg/L	0.002791	0.00807	mg/L	0.002791	34.58%
Kt	178.0	0.142	mg/L	0.0023	0.142	mg/L	0.0023	1.61%
Mgt	17.7	0.00737	mg/L	0.000671	0.00737	mg/L	0.000671	9.10%
Mnt	50.3	0.00009	mg/L	0.000041	0.00009	mg/L	0.000041	46.99%
Mot	54.1	0.00435	mg/L	0.000002	0.00435	mg/L	0.000002	0.05%
Nat	917.9	0.189	mg/L	0.0018	0.189	mg/L	0.0018	0.95%
Nit	105.7	0.00472	mg/L	0.000086	0.00472	mg/L	0.000086	1.82%
Pbt	21.9	0.00458	mg/L	0.001192	0.00458	mg/L	0.001192	26.02%
Vt	79.3	0.00046	mg/L	0.000039	0.00046	mg/L	0.000039	8.49%
Znt	204.0	0.00432	mg/L	0.000049	0.00432	mg/L	0.000049	1.15%

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

Autosampler Location: 18
Date Collected: 2/11/2008 19:38:11
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	493280.9	98.3	%	0.50				0.51%
Yr	254567.4	102	%	0.1				0.08%
Ag†	6.3	0.00002	mg/L	0.000085	0.00002	mg/L	0.000085	401.51%
Al†	-20.6	-0.00470	mg/L	0.005049	-0.00470	mg/L	0.005049	107.35%
B_†	368.7	0.0114	mg/L	0.00015	0.0114	mg/L	0.00015	1.30%
Ba†	-15.7	-0.00021	mg/L	0.000028	-0.00021	mg/L	0.000028	13.05%
Be†	-125.0	-0.00004	mg/L	0.000003	-0.00004	mg/L	0.000003	6.52%
Ca†	-47.7	-0.00792	mg/L	0.001387	-0.00792	mg/L	0.001387	17.51%
Cd†	1.7	0.00006	mg/L	0.000027	0.00006	mg/L	0.000027	43.97%
Co†	-3.1	-0.00012	mg/L	0.000074	-0.00012	mg/L	0.000074	61.52%
Cr†	8.9	0.00011	mg/L	0.000000	0.00011	mg/L	0.000000	0.28%
Cu†	-64.0	-0.00015	mg/L	0.000060	-0.00015	mg/L	0.000060	38.57%
Fe†	3.0	0.00362	mg/L	0.002373	0.00362	mg/L	0.002373	65.47%
K†	-12.9	-0.0103	mg/L	0.03205	-0.0103	mg/L	0.03205	309.81%
Mg†	-38.4	-0.0160	mg/L	0.00072	-0.0160	mg/L	0.00072	4.50%
Mn†	-180.0	-0.00031	mg/L	0.000008	-0.00031	mg/L	0.000008	2.54%
Mo†	1.6	0.00013	mg/L	0.000616	0.00013	mg/L	0.000616	492.09%
Na†	-48.2	-0.00993	mg/L	0.001166	-0.00993	mg/L	0.001166	11.74%
Ni†	1.5	0.00007	mg/L	0.000012	0.00007	mg/L	0.000012	18.26%
Pb†	-0.1	-0.00001	mg/L	0.000483	-0.00001	mg/L	0.000483	>999.9%
V†	6.2	0.00004	mg/L	0.000152	0.00004	mg/L	0.000152	429.01%
Zn†	-67.7	-0.00144	mg/L	0.000043	-0.00144	mg/L	0.000043	2.98%

Sequence No.: 56
Sample ID: MBLANK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 65
Date Collected: 2/11/2008 22:32:15
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	493100.8	98.3	%	0.67				0.68%
Yr	249816.7	99.7	%	0.97				0.97%
Agt	73.5	0.00024	mg/L	0.000139	0.00024	mg/L	0.000139	56.70%
Alt	-3.6	-0.00083	mg/L	0.002149	-0.00083	mg/L	0.002149	257.87%
B_t	513.8	0.0158	mg/L	0.00046	0.0158	mg/L	0.00046	2.89%
Bat	-21.2	-0.00029	mg/L	0.000024	-0.00029	mg/L	0.000024	8.39%
Bet	-97.6	-0.00003	mg/L	0.000024	-0.00003	mg/L	0.000024	77.93%
Cat	-56.5	-0.00937	mg/L	0.001184	-0.00937	mg/L	0.001184	12.63%
Cdt	-0.7	-0.00003	mg/L	0.000149	-0.00003	mg/L	0.000149	546.07%
Cot	-0.7	-0.00003	mg/L	0.000099	-0.00003	mg/L	0.000099	369.81%
Crt	2.3	0.00003	mg/L	0.000055	0.00003	mg/L	0.000055	193.20%
Cut	-404.8	-0.00098	mg/L	0.000066	-0.00098	mg/L	0.000066	6.76%
Fet	-0.4	-0.00047	mg/L	0.000263	-0.00047	mg/L	0.000263	56.43%
Kt	-1.3	-0.00101	mg/L	0.014642	-0.00101	mg/L	0.014642	>999.9%
Mgt	-58.8	-0.0245	mg/L	0.00104	-0.0245	mg/L	0.00104	4.22%
Mnt	-299.5	-0.00052	mg/L	0.000010	-0.00052	mg/L	0.000010	1.92%
Mot	2.7	0.00022	mg/L	0.000289	0.00022	mg/L	0.000289	130.71%
Nat	75.0	0.0154	mg/L	0.01857	0.0154	mg/L	0.01857	120.26%
Nit	3.6	0.00016	mg/L	0.000117	0.00016	mg/L	0.000117	73.38%
Pbt	-13.5	-0.00283	mg/L	0.000008	-0.00283	mg/L	0.000008	0.29%
Vt	-47.4	-0.00026	mg/L	0.000254	-0.00026	mg/L	0.000254	96.08%
Znt	-110.1	-0.00235	mg/L	0.000183	-0.00235	mg/L	0.000183	7.77%

Sequence No.: 57
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 2/11/2008 22:35:53
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	495742.5	98.8	%	1.54				1.56%
Yr	252435.7	101	%	0.3				0.31%
Agt	3041.2	0.0101	mg/L	0.00021	0.0101	mg/L	0.00021	2.07%
Alt	200.9	0.0460	mg/L	0.00153	0.0460	mg/L	0.00153	3.32%
B_t	2024.0	0.0622	mg/L	0.00069	0.0622	mg/L	0.00069	1.11%
Bat	1530.5	0.0207	mg/L	0.00031	0.0207	mg/L	0.00031	1.50%
Bet	3222.9	0.00104	mg/L	0.000017	0.00104	mg/L	0.000017	1.66%
Cat	6062.4	1.01	mg/L	0.006	1.01	mg/L	0.006	0.58%
Cdt	162.5	0.00615	mg/L	0.000032	0.00615	mg/L	0.000032	0.52%
Cot	1365.5	0.0522	mg/L	0.00082	0.0522	mg/L	0.00082	1.57%
Crt	824.9	0.0102	mg/L	0.00032	0.0102	mg/L	0.00032	3.10%
Cut	3732.5	0.00905	mg/L	0.000325	0.00905	mg/L	0.000325	3.59%
Fet	18.4	0.0224	mg/L	0.00150	0.0224	mg/L	0.00150	6.70%
Kt	1208.3	0.965	mg/L	0.0004	0.965	mg/L	0.0004	0.04%
Mgt	190.6	0.0795	mg/L	0.00055	0.0795	mg/L	0.00055	0.69%
Mnt	975.4	0.00169	mg/L	0.000040	0.00169	mg/L	0.000040	2.35%
Mot	252.3	0.0203	mg/L	0.00044	0.0203	mg/L	0.00044	2.17%
Nat	4815.6	0.992	mg/L	0.0137	0.992	mg/L	0.0137	1.38%
Nit	476.8	0.0213	mg/L	0.00019	0.0213	mg/L	0.00019	0.89%
Pbt	87.6	0.0184	mg/L	0.00105	0.0184	mg/L	0.00105	5.71%
Vt	317.0	0.00183	mg/L	0.000030	0.00183	mg/L	0.000030	1.64%
Znt	858.9	0.0182	mg/L	0.00048	0.0182	mg/L	0.00048	2.67%

Sequence No.: 58
Sample ID: LCS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 66
Date Collected: 2/11/2008 22:39:29
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	464846.4	92.6	%	0.22				0.24%
Yr	245112.6	97.8	%	0.39				0.40%
Agt	142647.1	0.475	mg/L	0.0003	0.475	mg/L	0.0003	0.06%
Alt	8322.7	1.90	mg/L	0.010	1.90	mg/L	0.010	0.53%
B_t	16182.5	0.496	mg/L	0.0059	0.496	mg/L	0.0059	1.19%
Bat	74600.7	1.01	mg/L	0.011	1.01	mg/L	0.011	1.06%
Bet	160708.5	0.0517	mg/L	0.00004	0.0517	mg/L	0.00004	0.08%
Cat	305963.2	50.8	mg/L	0.28	50.8	mg/L	0.28	0.54%
Cdt	5601.6	0.209	mg/L	0.0011	0.209	mg/L	0.0011	0.53%
Cot	26616.9	1.02	mg/L	0.013	1.02	mg/L	0.013	1.29%
Crt	81111.6	1.01	mg/L	0.012	1.01	mg/L	0.012	1.24%
Cut	415079.2	1.00	mg/L	0.000	1.00	mg/L	0.000	0.04%
Fet	4115.2	4.99	mg/L	0.007	4.99	mg/L	0.007	0.13%
Kt	24610.5	19.7	mg/L	0.03	19.7	mg/L	0.03	0.15%
Mgt	48054.3	20.1	mg/L	0.07	20.1	mg/L	0.07	0.36%
Mnt	298621.9	0.518	mg/L	0.0010	0.518	mg/L	0.0010	0.19%
Mot	12343.4	0.993	mg/L	0.0089	0.993	mg/L	0.0089	0.89%
Nat	238355.6	49.1	mg/L	0.06	49.1	mg/L	0.06	0.11%
Nit	11465.9	0.512	mg/L	0.0072	0.512	mg/L	0.0072	1.41%
Pbt	5023.8	1.05	mg/L	0.015	1.05	mg/L	0.015	1.38%
Vt	177505.9	0.999	mg/L	0.0006	0.999	mg/L	0.0006	0.06%
Znt	48804.4	1.04	mg/L	0.008	1.04	mg/L	0.008	0.79%

Sequence No.: 59
Sample ID: LCSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 67
Date Collected: 2/11/2008 22:42:35
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	467553.1	93.2	%	0.16				0.17%
Yr	243637.5	97.2	%	1.72				1.77%
Agt	144868.5	0.482	mg/L	0.0006	0.482	mg/L	0.0006	0.13%
Alt	8637.6	1.98	mg/L	0.029	1.98	mg/L	0.029	1.47%
B_t	16438.6	0.504	mg/L	0.0015	0.504	mg/L	0.0015	0.29%
Bat	75494.4	1.02	mg/L	0.001	1.02	mg/L	0.001	0.05%
Bet	163577.4	0.0526	mg/L	0.00008	0.0526	mg/L	0.00008	0.15%
Cat	307546.8	51.0	mg/L	0.18	51.0	mg/L	0.18	0.34%
Cdt	5637.3	0.210	mg/L	0.0010	0.210	mg/L	0.0010	0.47%
Cot	26995.5	1.03	mg/L	0.000	1.03	mg/L	0.000	0.04%
Crt	81235.1	1.01	mg/L	0.001	1.01	mg/L	0.001	0.11%
Cut	422801.7	1.02	mg/L	0.003	1.02	mg/L	0.003	0.26%
Fet	4280.9	5.19	mg/L	0.048	5.19	mg/L	0.048	0.93%
Kt	25140.7	20.1	mg/L	0.34	20.1	mg/L	0.34	1.72%
Mgt	49169.6	20.5	mg/L	0.23	20.5	mg/L	0.23	1.11%
Mnt	303348.8	0.526	mg/L	0.0012	0.526	mg/L	0.0012	0.23%
Mot	12507.8	1.01	mg/L	0.003	1.01	mg/L	0.003	0.26%
Nat	238613.7	49.1	mg/L	0.21	49.1	mg/L	0.21	0.43%
Nit	11610.8	0.518	mg/L	0.0040	0.518	mg/L	0.0040	0.77%
Pbt	4896.1	1.03	mg/L	0.000	1.03	mg/L	0.000	0.01%
Vt	180480.0	1.02	mg/L	0.000	1.02	mg/L	0.000	0.01%
Znt	49483.3	1.05	mg/L	0.000	1.05	mg/L	0.000	0.04%

Sequence No.: 60
Sample ID: 2802080108
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 68
Date Collected: 2/11/2008 22:45:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080108

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	498803.3	99.4	%	0.15				0.15%
Yr	257196.9	103	%	0.1				0.08%
Agt	102.7	0.00034	mg/L	0.000198	0.00034	mg/L	0.000198	57.86%
Alt	13.4	0.00308	mg/L	0.000593	0.00308	mg/L	0.000593	19.28%
B_t	1017.0	0.0313	mg/L	0.00028	0.0313	mg/L	0.00028	0.88%
Bat	623.6	0.00843	mg/L	0.000106	0.00843	mg/L	0.000106	1.26%
Bet	-173.6	-0.00006	mg/L	0.000015	-0.00006	mg/L	0.000015	27.73%
Cat	17142.7	2.85	mg/L	0.019	2.85	mg/L	0.019	0.66%
Cdt	-4.8	-0.00017	mg/L	0.000078	-0.00017	mg/L	0.000078	47.28%
Cot	75.5	0.00289	mg/L	0.000257	0.00289	mg/L	0.000257	8.88%
Crt	-50.9	-0.00063	mg/L	0.000096	-0.00063	mg/L	0.000096	15.14%
Cut	356.4	0.00086	mg/L	0.000008	0.00086	mg/L	0.000008	0.88%
Fet	3.6	0.00440	mg/L	0.000448	0.00440	mg/L	0.000448	10.17%
Kt	775.0	0.619	mg/L	0.0047	0.619	mg/L	0.0047	0.76%
Mgt	1252.4	0.523	mg/L	0.0030	0.523	mg/L	0.0030	0.56%
Mnt	2686.9	0.00466	mg/L	0.000013	0.00466	mg/L	0.000013	0.28%
Mot	17.7	0.00143	mg/L	0.000013	0.00143	mg/L	0.000013	0.92%
Nat	15815.2	3.26	mg/L	0.015	3.26	mg/L	0.015	0.45%
Nit	5.3	0.00024	mg/L	0.000167	0.00024	mg/L	0.000167	71.11%
Pbt	-5.5	-0.00114	mg/L	0.001573	-0.00114	mg/L	0.001573	137.37%
Vt	115.1	0.00064	mg/L	0.000054	0.00064	mg/L	0.000054	8.43%
Znt	-103.8	-0.00221	mg/L	0.000085	-0.00221	mg/L	0.000085	3.85%

Sequence No.: 61
Sample ID: 2802080108MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 69
Date Collected: 2/11/2008 22:49:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080108MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	480018.7	95.7	%	0.86				0.90%
Yr	245524.5	98.0	%	0.47				0.48%
Agt	132172.1	0.440	mg/L	0.0117	0.440	mg/L	0.0117	2.66%
Alt	8695.7	1.99	mg/L	0.006	1.99	mg/L	0.006	0.31%
B_t	16944.4	0.520	mg/L	0.0065	0.520	mg/L	0.0065	1.26%
Bat	75509.7	1.02	mg/L	0.010	1.02	mg/L	0.010	1.02%
Bet	160616.3	0.0517	mg/L	0.00013	0.0517	mg/L	0.00013	0.26%
Cat	322351.6	53.5	mg/L	0.17	53.5	mg/L	0.17	0.31%
Cdt	5679.7	0.212	mg/L	0.0020	0.212	mg/L	0.0020	0.95%
Cot	26825.9	1.03	mg/L	0.010	1.03	mg/L	0.010	0.97%
Crt	80692.6	1.00	mg/L	0.000	1.00	mg/L	0.000	0.02%
Cut	414984.8	1.00	mg/L	0.004	1.00	mg/L	0.004	0.42%
Fet	4221.7	5.12	mg/L	0.035	5.12	mg/L	0.035	0.69%
Kt	25389.8	20.3	mg/L	0.12	20.3	mg/L	0.12	0.59%
Mgt	49503.0	20.7	mg/L	0.09	20.7	mg/L	0.09	0.43%
Mnt	303665.5	0.527	mg/L	0.0001	0.527	mg/L	0.0001	0.01%
Mot	12087.4	0.973	mg/L	0.0163	0.973	mg/L	0.0163	1.68%
Nat	251677.3	51.8	mg/L	0.28	51.8	mg/L	0.28	0.54%
Nit	11512.4	0.514	mg/L	0.0069	0.514	mg/L	0.0069	1.35%
Pbt	4891.1	1.02	mg/L	0.010	1.02	mg/L	0.010	0.96%
Vt	179534.2	1.01	mg/L	0.002	1.01	mg/L	0.002	0.17%
Znt	50703.8	1.08	mg/L	0.010	1.08	mg/L	0.010	0.94%

Sequence No.: 62
Sample ID: 2802080108MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 70
Date Collected: 2/11/2008 22:52:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802080108MSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	480400.9	95.7	%	0.03				0.03%
Yr	246196.2	98.2	%	0.25				0.26%
Agt	137438.5	0.457	mg/L	0.0044	0.457	mg/L	0.0044	0.96%
Alt	8697.0	1.99	mg/L	0.029	1.99	mg/L	0.029	1.43%
B_t	17019.5	0.522	mg/L	0.0039	0.522	mg/L	0.0039	0.75%
Bat	76048.3	1.03	mg/L	0.002	1.03	mg/L	0.002	0.18%
Bet	160906.2	0.0518	mg/L	0.00012	0.0518	mg/L	0.00012	0.22%
Cat	321198.7	53.3	mg/L	0.31	53.3	mg/L	0.31	0.59%
Cdt	5728.1	0.214	mg/L	0.0004	0.214	mg/L	0.0004	0.19%
Cot	26989.3	1.03	mg/L	0.005	1.03	mg/L	0.005	0.46%
Crt	80803.7	1.00	mg/L	0.001	1.00	mg/L	0.001	0.14%
Cut	415785.7	1.00	mg/L	0.007	1.00	mg/L	0.007	0.65%
Fet	4204.8	5.10	mg/L	0.080	5.10	mg/L	0.080	1.57%
Kt	25285.5	20.2	mg/L	0.35	20.2	mg/L	0.35	1.72%
Mgt	49522.9	20.7	mg/L	0.36	20.7	mg/L	0.36	1.75%
Mnt	304320.3	0.528	mg/L	0.0018	0.528	mg/L	0.0018	0.35%
Mot	12199.3	0.982	mg/L	0.0085	0.982	mg/L	0.0085	0.86%
Nat	250923.3	51.7	mg/L	0.03	51.7	mg/L	0.03	0.06%
Nit	11603.9	0.518	mg/L	0.0008	0.518	mg/L	0.0008	0.16%
Pbt	4945.9	1.04	mg/L	0.008	1.04	mg/L	0.008	0.79%
Vt	179577.9	1.01	mg/L	0.002	1.01	mg/L	0.002	0.21%
Znt	50985.1	1.08	mg/L	0.008	1.08	mg/L	0.008	0.72%

Sequence No.: 66
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/11/2008 23:07:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	453781.2	90.4	%	0.40				0.44%
Yr	238002.0	95.0	%	0.66				0.69%
Agt	300347.3	0.999	mg/L	0.0041	0.999	mg/L	0.0041	0.41%
QC value within limits for Ag		Recovery = 99.92%						
Alt	22589.7	5.17	mg/L	0.003	5.17	mg/L	0.003	0.05%
QC value within limits for Al		Recovery = 103.37%						
B_t	83195.4	2.55	mg/L	0.010	2.55	mg/L	0.010	0.39%
QC value within limits for B_		Recovery = 102.04%						
Bat	385278.3	5.21	mg/L	0.031	5.21	mg/L	0.031	0.60%
QC value within limits for Ba		Recovery = 104.15%						
Bet	6617830.1	2.13	mg/L	0.008	2.13	mg/L	0.008	0.39%
QC value within limits for Be		Recovery = 106.44%						
Cat	308717.5	51.2	mg/L	0.12	51.2	mg/L	0.12	0.23%
QC value within limits for Ca		Recovery = 102.49%						
Cdt	56412.7	2.08	mg/L	0.011	2.08	mg/L	0.011	0.52%
QC value within limits for Cd		Recovery = 104.23%						
Cot	136896.3	5.23	mg/L	0.038	5.23	mg/L	0.038	0.74%
QC value within limits for Co		Recovery = 104.68%						
Crt	417843.7	5.19	mg/L	0.026	5.19	mg/L	0.026	0.51%
QC value within limits for Cr		Recovery = 103.70%						
Cut	2156188.2	5.20	mg/L	0.005	5.20	mg/L	0.005	0.09%
QC value within limits for Cu		Recovery = 104.05%						
Fet	4303.7	5.22	mg/L	0.034	5.22	mg/L	0.034	0.66%
QC value within limits for Fe		Recovery = 104.45%						
Kt	62319.0	49.8	mg/L	0.27	49.8	mg/L	0.27	0.54%
QC value within limits for K		Recovery = 99.57%						
Mgt	121921.4	50.9	mg/L	0.01	50.9	mg/L	0.01	0.01%
QC value within limits for Mg		Recovery = 101.76%						
Mnt	3056085.8	5.30	mg/L	0.003	5.30	mg/L	0.003	0.05%
QC value within limits for Mn		Recovery = 106.03%						
Mot	63534.9	5.11	mg/L	0.026	5.11	mg/L	0.026	0.51%
QC value within limits for Mo		Recovery = 102.25%						
Nat	240732.2	49.6	mg/L	0.18	49.6	mg/L	0.18	0.36%
QC value within limits for Na		Recovery = 99.13%						
Nit	117829.2	5.26	mg/L	0.026	5.26	mg/L	0.026	0.49%
QC value within limits for Ni		Recovery = 105.20%						
Pbt	25021.5	5.24	mg/L	0.011	5.24	mg/L	0.011	0.22%
QC value within limits for Pb		Recovery = 104.85%						
Vt	919083.5	5.17	mg/L	0.002	5.17	mg/L	0.002	0.04%
QC value within limits for V		Recovery = 103.46%						
Znt	249321.2	5.28	mg/L	0.028	5.28	mg/L	0.028	0.54%
QC value within limits for Zn		Recovery = 105.58%						

All analyte(s) passed QC.

Sequence No.: 67
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/11/2008 23:10:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	492891.8	98.2	%	0.33				0.33%
Yr	245762.9	98.1	%	0.32				0.33%
Ag†	-37.6	-0.00013	mg/L	0.000063	-0.00013	mg/L	0.000063	50.34%
QC value within limits for Ag	Recovery = Not calculated							
Al†	22.1	0.00505	mg/L	0.001865	0.00505	mg/L	0.001865	36.91%
QC value within limits for Al	Recovery = Not calculated							
B_†	746.0	0.0230	mg/L	0.00071	0.0230	mg/L	0.00071	3.08%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-23.8	-0.00032	mg/L	0.000008	-0.00032	mg/L	0.000008	2.42%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-14.2	0.00000	mg/L	0.000034	0.00000	mg/L	0.000034	738.96%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-71.8	-0.0119	mg/L	0.00144	-0.0119	mg/L	0.00144	12.07%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	1.0	0.00003	mg/L	0.000079	0.00003	mg/L	0.000079	229.28%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-7.0	-0.00027	mg/L	0.000114	-0.00027	mg/L	0.000114	42.54%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-2.2	-0.00003	mg/L	0.000079	-0.00003	mg/L	0.000079	292.81%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-402.8	-0.00097	mg/L	0.000059	-0.00097	mg/L	0.000059	6.05%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.5	0.00187	mg/L	0.002065	0.00187	mg/L	0.002065	110.16%
QC value within limits for Fe	Recovery = Not calculated							
K†	19.8	0.0158	mg/L	0.01579	0.0158	mg/L	0.01579	99.87%
QC value within limits for K	Recovery = Not calculated							
Mg†	-58.3	-0.0243	mg/L	0.00100	-0.0243	mg/L	0.00100	4.12%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-278.6	-0.00048	mg/L	0.000010	-0.00048	mg/L	0.000010	2.04%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	18.9	0.00152	mg/L	0.000196	0.00152	mg/L	0.000196	12.92%
QC value within limits for Mo	Recovery = Not calculated							
Na†	-65.4	-0.0135	mg/L	0.00179	-0.0135	mg/L	0.00179	13.29%
QC value within limits for Na	Recovery = Not calculated							
Ni†	1.6	0.00007	mg/L	0.000052	0.00007	mg/L	0.000052	72.56%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-7.0	-0.00146	mg/L	0.000692	-0.00146	mg/L	0.000692	47.28%
QC value within limits for Pb	Recovery = Not calculated							
V†	-14.3	-0.00008	mg/L	0.000026	-0.00008	mg/L	0.000026	32.24%
QC value within limits for V	Recovery = Not calculated							
Zn†	-134.2	-0.00286	mg/L	0.000155	-0.00286	mg/L	0.000155	5.43%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 68
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/11/2008 23:12:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	484940.5	96.7	%	0.87				0.90%
Yr	247101.8	98.6	%	1.27				1.29%
Ag†	49.4	0.00016	mg/L	0.000036	0.00016	mg/L	0.000036	21.99%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-6.5	-0.00148	mg/L	0.005961	-0.00148	mg/L	0.005961	401.99%

QC value within limits for Al Recovery = Not calculated
B_t 592.9 0.0183 mg/L 0.00051 0.0183 mg/L 0.00051 2.80%
QC value within limits for B_ Recovery = Not calculated
Bat -26.4 -0.00036 mg/L 0.000017 -0.00036 mg/L 0.000017 4.79%
QC value within limits for Ba Recovery = Not calculated
Bet -163.8 -0.00005 mg/L 0.000024 -0.00005 mg/L 0.000024 45.43%
QC value within limits for Be Recovery = Not calculated
Cat -77.5 -0.0129 mg/L 0.00121 -0.0129 mg/L 0.00121 9.44%
QC value within limits for Ca Recovery = Not calculated
Cdt -1.7 -0.00006 mg/L 0.000021 -0.00006 mg/L 0.000021 32.76%
QC value within limits for Cd Recovery = Not calculated
Cot -12.8 -0.00049 mg/L 0.000186 -0.00049 mg/L 0.000186 37.82%
QC value within limits for Co Recovery = Not calculated
Crt 3.7 0.00005 mg/L 0.000067 0.00005 mg/L 0.000067 144.75%
QC value within limits for Cr Recovery = Not calculated
Cut -415.0 -0.00100 mg/L 0.000075 -0.00100 mg/L 0.000075 7.50%
QC value within limits for Cu Recovery = Not calculated
Fet -0.1 -0.00007 mg/L 0.001195 -0.00007 mg/L 0.001195 >999.9%
QC value within limits for Fe Recovery = Not calculated
Kt -18.8 -0.0150 mg/L 0.03598 -0.0150 mg/L 0.03598 239.35%
QC value within limits for K Recovery = Not calculated
Mgt -54.1 -0.0226 mg/L 0.00094 -0.0226 mg/L 0.00094 4.15%
QC value within limits for Mg Recovery = Not calculated
Mnt -290.1 -0.00050 mg/L 0.000004 -0.00050 mg/L 0.000004 0.79%
QC value within limits for Mn Recovery = Not calculated
Mot 8.9 0.00072 mg/L 0.000041 0.00072 mg/L 0.000041 5.67%
QC value within limits for Mo Recovery = Not calculated
Nat -39.1 -0.00805 mg/L 0.012531 -0.00805 mg/L 0.012531 155.65%
QC value within limits for Na Recovery = Not calculated
Nit -3.5 -0.00016 mg/L 0.000277 -0.00016 mg/L 0.000277 176.79%
QC value within limits for Ni Recovery = Not calculated
Pbt -13.0 -0.00273 mg/L 0.001402 -0.00273 mg/L 0.001402 51.41%
QC value within limits for Pb Recovery = Not calculated
Vt -11.5 -0.00006 mg/L 0.000202 -0.00006 mg/L 0.000202 314.47%
QC value within limits for V Recovery = Not calculated
Znt -130.6 -0.00278 mg/L 0.000090 -0.00278 mg/L 0.000090 3.24%
QC value within limits for Zn Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 69
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/11/2008 23:16:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	471833.6	94.0	%	0.59				0.62%
Yr	243074.1	97.0	%	0.00				0.00%
Agt	143806.9	0.478	mg/L	0.0051	0.478	mg/L	0.0051	1.07%
QC value within limits for Ag		Recovery = 95.68%						
Alt	11139.6	2.55	mg/L	0.006	2.55	mg/L	0.006	0.23%
QC value within limits for Al		Recovery = 101.95%						
B_t	41652.1	1.28	mg/L	0.015	1.28	mg/L	0.015	1.19%
QC value within limits for B_		Recovery = 102.17%						
Bat	193924.3	2.62	mg/L	0.006	2.62	mg/L	0.006	0.24%
QC value within limits for Ba		Recovery = 104.84%						
Bet	3307009.9	1.06	mg/L	0.004	1.06	mg/L	0.004	0.40%
QC value within limits for Be		Recovery = 106.38%						
Cat	154550.1	25.7	mg/L	0.03	25.7	mg/L	0.03	0.12%
QC value within limits for Ca		Recovery = 102.61%						
Cdt	27990.6	1.03	mg/L	0.010	1.03	mg/L	0.010	0.94%
QC value within limits for Cd		Recovery = 103.45%						
Cot	68875.7	2.63	mg/L	0.022	2.63	mg/L	0.022	0.84%
QC value within limits for Co		Recovery = 105.33%						
Crt	208177.2	2.58	mg/L	0.004	2.58	mg/L	0.004	0.16%
QC value within limits for Cr		Recovery = 103.33%						
Cut	1074302.6	2.59	mg/L	0.014	2.59	mg/L	0.014	0.53%
QC value within limits for Cu		Recovery = 103.68%						
Fet	2171.4	2.63	mg/L	0.004	2.63	mg/L	0.004	0.13%
QC value within limits for Fe		Recovery = 105.40%						
Kt	30453.4	24.3	mg/L	0.03	24.3	mg/L	0.03	0.13%
QC value within limits for K		Recovery = 97.31%						
Mgt	61380.9	25.6	mg/L	0.07	25.6	mg/L	0.07	0.26%
QC value within limits for Mg		Recovery = 102.47%						
Mnt	1545898.5	2.68	mg/L	0.007	2.68	mg/L	0.007	0.28%
QC value within limits for Mn		Recovery = 107.27%						
Mot	31852.6	2.56	mg/L	0.033	2.56	mg/L	0.033	1.30%
QC value within limits for Mo		Recovery = 102.53%						
Nat	119108.5	24.5	mg/L	0.02	24.5	mg/L	0.02	0.10%
QC value within limits for Na		Recovery = 98.10%						
Nit	59696.0	2.66	mg/L	0.023	2.66	mg/L	0.023	0.88%
QC value within limits for Ni		Recovery = 106.59%						
Pbt	12657.9	2.65	mg/L	0.010	2.65	mg/L	0.010	0.37%
QC value within limits for Pb		Recovery = 106.08%						
Vt	457756.4	2.58	mg/L	0.007	2.58	mg/L	0.007	0.27%
QC value within limits for V		Recovery = 103.05%						
Znt	125742.2	2.66	mg/L	0.031	2.66	mg/L	0.031	1.16%
QC value within limits for Zn		Recovery = 106.49%						

All analyte(s) passed QC.

Sequence No.: 76
Sample ID: 2801150171
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 80
Date Collected: 2/11/2008 23:43:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2801150171

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	462632.4	92.2	%	0.41				0.44%
Yr	238987.1	95.4	%	0.41				0.42%
Agt	-55.4	-0.00018	mg/L	0.000038	-0.00018	mg/L	0.000038	20.42%
Alt	-21.4	-0.00489	mg/L	0.003006	-0.00489	mg/L	0.003006	61.51%
B_t	5088.5	0.157	mg/L	0.0009	0.157	mg/L	0.0009	0.59%
Bat	11566.4	0.156	mg/L	0.0003	0.156	mg/L	0.0003	0.22%
Bet	-776.3	-0.00025	mg/L	0.000026	-0.00025	mg/L	0.000026	10.56%
Cat	484521.0	80.4	mg/L	0.11	80.4	mg/L	0.11	0.14%
Cdt	-21.9	-0.00080	mg/L	0.000127	-0.00080	mg/L	0.000127	15.83%
Cot	-17.6	-0.00067	mg/L	0.000078	-0.00067	mg/L	0.000078	11.56%
Crt	-88.8	-0.00110	mg/L	0.000011	-0.00110	mg/L	0.000011	0.99%
Cut	-149.3	-0.00036	mg/L	0.000084	-0.00036	mg/L	0.000084	23.17%
Fet	7.5	0.00911	mg/L	0.004590	0.00911	mg/L	0.004590	50.40%
Kt	6751.5	5.39	mg/L	0.017	5.39	mg/L	0.017	0.31%
Mgt	72482.0	30.2	mg/L	0.00	30.2	mg/L	0.00	0.01%
Mnt	-450.5	-0.00078	mg/L	0.000020	-0.00078	mg/L	0.000020	2.50%
Mot	72.7	0.00585	mg/L	0.000945	0.00585	mg/L	0.000945	16.15%
Nat	471632.6	97.1	mg/L	0.14	97.1	mg/L	0.14	0.14%
Nit	12.7	0.00057	mg/L	0.000205	0.00057	mg/L	0.000205	35.99%
Pbt	-25.2	-0.00527	mg/L	0.001289	-0.00527	mg/L	0.001289	24.45%
Vt	405.2	0.00226	mg/L	0.000018	0.00226	mg/L	0.000018	0.79%
Znt	885.5	0.0189	mg/L	0.00105	0.0189	mg/L	0.00105	5.57%

Sequence No.: 77
Sample ID: 2801150171MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 81
Date Collected: 2/11/2008 23:48:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2801150171MS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	450081.0	89.7	%	0.59				0.66%
Yr	237011.7	94.6	%	0.37				0.40%
Agt	131029.9	0.436	mg/L	0.0012	0.436	mg/L	0.0012	0.27%
Alt	8874.6	2.03	mg/L	0.002	2.03	mg/L	0.002	0.12%
B_t	21714.0	0.666	mg/L	0.0011	0.666	mg/L	0.0011	0.17%
Bat	87647.8	1.18	mg/L	0.002	1.18	mg/L	0.002	0.15%
Bet	161764.1	0.0520	mg/L	0.00011	0.0520	mg/L	0.00011	0.20%
Cat	772877.0	128	mg/L	0.1	128	mg/L	0.1	0.06%
Cdt	5888.0	0.220	mg/L	0.0012	0.220	mg/L	0.0012	0.54%
Cot	27616.3	1.06	mg/L	0.003	1.06	mg/L	0.003	0.26%
Crt	83171.6	1.03	mg/L	0.002	1.03	mg/L	0.002	0.17%
Cut	423719.3	1.02	mg/L	0.006	1.02	mg/L	0.006	0.56%
Fet	4346.7	5.27	mg/L	0.024	5.27	mg/L	0.024	0.46%
Kt	32193.2	25.7	mg/L	0.13	25.7	mg/L	0.13	0.50%
Mgt	118418.2	49.4	mg/L	0.03	49.4	mg/L	0.03	0.06%
Mnt	310022.9	0.538	mg/L	0.0006	0.538	mg/L	0.0006	0.11%
Mot	12518.0	1.01	mg/L	0.004	1.01	mg/L	0.004	0.44%
Nat	700993.9	144	mg/L	0.4	144	mg/L	0.4	0.25%
Nit	11849.1	0.529	mg/L	0.0007	0.529	mg/L	0.0007	0.12%
Pbt	4967.3	1.04	mg/L	0.001	1.04	mg/L	0.001	0.05%
Vt	183576.1	1.03	mg/L	0.003	1.03	mg/L	0.003	0.28%
Znt	53793.4	1.14	mg/L	0.004	1.14	mg/L	0.004	0.31%

Sequence No.: 78
Sample ID: 2801150171MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 82
Date Collected: 2/11/2008 23:51:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2801150171MSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	450409.1	89.8	%	0.70				0.78%
Yr	238145.6	95.0	%	0.28				0.29%
Agt	130607.8	0.434	mg/L	0.0006	0.434	mg/L	0.0006	0.13%
Alt	8870.2	2.03	mg/L	0.009	2.03	mg/L	0.009	0.44%
B_t	21510.9	0.660	mg/L	0.0075	0.660	mg/L	0.0075	1.14%
Bat	88106.1	1.19	mg/L	0.000	1.19	mg/L	0.000	0.01%
Bet	162236.8	0.0522	mg/L	0.00011	0.0522	mg/L	0.00011	0.21%
Cat	775471.0	129	mg/L	0.6	129	mg/L	0.6	0.50%
Cdt	5876.3	0.219	mg/L	0.0022	0.219	mg/L	0.0022	1.01%
Cot	27337.6	1.05	mg/L	0.012	1.05	mg/L	0.012	1.12%
Crt	82512.0	1.02	mg/L	0.012	1.02	mg/L	0.012	1.16%
Cut	424999.3	1.03	mg/L	0.003	1.03	mg/L	0.003	0.32%
Fet	4310.6	5.23	mg/L	0.028	5.23	mg/L	0.028	0.53%
Kt	32238.9	25.8	mg/L	0.12	25.8	mg/L	0.12	0.49%
Mgt	118509.6	49.5	mg/L	0.20	49.5	mg/L	0.20	0.40%
Mnt	311414.7	0.540	mg/L	0.0007	0.540	mg/L	0.0007	0.13%
Mot	12460.0	1.00	mg/L	0.012	1.00	mg/L	0.012	1.18%
Nat	701750.4	144	mg/L	0.8	144	mg/L	0.8	0.57%
Nit	11734.2	0.524	mg/L	0.0034	0.524	mg/L	0.0034	0.65%
Pbt	4943.0	1.04	mg/L	0.012	1.04	mg/L	0.012	1.21%
Vt	183975.1	1.04	mg/L	0.001	1.04	mg/L	0.001	0.07%
Znt	53303.2	1.13	mg/L	0.013	1.13	mg/L	0.013	1.16%

Sequence No.: 80
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/11/2008 23:58:46
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	457539.8	91.2	%	0.14				0.16%
Yr	236849.5	94.5	%	0.73				0.77%
Ag†	303953.8	1.01	mg/L	0.001	1.01	mg/L	0.001	0.06%
QC value within limits for Ag		Recovery = 101.12%						
Al†	23024.8	5.27	mg/L	0.068	5.27	mg/L	0.068	1.29%
QC value within limits for Al		Recovery = 105.36%						
B_†	84626.0	2.59	mg/L	0.007	2.59	mg/L	0.007	0.29%
QC value within limits for B_		Recovery = 103.80%						
Ba†	389631.0	5.27	mg/L	0.004	5.27	mg/L	0.004	0.07%
QC value within limits for Ba		Recovery = 105.32%						
Be†	6619259.6	2.13	mg/L	0.004	2.13	mg/L	0.004	0.19%
QC value within limits for Be		Recovery = 106.46%						
Ca†	311054.1	51.6	mg/L	0.03	51.6	mg/L	0.03	0.06%
QC value within limits for Ca		Recovery = 103.26%						
Cd†	57004.8	2.11	mg/L	0.002	2.11	mg/L	0.002	0.09%
QC value within limits for Cd		Recovery = 105.33%						
Co†	138718.3	5.30	mg/L	0.003	5.30	mg/L	0.003	0.06%
QC value within limits for Co		Recovery = 106.07%						
Cr†	423498.1	5.26	mg/L	0.002	5.26	mg/L	0.002	0.05%
QC value within limits for Cr		Recovery = 105.10%						
Cu†	2169933.2	5.24	mg/L	0.029	5.24	mg/L	0.029	0.56%
QC value within limits for Cu		Recovery = 104.71%						
Fe†	4392.2	5.33	mg/L	0.103	5.33	mg/L	0.103	1.92%
QC value within limits for Fe		Recovery = 106.59%						
K†	63283.7	50.6	mg/L	0.14	50.6	mg/L	0.14	0.27%
QC value within limits for K		Recovery = 101.11%						
Mg†	123175.1	51.4	mg/L	0.05	51.4	mg/L	0.05	0.09%
QC value within limits for Mg		Recovery = 102.81%						
Mn†	3075213.7	5.33	mg/L	0.007	5.33	mg/L	0.007	0.13%
QC value within limits for Mn		Recovery = 106.70%						
Mo†	64583.6	5.20	mg/L	0.008	5.20	mg/L	0.008	0.15%
QC value within limits for Mo		Recovery = 103.94%						
Na†	241884.7	49.8	mg/L	0.05	49.8	mg/L	0.05	0.11%
QC value within limits for Na		Recovery = 99.61%						
Ni†	119607.4	5.34	mg/L	0.012	5.34	mg/L	0.012	0.23%
QC value within limits for Ni		Recovery = 106.78%						
Pb†	25432.7	5.33	mg/L	0.007	5.33	mg/L	0.007	0.14%
QC value within limits for Pb		Recovery = 106.57%						
V†	924931.5	5.21	mg/L	0.002	5.21	mg/L	0.002	0.03%
QC value within limits for V		Recovery = 104.12%						
Zn†	253027.9	5.36	mg/L	0.002	5.36	mg/L	0.002	0.04%
QC value within limits for Zn		Recovery = 107.15%						

All analyte(s) passed QC.

Sequence No.: 81
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/12/2008 00:01:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	488208.7	97.3	%	0.85				0.87%
Yr	247146.7	98.6	%	0.04				0.04%
Ag†	26.6	0.00009	mg/L	0.000099	0.00009	mg/L	0.000099	111.70%
QC value within limits for Ag		Recovery = Not calculated						
Al†	-17.0	-0.00388	mg/L	0.004787	-0.00388	mg/L	0.004787	123.41%
QC value within limits for Al		Recovery = Not calculated						
B_†	767.4	0.0236	mg/L	0.00120	0.0236	mg/L	0.00120	5.08%
QC value greater than the upper limit for B_		Recovery = Not calculated						
Ba†	-22.0	-0.00030	mg/L	0.000005	-0.00030	mg/L	0.000005	1.80%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-152.8	-0.00005	mg/L	0.000040	-0.00005	mg/L	0.000040	80.53%
QC value within limits for Be		Recovery = Not calculated						
Ca†	-65.9	-0.0109	mg/L	0.00067	-0.0109	mg/L	0.00067	6.10%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	-1.3	-0.00005	mg/L	0.000033	-0.00005	mg/L	0.000033	66.61%
QC value within limits for Cd		Recovery = Not calculated						
Co†	-6.1	-0.00023	mg/L	0.000188	-0.00023	mg/L	0.000188	80.56%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-2.0	-0.00002	mg/L	0.000025	-0.00002	mg/L	0.000025	100.86%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-464.2	-0.00112	mg/L	0.000108	-0.00112	mg/L	0.000108	9.67%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	1.5	0.00181	mg/L	0.001233	0.00181	mg/L	0.001233	68.32%
QC value within limits for Fe		Recovery = Not calculated						
K†	8.9	0.00715	mg/L	0.028945	0.00715	mg/L	0.028945	404.90%
QC value within limits for K		Recovery = Not calculated						
Mg†	-56.5	-0.0236	mg/L	0.00173	-0.0236	mg/L	0.00173	7.35%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	-268.0	-0.00046	mg/L	0.000001	-0.00046	mg/L	0.000001	0.13%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	21.1	0.00170	mg/L	0.000492	0.00170	mg/L	0.000492	28.95%
QC value within limits for Mo		Recovery = Not calculated						
Na†	-19.4	-0.00400	mg/L	0.005249	-0.00400	mg/L	0.005249	131.25%
QC value within limits for Na		Recovery = Not calculated						
Ni†	-0.4	-0.00002	mg/L	0.000222	-0.00002	mg/L	0.000222	>999.9%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	-6.0	-0.00126	mg/L	0.001965	-0.00126	mg/L	0.001965	155.53%
QC value within limits for Pb		Recovery = Not calculated						
V†	-15.6	-0.00009	mg/L	0.000280	-0.00009	mg/L	0.000280	319.80%
QC value within limits for V		Recovery = Not calculated						
Zn†	-140.2	-0.00299	mg/L	0.000154	-0.00299	mg/L	0.000154	5.15%
QC value within limits for Zn		Recovery = Not calculated						

QC Failed. Retry.

Sequence No.: 82
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 2/12/2008 00:04:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	493878.0	98.4	%	0.79				0.80%
Yr	248385.7	99.1	%	0.05				0.05%
Ag†	72.5	0.00024	mg/L	0.000377	0.00024	mg/L	0.000377	156.30%
QC value within limits for Ag		Recovery = Not calculated						
Al†	7.7	0.00177	mg/L	0.001620	0.00177	mg/L	0.001620	91.62%

QC value within limits for Al Recovery = Not calculated
B_† 579.1 0.0178 mg/L 0.00015 0.0178 mg/L 0.00015 0.82%
QC value within limits for B_ Recovery = Not calculated
Ba† -22.8 -0.00031 mg/L 0.000097 -0.00031 mg/L 0.000097 31.37%
QC value within limits for Ba Recovery = Not calculated
Be† -82.6 -0.00003 mg/L 0.000008 -0.00003 mg/L 0.000008 28.34%
QC value within limits for Be Recovery = Not calculated
Ca† -85.8 -0.0142 mg/L 0.00084 -0.0142 mg/L 0.00084 5.88%
QC value within limits for Ca Recovery = Not calculated
Cd† -6.9 -0.00026 mg/L 0.000017 -0.00026 mg/L 0.000017 6.84%
QC value within limits for Cd Recovery = Not calculated
Co† -11.0 -0.00042 mg/L 0.000036 -0.00042 mg/L 0.000036 8.58%
QC value within limits for Co Recovery = Not calculated
Cr† -8.4 -0.00010 mg/L 0.000064 -0.00010 mg/L 0.000064 61.66%
QC value within limits for Cr Recovery = Not calculated
Cu† -460.2 -0.00111 mg/L 0.000029 -0.00111 mg/L 0.000029 2.63%
QC value within limits for Cu Recovery = Not calculated
Fe† -1.2 -0.00146 mg/L 0.001268 -0.00146 mg/L 0.001268 86.79%
QC value within limits for Fe Recovery = Not calculated
K† 3.6 0.00289 mg/L 0.002609 0.00289 mg/L 0.002609 90.14%
QC value within limits for K Recovery = Not calculated
Mg† -58.4 -0.0244 mg/L 0.00060 -0.0244 mg/L 0.00060 2.48%
QC value within limits for Mg Recovery = Not calculated
Mn† -290.4 -0.00050 mg/L 0.000016 -0.00050 mg/L 0.000016 3.08%
QC value within limits for Mn Recovery = Not calculated
Mo† 9.0 0.00072 mg/L 0.000152 0.00072 mg/L 0.000152 21.07%
QC value within limits for Mo Recovery = Not calculated
Na† -41.6 -0.00858 mg/L 0.003752 -0.00858 mg/L 0.003752 43.75%
QC value within limits for Na Recovery = Not calculated
Ni† -5.2 -0.00023 mg/L 0.000346 -0.00023 mg/L 0.000346 150.12%
QC value within limits for Ni Recovery = Not calculated
Pb† -10.3 -0.00216 mg/L 0.000768 -0.00216 mg/L 0.000768 35.45%
QC value within limits for Pb Recovery = Not calculated
V† -30.1 -0.00017 mg/L 0.000042 -0.00017 mg/L 0.000042 25.07%
QC value within limits for V Recovery = Not calculated
Zn† -141.0 -0.00300 mg/L 0.000326 -0.00300 mg/L 0.000326 10.85%
QC value within limits for Zn Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 92
Sample ID: 2802050696_10X
Analyst:
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 93
Date Collected: 2/12/2008 00:45:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2802050696_10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	459441.9	91.6	%	0.67				0.73%
Yr	242703.6	96.9	%	0.63				0.65%
Agt	94.0	0.00031	mg/L	0.000092	0.00313	mg/L	0.000922	29.48%
Alt	5.0	0.00114	mg/L	0.011107	0.0114	mg/L	0.11107	978.59%
B_t	11857.6	0.365	mg/L	0.0006	3.65	mg/L	0.006	0.16%
Bat	194.7	0.00263	mg/L	0.000053	0.0263	mg/L	0.00053	2.00%
Bet	-549.4	-0.00018	mg/L	0.000038	-0.00177	mg/L	0.000379	21.45%
Cat	271371.0	45.0	mg/L	0.07	450	mg/L	0.7	0.14%
Cdt	-7.0	-0.00025	mg/L	0.000338	-0.00252	mg/L	0.003383	134.33%
Cot	41.1	0.00157	mg/L	0.000375	0.0157	mg/L	0.00375	23.86%
Crt	72.3	0.00090	mg/L	0.000172	0.00897	mg/L	0.001718	19.15%
Cut	-368.3	-0.00089	mg/L	0.000050	-0.00886	mg/L	0.000504	5.69%
Fet	18.8	0.0228	mg/L	0.00162	0.228	mg/L	0.0162	7.11%
Kt	3567.2	2.85	mg/L	0.071	28.5	mg/L	0.71	2.48%
Mgt	48850.5	20.4	mg/L	0.31	204	mg/L	3.1	1.51%
Mnt	64332.2	0.112	mg/L	0.0006	1.12	mg/L	0.006	0.56%
Mot	733.1	0.0590	mg/L	0.00096	0.590	mg/L	0.0096	1.63%
Nat	699620.5	144	mg/L	0.5	1440	mg/L	5.1	0.36%
Nit	116.2	0.00519	mg/L	0.000272	0.0519	mg/L	0.00272	5.24%
Pbt	-23.5	-0.00492	mg/L	0.000250	-0.0492	mg/L	0.00250	5.08%
Vt	889.1	0.00498	mg/L	0.000092	0.0498	mg/L	0.00092	1.84%
Znt	-74.4	-0.00162	mg/L	0.000173	-0.0162	mg/L	0.00173	10.67%

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

Autosampler Location: 4
Date Collected: 2/12/2008 00:49:58
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	451218.3	89.9	%	0.59				0.65%
Yr	236360.2	94.3	%	0.03				0.03%
Agt	307727.2	1.02	mg/L	0.006	1.02	mg/L	0.006	0.61%
QC value within limits for Ag		Recovery = 102.37%						
Alt	22960.1	5.25	mg/L	0.024	5.25	mg/L	0.024	0.45%
QC value within limits for Al		Recovery = 105.06%						
B_t	85624.5	2.63	mg/L	0.019	2.63	mg/L	0.019	0.71%
QC value within limits for B_		Recovery = 105.02%						
Bat	394304.9	5.33	mg/L	0.048	5.33	mg/L	0.048	0.90%
QC value within limits for Ba		Recovery = 106.59%						
Bet	6657479.5	2.14	mg/L	0.005	2.14	mg/L	0.005	0.24%
QC value within limits for Be		Recovery = 107.08%						
Cat	310456.5	51.5	mg/L	0.02	51.5	mg/L	0.02	0.04%
QC value within limits for Ca		Recovery = 103.07%						
Cdt	57840.1	2.14	mg/L	0.016	2.14	mg/L	0.016	0.74%
QC value within limits for Cd		Recovery = 106.87%						
Cot	140420.1	5.37	mg/L	0.043	5.37	mg/L	0.043	0.80%
QC value within limits for Co		Recovery = 107.37%						
Crt	429493.3	5.33	mg/L	0.049	5.33	mg/L	0.049	0.92%
QC value within limits for Cr		Recovery = 106.59%						
Cut	2170139.4	5.24	mg/L	0.006	5.24	mg/L	0.006	0.11%
QC value within limits for Cu		Recovery = 104.72%						
Fet	4364.8	5.30	mg/L	0.051	5.30	mg/L	0.051	0.95%
QC value within limits for Fe		Recovery = 105.93%						
Kt	63378.0	50.6	mg/L	0.60	50.6	mg/L	0.60	1.19%
QC value within limits for K		Recovery = 101.26%						
Mgt	123137.1	51.4	mg/L	0.12	51.4	mg/L	0.12	0.24%
QC value within limits for Mg		Recovery = 102.78%						
Mnt	3089986.4	5.36	mg/L	0.021	5.36	mg/L	0.021	0.39%
QC value within limits for Mn		Recovery = 107.21%						
Mot	65227.1	5.25	mg/L	0.043	5.25	mg/L	0.043	0.81%
QC value within limits for Mo		Recovery = 104.98%						
Nat	241398.7	49.7	mg/L	0.41	49.7	mg/L	0.41	0.83%
QC value within limits for Na		Recovery = 99.41%						
Nit	120768.1	5.39	mg/L	0.043	5.39	mg/L	0.043	0.79%
QC value within limits for Ni		Recovery = 107.82%						
Pbt	25718.9	5.39	mg/L	0.044	5.39	mg/L	0.044	0.82%
QC value within limits for Pb		Recovery = 107.77%						
Vt	929696.0	5.23	mg/L	0.009	5.23	mg/L	0.009	0.18%
QC value within limits for V		Recovery = 104.66%						
Znt	255758.6	5.42	mg/L	0.039	5.42	mg/L	0.039	0.72%
QC value within limits for Zn		Recovery = 108.31%						

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 2/12/2008 00:53:11
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	488067.5	97.3	%	0.64				0.66%
Yr	244802.4	97.7	%	0.34				0.35%
Ag†	12.5	0.00004	mg/L	0.000278	0.00004	mg/L	0.000278	668.94%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-11.2	-0.00257	mg/L	0.006199	-0.00257	mg/L	0.006199	240.98%
QC value within limits for Al	Recovery = Not calculated							
B_†	720.3	0.0222	mg/L	0.00076	0.0222	mg/L	0.00076	3.43%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-32.2	-0.00044	mg/L	0.000023	-0.00044	mg/L	0.000023	5.28%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-117.7	-0.00004	mg/L	0.000013	-0.00004	mg/L	0.000013	34.26%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-77.1	-0.0128	mg/L	0.00315	-0.0128	mg/L	0.00315	24.61%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-1.3	-0.00005	mg/L	0.000037	-0.00005	mg/L	0.000037	75.74%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-8.8	-0.00034	mg/L	0.000017	-0.00034	mg/L	0.000017	4.92%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-4.0	-0.00005	mg/L	0.000128	-0.00005	mg/L	0.000128	254.67%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-487.6	-0.00118	mg/L	0.000057	-0.00118	mg/L	0.000057	4.83%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	2.3	0.00277	mg/L	0.000900	0.00277	mg/L	0.000900	32.44%
QC value within limits for Fe	Recovery = Not calculated							
K†	-41.1	-0.0328	mg/L	0.00187	-0.0328	mg/L	0.00187	5.69%
QC value within limits for K	Recovery = Not calculated							
Mg†	-56.2	-0.0234	mg/L	0.00067	-0.0234	mg/L	0.00067	2.88%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-273.1	-0.00047	mg/L	0.000002	-0.00047	mg/L	0.000002	0.37%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	18.5	0.00149	mg/L	0.000260	0.00149	mg/L	0.000260	17.47%
QC value within limits for Mo	Recovery = Not calculated							
Na†	29.1	0.00598	mg/L	0.005388	0.00598	mg/L	0.005388	90.04%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-2.7	-0.00012	mg/L	0.000228	-0.00012	mg/L	0.000228	189.68%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-9.0	-0.00189	mg/L	0.000581	-0.00189	mg/L	0.000581	30.78%
QC value within limits for Pb	Recovery = Not calculated							
V†	-36.0	-0.00020	mg/L	0.000112	-0.00020	mg/L	0.000112	55.52%
QC value within limits for V	Recovery = Not calculated							
Zn†	-145.8	-0.00311	mg/L	0.000198	-0.00311	mg/L	0.000198	6.38%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

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

Autosampler Location: 0
Date Collected: 2/12/2008 00:55:44
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	492352.4	98.1	%	1.35				1.38%
Yr	248082.7	99.0	%	1.16				1.17%
Ag†	24.9	0.00008	mg/L	0.000323	0.00008	mg/L	0.000323	389.77%
QC value within limits for Ag	Recovery = Not calculated							
Al†	5.2	0.00118	mg/L	0.001950	0.00118	mg/L	0.001950	165.00%

QC value within limits for Al Recovery = Not calculated

B_†	531.7	0.0164 mg/L	0.00028	0.0164 mg/L	0.00028	1.69%

QC value within limits for B_ Recovery = Not calculated

Ba†	-24.8	-0.00034 mg/L	0.000000	-0.00034 mg/L	0.000000	0.12%

QC value within limits for Ba Recovery = Not calculated

Be†	-120.8	-0.00004 mg/L	0.000039	-0.00004 mg/L	0.000039	99.76%

QC value within limits for Be Recovery = Not calculated

Ca†	-85.0	-0.0141 mg/L	0.00039	-0.0141 mg/L	0.00039	2.74%

QC value within limits for Ca Recovery = Not calculated

Cd†	2.2	0.00008 mg/L	0.000108	0.00008 mg/L	0.000108	134.48%

QC value within limits for Cd Recovery = Not calculated

Co†	-6.1	-0.00023 mg/L	0.000023	-0.00023 mg/L	0.000023	9.67%

QC value within limits for Co Recovery = Not calculated

Cr†	-0.7	-0.00001 mg/L	0.000034	-0.00001 mg/L	0.000034	410.15%

QC value within limits for Cr Recovery = Not calculated

Cu†	-560.6	-0.00135 mg/L	0.000034	-0.00135 mg/L	0.000034	2.52%

QC value within limits for Cu Recovery = Not calculated

Fe†	-0.3	-0.00040 mg/L	0.000912	-0.00040 mg/L	0.000912	225.35%

QC value within limits for Fe Recovery = Not calculated

K†	-23.0	-0.0184 mg/L	0.02958	-0.0184 mg/L	0.02958	161.02%

QC value within limits for K Recovery = Not calculated

Mg†	-57.5	-0.0240 mg/L	0.00210	-0.0240 mg/L	0.00210	8.74%

QC value within limits for Mg Recovery = Not calculated

Mn†	-245.9	-0.00043 mg/L	0.000099	-0.00043 mg/L	0.000099	23.09%

QC value within limits for Mn Recovery = Not calculated

Mo†	7.0	0.00056 mg/L	0.000010	0.00056 mg/L	0.000010	1.84%

QC value within limits for Mo Recovery = Not calculated

Na†	44.1	0.00908 mg/L	0.007344	0.00908 mg/L	0.007344	80.89%

QC value within limits for Na Recovery = Not calculated

Ni†	-2.7	-0.00012 mg/L	0.000287	-0.00012 mg/L	0.000287	241.44%

QC value within limits for Ni Recovery = Not calculated

Pb†	-10.8	-0.00225 mg/L	0.000881	-0.00225 mg/L	0.000881	39.07%

QC value within limits for Pb Recovery = Not calculated

V†	-20.4	-0.00011 mg/L	0.000043	-0.00011 mg/L	0.000043	37.71%

QC value within limits for V Recovery = Not calculated

Zn†	-142.9	-0.00305 mg/L	0.000089	-0.00305 mg/L	0.000089	2.92%

QC value within limits for Zn Recovery = Not calculated

All analyte(s) passed QC.

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

Autosampler Location: 5
Date Collected: 2/12/2008 00:59:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	470971.4	93.9	%	0.07				0.08%
Yr	240161.4	95.8	%	0.50				0.52%
Ag†	144961.2	0.482	mg/L	0.0022	0.482	mg/L	0.0022	0.46%
QC value within limits for Ag		Recovery = 96.45%						
Al†	11384.9	2.60	mg/L	0.025	2.60	mg/L	0.025	0.95%
QC value within limits for Al		Recovery = 104.19%						
B_†	41915.9	1.29	mg/L	0.013	1.29	mg/L	0.013	1.01%
QC value within limits for B_		Recovery = 102.82%						
Ba†	194705.0	2.63	mg/L	0.007	2.63	mg/L	0.007	0.28%
QC value within limits for Ba		Recovery = 105.26%						
Be†	3307689.3	1.06	mg/L	0.005	1.06	mg/L	0.005	0.51%
QC value within limits for Be		Recovery = 106.40%						
Ca†	155635.6	25.8	mg/L	0.11	25.8	mg/L	0.11	0.41%
QC value within limits for Ca		Recovery = 103.34%						
Cd†	28322.2	1.05	mg/L	0.003	1.05	mg/L	0.003	0.25%
QC value within limits for Cd		Recovery = 104.67%						
Co†	69565.3	2.66	mg/L	0.021	2.66	mg/L	0.021	0.79%
QC value within limits for Co		Recovery = 106.39%						
Cr†	209067.9	2.59	mg/L	0.011	2.59	mg/L	0.011	0.41%
QC value within limits for Cr		Recovery = 103.77%						
Cu†	1073413.7	2.59	mg/L	0.000	2.59	mg/L	0.000	0.01%
QC value within limits for Cu		Recovery = 103.60%						
Fe†	2194.8	2.66	mg/L	0.016	2.66	mg/L	0.016	0.60%
QC value within limits for Fe		Recovery = 106.53%						
K†	31224.0	24.9	mg/L	0.28	24.9	mg/L	0.28	1.13%
QC value within limits for K		Recovery = 99.77%						
Mg†	62172.9	25.9	mg/L	0.00	25.9	mg/L	0.00	0.01%
QC value within limits for Mg		Recovery = 103.79%						
Mn†	1550299.1	2.69	mg/L	0.005	2.69	mg/L	0.005	0.19%
QC value within limits for Mn		Recovery = 107.58%						
Mo†	32088.1	2.58	mg/L	0.024	2.58	mg/L	0.024	0.95%
QC value within limits for Mo		Recovery = 103.29%						
Na†	120136.2	24.7	mg/L	0.10	24.7	mg/L	0.10	0.39%
QC value within limits for Na		Recovery = 98.94%						
Ni†	60157.5	2.69	mg/L	0.022	2.69	mg/L	0.022	0.83%
QC value within limits for Ni		Recovery = 107.42%						
Pb†	12780.1	2.68	mg/L	0.005	2.68	mg/L	0.005	0.20%
QC value within limits for Pb		Recovery = 107.11%						
V†	459081.8	2.58	mg/L	0.009	2.58	mg/L	0.009	0.36%
QC value within limits for V		Recovery = 103.35%						
Zn†	126648.5	2.68	mg/L	0.019	2.68	mg/L	0.019	0.71%
QC value within limits for Zn		Recovery = 107.26%						

All analyte(s) passed QC.

Sequence No.: 98
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/12/2008 01:07:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ECV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	454192.4	90.5	%	0.31				0.35%
Yr	239197.3	95.5	%	0.21				0.22%
Ag†	305132.4	1.02	mg/L	0.005	1.02	mg/L	0.005	0.48%
QC value within limits for Ag		Recovery = 101.51%						
Al†	22737.1	5.20	mg/L	0.066	5.20	mg/L	0.066	1.26%
QC value within limits for Al		Recovery = 104.04%						
B_†	85227.0	2.61	mg/L	0.006	2.61	mg/L	0.006	0.25%
QC value within limits for B_		Recovery = 104.54%						
Ba†	389309.3	5.26	mg/L	0.015	5.26	mg/L	0.015	0.29%
QC value within limits for Ba		Recovery = 105.23%						
Be†	6705404.5	2.16	mg/L	0.005	2.16	mg/L	0.005	0.22%
QC value within limits for Be		Recovery = 107.85%						
Ca†	310120.0	51.5	mg/L	0.20	51.5	mg/L	0.20	0.39%
QC value within limits for Ca		Recovery = 102.95%						
Cd†	57230.7	2.11	mg/L	0.002	2.11	mg/L	0.002	0.09%
QC value within limits for Cd		Recovery = 105.74%						
Co†	138642.8	5.30	mg/L	0.013	5.30	mg/L	0.013	0.24%
QC value within limits for Co		Recovery = 106.01%						
Cr†	424510.9	5.27	mg/L	0.011	5.27	mg/L	0.011	0.20%
QC value within limits for Cr		Recovery = 105.35%						
Cu†	2160667.5	5.21	mg/L	0.046	5.21	mg/L	0.046	0.87%
QC value within limits for Cu		Recovery = 104.27%						
Fe†	4306.6	5.23	mg/L	0.020	5.23	mg/L	0.020	0.37%
QC value within limits for Fe		Recovery = 104.51%						
K†	63401.3	50.6	mg/L	0.48	50.6	mg/L	0.48	0.95%
QC value within limits for K		Recovery = 101.29%						
Mg†	123184.7	51.4	mg/L	0.45	51.4	mg/L	0.45	0.87%
QC value within limits for Mg		Recovery = 102.82%						
Mn†	3074360.2	5.33	mg/L	0.046	5.33	mg/L	0.046	0.85%
QC value within limits for Mn		Recovery = 106.67%						
Mo†	64609.2	5.20	mg/L	0.011	5.20	mg/L	0.011	0.21%
QC value within limits for Mo		Recovery = 103.98%						
Na†	241558.3	49.7	mg/L	0.32	49.7	mg/L	0.32	0.64%
QC value within limits for Na		Recovery = 99.47%						
Ni†	119543.1	5.34	mg/L	0.002	5.34	mg/L	0.002	0.04%
QC value within limits for Ni		Recovery = 106.73%						
Pb†	25404.5	5.32	mg/L	0.005	5.32	mg/L	0.005	0.10%
QC value within limits for Pb		Recovery = 106.46%						
V†	926509.4	5.21	mg/L	0.044	5.21	mg/L	0.044	0.85%
QC value within limits for V		Recovery = 104.30%						
Zn†	253106.6	5.36	mg/L	0.012	5.36	mg/L	0.012	0.23%
QC value within limits for Zn		Recovery = 107.18%						

All analyte(s) passed QC.

Sequence No.: 99 **Autosampler Location: 0**
Sample ID: ECB **Date Collected: 2/12/2008 01:10:29**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	493505.1	98.4	%	0.40				0.41%
Yr	245264.5	97.9	%	0.20				0.20%
Ag†	-41.7	-0.00014	mg/L	0.000117	-0.00014	mg/L	0.000117	83.94%
QC value within limits for Ag Recovery = Not calculated								
Al†	-10.9	-0.00248	mg/L	0.011456	-0.00248	mg/L	0.011456	461.34%
QC value within limits for Al Recovery = Not calculated								
B_†	926.4	0.0285	mg/L	0.00091	0.0285	mg/L	0.00091	3.19%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-25.2	-0.00034	mg/L	0.000126	-0.00034	mg/L	0.000126	36.93%
QC value within limits for Ba Recovery = Not calculated								
Be†	-187.1	-0.00006	mg/L	0.000010	-0.00006	mg/L	0.000010	16.74%
QC value within limits for Be Recovery = Not calculated								
Ca†	-80.0	-0.0133	mg/L	0.00057	-0.0133	mg/L	0.00057	4.31%
QC value within limits for Ca Recovery = Not calculated								
Cd†	-4.1	-0.00015	mg/L	0.000039	-0.00015	mg/L	0.000039	25.25%
QC value within limits for Cd Recovery = Not calculated								
Co†	-13.7	-0.00052	mg/L	0.000008	-0.00052	mg/L	0.000008	1.58%
QC value within limits for Co Recovery = Not calculated								
Cr†	7.4	0.00009	mg/L	0.000004	0.00009	mg/L	0.000004	3.87%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-525.7	-0.00127	mg/L	0.000141	-0.00127	mg/L	0.000141	11.13%
QC value within limits for Cu Recovery = Not calculated								
Fe†	1.7	0.00200	mg/L	0.001667	0.00200	mg/L	0.001667	83.21%
QC value within limits for Fe Recovery = Not calculated								
K†	29.9	0.0239	mg/L	0.05616	0.0239	mg/L	0.05616	234.75%
QC value within limits for K Recovery = Not calculated								
Mg†	-58.3	-0.0243	mg/L	0.00222	-0.0243	mg/L	0.00222	9.12%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-234.5	-0.00041	mg/L	0.000023	-0.00041	mg/L	0.000023	5.64%
QC value within limits for Mn Recovery = Not calculated								
Mo†	22.6	0.00182	mg/L	0.000294	0.00182	mg/L	0.000294	16.20%
QC value within limits for Mo Recovery = Not calculated								
Na†	134.0	0.0276	mg/L	0.00295	0.0276	mg/L	0.00295	10.69%
QC value within limits for Na Recovery = Not calculated								
Ni†	-5.4	-0.00024	mg/L	0.000054	-0.00024	mg/L	0.000054	22.40%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-7.5	-0.00157	mg/L	0.000436	-0.00157	mg/L	0.000436	27.82%
QC value within limits for Pb Recovery = Not calculated								
V†	-10.4	-0.00006	mg/L	0.000012	-0.00006	mg/L	0.000012	20.36%
QC value within limits for V Recovery = Not calculated								
Zn†	-150.7	-0.00321	mg/L	0.000020	-0.00321	mg/L	0.000020	0.62%
QC value within limits for Zn Recovery = Not calculated								
QC Failed. Retry.								

Sequence No.: 100 **Autosampler Location: 0**
Sample ID: ECB **Date Collected: 2/12/2008 01:13:02**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	489329.0	97.5	%	0.41				0.42%
Yr	247266.5	98.7	%	0.03				0.03%
Ag†	15.2	0.00005	mg/L	0.000088	0.00005	mg/L	0.000088	174.55%
QC value within limits for Ag Recovery = Not calculated								
Al†	3.2	0.00073	mg/L	0.008065	0.00073	mg/L	0.008065	>999.9%

QC value within limits for Al	Recovery = Not calculated					
B_↑	747.2	0.0230 mg/L	0.00035	0.0230 mg/L	0.00035	1.50%
QC value greater than the upper limit for B_	Recovery = Not calculated					
Ba↑	-26.8	-0.00036 mg/L	0.000045	-0.00036 mg/L	0.000045	12.48%
QC value within limits for Ba	Recovery = Not calculated					
Be↑	-141.8	-0.00005 mg/L	0.000006	-0.00005 mg/L	0.000006	12.84%
QC value within limits for Be	Recovery = Not calculated					
Ca↑	-83.6	-0.0139 mg/L	0.00194	-0.0139 mg/L	0.00194	13.98%
QC value within limits for Ca	Recovery = Not calculated					
Cd↑	-0.8	-0.00003 mg/L	0.000015	-0.00003 mg/L	0.000015	50.74%
QC value within limits for Cd	Recovery = Not calculated					
Co↑	-4.7	-0.00018 mg/L	0.000013	-0.00018 mg/L	0.000013	7.22%
QC value within limits for Co	Recovery = Not calculated					
Cr↑	6.7	0.00008 mg/L	0.000038	0.00008 mg/L	0.000038	45.08%
QC value within limits for Cr	Recovery = Not calculated					
Cu↑	-536.7	-0.00129 mg/L	0.000056	-0.00129 mg/L	0.000056	4.30%
QC value within limits for Cu	Recovery = Not calculated					
Fe↑	1.8	0.00217 mg/L	0.002506	0.00217 mg/L	0.002506	115.68%
QC value within limits for Fe	Recovery = Not calculated					
K↑	1.1	0.00089 mg/L	0.040151	0.00089 mg/L	0.040151	>999.9%
QC value within limits for K	Recovery = Not calculated					
Mg↑	-59.1	-0.0247 mg/L	0.00095	-0.0247 mg/L	0.00095	3.87%
QC value within limits for Mg	Recovery = Not calculated					
Mn↑	-271.5	-0.00047 mg/L	0.000010	-0.00047 mg/L	0.000010	2.09%
QC value within limits for Mn	Recovery = Not calculated					
Mo↑	9.9	0.00079 mg/L	0.000115	0.00079 mg/L	0.000115	14.54%
QC value within limits for Mo	Recovery = Not calculated					
Na↑	67.4	0.0139 mg/L	0.00032	0.0139 mg/L	0.00032	2.29%
QC value within limits for Na	Recovery = Not calculated					
Ni↑	-0.3	-0.00001 mg/L	0.000266	-0.00001 mg/L	0.000266	>999.9%
QC value within limits for Ni	Recovery = Not calculated					
Pb↑	-5.9	-0.00123 mg/L	0.000371	-0.00123 mg/L	0.000371	30.28%
QC value within limits for Pb	Recovery = Not calculated					
V↑	-54.5	-0.00030 mg/L	0.000212	-0.00030 mg/L	0.000212	69.58%
QC value within limits for V	Recovery = Not calculated					
Zn↑	-155.0	-0.00330 mg/L	0.000054	-0.00330 mg/L	0.000054	1.63%
QC value within limits for Zn	Recovery = Not calculated					
QC Failed. Retry.						

Sequence No.: 101 **Autosampler Location: 0**
Sample ID: ECB **Date Collected: 2/12/2008 01:15:35**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	490641.0	97.8	%	0.74				0.76%
Yr	243406.5	97.1	%	0.37				0.38%
Ag↑	3.0	0.00001	mg/L	0.000003	0.00001	mg/L	0.000003	25.65%
QC value within limits for Ag	Recovery = Not calculated							
Al↑	7.1	0.00164	mg/L	0.005225	0.00164	mg/L	0.005225	319.42%
QC value within limits for Al	Recovery = Not calculated							
B_↑	663.7	0.0204	mg/L	0.00000	0.0204	mg/L	0.00000	0.02%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba↑	-27.1	-0.00037	mg/L	0.000077	-0.00037	mg/L	0.000077	20.95%
QC value within limits for Ba	Recovery = Not calculated							
Be↑	-95.3	-0.00003	mg/L	0.000002	-0.00003	mg/L	0.000002	5.41%
QC value within limits for Be	Recovery = Not calculated							
Ca↑	-80.3	-0.0133	mg/L	0.00054	-0.0133	mg/L	0.00054	4.05%
QC value within limits for Ca	Recovery = Not calculated							
Cd↑	-0.7	-0.00003	mg/L	0.000187	-0.00003	mg/L	0.000187	702.75%
QC value within limits for Cd	Recovery = Not calculated							
Co↑	-8.6	-0.00033	mg/L	0.000151	-0.00033	mg/L	0.000151	45.64%
QC value within limits for Co	Recovery = Not calculated							
Cr↑	-1.9	-0.00002	mg/L	0.000024	-0.00002	mg/L	0.000024	99.59%
QC value within limits for Cr	Recovery = Not calculated							
Cu↑	-603.1	-0.00145	mg/L	0.000013	-0.00145	mg/L	0.000013	0.89%
QC value within limits for Cu	Recovery = Not calculated							

Fe†	-0.7	-0.00091 mg/L	0.001831	-0.00091 mg/L	0.001831	202.23%
QC value within limits for Fe Recovery = Not calculated						
K†	-46.7	-0.0373 mg/L	0.01450	-0.0373 mg/L	0.01450	38.90%
QC value within limits for K Recovery = Not calculated						
Mg†	-57.9	-0.0242 mg/L	0.00037	-0.0242 mg/L	0.00037	1.52%
QC value within limits for Mg Recovery = Not calculated						
Mn†	-278.8	-0.00048 mg/L	0.000008	-0.00048 mg/L	0.000008	1.62%
QC value within limits for Mn Recovery = Not calculated						
Mo†	6.8	0.00055 mg/L	0.000227	0.00055 mg/L	0.000227	41.33%
QC value within limits for Mo Recovery = Not calculated						
Na†	42.1	0.00866 mg/L	0.011496	0.00866 mg/L	0.011496	132.75%
QC value within limits for Na Recovery = Not calculated						
Ni†	-8.0	-0.00036 mg/L	0.000100	-0.00036 mg/L	0.000100	28.16%
QC value within limits for Ni Recovery = Not calculated						
Pb†	-13.4	-0.00281 mg/L	0.000608	-0.00281 mg/L	0.000608	21.65%
QC value within limits for Pb Recovery = Not calculated						
V†	-17.9	-0.00010 mg/L	0.000035	-0.00010 mg/L	0.000035	34.56%
QC value within limits for V Recovery = Not calculated						
Zn†	-152.2	-0.00324 mg/L	0.000077	-0.00324 mg/L	0.000077	2.36%
QC value within limits for Zn Recovery = Not calculated						

QC Failed. Continue with analysis.

Analytical Sequence
Method: 200.7&6010_070703

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	
2	15	Standard 2	
3	15	ICV	
4	9	LINEARITY	
5	10	ICSA	
6	11	ICSAB	
7	0	Wash	
8	12	QC-25 1ppm	QC Passed
9	4	CCV	QC Passed
10	0	ICB	QC Failed
11	0	ICB	QC Passed
12	20	MRL	QC Passed
13	16	MRL/2	Analyzed
14	17	MRL/5	Analyzed
15	18	FILTERCHECK	Analyzed
16	38	MBLANK	Analyzed
17	39	LCS	Analyzed
18	40	LCSD	Analyzed
19	41	2802010008	Analyzed
20	42	2802010008MS	Analyzed
21	43	2802010008MSD	Analyzed
22	44	2802050265_2X	Analyzed
23	4	CCV	QC Passed
24	0	CCB	QC Failed
25	0	CCB	QC Failed
26	0	CCB	QC Failed
27	45	2802050757	Analyzed
28	46	2801300506	Analyzed
29	47	2801300508	Analyzed
30	48	2801300509	Analyzed
31	49	2801300512_2X	Analyzed
32	50	2801300515	Analyzed
33	51	2801300516	Analyzed
34	52	2802050266	Analyzed
35	53	2802050560	Analyzed
36	54	2802050560MS	Analyzed
37	4	CCV	QC Passed
38	0	CCB	QC Failed
39	0	CCB	QC Failed
40	0	CCB	QC Failed
41	5	MCV	QC Passed
42	55	2802050560MSD	Analyzed
43	56	2802050267	Analyzed
44	57	2802050658	Analyzed
45	58	2802050386	Analyzed
46	59	2802050566	Analyzed
47	60	2802050567	Analyzed
48	61	2802050700	Analyzed
49	62	2802050291	Analyzed
50	63	2802050694	Analyzed
51	64	2802050699	Analyzed
52	4	CCV	QC Passed
53	0	CCB	QC Failed
54	0	CCB	QC Failed
55	0	CCB	QC Passed
56	65	MBLANK	Analyzed
57	21	MRL	Analyzed
58	66	LCS	Analyzed
59	67	LCSD	Analyzed
60	68	2802080108	Analyzed
61	69	2802080108MS	Analyzed
62	70	2802080108MSD	Analyzed
63	71	2802080111	Analyzed
64	72	2802080112	Analyzed
65	73	2802080113	Analyzed
66	4	CCV	QC Passed
67	0	CCB	QC Failed

68	0	CCB	QC Passed
69	5	MCV	QC Passed
70	74	2802080114	Analyzed
71	75	2802080115	Analyzed
72	76	2802080116	Analyzed
73	77	2802080117	Analyzed
74	78	2802080118	Analyzed
75	79	2802080119	Analyzed
76	80	2801150171	Analyzed
77	81	2801150171MS	Analyzed
78	82	2801150171MSD	Analyzed
79	83	2802060676	Analyzed
80	4	CCV	QC Passed
81	0	CCB	QC Failed
82	0	CCB	QC Passed
83	84	2802060679	Analyzed
84	85	D801300513_2X	Analyzed
85	86	2802050238	Analyzed
86	87	2802050246	Analyzed
87	88	2802050247	Analyzed
88	89	2802070100	Analyzed
89	90	2802070104	Analyzed
90	91	2802070106	Analyzed
91	92	2802060371_2X	Analyzed
92	93	2802050696_10X	Analyzed
93	4	CCV	QC Passed
94	0	CCB	QC Failed
95	0	CCB	QC Passed
96	5	MCV	QC Passed
97	94	2802060371	Analyzed
98	4	ECV	QC Passed
99	0	ECB	QC Failed
100	0	ECB	QC Failed
101	0	ECB	QC Failed

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

dilution should be 1:20 and 1:40 not 1:200 and 1:400. 1/10/2006.

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

dilution should be 1:20 and 1:40 not 1:200 and 1:400. 1/10/2006.

Intial: wbh
Date: 4/1/08

METALS STANDARD DOCUMENTATION

Standard: ICP Calibration STD
Date Received/Prepped: Prep Daily
Date Expired: 12/1/2008
Manufacturer: MWH-wbh
Matrix: 2% HNO3 + 5% HCl
Amount:

ME #: 0801001
By: wbh
Lot #:
Certificate: NO
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
Mo	1:10 ME0712002	10 ug/ml
Sb		10 ug/ml
Sn		10 ug/ml
Ti		10 ug/ml
B		5 ug/ml
Ca	1:10 ME0712001	100 ug/ml
K		100 ug/ml
Mg		100 ug/ml
Na		100 ug/ml
Al		10 ug/ml
As		10 ug/ml
Ba		10 ug/ml
Co		10 ug/ml
Cr		10 ug/ml
Cu		10 ug/ml
Fe		10 ug/ml
Mn		10 ug/ml
Ni		10 ug/ml
Pb		10 ug/ml
Se		10 ug/ml
Tl		10 ug/ml
V		10 ug/ml
Zn		10 ug/ml
Cd		5 ug/ml
Be		4 ug/ml
SR		3 ug/ml
Ag		2 ug/ml

Intial: STE
Date: 10/01/07

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™

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** Custom Solution

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB243151**

Matrix: 5% HNO3(abs)

ME 0712 001

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)

Intial: STE
Date: 12/6/08

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

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

ME 0712 G62

Catalog No.: MWH-ICAP-CAL-2

Lot Number: **A2-MEB243152**

Matrix: tr. HF, 5% HNO3(abs)

100.00 µg/mL ea:
Mo, Sb, Sn, Ti,

50.00 µg/mL ea:
B

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	100.4 ± 0.3 µg/mL	Boron, B	49.85 ± 0.20 µg/mL	Molybdenum, Mo	100.2 ± 0.3 µg/mL
Tin, Sn	100.2 ± 0.3 µg/mL	Titanium, Ti	100.4 ± 0.2 µg/mL		

Certified Density: 1.037 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.

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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Innovative Solutions in Analytical Science and Technology

Expiry: 4/17/2009

Certificate of Analysis

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

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: WBh
Date: 4/10/08

METALS STANDARD DOCUMENTATION

Standard: ICP MCV Working Standard
Date Received/Prepped: Daily
Date Expired: 4/17/2009
Manufacturer: CPI
Matrix: 2%HNO3 + 5% HCL
Amount: 100 mL

ME #: 0801003
By: Wbh
Lot #:
Certificate: Y
NIST SRM: Various
Storage: Room Temp

Component	Comment	Conc.	Unit:
Ag	5ml ME0710008 / 100mL	0.5	ppm
Al		2.5	ppm
As		2.5	ppm
B		1.25	ppm
Ba		2.5	ppm
bE		1	ppm
Ca		25	ppm
Cd		1	ppm
Co		2.5	ppm
Cr		2.5	ppm
Cu		2.5	ppm
Fe		2.5	ppm
K		25	ppm
Mg		25	ppm
Mn		2.5	ppm
Mo		2.5	ppm
Na		25	ppm
Ni		2.5	ppm
Pb		2.5	ppm
Sb		2.5	ppm
Se		2.5	ppm
Tl		2.5	ppm
V		2.5	ppm
Zn		2.5	ppm
Sr		0.5	ppm
Sn		0.5	ppm
Ti		0.5	ppm

Intial: WBH
Date: 4/1/09

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/ECV Working Standard
Date Received/Prepped: Daily
Date Expired: 4/17/2009
Manufacturer: CPI
Matrix: 2%HNO3 + 5% HCL
Amount: 100 mL

ME #: 0801002
By: Wbh
Lot #:
Certificate: Y
NIST SRM: Various
Storage: Room Temp

Component	Comment	Conc.	Unit:
Ag	5ml ME0710008 / 100mL	1	ppm
Al		5	ppm
As		5	ppm
B		2.5	ppm
Ba		5	ppm
bE		2	ppm
Ca		50	ppm
Cd		2	ppm
Co		5	ppm
Cr		5	ppm
Cu		5	ppm
Fe		5	ppm
K		50	ppm
Mg		50	ppm
Mn		5	ppm
Mo		5	ppm
Na		50	ppm
Ni		5	ppm
Pb		5	ppm
Sb		5	ppm
Se		5	ppm
Tl		5	ppm
V		5	ppm
Zn		5	ppm
Sr		1	ppm
Sn		1	ppm
Ti		1	ppm

Intial: WBH
Date: 1/14/08

METALS STANDARD DOCUMENTATION

Standard: Spike and LCS std for ICP
Date Received/Prepped: prep daily
Date Expired: 7/11/2008
Manufacturer: MWH-wbh
Matrix: 2% HNO3 + 5% HCl
Amount:

ME #: 0801005
By: WBH
Lot #:
Certificate: N
NIST SRM:
Storage: Room Temp

Component	Comment	Conc.	Unit:
CA	1:200 ME0709007	50	ppm
K		20	ppm
MG		20	ppm
NA		50	ppm
Iron	1:100 ME0709009	5	mg/L
Aluminum		2	mg/L
Barium		1	mg/L
Cobalt		1	mg/L
Chromium		1	mg/L
Copper		1	mg/L
Molybdenum		1	mg/L
Strontium		1	mg/L
Titanium		1	mg/L
Vanadium		1	mg/L
Zinc		1	mg/L
Tin		0.5	mg/L
Silver		0.5	mg/L
Boron		0.5	mg/L
Manganese		0.5	mg/L
Nickel		0.5	mg/L
Antimony		0.2	mg/L
Arsenic		0.2	mg/L
Cadmium		0.2	mg/L
Lead		0.2	mg/L
Selenium		0.2	mg/L
Thallium		0.2	mg/L
Uraium		0.05	mg/L
Beryllium		0.8	mg/L
AS	1:100 ME0801004	0.8	mg/L
PB		0.8	mg/L
SE		0.8	mg/L
TL			

Intial: WBH
Date: 7/11/08

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: wbh
Date: 3/12/08

METALS STANDARD DOCUMENTATION

Standard: ICP LCS/SPIKE Solution
Date Received/Prepped: 3/12//2008
Date Expired: 8/12/2008
Manufacturer: MWH-wbh
Matrix: 2% HNO3 + 5% HCl
Amount: 100mL

ME #: 0803001
By: wbh
Lot #:
Certificate: NO
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
Ca	1:4 ME0702002	5000 ug/ml
K	1:10 ME0702005	1000 ug/ml
Mg	1:10 ME0702004	1000 ug/ml
Na	1:4 ME0702003	5000 ug/ml

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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Expiry: 3/11/2009

Certificate of Analysis

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

ME C7 C9 C09

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.

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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

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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: 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

4/20/2004

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:	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.

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: 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

'180702602

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
Al	7	0.1
Sb	ND	0.1
As	ND	6
Ba	1.5	0.1
Be	ND	0.1
Bi	ND	0.1
B	1.5	4
Br	ND	10
Cd	ND	0.1
Ca	X	7
Ce	ND	0.1
Cs	ND	0.1
Cr	ND	1
Co	INT	0.1

	ppb	DL
Cu	1.7	0.1
Dy	ND	0.1
Er	ND	0.1
Eu	ND	0.1
Gd	ND	0.1
Ga	ND	0.1
Ge	ND	0.1
Au	ND	0.1
Hf	ND	0.1
Ho	ND	0.1
I	0.27	0.2
Ir	ND	0.1
Fe	INT	30
La	0.41	0.1

	ppb	DL
Pb	0.23	0.1
Li	ND	0.4
Lu	ND	1
Mg	38	0.2
Mn	ND	1
Hg	ND	0.2
Mo	ND	0.1
Nd	ND	0.1
Ni	3	0.1
Nb	ND	0.1
Os	ND	0.1
Pd	ND	0.1
P	ND	10
Pt	ND	0.1

	ppb	DL
K	ND	70
Pr	ND	0.1
Re	ND	0.1
Rh	ND	0.1
Rb	ND	0.1
Ru	ND	0.1
Sm	ND	0.1
Se	ND	6
Si	47	8
Ag	ND	0.1
Na	11.6	1
Sr	55	0.1
Ta	ND	0.1
Te	ND	0.1

	ppb	DL
Tl	0.27	0.1
Th	ND	0.1
Tm	ND	0.1
Sn	ND	0.1
Ti	ND	0.1
W	ND	0.1
U	ND	0.1
V	ND	1
Yb	ND	0.1
Y	ND	0.1
Zn	3.5	2
Zr	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.

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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
Al	13.3	0.1
Sb	ND	0.1
As	ND	6
Ba	0.37	0.1
Be	0.67	0.1
Bi	0.12	0.1
B	ND	4
Br	ND	10
Cd	1.6	0.1
Ca	51	7
Ce	ND	0.1
Cs	0.24	0.1
Cr	ND	1
Co	ND	0.1

	ppb	DL
Cu	9.3	0.1
Dy	ND	0.1
Er	ND	0.1
Eu	ND	0.1
Gd	ND	0.1
Ga	ND	0.1
Ge	ND	0.1
Au	ND	0.1
Hf	ND	0.1
Ho	ND	0.1
I	0.4	0.2
Ir	ND	0.1
Fe	ND	30
La	ND	0.1

	Ppb	DL
Pb	41	0.1
Li	ND	0.4
Lu	ND	1
Mg	1.7	0.2
Mn	ND	1
Hg	0.16	0.2
Mo	0.21	0.1
Nd	ND	0.1
Ni	1.1	0.1
Nb	ND	0.1
Os	ND	0.1
Pd	ND	0.1
P	20	10
Pt	ND	0.1

	ppb	DL
K	ND	70
Pr	ND	0.1
Re	ND	0.1
Rh	ND	0.1
Rb	ND	0.1
Ru	ND	0.1
Sm	ND	0.1
Se	ND	6
Si	46	8
Ag	0.3	0.1
Na	3.3	1
Sr	ND	0.1
Ta	ND	0.1
Te	ND	0.1

	ppb	DL
Tl	X	0.1
Th	ND	0.1
Tm	ND	0.1
Sn	ND	0.1
Ti	0.45	0.1
W	ND	0.1
U	ND	0.1
V	ND	1
Yb	ND	0.1
Y	ND	0.1
Zn	14.7	2
Zr	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.

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

Initial: wjh

Date: 3/5/07

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CERTIFICATE OF ANALYSIS

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

MZ070300 I

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: 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

12707040 13

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	Se	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: 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

INORGANIC VENTURES
195 Lehigh Avenue, Suite 4
Lakewood, New Jersey 08701 USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

ph: 800 669 6799 - 732.901.1900
fax: 732.901.1903
info@inorganicventures.com

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

ME 07 09 023

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

Date: WBH 4/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Working Stock Solution	**ME #:**	0801008
Date Received/Prepped:	Daily	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	Y
5% HNO3	2% HNO3 + 5% Hcl	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Al	0.1mL ME0801007 / 10mL	0.05	ppm
Sb		0.05	ppm
As		0.1	ppm
Ba		0.02	ppm
Be		0.001	ppm
Ba		0.05	ppm
Cd		0.005	ppm
Ca		1	ppm
Cr		0.01	ppm
Co		0.05	ppm
Cu		0.01	ppm
Fe		0.02	ppm
Pb		0.02	ppm
Li		0.1	ppm
Mg		0.002	ppm
Mn		0.02	ppm
Mo		0.02	ppm
Ni		1	ppm
K		0.1	ppm
Se		0.01	ppm
Ag		1	ppm
Na		0.02	ppm
Tl		0.002	ppm
V		0.1	ppm
Zn		0.001	ppm
Ti		0.02	ppm
Sr		0.01	ppm
Sn		0.2	ppm

Date: 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: SNE
Date: 9/26/07

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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ME0709020

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.

METALS STANDARD DOCUMENTATION

Standard: INTERFERENCE CHECK STANDAI
Date Received/Prepped: 6/1/2008
Date Expired: 12/1/2008
Manufacturer: MWH-CSK
Matrix: 5% HNO3
Amount: 500ML

ME #: 0806001
By: CSK
Lot #: various
Certificate:
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
AL	P/N 4400-INTA1-500	250 ppm
CA	25ML IN 500ML	250 ppm
FE		100 ppm
MG		250 ppm
AG		
BA		
BE		
CD		
CO		
CR		
CU		
MN		
NI		
PB		
V		
ZN		

Intial: CSK
Date: 6-1-08

METALS STANDARD DOCUMENTATION

Standard: INTERFERENCE CHECK STANDAF
Date Received/Prepped: 6/1/2008
Date Expired: 12/1/2008
Manufacturer: MWH-CSK
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0806002
By: CSK
Lot #: various
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500(25ML)	250 ppm
Ca	P/N 4400-INTB1-100(2.5ML)	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
Cr3		0.25 ppm
Cu		0.5 ppm
Mn		0.25 ppm
Ni		0.25 ppm
Pb		0.25 ppm
V		0.25 ppm
Zn		0.5 ppm

Tl	
V	100 ppm
Zn	100 ppm
Si	100 ppm
	50 ppm

6/4/08

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FEB 09

ME 070 SCO

CERTIFICATE OF ANALYSIS

P/N 4400-INTB1-100

CLP Analytes B Solution
in 5% HNO_3

Lot # 07c256

Material Source: Metals and Salts
Source Purity: 99.99+%

Elements and Concentrations: µg/mL

Ag	100	Ba	50	Be	50	Cd	100
Co	50	Cr	50	Cu	50	Mn	50
Ni	100	Pb	100	V	50	Zn	100

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

Starting materials were analyzed by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against an independent source traceable to the National Institute of Standards and Technology's SRM 3100 series.

Accuracy and stability are guaranteed to within plus or minus 0.5% 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: STE
Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	CLP Interferents A Solution	**ME #:**	0708009
Date Received/Prepped:	8/27/2007	**By:**	STE
Date Expired:	2/15/2009	**Lot #:**	07E175
Manufacturer:	CPI International	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	**Storage:**	Room Temp.

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500	5000 ug/mL
Ca		5000 ug/mL
Fe		2000 ug/mL
Mg		5000 ug/mL

FEB 1 5 09

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CERTIFICATE OF ANALYSIS

P/N 4400-INTA1-500

CLP Interferents A Solution ME 07080009
in 5% HNO_3

Lot # 07E175

Material Source: Metals and Salts
Source Purity: 99.99+%

Elements and Concentrations: µg/mL

Al 5000 Ca 5000 Fe 2000 Mg 5000

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

Starting materials were analyzed by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against an independent source traceable to the National Institute of Standards and Technology's SRM 3100 series.

Accuracy and stability are guaranteed to within plus or minus 0.5% 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: 1/11/08

METALS STANDARD DOCUMENTATION

Standard: ICP 1 PPM CHECK
Date Received/Prepped 1/11/2008
Date Expired: 7/11/2008
Manufacturer: MWH-wbh
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0801010
By: Wbh
Lot #: VARIOUS
Certificate:
NIST SRM:
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

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 0708012

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. 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 Dive, Islandia, NY 11749
(516) 348-0333 - Fax (516) 348-0913

ME070[illegible]011

Intial: SE

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.

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(516) 348-0333 - Fax (516) 348-0913

Intial: STE
Date: 11/6/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped 11/6/2007
Date Expired: ~~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:	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: 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

M7070204

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.

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

Intial: UBM
Date: 2/19/07

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

M70702003

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.

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: 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

'1807022002

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: 1/26/07

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

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CERTIFICATE OF ANALYSIS

MZ07010CX

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
Al	INT	0.1
Sb	0.35	0.1
As	ND	6
Ba	ND	0.1
Be	ND	0.1
Bi	ND	0.1
B	ND	4
Br	ND	10
Cd	ND	0.1
Ca	15	7
Ce	ND	0.1
Cs	0.34	0.1
Cr	3.3	1
Co	12	0.1

	ppb	DL
Cu	6.4	0.1
Dy	ND	0.1
Er	ND	0.1
Eu	ND	0.1
Gd	ND	0.1
Ga	0.41	0.1
Ge	INT	0.1
Au	ND	0.1
Hf	ND	0.1
Ho	ND	0.1
I	0.34	0.2
Ir	ND	0.1
Fe	X	30
La	ND	0.1

	ppb	DL
Pb	ND	0.1
Li	ND	0.4
Lu	ND	1
Mg	1.3	0.2
Mn	INT	1
Hg	ND	0.2
Mo	4.9	0.1
Nd	ND	0.1
Ni	9.3	0.1
Nb	ND	0.1
Os	ND	0.1
Pd	ND	0.1
P	28	10
Pt	ND	0.1

	ppb	DL
K	ND	70
Pr	ND	0.1
Re	ND	0.1
Rh	ND	0.1
Rb	ND	0.1
Ru	ND	0.1
Sm	ND	0.1
Se	ND	6
Si	INT	8
Ag	ND	0.1
Na	8	1
Sr	ND	0.1
Ta	ND	0.1
Te	ND	0.1

	ppb	DL
Tl	0.18	0.1
Th	ND	0.1
Tm	ND	0.1
Sn	0.67	0.1
Ti	0.21	0.1
W	0.13	0.1
U	ND	0.1
V	ND	1
Yb	ND	0.1
Y	ND	0.1
Zn	8.6	2
Zr	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.

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