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Level IV Data Package

MWH Group 203332

Method: SW 846 6010B Cr

Sample No.:

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2705020862
2705020863
2705020864

EPA 200.7/6010B QC Check List

Analyst WBM Analysis Date 5/8/07 Reviewer/Date 22 May 07

Instrumnet PerKin Elmer Optima 4300DV

✓ All sample analyzed within 6 month holding time

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

Initial and closing QC
✓ ICV within +/- 5%
✓ Linearity check +/- 10%
✓ ICSAB +/- 20%
✓ 1 PPM check +/-/10%
✓ 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 +/-20%
✓ All pH of the samples are < 2

✓ No more than 20 samples per batch

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

N/A QIR needed for failed QC

✓ Special Det Code noted on the cover sheet Cr 6010

N/A R value for multi point calibration is > 0.995

✓ Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 04/23/07

Int: WBM
Date: 5/8/07

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 070508a
Date Started: 5/8/07
Analyst ID: wbh

SAMPLE ID

LINEARITY	(18:54)	Wash	(19:06)	WASH	(19:25)
2705020861	(19:42)	2705030181	(19:52)	2705020857	(20:10)
2705020858	(20:15)	2705020859	(20:19)	2705020860_5	(20:23)
2705020862	(20:28)	2705020863	(20:32)	2705020864	(20:37)
2705030127	(20:41)	2705030133	(20:45)	2705030134	(21:00)
2705030135	(21:04)	2705030175_5	(21:09)	2705030177	(21:13)
2705030178_5	(21:17)	2705030179_1	(21:22)	2705030180	(21:26)
2705030182	(21:31)	2705030183	(21:35)	2705020848	(21:54)
2705020851	(22:06)	2705020837_2	(22:18)	2705020838_1	(22:22)
2705020839_1	(22:36)	2705020840_1	(22:40)	2705020841_1	(22:45)
2705020842_1	(22:49)	2705020843_5	(22:54)	2705020844_5	(22:58)
2705020845_5	(23:02)	2705020846	(23:07)	2705020847	(23:11)
2705020849	(23:16)	2705020850	(23:27)	2705020852	(23:31)
2705020853	(23:36)	27050209854_	(23:40)	2705020855	(23:44)
2705020856	(23:49)	2705030184	(0:02)	2705040334	(0:22)
2705030203_5	(0:34)	2705030204	(0:38)	2705030205	(0:43)
2705030206	(0:47)	2705030207	(0:51)	2705030208	(1:03)
2705030211	(1:07)	2705030217	(1:11)	2705030218	(1:16)
2705030219	(1:20)	2705030220	(1:23)	2705040313	(1:27)
2705040314	(1:31)	2705040316	(1:35)	2705040327	(1:39)
2705040328	(1:53)	2705040330	(1:58)	2705040331	(2:02)
Wash	(2:14)				

COMMENT: Cr6010, ~~Fe=6~~ Fe6010, Mn6010

Analyst: WBH

Approved By: M 22 May 07

BATCH NUMBER for 070508a

5/8/07

Test Parameter:

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

Batch ID: 2705020861

2705020861	2705030181	2705020857
2705020858	2705020859	2705020860_5X
2705020862	2705020863	2705020864
2705030127	2705030133	2705030134
2705030135	2705030175_5X	2705030177
2705030178_5X	2705030179_10X	2705030180
2705030182	2705030183	

Batch ID: 2705020848

2705020848	2705020851	2705020837_20X
2705020838_10X	2705020839_10X	2705020840_10X
2705020841_10X	2705020842_10X	2705020843_5X
2705020844_5X	2705020845_5X	2705020846
2705020847	2705020849	2705020850
2705020852	2705020853	27050209854_5X
2705020855	2705020856	

Batch ID: 2705030184

2705030184	2705040334	2705030203_5X
2705030204	2705030205	2705030206
2705030207	2705030208	2705030211
2705030217	2705030218	2705030219
2705030220	2705040313	2705040314
2705040316	2705040327	2705040328
2705040330	2705040331	

File ID: 070508a

Analyst CR 5/8/07

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	5/8/07	18:51	1	9.8864	9.89	95-105	98.8%
LINEARITY	5/8/07	18:54	1	0.0018	.0018		
ICSA	5/8/07	18:58	1	-0.0006	ND	80-120	
ICSAB	5/8/07	19:02	1	.25106	.251	80-120	100%
Wash	5/8/07	19:06	1	-0.0002	ND		
QC-25 1ppm	5/8/07	19:09	1	.99868	1.0		
CCV	5/8/07	19:14	1	5.0310	5.03	90-110	100%
ICB	5/8/07	19:18	1	-0.0002	ND		
MRL	5/8/07	19:21	1	0.0095	.0095	50-150	95.3%
WASH	5/8/07	19:25	1	-0.0003	ND		
MRL6010	5/8/07	19:29	1	0.0098	.0098		
MBLANK6010	5/8/07	19:32	1	-0.0003	ND		
LCS	5/8/07	19:36	1	.98454	.985	85-115	98.4%
LCSD	5/8/07	19:39	1	.97218	.972	85-115	97.2%
2705020861	5/8/07	19:42	2	0.0003	0.0002		
2705020861MS	5/8/07	19:45	2	.94292	.943	[0.943]	~~47.1 Q~~ 94.3
2705020861MSD	5/8/07	19:48	2	.96027	.96	[0.960]	~~48.0 Q~~ 96.0
2705020861T	5/8/07	19:48	2		2.00	70 - 130	
2705030181	5/8/07	19:52	2	.34059	.340		
2705030181MS	5/8/07	19:56	2	1.3137	1.31	[0.973]	~~48.6 Q~~ 97.3
CCV	5/8/07	20:00	1	5.1709	5.17	90-110	103%
CCB	5/8/07	20:03	1	-0.0000	ND		
2705030181MSD	5/8/07	20:06	2	1.2697	1.27	[0.929]	~~46.4 Q~~ 92.9
2705030181T	5/8/07	20:06	2		2.00	70 - 130	
2705020857	5/8/07	20:10	2	0.0907	.091		
2705020858	5/8/07	20:15	2	1.0944	1.1		
2705020859	5/8/07	20:19	2	0.0812	.081		
2705020860_5X	5/8/07	20:23	5	12.122	12		
2705020862	5/8/07	20:28	2	.71508	.720		
2705020863	5/8/07	20:32	2	0.0807	.081		
2705020864	5/8/07	20:37	2	0.0319	.032		
2705030127	5/8/07	20:41	2	-0.0003	ND		
2705030133	5/8/07	20:45	2	0.0001	0.0000		
CCV	5/8/07	20:50	1	5.0941	5.09	90-110	101%
CCB	5/8/07	20:53	1	-0.0001	ND		
MCV	5/8/07	20:57	1	2.5174	2.52	90-110	100%
2705030134	5/8/07	21:00	2	0.0005	0.0005		
2705030135	5/8/07	21:04	2	0.0009	0.0009		
2705030175_5X	5/8/07	21:09	5	12.688	13		
2705030177	5/8/07	21:13	2	.39827	.4		
2705030178_5X	5/8/07	21:17	5	7.9337	7.9		
2705030179_10X	5/8/07	21:22	10	31.480	31		
2705030180	5/8/07	21:26	2	1.4359	1.4		
2705030182	5/8/07	21:31	2	4.6851	4.7		
2705030183	5/8/07	21:35	2	0.0020	.002		
MBLANK6010	5/8/07	21:39	1	0.0003	0.0003		

File ID: 070508a CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	5/8/07	21:42	1	5.0522	5.05	90-110	101%
CCB	5/8/07	21:46	1	0.0002	0.0002		
LCS	5/8/07	21:49	1	.95261	.953	85-115	95.2%
LCSD	5/8/07	21:52	1	.96334	.963	85-115	96.3%
2705020848	5/8/07	21:54	2	1.4624	1.5		
2705020848MS	5/8/07	21:58	2	2.3957	2.4	[0.933] 46.6 Q	93.2
2705020848MSD	5/8/07	22:02	2	2.3215	2.32	[0.859] 42.9 Q	85.9
2705020848T	5/8/07	22:02	2		2.00	70 - 130	
2705020851	5/8/07	22:06	2	.15137	.150		
2705020851MS	5/8/07	22:10	2	1.1115	1.11	[0.960] 48.0 Q	96.0
2705020851MSD	5/8/07	22:14	2	1.0740	1.07	[0.923] 46.1 Q	92.3
2705020851T	5/8/07	22:14	2		2.00	70 - 130	
2705020837_20X	5/8/07	22:18	20	29.332	29		
2705020838_10X	5/8/07	22:22	10	31.060	31		
CCV	5/8/07	22:26	1	5.1182	5.12	90-110	102%
CCB	5/8/07	22:29	1	0.0007	0.0007		
MCV	5/8/07	22:33	1	2.5114	2.51	90-110	100%
2705020839_10X	5/8/07	22:36	10	17.985	18		
2705020840_10X	5/8/07	22:40	10	30.056	30		
2705020841_10X	5/8/07	22:45	10	30.509	31		
2705020842_10X	5/8/07	22:49	10	26.002	26		
2705020843_5X	5/8/07	22:54	5	15.451	15		
2705020844_5X	5/8/07	22:58	5	12.856	13		
2705020845_5X	5/8/07	23:02	5	12.262	12		
2705020846	5/8/07	23:07	2	9.1094	9.1		
2705020847	5/8/07	23:11	2	4.8769	4.9		
2705020849	5/8/07	23:16	2	.67016	.670		
CCV	5/8/07	23:20	1	5.0380	5.04	90-110	100%
CCB	5/8/07	23:23	1	0.0009	0.0008		
2705020850	5/8/07	23:27	2	.37374	.370		
2705020852	5/8/07	23:31	2	.52960	.530		
2705020853	5/8/07	23:36	2	1.4930	1.5		
2705020854_5X	5/8/07	23:40	5	16.473	16		
2705020855	5/8/07	23:44	2	0.0674	.067		
2705020856	5/8/07	23:49	2	0.0443	.044		
MBLANK6010	5/8/07	23:53	1	0.0005	0.0004		
LCS	5/8/07	23:57	1	.99275	.993	85-115	99.2%
LCSD	5/9/07	0:00	1	.94615	.946	85-115	94.6%
2705030184	5/9/07	0:02	2	2.6794	2.7		
CCV	5/9/07	0:06	1	5.0435	5.04	90-110	100%
CCB	5/9/07	0:09	1	0.0005	0.0005		
MCV	5/9/07	0:13	1	2.5523	2.55	90-110	102%
2705030184MS	5/9/07	0:16	2	3.6336	3.63	[0.954] 47.7 Q	95.4
2705030184MSD	5/9/07	0:19	2	3.6551	3.66	[0.976] 48.7 Q	97.6
2705030184T	5/9/07	0:19	2		2.00	70 - 130	
2705040334	5/9/07	0:22	2	0.0628	.063		
2705040334MS	5/9/07	0:26	2	1.0150	1.02	[0.952] 47.6 Q	95.2
2705040334MSD	5/9/07	0:30	2	1.0271	1.03	[0.964] 48.2 Q	96.4
2705040334T	5/9/07	0:30	2		2.00	70 - 130	
2705030203_5X	5/9/07	0:34	5	16.887	17		

File ID: 070508a CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2705030204	5/9/07	0:38	2	6.2173	6.2		
2705030205	5/9/07	0:43	2	2.8850	2.9		
2705030206	5/9/07	0:47	2	0.0024	.0024		
2705030207	5/9/07	0:51	2	0.0034	.0034		
CCV	5/9/07	0:56	1	5.0408	5.04	90-110	100%
CCB	5/9/07	0:59	1	0.0006	0.0005		
2705030208	5/9/07	1:03	2	.86938	.870		
2705030211	5/9/07	1:07	2	0.0015	.0015		
2705030217	5/9/07	1:11	2	.10505	.110		
2705030218	5/9/07	1:16	2	.12825	.130		
2705030219	5/9/07	1:20	2	0.0003	0.0003		
2705030220	5/9/07	1:23	2	.30463	.3		
2705040313	5/9/07	1:27	2	0.0458	.046		
2705040314	5/9/07	1:31	2	0.0004	0.0003		
2705040316	5/9/07	1:35	2	.26825	.270		
2705040327	5/9/07	1:39	2	0.0046	.0046		
CCV	5/9/07	1:44	1	5.0578	5.06	90-110	101%
CCB	5/9/07	1:47	1	0.0004	0.0003		
MCV	5/9/07	1:50	1	2.4811	2.48	90-110	99.2%
2705040328	5/9/07	1:53	2	0.0044	.0044		
2705040330	5/9/07	1:58	2	0.0415	.041		
2705040331	5/9/07	2:02	2	1.1890	1.2		
ICSA	5/9/07	2:06	1	-0.0005	ND	80-120	
ICSAB	5/9/07	2:10	1	.25018	.25	80-120	100%
Wash	5/9/07	2:14	1	0.0001	0.0001		
QC-25 1ppm	5/9/07	2:19	1	1.0047	1.0		
ECV	5/9/07	2:22	1	5.0433	5.04	90-110	100%
ECB	5/9/07	2:26	1	0.0001	0.0001		
MRL	5/9/07	2:29	1	0.0102	.0102	50-150	101%

Landscape Summary File ID: 070508a Date: 5/8/07 Analyst: wbh Page: 1

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
ICV	18:51	N/A	N/A	1.98/2	9.51/10	9.86/10	4.97	9.93/10	3.96/4	99.6/100	4.87/5	9.92
LINEARITY	18:54	N/A	N/A	-.028	-.000	-.078	0.023	0.001	-.000	294/300	0.000	0.002
ICSA	18:58	N/A	N/A	-.029	249/250	-.214	0.080	0.002	-.000	255/250	0.002	0.001
ICSAB	19:02	N/A	N/A	0.181	248/250	-.215	0.074	0.263/.25	0.253/.25	253/250	0.506/.5	0.244/.25
Wash	19:06	N/A	N/A	-.0000	0.0342	0.0025	0.0093	-.0000	0.0001	0.0244	-.0001	-.0001
QC-25 1ppm	19:09	N/A	N/A	0.9550	0.9664	0.9757	0.9114	1.033	0.9672	1.032	0.9544	1.030
CCV	19:14	N/A	N/A	0.998/1	4.82/5	4.92/5	2.46	5.08/5	2.05/2	51.2/50	2.48/2.5	5.07
ICB	19:18	N/A	N/A	-.0001	0.0051	0.0173	0.0183	0.0001	0.0001	0.0001	0.0000	-.0001
MRL	19:21	N/A	N/A	0.010/.01	0.042/.05	0.101/.1	0.058	0.020/.02	0.001/.001	1.00/1	0.005/.005	0.049/.05
WASH	19:25	N/A	N/A	-.0001	-.0020	0.0051	0.0101	0.0000	0.0001	-.0023	-.0001	0.0000
MRL6010	19:29	N/A	N/A	0.009/.01	0.054/.05	0.100/.1	0.054	0.020/.02	0.001/.001	1.04/1	0.005/.005	0.051/.05
MBLANK6010	19:32	N/A	N/A	-.0002	-.0043	0.0035	0.0079	0.0001	0.0001	0.0318	-.0002	0.0000
LCS	19:36	N/A	N/A	N/A	N/A	N/A	N/A	0.978/1	0.051/.05	49.3/50	0.210/.2	0.998/1
LCSD	19:39	N/A	N/A	N/A	N/A	N/A	N/A	0.983/1	0.051/.05	50.2/50	0.212/.2	1.00/1
2705020861	19:42	N/A	N/A	N/A	N/A	N/A	N/A	0.0005	0.0002	0.3480	-.0001	-.0001
2705020861MS	19:45	N/A	N/A	N/A	N/A	N/A	N/A	0.9536	0.0489	47.58	0.2018	0.9690
2705020861MSD	19:48	N/A	N/A	N/A	N/A	N/A	N/A	0.9659	0.0498	48.20	0.2043	0.9804
2705030181	19:52	N/A	N/A	N/A	N/A	N/A	N/A	0.0279	-.0006	238.6	0.0022	0.0059
2705030181MS	19:56	N/A	N/A	N/A	N/A	N/A	N/A	1.018	0.0509	283.8	0.2209	1.009
CCV	20:00	N/A	N/A	N/A	N/A	N/A	N/A	5.15/5	2.08/2	51.5/50	2.59/2.5	5.14
CCB	20:03	N/A	N/A	N/A	N/A	N/A	N/A	-.0000	0.0001	-.0001	0.0001	-.0001
2705030181MSD	20:06	N/A	N/A	N/A	N/A	N/A	N/A	0.9967	0.0490	275.6	0.2164	0.9864
2705020857	20:10	N/A	N/A	N/A	N/A	N/A	N/A	0.0158	-.0005	246.1	0.0019	-.0004
2705020858	20:15	N/A	N/A	N/A	N/A	N/A	N/A	0.0315	-.0008	346.4	0.0007	-.0007
2705020859	20:19	N/A	N/A	N/A	N/A	N/A	N/A	0.0246	-.0001	215.4	0.0026	0.0003
2705020860_5X	20:23	N/A	N/A	N/A	N/A	N/A	N/A	0.0373	-.0012	430.1	-.0025	-.0013
2705020862	20:28	N/A	N/A	N/A	N/A	N/A	N/A	0.0194	-.0005	220.2	0.0017	-.0010
2705020863	20:32	N/A	N/A	N/A	N/A	N/A	N/A	0.0209	-.0002	215.5	0.0023	-.0001
2705020864	20:37	N/A	N/A	N/A	N/A	N/A	N/A	0.0544	-.0007	256.6	0.0024	-.0010
2705030127	20:41	N/A	N/A	N/A	N/A	N/A	N/A	0.0451	-.0013	731.7	0.0035	-.0014
2705030133	20:45	N/A	N/A	N/A	N/A	N/A	N/A	0.0375	-.0010	531.8	-.0002	-.0005
CCV	20:50	N/A	N/A	N/A	N/A	N/A	N/A	5.06/5	2.05/2	51.0/50	2.55/2.5	5.05
CCB	20:53	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0000	0.0004	0.0002	-.0002
MCV	20:57	N/A	N/A	N/A	N/A	N/A	N/A	2.53/2.5	1.02/1	25.6/25	1.26/1.25	2.51
2705030134	21:00	N/A	N/A	N/A	N/A	N/A	N/A	0.0398	-.0014	625.4	0.0007	-.0016
2705030135	21:04	N/A	N/A	N/A	N/A	N/A	N/A	0.0498	-.0012	580.4	0.0042	0.0059
2705030175_5X	21:09	N/A	N/A	N/A	N/A	N/A	N/A	0.0471	-.0008	658.1	-.0017	0.0022
2705030177	21:13	N/A	N/A	N/A	N/A	N/A	N/A	0.0127	-.0006	284.5	0.0011	0.0002
2705030178_5X	21:17	N/A	N/A	N/A	N/A	N/A	N/A	0.0238	-.0011	473.1	-.0025	-.0007
2705030179_10X	21:22	N/A	N/A	N/A	N/A	N/A	N/A	0.0511	-.0021	520.5	-.0053	0.0002
2705030180	21:26	N/A	N/A	N/A	N/A	N/A	N/A	0.0206	-.0005	273.9	-.0000	-.0001
2705030182	21:31	N/A	N/A	N/A	N/A	N/A	N/A	0.0200	-.0012	631.5	0.0006	-.0001
2705030183	21:35	N/A	N/A	N/A	N/A	N/A	N/A	0.0064	0.0001	0.9970	-.0004	0.0010
MBLANK6010	21:39	N/A	N/A	N/A	N/A	N/A	N/A	0.0001	0.0001	0.0285	-.0003	0.0001
CCV	21:42	N/A	N/A	N/A	N/A	N/A	N/A	5.04/5	2.05/2	51.0/50	2.54/2.5	5.03
CCB	21:46	N/A	N/A	N/A	N/A	N/A	N/A	-.0000	0.0000	-.0017	0.0000	-.0001
LCS	21:49	N/A	N/A	N/A	N/A	N/A	N/A	0.944/1	0.049/.05	47.4/50	0.204/.2	0.963/1
LCSD	21:52	N/A	N/A	N/A	N/A	N/A	N/A	0.964/1	0.050/.05	48.1/50	0.209/.2	0.983/1
2705020848	21:54	N/A	N/A	N/A	N/A	N/A	N/A	0.0384	-.0008	302.2	0.0016	-.0005

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Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
2705020848MS	21:58	N/A	N/A	N/A	N/A	N/A	N/A	1.013	0.0499	341.2	0.2190	0.9833
2705020848MSD	22:02	N/A	N/A	N/A	N/A	N/A	N/A	0.9782	0.0483	331.9	0.2105	0.9497
2705020851	22:06	N/A	N/A	N/A	N/A	N/A	N/A	0.0278	-.0008	385.0	0.0014	-.0006
2705020851MS	22:10	N/A	N/A	N/A	N/A	N/A	N/A	1.007	0.0496	418.5	0.2184	0.9714
2705020851MSD	22:14	N/A	N/A	N/A	N/A	N/A	N/A	0.9732	0.0477	406.1	0.2108	0.9376
2705020837_20X	22:18	N/A	N/A	N/A	N/A	N/A	N/A	0.0651	-.0025	970.6	-.0088	-.0048
2705020838_10X	22:22	N/A	N/A	N/A	N/A	N/A	N/A	0.0697	-.0027	%1045.4	-.0026	-.0010
CCV	22:26	N/A	N/A	N/A	N/A	N/A	N/A	5.09/5	2.05/2	51.8/50	2.56/2.5	5.09
CCB	22:29	N/A	N/A	N/A	N/A	N/A	N/A	0.0001	0.0000	-.0006	0.0002	-.0000
MCV	22:33	N/A	N/A	N/A	N/A	N/A	N/A	2.54/2.5	1.02/1	25.6/25	1.26/1.25	2.53
2705020839_10X	22:36	N/A	N/A	N/A	N/A	N/A	N/A	0.0479	-.0018	783.3	0.0002	0.0012
2705020840_10X	22:40	N/A	N/A	N/A	N/A	N/A	N/A	0.0714	-.0029	%1240.1	-.0056	-.0011
2705020841_10X	22:45	N/A	N/A	N/A	N/A	N/A	N/A	0.0674	-.0025	%1225.4	-.0053	-.0008
2705020842_10X	22:49	N/A	N/A	N/A	N/A	N/A	N/A	0.0534	-.0026	916.9	-.0052	0.0018
2705020843_5X	22:54	N/A	N/A	N/A	N/A	N/A	N/A	0.0564	-.0019	804.9	-.0025	0.0002
2705020844_5X	22:58	N/A	N/A	N/A	N/A	N/A	N/A	0.0420	-.0018	725.4	-.0019	-.0010
2705020845_5X	23:02	N/A	N/A	N/A	N/A	N/A	N/A	0.0434	-.0015	564.6	-.0017	-.0008
2705020846	23:07	N/A	N/A	N/A	N/A	N/A	N/A	0.0397	-.0010	418.0	0.0008	0.0003
2705020847	23:11	N/A	N/A	N/A	N/A	N/A	N/A	0.0343	-.0010	362.9	0.0012	0.0001
2705020849	23:16	N/A	N/A	N/A	N/A	N/A	N/A	0.0428	-.0008	446.3	0.0008	0.0000
CCV	23:20	N/A	N/A	N/A	N/A	N/A	N/A	5.03/5	2.04/2	51.0/50	2.54/2.5	5.03
CCB	23:23	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0001	-.0003	0.0001	-.0000
2705020850	23:27	N/A	N/A	N/A	N/A	N/A	N/A	0.0369	-.0010	525.4	0.0004	-.0003
2705020852	23:31	N/A	N/A	N/A	N/A	N/A	N/A	0.0468	-.0008	473.8	0.0006	-.0005
2705020853	23:36	N/A	N/A	N/A	N/A	N/A	N/A	0.0137	-.0012	678.5	0.0007	0.0001
27050209854_5X	23:40	N/A	N/A	N/A	N/A	N/A	N/A	0.0428	-.0017	760.2	-.0017	0.0013
2705020855	23:44	N/A	N/A	N/A	N/A	N/A	N/A	0.0256	-.0007	354.9	0.0008	-.0012
2705020856	23:49	N/A	N/A	N/A	N/A	N/A	N/A	0.0184	-.0003	105.8	0.0003	-.0006
MBLANK6010	23:53	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0001	0.0268	-.0001	-.0002
LCS	23:57	N/A	N/A	N/A	N/A	N/A	N/A	0.988/1	0.051/.05	48.2/50	0.213/.2	1.01/1
LCSD	0:00	N/A	N/A	N/A	N/A	N/A	N/A	0.937/1	0.048/.05	46.8/50	0.204/.2	0.959/1
2705030184	0:02	N/A	N/A	N/A	N/A	N/A	N/A	0.0113	-.0005	46.35	0.0046	-.0004
CCV	0:06	N/A	N/A	N/A	N/A	N/A	N/A	5.01/5	2.02/2	50.8/50	2.54/2.5	5.03
CCB	0:09	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0000	-.0020	0.0001	-.0002
MCV	0:13	N/A	N/A	N/A	N/A	N/A	N/A	2.59/2.5	1.03/1	26.4/25	1.29/1.25	2.57
2705030184MS	0:16	N/A	N/A	N/A	N/A	N/A	N/A	0.9810	0.0498	94.70	0.2180	0.9971
2705030184MSD	0:19	N/A	N/A	N/A	N/A	N/A	N/A	1.001	0.0500	94.75	0.2224	1.017
2705040334	0:22	N/A	N/A	N/A	N/A	N/A	N/A	0.0403	-.0006	305.6	0.0022	-.0009
2705040334MS	0:26	N/A	N/A	N/A	N/A	N/A	N/A	1.003	0.0490	340.1	0.2146	0.9660
2705040334MSD	0:30	N/A	N/A	N/A	N/A	N/A	N/A	1.022	0.0494	344.0	0.2186	0.9825
2705030203_5X	0:34	N/A	N/A	N/A	N/A	N/A	N/A	0.0511	-.0019	729.9	-.0025	0.0008
2705030204	0:38	N/A	N/A	N/A	N/A	N/A	N/A	0.0263	-.0010	442.3	0.0003	0.0004
2705030205	0:43	N/A	N/A	N/A	N/A	N/A	N/A	0.0204	-.0011	710.4	0.0007	0.0011
2705030206	0:47	N/A	N/A	N/A	N/A	N/A	N/A	0.0252	-.0007	190.2	0.0015	0.0011
2705030207	0:51	N/A	N/A	N/A	N/A	N/A	N/A	0.0339	-.0006	124.1	0.0011	0.0010
CCV	0:56	N/A	N/A	N/A	N/A	N/A	N/A	4.99/5	2.04/2	51.3/50	2.53/2.5	5.01
CCB	0:59	N/A	N/A	N/A	N/A	N/A	N/A	-.0000	0.0000	-.0023	0.0001	-.0002
2705030208	1:03	N/A	N/A	N/A	N/A	N/A	N/A	0.0406	-.0009	609.7	0.0031	0.0007
2705030211	1:07	N/A	N/A	N/A	N/A	N/A	N/A	0.0591	-.0006	271.2	0.0004	0.0071
2705030217	1:11	N/A	N/A	N/A	N/A	N/A	N/A	0.0461	-.0014	%1102.6	-.0003	0.0020

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Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
2705030218	1:16	N/A	N/A	N/A	N/A	N/A	N/A	0.0755	-.0009	709.6	0.0011	0.0070
2705030219	1:20	N/A	N/A	N/A	N/A	N/A	N/A	0.0002	0.0001	0.2448	-.0002	-.0005
2705030220	1:23	N/A	N/A	N/A	N/A	N/A	N/A	0.1572	-.0011	%1689.1	0.0004	0.0083
2705040313	1:27	N/A	N/A	N/A	N/A	N/A	N/A	0.1933	-.0005	804.4	0.0045	0.0193
2705040314	1:31	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0002	0.0906	-.0004	-.0002
2705040316	1:35	N/A	N/A	N/A	N/A	N/A	N/A	0.0152	-.0010	595.3	0.0023	-.0008
2705040327	1:39	N/A	N/A	N/A	N/A	N/A	N/A	0.0850	-.0012	577.6	0.0015	0.0047
CCV	1:44	N/A	N/A	N/A	N/A	N/A	N/A	5.03/5	2.02/2	51.0/50	2.54/2.5	5.05
CCB	1:47	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0000	-.0016	0.0000	-.0003
MCV	1:50	N/A	N/A	N/A	N/A	N/A	N/A	2.51/2.5	1.00/1	25.4/25	1.25/1.25	2.50
2705040328	1:53	N/A	N/A	N/A	N/A	N/A	N/A	0.0921	-.0012	573.1	0.0011	0.0032
2705040330	1:58	N/A	N/A	N/A	N/A	N/A	N/A	0.0198	0.0011	497.7	-.0004	0.0100
2705040331	2:02	N/A	N/A	N/A	N/A	N/A	N/A	0.0247	-.0008	494.3	0.0014	0.0001
ICSA	2:06	N/A	N/A	N/A	N/A	N/A	N/A	0.002	-.000	253/250	-.002	0.001
ICSAB	2:10	N/A	N/A	N/A	N/A	N/A	N/A	0.258/.25	0.249/.25	256/250	0.496/.5	0.242/.25
Wash	2:14	N/A	N/A	N/A	N/A	N/A	N/A	0.0000	0.0000	0.0004	0.0000	-.0003
QC-25 1ppm	2:19	N/A	N/A	N/A	N/A	N/A	N/A	1.024	0.9617	1.011	0.9654	1.024
ECV	2:22	N/A	N/A	N/A	N/A	N/A	N/A	5.01/5	2.02/2	50.8/50	2.54/2.5	5.04
ECB	2:26	N/A	N/A	N/A	N/A	N/A	N/A	-.0001	0.0001	-.0027	-.0001	-.0001
MRL	2:29	N/A	N/A	N/A	N/A	N/A	N/A	0.020/.02	0.001/.001	1.01/1	0.007/.005	0.050/.05

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
ICV	18:51	9.89/10	9.89/10	9.91/10	99.4/100	99.6/100	9.92/10	9.91/10	99.0/100	9.91/10	9.83/10	9.66/10
LINEARITY	18:54	0.002	-.012	98.9	305	187	0.004	0.001	297/300	0.001	-.004	0.013
ICSA	18:58	-.001	-.013	100/100	0.257	241/250	0.003	-.001	0.110	-.001	-.039	0.012
ICSAB	19:02	0.251/.25	0.253/.25	99.8/100	0.113	240/250	0.265/.25	-.002	0.069	0.479/.5	0.465/.5	0.009
Wash	19:06	-.0002	-.0002	0.0135	0.0063	0.0257	-.0001	0.0000	0.0125	0.0001	0.0021	0.0015
QC-25 1ppm	19:09	0.9987	0.9588	1.029	9.544	1.087	1.032	0.9572	1.027	1.038	1.042	0.9480
CCV	19:14	5.03/5	4.99/5	5.14/5	48.9/50	52.1/50	5.12/5	5.02/5	50.2/50	5.11/5	5.11/5	4.90/5
ICB	19:18	-.0002	-.0000	0.0017	0.0643	0.0011	0.0001	0.0012	0.0317	0.0000	0.0032	0.0058
MRL	19:21	0.010/.01	0.009/.01	0.021/.02	0.923/1	0.105/.1	0.002/.002	0.019/.02	0.985/1	0.020/.02	0.023/.02	0.045/.05
WASH	19:25	-.0003	-.0003	0.0029	0.0130	0.0001	0.0000	0.0003	0.0165	0.0000	0.0015	0.0035
MRL6010	19:29	0.010/.01	0.010/.01	0.024/.02	0.967/1	0.108/.1	0.002/.002	0.019/.02	1.01/1	0.021/.02	0.021/.02	0.048/.05
MBLANK6010	19:32	-.0003	-.0003	0.0040	-.0435	0.0010	0.0000	-.0000	0.0688	0.0004	0.0025	0.0037
LCS	19:36	0.985/1	0.987/1	5.00/5	19.1/20	20.4/20	0.506/.5	0.979/1	N/A	0.501/.5	1.02/1	N/A
LCSD	19:39	0.972/1	0.987/1	4.97/5	19.6/20	20.8/20	0.505/.5	0.987/1	N/A	0.504/.5	1.02/1	N/A
2705020861	19:42	0.0003	-.0002	0.0227	-.0300	0.1615	0.0021	0.0011	N/A	0.0005	0.0017	N/A
2705020861MS	19:45	0.9429	0.9433	4.895	18.37	20.02	0.4934	0.9461	N/A	0.4876	0.9951	N/A
2705020861MSD	19:48	0.9603	0.9605	4.989	18.77	20.43	0.5019	0.9561	N/A	0.4940	1.004	N/A
2705030181	19:52	0.3406	0.0034	0.0016	9.327	116.0	0.0117	0.1339	N/A	0.0054	-.0131	N/A
2705030181MS	19:56	1.314	1.054	5.118	29.34	134.0	0.5270	1.123	N/A	0.5003	0.9887	N/A
CCV	20:00	5.17/5	5.04/5	5.29/5	50.5/50	52.6/50	5.18/5	5.11/5	N/A	5.20/5	5.22/5	N/A
CCB	20:03	-.0000	-.0000	0.0023	0.0245	0.0002	0.0002	0.0009	N/A	0.0000	0.0002	N/A
2705030181MSD	20:06	1.270	1.017	5.014	28.91	130.7	0.5081	1.101	N/A	0.4905	0.9699	N/A
2705020857	20:10	0.0907	0.0039	0.0437	8.261	140.8	0.0034	0.0257	N/A	-.0009	-.0110	N/A
2705020858	20:15	1.094	0.0037	-.0021	20.74	182.8	0.0110	0.0299	N/A	-.0006	-.0114	N/A
2705020859	20:19	0.0812	0.0042	1.141	9.873	131.8	0.0744	0.0098	N/A	0.0018	-.0043	N/A
2705020860_5X	20:23	12.12	0.0060	-.0104	60.41	279.5	0.0219	0.0165	N/A	-.0005	-.0182	N/A
2705020862	20:28	0.7151	0.0020	2.433	14.18	122.3	0.1501	0.0189	N/A	-.0011	-.0066	N/A
2705020863	20:32	0.0807	0.0039	0.6829	9.724	130.5	0.0569	0.0101	N/A	0.0013	-.0058	N/A
2705020864	20:37	0.0319	0.0074	-.0028	21.26	98.27	0.1090	0.0361	N/A	-.0003	-.0093	N/A
2705030127	20:41	-.0003	0.0041	0.8485	22.35	711.4	1.620	0.0007	N/A	-.0011	-.0193	N/A
2705030133	20:45	0.0001	0.0051	0.1541	21.18	347.4	0.0343	0.0124	N/A	-.0007	-.0166	N/A
CCV	20:50	5.09/5	4.98/5	5.22/5	49.8/50	52.3/50	5.09/5	5.02/5	N/A	5.12/5	5.15/5	N/A
CCB	20:53	-.0001	-.0003	0.0016	0.0486	0.0011	0.0000	0.0009	N/A	0.0000	0.0003	N/A
MCV	20:57	2.52/2.5	2.47/2.5	2.60/2.5	24.6/25	26.4/25	2.58/2.5	2.47/2.5	N/A	2.55/2.5	2.56/2.5	N/A
2705030134	21:00	0.0005	0.0052	0.0208	24.66	392.7	0.0017	0.0243	N/A	-.0026	-.0218	N/A
2705030135	21:04	0.0009	0.0053	0.0030	16.44	496.9	2.065	0.0282	N/A	0.0027	-.0223	N/A
2705030175_5X	21:09	12.69	0.0060	0.4688	23.71	291.9	0.3596	0.0047	N/A	0.0008	-.0269	N/A
2705030177	21:13	0.3983	0.0023	0.0427	28.01	220.2	1.766	0.0210	N/A	0.0000	-.0134	N/A
2705030178_5X	21:17	7.934	0.0033	0.0114	23.00	190.7	0.0032	0.0118	N/A	-.0004	-.0127	N/A
2705030179_10X	21:22	31.48	0.0055	0.0509	33.21	276.4	0.0223	0.0334	N/A	-.0047	-.0376	N/A
2705030180	21:26	1.436	0.0028	0.0507	16.53	209.7	0.0086	0.0169	N/A	-.0005	-.0093	N/A
2705030182	21:31	4.685	0.0043	-.0041	26.05	390.4	0.0036	0.0148	N/A	0.0009	-.0210	N/A
2705030183	21:35	0.0020	0.0009	0.0323	0.0007	0.4319	0.0897	-.0004	N/A	0.0008	0.0047	N/A
MBLANK6010	21:39	0.0003	-.0004	0.0140	0.0046	0.0020	0.0000	-.0004	N/A	-.0002	0.0011	N/A
CCV	21:42	5.05/5	4.96/5	5.14/5	48.7/50	52.4/50	5.10/5	4.99/5	N/A	5.08/5	5.10/5	N/A
CCB	21:46	0.0002	-.0001	0.0015	-.0147	0.0006	0.0000	0.0009	N/A	0.0002	-.0004	N/A
LCS	21:49	0.953/1	0.947/1	4.86/5	18.4/20	19.8/20	0.487/.5	0.944/1	N/A	0.484/.5	0.997/1	N/A
LCSD	21:52	0.963/1	0.970/1	5.02/5	19.0/20	20.4/20	0.498/.5	0.969/1	N/A	0.494/.5	1.01/1	N/A
2705020848	21:54	1.462	0.0032	-.0034	30.55	149.4	0.0602	0.0345	N/A	-.0004	-.0119	N/A

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
2705020848MS	21:58	2.396	1.039	5.049	50.05	165.1	0.5657	1.011	N/A	0.4842	0.9779	N/A
2705020848MSD	22:02	2.322	1.005	4.933	48.87	160.7	0.5479	0.9765	N/A	0.4666	0.9482	N/A
2705020851	22:06	0.1514	0.0025	0.0026	33.36	179.1	0.0192	0.0236	N/A	-.0014	-.0081	N/A
2705020851MS	22:10	1.112	1.021	5.009	52.29	192.0	0.5262	1.006	N/A	0.4771	0.9807	N/A
2705020851MSD	22:14	1.074	0.9821	4.892	51.29	186.5	0.5070	0.9703	N/A	0.4605	0.9500	N/A
2705020837_20X	22:18	29.33	0.0063	0.0707	52.34	502.0	0.4704	0.0185	N/A	-.0020	-.0403	N/A
2705020838_10X	22:22	31.06	0.0516	0.2541	46.29	540.0	0.1051	0.0152	N/A	-.0025	-.0534	N/A
CCV	22:26	5.12/5	5.04/5	5.25/5	49.9/50	53.2/50	5.17/5	5.04/5	N/A	5.14/5	5.17/5	N/A
CCB	22:29	0.0007	-.0000	0.0002	-.0068	0.0009	0.0000	0.0013	N/A	-.0002	0.0004	N/A
MCV	22:33	2.51/2.5	2.46/2.5	2.62/2.5	24.7/25	26.5/25	2.57/2.5	2.48/2.5	N/A	2.56/2.5	2.57/2.5	N/A
2705020839_10X	22:36	17.99	0.0169	6.555	44.83	451.3	0.2253	0.0313	N/A	0.0066	-.0142	N/A
2705020840_10X	22:40	30.06	0.0052	1.175	51.98	615.7	0.0315	0.0165	N/A	0.0023	-.0396	N/A
2705020841_10X	22:45	30.51	0.0072	0.1599	45.52	589.0	0.0275	0.0117	N/A	-.0031	-.0694	N/A
2705020842_10X	22:49	26.00	0.0054	-.0122	35.26	461.5	0.0425	0.0117	N/A	-.0005	-.0437	N/A
2705020843_5X	22:54	15.45	0.0060	0.1409	51.82	420.4	0.0711	0.0077	N/A	-.0031	-.0338	N/A
2705020844_5X	22:58	12.86	0.0040	-.0041	34.18	374.5	0.0364	0.0088	N/A	-.0017	-.0284	N/A
2705020845_5X	23:02	12.26	0.0050	-.0091	42.72	325.4	0.0357	0.0126	N/A	-.0019	-.0199	N/A
2705020846	23:07	9.109	0.0030	0.1981	40.09	246.9	0.0340	0.0185	N/A	0.0003	-.0121	N/A
2705020847	23:11	4.877	0.0039	0.0200	38.31	212.3	0.0337	0.0270	N/A	0.0000	-.0138	N/A
2705020849	23:16	0.6702	0.0030	-.0074	37.17	208.4	0.0726	0.0279	N/A	-.0006	-.0136	N/A
CCV	23:20	5.04/5	4.95/5	5.21/5	49.1/50	52.5/50	5.10/5	4.98/5	N/A	5.07/5	5.09/5	N/A
CCB	23:23	0.0009	-.0003	0.0007	-.0002	0.0015	-.0000	0.0008	N/A	-.0001	-.0002	N/A
2705020850	23:27	0.3737	0.0032	0.0466	40.92	249.3	0.0275	0.0195	N/A	-.0008	-.0156	N/A
2705020852	23:31	0.5296	0.0198	1.411	43.98	210.1	0.0444	0.0265	N/A	0.0013	-.0012	N/A
2705020853	23:36	1.493	0.0042	-.0025	14.38	269.1	0.0001	0.0834	N/A	0.0018	-.0206	N/A
27050209854_5X	23:40	16.47	0.0041	0.5295	44.99	437.7	0.1215	0.0239	N/A	0.0034	-.0280	N/A
2705020855	23:44	0.0674	0.0036	0.0695	26.91	175.8	0.0183	0.0202	N/A	-.0002	-.0132	N/A
2705020856	23:49	0.0443	0.0010	0.0697	10.21	50.00	0.0065	0.0103	N/A	-.0004	-.0067	N/A
MBLANK6010	23:53	0.0005	-.0005	0.0021	0.0183	0.0020	-.0001	-.0003	N/A	0.0000	0.0009	N/A
LCS	23:57	0.993/1	0.990/1	5.04/5	18.7/20	20.1/20	0.511/.5	0.990/1	N/A	0.506/.5	1.01/1	N/A
LCSD	0:00	0.946/1	0.932/1	4.84/5	18.1/20	19.7/20	0.481/.5	0.934/1	N/A	0.482/.5	0.979/1	N/A
2705030184	0:02	2.679	0.0022	0.7794	18.85	36.69	0.0101	0.0248	N/A	-.0007	-.0050	N/A
CCV	0:06	5.04/5	4.91/5	5.10/5	48.6/50	52.4/50	5.06/5	4.97/5	N/A	5.07/5	5.09/5	N/A
CCB	0:09	0.0005	-.0004	-.0005	0.0055	0.0012	-.0000	0.0012	N/A	-.0001	0.0007	N/A
MCV	0:13	2.55/2.5	2.49/2.5	2.71/2.5	25.3/25	27.5/25	2.61/2.5	2.52/2.5	N/A	2.60/2.5	2.61/2.5	N/A
2705030184MS	0:16	3.634	1.015	5.874	38.64	57.06	0.5148	0.9858	N/A	0.4976	0.9872	N/A
2705030184MSD	0:19	3.655	1.019	5.815	38.29	57.08	0.5182	1.006	N/A	0.5073	1.009	N/A
2705040334	0:22	0.0628	0.0018	0.0006	17.51	196.9	0.0003	0.0174	N/A	-.0004	-.0128	N/A
2705040334MS	0:26	1.015	0.9955	5.050	36.93	206.8	0.4993	0.9792	N/A	0.4736	0.9707	N/A
2705040334MSD	0:30	1.027	1.017	5.057	37.01	211.0	0.5075	0.9989	N/A	0.4818	0.9872	N/A
2705030203_5X	0:34	16.89	0.0048	0.4983	48.50	373.9	0.1592	0.0170	N/A	-.0001	-.0290	N/A
2705030204	0:38	6.217	0.0030	0.0950	82.56	268.9	0.1462	0.0359	N/A	0.0056	-.0134	N/A
2705030205	0:43	2.885	0.0045	0.6530	10.67	255.2	0.0951	0.0390	N/A	0.0035	-.0197	N/A
2705030206	0:47	0.0024	0.0068	0.2865	19.85	62.18	0.8264	0.0852	N/A	0.0038	-.0093	N/A
2705030207	0:51	0.0034	0.0070	1.031	18.98	59.24	0.6788	0.0819	N/A	0.0049	-.0078	N/A
CCV	0:56	5.04/5	4.94/5	5.13/5	49.1/50	52.9/50	5.09/5	4.94/5	N/A	5.06/5	5.07/5	N/A
CCB	0:59	0.0006	-.0005	0.0003	0.0405	0.0009	-.0000	0.0012	N/A	-.0003	0.0010	N/A
2705030208	1:03	0.8694	0.0052	2.487	13.79	268.4	0.0553	0.0423	N/A	0.0030	-.0137	N/A
2705030211	1:07	0.0015	0.0051	0.3854	24.76	104.9	1.068	0.0334	N/A	0.0140	-.0107	N/A
2705030217	1:11	0.1051	0.0056	1.373	27.38	479.7	0.0465	0.1147	N/A	0.0027	-.0212	N/A

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
2705030218	1:16	0.1283	0.0085	3.993	34.33	300.6	1.214	0.0461	N/A	0.0092	-.0177	N/A
2705030219	1:20	0.0003	-.0013	0.0058	0.0721	0.0223	0.0004	-.0004	N/A	0.0002	0.0010	N/A
2705030220	1:23	0.3046	0.0171	5.822	26.10	722.5	0.6184	0.0949	N/A	0.0117	-.0327	N/A
2705040313	1:27	0.0458	0.0217	14.32	39.91	311.7	2.321	0.0317	N/A	0.0202	-.0156	N/A
2705040314	1:31	0.0004	-.0012	0.0088	0.0589	0.0121	0.0001	-.0002	N/A	-.0001	0.0018	N/A
2705040316	1:35	0.2683	0.0024	0.1030	13.78	248.1	0.0033	0.0311	N/A	-.0013	-.0166	N/A
2705040327	1:39	0.0046	0.0066	1.101	36.17	323.1	0.6729	0.0245	N/A	0.0045	-.0140	N/A
CCV	1:44	5.06/5	4.93/5	5.20/5	50.6/50	52.8/50	5.08/5	4.97/5	N/A	5.09/5	5.08/5	N/A
CCB	1:47	0.0004	-.0004	0.0017	0.0282	0.0006	-.0001	0.0010	N/A	0.0002	0.0004	N/A
MCV	1:50	2.48/2.5	2.41/2.5	2.60/2.5	25.0/25	26.5/25	2.53/2.5	2.45/2.5	N/A	2.53/2.5	2.52/2.5	N/A
2705040328	1:53	0.0044	0.0075	1.040	35.91	318.1	0.7798	0.0271	N/A	0.0027	-.0183	N/A
2705040330	1:58	0.0415	0.0014	1.047	51.53	426.1	120.5	0.0042	N/A	0.0441	0.0006	N/A
2705040331	2:02	1.189	0.0031	0.8000	20.38	261.3	0.2863	0.0483	N/A	0.0006	-.0165	N/A
ICSA	2:06	-.000	-.013	101/100	0.088	243/250	0.003	-.002	N/A	-.001	-.034	N/A
ICSAB	2:10	0.250/.25	0.248/.25	101/100	0.051	245/250	0.262/.25	-.002	N/A	0.472/.5	0.463/.5	N/A
Wash	2:14	0.0001	-.0009	0.0041	-.0717	0.0047	0.0001	-.0002	N/A	-.0004	0.0005	N/A
QC-25 1ppm	2:19	1.005	0.9554	1.018	9.696	1.084	1.030	0.9547	N/A	1.034	1.038	N/A
ECV	2:22	5.04/5	4.92/5	5.11/5	49.7/50	52.3/50	5.07/5	4.97/5	N/A	5.08/5	5.09/5	N/A
ECB	2:26	0.0001	-.0008	-.0000	-.0315	0.0000	0.0001	0.0014	N/A	-.0001	0.0015	N/A
MRL	2:29	0.010/.01	0.009/.01	0.021/.02	0.927/1	0.107/.1	0.002/.002	0.020/.02	N/A	0.020/.02	0.022/.02	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
ICV	18:51	9.86/10	9.86/10	9.97/10	9.84/10	9.89/10	3.96/4
LINEARITY	18:54	-.010	-.086	-.002	0.024	0.005	-.000
ICSA	18:58	-.024	-.075	-.003	0.020	N/A	-.000
ICSAB	19:02	-.036	-.079	0.252/.25	0.548/.5	N/A	0.253/.25
Wash	19:06	-.0028	0.0047	0.0001	0.0002	0.0079	0.0001
QC-25 1ppm	19:09	0.9291	1.038	0.9720	1.012	0.9574	0.9670
CCV	19:14	5.10/5	5.22/5	5.06/5	5.12/5	4.98/5	2.05/2
ICB	19:18	0.0001	0.0058	-.0001	0.0004	0.0005	0.0001
MRL	19:21	0.092/.1	0.109/.1	0.002/.002	0.020/.02	0.047/.05	0.001/.001
WASH	19:25	-.0044	0.0050	0.0000	0.0000	0.0003	0.0001
MRL6010	19:29	0.095/.1	0.110/.1	0.002/.002	0.024/.02	0.050/.05	0.001/.001
MBLANK6010	19:32	-.0049	0.0083	-.0000	0.0055	0.0014	0.0001
LCS	19:36	N/A	N/A	0.987/1	1.03/1	N/A	N/A
LCSD	19:39	N/A	N/A	0.984/1	1.03/1	N/A	N/A
2705020861	19:42	N/A	N/A	0.0013	0.0082	N/A	N/A
2705020861MS	19:45	N/A	N/A	0.9478	0.9942	N/A	N/A
2705020861MSD	19:48	N/A	N/A	0.9667	1.008	N/A	N/A
2705030181	19:52	N/A	N/A	0.0587	0.0117	N/A	N/A
2705030181MS	19:56	N/A	N/A	1.059	1.084	N/A	N/A
CCV	20:00	N/A	N/A	5.11/5	5.21/5	N/A	N/A
CCB	20:03	N/A	N/A	0.0001	0.0002	N/A	N/A
2705030181MSD	20:06	N/A	N/A	1.018	1.080	N/A	N/A
2705020857	20:10	N/A	N/A	0.1273	0.0288	N/A	N/A
2705020858	20:15	N/A	N/A	0.0604	0.0198	N/A	N/A
2705020859	20:19	N/A	N/A	0.0373	0.0210	N/A	N/A
2705020860_5X	20:23	N/A	N/A	0.0384	0.0239	N/A	N/A
2705020862	20:28	N/A	N/A	0.0316	0.0231	N/A	N/A
2705020863	20:32	N/A	N/A	0.0371	0.0219	N/A	N/A
2705020864	20:37	N/A	N/A	0.0427	0.0189	N/A	N/A
2705030127	20:41	N/A	N/A	0.0046	0.0113	N/A	N/A
2705030133	20:45	N/A	N/A	0.0225	0.0145	N/A	N/A
CCV	20:50	N/A	N/A	5.04/5	5.12/5	N/A	N/A
CCB	20:53	N/A	N/A	-.0001	0.0002	N/A	N/A
MCV	20:57	N/A	N/A	2.51/2.5	2.55/2.5	N/A	N/A
2705030134	21:00	N/A	N/A	0.0203	0.0155	N/A	N/A
2705030135	21:04	N/A	N/A	0.0427	0.0125	N/A	N/A
2705030175_5X	21:09	N/A	N/A	0.0270	0.0740	N/A	N/A
2705030177	21:13	N/A	N/A	0.0838	0.0167	N/A	N/A
2705030178_5X	21:17	N/A	N/A	0.0546	0.0138	N/A	N/A
2705030179_10X	21:22	N/A	N/A	0.0123	0.0916	N/A	N/A
2705030180	21:26	N/A	N/A	0.0262	0.0218	N/A	N/A
2705030182	21:31	N/A	N/A	0.0542	0.0422	N/A	N/A
2705030183	21:35	N/A	N/A	0.0004	0.0167	N/A	N/A
MBLANK6010	21:39	N/A	N/A	-.0000	0.0042	N/A	N/A
CCV	21:42	N/A	N/A	5.05/5	5.10/5	N/A	N/A
CCB	21:46	N/A	N/A	0.0000	0.0000	N/A	N/A
LCS	21:49	N/A	N/A	0.952/1	0.994/1	N/A	N/A
LCSD	21:52	N/A	N/A	0.972/1	1.02/1	N/A	N/A
2705020848	21:54	N/A	N/A	0.0558	0.0134	N/A	N/A

Sample ID	Time	SE	TL	V	ZN	ALX	BEX
2705020848MS	21:58	N/A	N/A	1.039	1.073	N/A	N/A
2705020848MSD	22:02	N/A	N/A	1.007	1.026	N/A	N/A
2705020851	22:06	N/A	N/A	0.0303	0.0153	N/A	N/A
2705020851MS	22:10	N/A	N/A	1.013	1.059	N/A	N/A
2705020851MSD	22:14	N/A	N/A	0.9789	1.023	N/A	N/A
2705020837_20X	22:18	N/A	N/A	0.0477	0.4325	N/A	N/A
2705020838_10X	22:22	N/A	N/A	0.0416	0.1062	N/A	N/A
CCV	22:26	N/A	N/A	5.11/5	5.16/5	N/A	N/A
CCB	22:29	N/A	N/A	0.0000	0.0001	N/A	N/A
MCV	22:33	N/A	N/A	2.50/2.5	2.56/2.5	N/A	N/A
2705020839_10X	22:36	N/A	N/A	0.1077	0.1112	N/A	N/A
2705020840_10X	22:40	N/A	N/A	0.0448	0.0629	N/A	N/A
2705020841_10X	22:45	N/A	N/A	0.0269	0.1562	N/A	N/A
2705020842_10X	22:49	N/A	N/A	0.0488	0.0507	N/A	N/A
2705020843_5X	22:54	N/A	N/A	0.0422	0.0467	N/A	N/A
2705020844_5X	22:58	N/A	N/A	0.0336	0.1116	N/A	N/A
2705020845_5X	23:02	N/A	N/A	0.0443	0.0496	N/A	N/A
2705020846	23:07	N/A	N/A	0.0357	0.0797	N/A	N/A
2705020847	23:11	N/A	N/A	0.0297	0.0176	N/A	N/A
2705020849	23:16	N/A	N/A	0.0474	0.0099	N/A	N/A
CCV	23:20	N/A	N/A	5.03/5	5.08/5	N/A	N/A
CCB	23:23	N/A	N/A	0.0002	0.0000	N/A	N/A
2705020850	23:27	N/A	N/A	0.0276	0.0179	N/A	N/A
2705020852	23:31	N/A	N/A	0.0239	0.2848	N/A	N/A
2705020853	23:36	N/A	N/A	0.0566	0.0213	N/A	N/A
27050209854_5X	23:40	N/A	N/A	0.0503	0.0540	N/A	N/A
2705020855	23:44	N/A	N/A	0.0433	0.0444	N/A	N/A
2705020856	23:49	N/A	N/A	0.0299	0.0173	N/A	N/A
MBLANK6010	23:53	N/A	N/A	0.0001	0.0049	N/A	N/A
LCS	23:57	N/A	N/A	0.999/1	1.04/1	N/A	N/A
LCSD	0:00	N/A	N/A	0.939/1	0.987/1	N/A	N/A
2705030184	0:02	N/A	N/A	0.1196	0.0154	N/A	N/A
CCV	0:06	N/A	N/A	5.01/5	5.08/5	N/A	N/A
CCB	0:09	N/A	N/A	0.0001	0.0001	N/A	N/A
MCV	0:13	N/A	N/A	2.54/2.5	2.60/2.5	N/A	N/A
2705030184MS	0:16	N/A	N/A	1.096	1.094	N/A	N/A
2705030184MSD	0:19	N/A	N/A	1.100	1.105	N/A	N/A
2705040334	0:22	N/A	N/A	0.0399	0.0256	N/A	N/A
2705040334MS	0:26	N/A	N/A	1.010	1.050	N/A	N/A
2705040334MSD	0:30	N/A	N/A	1.022	1.080	N/A	N/A
2705030203_5X	0:34	N/A	N/A	0.0492	0.0360	N/A	N/A
2705030204	0:38	N/A	N/A	0.0686	0.0528	N/A	N/A
2705030205	0:43	N/A	N/A	0.0865	0.0298	N/A	N/A
2705030206	0:47	N/A	N/A	0.0181	0.0180	N/A	N/A
2705030207	0:51	N/A	N/A	0.0224	0.0232	N/A	N/A
CCV	0:56	N/A	N/A	5.04/5	5.07/5	N/A	N/A
CCB	0:59	N/A	N/A	0.0002	-.0001	N/A	N/A
2705030208	1:03	N/A	N/A	0.0806	0.0329	N/A	N/A
2705030211	1:07	N/A	N/A	0.0624	0.0181	N/A	N/A
2705030217	1:11	N/A	N/A	0.0327	0.0223	N/A	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
2705030218	1:16	N/A	N/A	0.0794	0.0484	N/A	N/A
2705030219	1:20	N/A	N/A	0.0004	0.0153	N/A	N/A
2705030220	1:23	N/A	N/A	0.0456	0.0544	N/A	N/A
2705040313	1:27	N/A	N/A	0.2032	0.0589	N/A	N/A
2705040314	1:31	N/A	N/A	-.0005	0.0139	N/A	N/A
2705040316	1:35	N/A	N/A	0.0700	0.0220	N/A	N/A
2705040327	1:39	N/A	N/A	0.2980	0.0196	N/A	N/A
CCV	1:44	N/A	N/A	5.02/5	5.10/5	N/A	N/A
CCB	1:47	N/A	N/A	0.0001	0.0000	N/A	N/A
MCV	1:50	N/A	N/A	2.47/2.5	2.53/2.5	N/A	N/A
2705040328	1:53	N/A	N/A	0.2640	0.0169	N/A	N/A
2705040330	1:58	N/A	N/A	0.0193	0.0321	N/A	N/A
2705040331	2:02	N/A	N/A	0.0541	0.0264	N/A	N/A
ICSA	2:06	N/A	N/A	-.002	0.019	N/A	N/A
ICSAB	2:10	N/A	N/A	0.251/.25	0.537/.5	N/A	N/A
Wash	2:14	N/A	N/A	-.0000	-.0002	N/A	N/A
QC-25 1ppm	2:19	N/A	N/A	0.9781	1.007	N/A	N/A
ECV	2:22	N/A	N/A	5.02/5	5.08/5	N/A	N/A
ECB	2:26	N/A	N/A	0.0001	0.0000	N/A	N/A
MRL	2:29	N/A	N/A	0.002/.002	0.021/.02	N/A	N/A

Analysis Begun

Start Time: 5/8/2007 18:43:56 Plasma On Time: 5/8/2007 17:29:42
Logged In Analyst: Owner Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2121801Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070508A.sif
Batch ID: 070508A
Results Data Set: 070508A
Results Library: C:\pe\Owner\Results\Results.mdb

Method Loaded
Method Name: 6010_060831 Method Last Saved: 2/7/2007 13:42:48
IEC File: IEC060831.iec MSF File:
Method Description: 6010_060227

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: 5/8/2007 18:43:57
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	384592.8	699.44	0.18%	100	%
Yr	320164.5	2956.14	0.92%	100	%
Ag†	494.4	57.54	11.64%	[0.00]	mg/L
Al†	47.6	48.14	101.23%	[0.00]	mg/L
As†	-1.7	3.44	205.09%	[0.00]	mg/L
B_†	132.2	0.12	0.09%	[0.00]	mg/L

Bat	-48.0	0.71	1.47%	[0.00]	mg/L
Bet	-5778.1	1.08	0.02%	[0.00]	mg/L
Cat	1053.7	9.77	0.93%	[0.00]	mg/L
Cdt	47.9	1.71	3.57%	[0.00]	mg/L
Cot	-56.7	0.49	0.86%	[0.00]	mg/L
Crt	262.2	10.01	3.82%	[0.00]	mg/L
Cut	4335.2	25.19	0.58%	[0.00]	mg/L
Fet	-36.8	0.96	2.62%	[0.00]	mg/L
Kt	122.2	20.99	17.18%	[0.00]	mg/L
Mgt	8.5	3.59	42.39%	[0.00]	mg/L
Mnt	118.0	10.11	8.57%	[0.00]	mg/L
Mot	11.0	4.68	42.43%	[0.00]	mg/L
Nat	-590.4	32.46	5.50%	[0.00]	mg/L
Nit	-39.7	4.93	12.44%	[0.00]	mg/L
Pbt	-35.5	1.09	3.08%	[0.00]	mg/L
Sbt	-1.2	4.31	367.41%	[0.00]	mg/L
Set	1.6	3.30	208.06%	[0.00]	mg/L
Tlt	-30.8	0.05	0.16%	[0.00]	mg/L
Vt	164.0	25.62	15.63%	[0.00]	mg/L
Znt	86.2	4.53	5.26%	[0.00]	mg/L
Alxt	229.3	42.49	18.53%	[0.00]	ug/L
Bext	-5778.1	1.08	0.02%	[0.00]	ug/L

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

Autosampler Location: 15
Date Collected: 5/8/2007 18:47:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	346752.9	3249.72	0.94%	90.2	%
Yr	297934.8	2487.02	0.83%	93.1	%
Ag†	506952.8	490.97	0.10%	[2]	mg/L
Al†	56564.7	235.75	0.42%	[10]	mg/L
As†	17696.8	64.62	0.37%	[10]	mg/L
B_†	146351.9	529.33	0.36%	[5.02]	mg/L
Ba†	669238.4	385.92	0.06%	[10]	mg/L
Be†	11422277.2	15431.92	0.14%	[4.01]	mg/L
Ca†	1280069.5	5154.27	0.40%	[100]	mg/L
Cd†	119011.6	20.82	0.02%	[5.01]	mg/L
Co†	229431.4	186.55	0.08%	[10]	mg/L
Cr†	713992.9	166.24	0.02%	[9.97]	mg/L
Cu†	3794967.4	8910.50	0.23%	[10]	mg/L
Fe†	25052.6	93.61	0.37%	[9.98]	mg/L
K†	136372.7	83.31	0.06%	[100]	mg/L
Mg†	760270.4	4307.07	0.57%	[100]	mg/L
Mn†	5286657.8	2617.29	0.05%	[10]	mg/L
Mo†	113040.2	19.81	0.02%	[9.98]	mg/L
Na†	357391.6	2865.50	0.80%	[100]	mg/L
Ni†	204956.5	120.20	0.06%	[10]	mg/L
Pb†	44066.7	272.38	0.62%	[10]	mg/L
Sb†	17726.2	125.68	0.71%	[10]	mg/L
Se†	12473.7	76.37	0.61%	[10]	mg/L
Tl†	25927.6	252.20	0.97%	[10]	mg/L
V†	1570037.8	638.53	0.04%	[10]	mg/L
Zn†	438920.1	429.16	0.10%	[10]	mg/L
Alx†	974609.4	745.85	0.08%	[10000]	ug/L
Bex†	11422277.2	15431.92	0.14%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	253500	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	5656	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	1770	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	29150	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	66920	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	2848000	0.00000	1.000000	
Ca	1	Lin, Calc Int	-0.0	12800	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	23750	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	22940	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	71610	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	379500	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	2510	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1364	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	7603	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	528700	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	11330	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3574	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	20500	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	4407	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1773	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1247	0.00000	1.000000	

Tl	1	Lin, Calc Int	0.0	2593	0.00000	1.000000
V	1	Lin, Calc Int	0.0	157000	0.00000	1.000000
Zn	1	Lin, Calc Int	0.0	43890	0.00000	1.000000
Alx	1	Lin, Calc Int	0.0	97.46	0.00000	1.000000
Bex	1	Lin, Calc Int	0.0	2848	0.00000	1.000000

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

Autosampler Location: 15
Date Collected: 5/8/2007 18:51:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	350474.5	91.1	%	0.05				0.06%
Yr	302075.3	94.4	%	1.25				1.32%
Ag†	502121.5	1.98	mg/L	0.004	1.98	mg/L	0.004	0.21%
QC value within limits for Ag		Recovery = 99.05%						
Al†	56196.6	9.51	mg/L	0.017	9.51	mg/L	0.017	0.17%
QC value within limits for Al		Recovery = 95.10%						
As†	17400.8	9.86	mg/L	0.041	9.86	mg/L	0.041	0.41%
QC value within limits for As		Recovery = 98.64%						
B_†	145618.4	4.97	mg/L	0.001	4.97	mg/L	0.001	0.02%
QC value within limits for B_		Recovery = 99.47%						
Ba†	663916.3	9.93	mg/L	0.011	9.93	mg/L	0.011	0.11%
QC value within limits for Ba		Recovery = 99.26%						
Be†	11274685.9	3.96	mg/L	0.000	3.96	mg/L	0.000	0.00%
QC value within limits for Be		Recovery = 98.98%						
Ca†	1275045.5	99.6	mg/L	0.40	99.6	mg/L	0.40	0.41%
QC value within limits for Ca		Recovery = 99.61%						
Cd†	117894.0	4.87	mg/L	0.006	4.87	mg/L	0.006	0.12%
QC value within limits for Cd		Recovery = 97.38%						
Co†	227554.4	9.92	mg/L	0.006	9.92	mg/L	0.006	0.06%
QC value within limits for Co		Recovery = 99.18%						
Cr†	708009.8	9.89	mg/L	0.009	9.89	mg/L	0.009	0.10%
QC value within limits for Cr		Recovery = 98.86%						
Cu†	3752683.1	9.89	mg/L	0.024	9.89	mg/L	0.024	0.24%
QC value within limits for Cu		Recovery = 98.93%						
Fe†	24865.7	9.91	mg/L	0.018	9.91	mg/L	0.018	0.19%
QC value within limits for Fe		Recovery = 99.10%						
K†	135488.3	99.4	mg/L	0.44	99.4	mg/L	0.44	0.44%
QC value within limits for K		Recovery = 99.35%						
Mg†	756996.1	99.6	mg/L	0.35	99.6	mg/L	0.35	0.35%
QC value within limits for Mg		Recovery = 99.58%						
Mn†	5243909.3	9.92	mg/L	0.008	9.92	mg/L	0.008	0.08%
QC value within limits for Mn		Recovery = 99.19%						
Mo†	112218.5	9.91	mg/L	0.026	9.91	mg/L	0.026	0.26%
QC value within limits for Mo		Recovery = 99.07%						
Na†	353895.7	99.0	mg/L	0.35	99.0	mg/L	0.35	0.36%
QC value within limits for Na		Recovery = 99.02%						
Ni†	203202.1	9.91	mg/L	0.024	9.91	mg/L	0.024	0.24%
QC value within limits for Ni		Recovery = 99.11%						
Pb†	43336.7	9.83	mg/L	0.019	9.83	mg/L	0.019	0.20%
QC value within limits for Pb		Recovery = 98.34%						
Sb†	17463.6	9.66	mg/L	0.051	9.66	mg/L	0.051	0.53%
QC value within limits for Sb		Recovery = 96.61%						
Se†	12265.5	9.86	mg/L	0.026	9.86	mg/L	0.026	0.26%
QC value within limits for Se		Recovery = 98.56%						
Tl†	25592.9	9.86	mg/L	0.014	9.86	mg/L	0.014	0.15%
QC value within limits for Tl		Recovery = 98.56%						
V†	1557555.0	9.97	mg/L	0.012	9.97	mg/L	0.012	0.12%
QC value within limits for V		Recovery = 99.71%						
Zn†	434567.1	9.84	mg/L	0.010	9.84	mg/L	0.010	0.10%
QC value within limits for Zn		Recovery = 98.41%						
Alx†	963866.1	9890	ug/L	7.0	9.89	mg/L	0.007	0.07%
QC value within limits for Alx		Recovery = 98.90%						
Bex†	11274685.9	3960	ug/L	0.1	3.96	mg/L	0.000	0.00%
QC value within limits for Bex		Recovery = 98.95%						

All analyte(s) passed QC.

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

Autosampler Location: 9
Date Collected: 5/8/2007 18:54:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LINEARITY

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	338410.9	88.0	%	1.08				1.23%
Yr	291325.1	91.0	%	2.01				2.21%
Agt	-7163.4	-0.0283	mg/L	0.00051	-0.0283	mg/L	0.00051	1.81%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-2.6	-0.00050	mg/L	0.000041	-0.00050	mg/L	0.000041	8.30%
QC value within limits for Al	Recovery = Not calculated							
Ast	-138.0	-0.0780	mg/L	0.00143	-0.0780	mg/L	0.00143	1.83%
QC value within limits for As	Recovery = Not calculated							
B_t	666.7	0.0229	mg/L	0.00140	0.0229	mg/L	0.00140	6.10%
QC value within limits for B_	Recovery = Not calculated							
Bat	94.8	0.00141	mg/L	0.000149	0.00141	mg/L	0.000149	10.56%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-1144.4	-0.00040	mg/L	0.000002	-0.00040	mg/L	0.000002	0.44%
QC value within limits for Be	Recovery = Not calculated							
Cat	3757020.9	294	mg/L	7.0	294	mg/L	7.0	2.39%
QC value within limits for Ca	Recovery = 97.83%							
Cdt	-23.4	0.00008	mg/L	0.000063	0.00008	mg/L	0.000063	75.86%
QC value within limits for Cd	Recovery = Not calculated							
Cot	48.7	0.00212	mg/L	0.000211	0.00212	mg/L	0.000211	9.96%
QC value within limits for Co	Recovery = Not calculated							
Crt	127.8	0.00178	mg/L	0.000156	0.00178	mg/L	0.000156	8.74%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-4685.5	-0.0123	mg/L	0.00034	-0.0123	mg/L	0.00034	2.72%
QC value within limits for Cu	Recovery = Not calculated							
Fet	248365.6	98.9	mg/L	0.76	98.9	mg/L	0.76	0.77%
QC value within limits for Fe	Recovery = 98.94%							
Kt	415550.5	305	mg/L	6.3	305	mg/L	6.3	2.06%
QC value within limits for K	Recovery = 101.57%							
Mgt	1420831.4	187	mg/L	4.8	187	mg/L	4.8	2.54%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	1894.2	0.00358	mg/L	0.000099	0.00358	mg/L	0.000099	2.76%
QC value within limits for Mn	Recovery = Not calculated							
Mot	8.8	0.00078	mg/L	0.000093	0.00078	mg/L	0.000093	11.97%
QC value within limits for Mo	Recovery = Not calculated							
Nat	1062276.4	297	mg/L	7.4	297	mg/L	7.4	2.49%
QC value within limits for Na	Recovery = 99.08%							
Nit	13.3	0.00064	mg/L	0.000400	0.00064	mg/L	0.000400	62.41%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-15.6	-0.00355	mg/L	0.000752	-0.00355	mg/L	0.000752	21.19%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	22.4	0.0126	mg/L	0.00364	0.0126	mg/L	0.00364	28.84%
QC value within limits for Sb	Recovery = Not calculated							
Set	-303.3	-0.0100	mg/L	0.00327	-0.0100	mg/L	0.00327	32.56%
QC value within limits for Se	Recovery = Not calculated							
Tlt	52.6	-0.0857	mg/L	0.00540	-0.0857	mg/L	0.00540	6.30%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-959.2	-0.00246	mg/L	0.000073	-0.00246	mg/L	0.000073	2.97%
QC value within limits for V	Recovery = Not calculated							
Znt	1052.8	0.0240	mg/L	0.00024	0.0240	mg/L	0.00024	1.02%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	439.6	4.51	ug/L	1.195	0.00451	mg/L	0.001195	26.49%
QC value within limits for Alx	Recovery = Not calculated							
Bext	-1144.4	-0.402	ug/L	0.0018	-0.00040	mg/L	0.000002	0.44%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 10
Date Collected: 5/8/2007 18:58:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	345800.0	89.9	%	0.00				0.00%
Yr	296517.7	92.6	%	0.08				0.08%
Agt	-7366.0	-0.0291	mg/L	0.00010	-0.0291	mg/L	0.00010	0.33%
QC value within limits for Ag	Recovery = Not calculated							
Alt	1410414.3	249	mg/L	0.3	249	mg/L	0.3	0.12%
QC value within limits for Al	Recovery = 99.74%							
Ast	-379.3	-0.214	mg/L	0.0043	-0.214	mg/L	0.0043	2.02%
QC value within limits for As	Recovery = Not calculated							
B_t	2319.7	0.0796	mg/L	0.00046	0.0796	mg/L	0.00046	0.57%
QC value within limits for B_	Recovery = Not calculated							
Bat	132.5	0.00198	mg/L	0.000035	0.00198	mg/L	0.000035	1.78%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-1090.4	-0.00038	mg/L	0.000008	-0.00038	mg/L	0.000008	2.04%
QC value within limits for Be	Recovery = Not calculated							
Cat	3264720.7	255	mg/L	1.1	255	mg/L	1.1	0.42%
QC value within limits for Ca	Recovery = 102.02%							
Cdt	-33.1	0.00153	mg/L	0.000010	0.00153	mg/L	0.000010	0.65%
QC value within limits for Cd	Recovery = Not calculated							
Cot	32.9	0.00144	mg/L	0.000580	0.00144	mg/L	0.000580	40.40%
QC value within limits for Co	Recovery = Not calculated							
Crt	-42.1	-0.00059	mg/L	0.000205	-0.00059	mg/L	0.000205	34.82%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-4903.5	-0.0129	mg/L	0.00017	-0.0129	mg/L	0.00017	1.34%
QC value within limits for Cu	Recovery = Not calculated							
Fet	251753.7	100	mg/L	0.1	100	mg/L	0.1	0.13%
QC value within limits for Fe	Recovery = 100.29%							
Kt	349.9	0.257	mg/L	0.0159	0.257	mg/L	0.0159	6.21%
QC value within limits for K	Recovery = Not calculated							
Mgt	1829983.7	241	mg/L	0.7	241	mg/L	0.7	0.31%
QC value within limits for Mg	Recovery = 96.33%							
Mnt	1582.9	0.00299	mg/L	0.000020	0.00299	mg/L	0.000020	0.68%
QC value within limits for Mn	Recovery = Not calculated							
Mot	-15.1	-0.00133	mg/L	0.000766	-0.00133	mg/L	0.000766	57.44%
QC value within limits for Mo	Recovery = Not calculated							
Nat	391.7	0.110	mg/L	0.0027	0.110	mg/L	0.0027	2.45%
QC value within limits for Na	Recovery = Not calculated							
Nit	-13.3	-0.00066	mg/L	0.000271	-0.00066	mg/L	0.000271	41.34%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-171.9	-0.0390	mg/L	0.00058	-0.0390	mg/L	0.00058	1.48%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	21.1	0.0119	mg/L	0.00281	0.0119	mg/L	0.00281	23.55%
QC value within limits for Sb	Recovery = Not calculated							
Set	-325.0	-0.0242	mg/L	0.00271	-0.0242	mg/L	0.00271	11.20%
QC value within limits for Se	Recovery = Not calculated							
Tlt	43.4	-0.0754	mg/L	0.00557	-0.0754	mg/L	0.00557	7.39%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-993.7	-0.00264	mg/L	0.000401	-0.00264	mg/L	0.000401	15.20%
QC value within limits for V	Recovery = Not calculated							
Znt	889.0	0.0203	mg/L	0.00018	0.0203	mg/L	0.00018	0.91%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	-1090.4	-0.383	ug/L	0.0078	-0.00038	mg/L	0.000008	2.03%
QC value within limits for Bex	Recovery = Not calculated							

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

Sequence No.: 6 **Autosampler Location: 11**
Sample ID: ICSAB **Date Collected: 5/8/2007 19:02:24**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	346434.1	90.1	%	0.48				0.53%
Yr	297392.9	92.9	%	0.92				0.99%
Ag†	45955.4	0.181	mg/L	0.0002	0.181	mg/L	0.0002	0.13%
QC value less than the lower limit for Ag Recovery = 36.26%								
Al†	1400531.7	248	mg/L	3.7	248	mg/L	3.7	1.48%
QC value within limits for Al Recovery = 99.04%								
As†	-382.4	-0.215	mg/L	0.0044	-0.215	mg/L	0.0044	2.05%
QC value less than the lower limit for As Recovery = Not calculated								
B_†	2184.0	0.0744	mg/L	0.00058	0.0744	mg/L	0.00058	0.78%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	17623.3	0.263	mg/L	0.0021	0.263	mg/L	0.0021	0.78%
QC value within limits for Ba Recovery = 105.39%								
Be†	721501.3	0.253	mg/L	0.0007	0.253	mg/L	0.0007	0.30%
QC value within limits for Be Recovery = 101.33%								
Ca†	3244457.7	253	mg/L	4.6	253	mg/L	4.6	1.81%
QC value within limits for Ca Recovery = 101.38%								
Cd†	11928.0	0.506	mg/L	0.0019	0.506	mg/L	0.0019	0.37%
QC value within limits for Cd Recovery = 101.21%								
Co†	5596.7	0.244	mg/L	0.0011	0.244	mg/L	0.0011	0.45%
QC value within limits for Co Recovery = 97.57%								
Cr†	17980.0	0.251	mg/L	0.0007	0.251	mg/L	0.0007	0.26%
QC value within limits for Cr Recovery = 100.43%								
Cu†	95989.3	0.253	mg/L	0.0011	0.253	mg/L	0.0011	0.45%
QC value within limits for Cu Recovery = 101.26%								
Fe†	250488.0	99.8	mg/L	0.09	99.8	mg/L	0.09	0.09%
QC value within limits for Fe Recovery = 99.78%								
K†	153.6	0.113	mg/L	0.0068	0.113	mg/L	0.0068	6.07%
QC value within limits for K Recovery = Not calculated								
Mg†	1820868.1	240	mg/L	3.9	240	mg/L	3.9	1.61%
QC value within limits for Mg Recovery = 95.85%								
Mn†	140047.8	0.265	mg/L	0.0013	0.265	mg/L	0.0013	0.48%
QC value within limits for Mn Recovery = 105.96%								
Mo†	-24.1	-0.00212	mg/L	0.000238	-0.00212	mg/L	0.000238	11.22%
QC value within limits for Mo Recovery = Not calculated								
Na†	246.8	0.0691	mg/L	0.00057	0.0691	mg/L	0.00057	0.82%
QC value within limits for Na Recovery = Not calculated								
Ni†	9810.8	0.479	mg/L	0.0016	0.479	mg/L	0.0016	0.33%
QC value within limits for Ni Recovery = 95.73%								
Pb†	2049.8	0.465	mg/L	0.0018	0.465	mg/L	0.0018	0.39%
QC value within limits for Pb Recovery = 93.03%								
Sb†	25.0	0.00949	mg/L	0.003388	0.00949	mg/L	0.003388	35.70%
QC value within limits for Sb Recovery = Not calculated								
Se†	-337.9	-0.0358	mg/L	0.00647	-0.0358	mg/L	0.00647	18.07%
QC value within limits for Se Recovery = Not calculated								
Tl†	28.6	-0.0791	mg/L	0.00051	-0.0791	mg/L	0.00051	0.65%
QC value less than the lower limit for Tl Recovery = Not calculated								
V†	38874.1	0.252	mg/L	0.0010	0.252	mg/L	0.0010	0.40%
QC value within limits for V Recovery = 100.98%								
Zn†	24192.8	0.548	mg/L	0.0028	0.548	mg/L	0.0028	0.51%
QC value within limits for Zn Recovery = 109.66%								
Alx†	Saturated2							
Unable to evaluate QC.								
Bex†	721501.3	253	ug/L	0.7	0.253	mg/L	0.0007	0.30%
QC value within limits for Bex Recovery = 101.32%								

QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: Wash
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 19:06:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	388263.8	101	%	1.3				1.26%
Yr	322110.6	101	%	1.1				1.10%
Ag†	-3.4	-0.00001	mg/L	0.000012	-0.00001	mg/L	0.000012	92.33%
QC value within limits for Ag	Recovery = Not calculated							
Al†	193.3	0.0342	mg/L	0.00270	0.0342	mg/L	0.00270	7.91%
QC value within limits for Al	Recovery = Not calculated							
As†	4.4	0.00251	mg/L	0.000882	0.00251	mg/L	0.000882	35.15%
QC value within limits for As	Recovery = Not calculated							
B_†	271.0	0.00930	mg/L	0.000054	0.00930	mg/L	0.000054	0.58%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-2.1	-0.00003	mg/L	0.000023	-0.00003	mg/L	0.000023	74.94%
QC value within limits for Ba	Recovery = Not calculated							
Be†	289.4	0.00010	mg/L	0.000001	0.00010	mg/L	0.000001	0.82%
QC value within limits for Be	Recovery = Not calculated							
Ca†	312.8	0.0244	mg/L	0.00464	0.0244	mg/L	0.00464	18.98%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-1.7	-0.00010	mg/L	0.000041	-0.00010	mg/L	0.000041	39.38%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-2.3	-0.00010	mg/L	0.000052	-0.00010	mg/L	0.000052	52.11%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-14.9	-0.00021	mg/L	0.000127	-0.00021	mg/L	0.000127	60.77%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-60.2	-0.00016	mg/L	0.000094	-0.00016	mg/L	0.000094	58.98%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	33.8	0.0135	mg/L	0.00190	0.0135	mg/L	0.00190	14.07%
QC value within limits for Fe	Recovery = Not calculated							
K†	8.6	0.00631	mg/L	0.017633	0.00631	mg/L	0.017633	279.46%
QC value within limits for K	Recovery = Not calculated							
Mg†	195.5	0.0257	mg/L	0.00654	0.0257	mg/L	0.00654	25.40%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-29.0	-0.00005	mg/L	0.000013	-0.00005	mg/L	0.000013	24.42%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	0.3	0.00003	mg/L	0.000373	0.00003	mg/L	0.000373	>999.9%
QC value within limits for Mo	Recovery = Not calculated							
Na†	44.7	0.0125	mg/L	0.01845	0.0125	mg/L	0.01845	147.49%
QC value within limits for Na	Recovery = Not calculated							
Ni†	1.5	0.00007	mg/L	0.000013	0.00007	mg/L	0.000013	17.27%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	9.2	0.00208	mg/L	0.000739	0.00208	mg/L	0.000739	35.57%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	2.7	0.00151	mg/L	0.000281	0.00151	mg/L	0.000281	18.60%
QC value within limits for Sb	Recovery = Not calculated							
Se†	-3.5	-0.00281	mg/L	0.002004	-0.00281	mg/L	0.002004	71.35%
QC value within limits for Se	Recovery = Not calculated							
Tl†	12.2	0.00471	mg/L	0.002007	0.00471	mg/L	0.002007	42.64%
QC value within limits for Tl	Recovery = Not calculated							
V†	9.9	0.00006	mg/L	0.000025	0.00006	mg/L	0.000025	40.36%
QC value within limits for V	Recovery = Not calculated							
Zn†	9.3	0.00021	mg/L	0.000074	0.00021	mg/L	0.000074	34.95%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	768.7	7.89	ug/L	4.704	0.00789	mg/L	0.004704	59.63%
QC value within limits for Alx	Recovery = Not calculated							
Bex†	289.4	0.102	ug/L	0.0008	0.00010	mg/L	0.000001	0.83%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 12
Date Collected: 5/8/2007 19:09:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	393624.7	102	%	0.4				0.37%
Yr	324342.9	101	%	0.0				0.02%
Agt	242059.9	0.955	mg/L	0.0082	0.955	mg/L	0.0082	0.86%
QC value within limits for Ag	Recovery = 95.50%							
Alt	5698.5	0.966	mg/L	0.0029	0.966	mg/L	0.0029	0.30%
QC value within limits for Al	Recovery = 96.64%							
Ast	1721.2	0.976	mg/L	0.0004	0.976	mg/L	0.0004	0.04%
QC value within limits for As	Recovery = 97.57%							
B_t	26634.7	0.911	mg/L	0.0035	0.911	mg/L	0.0035	0.39%
QC value within limits for B_	Recovery = 91.14%							
Bat	69067.3	1.03	mg/L	0.005	1.03	mg/L	0.005	0.53%
QC value within limits for Ba	Recovery = 103.26%							
Bet	2754585.8	0.967	mg/L	0.0015	0.967	mg/L	0.0015	0.16%
QC value within limits for Be	Recovery = 96.72%							
Cat	13205.5	1.03	mg/L	0.003	1.03	mg/L	0.003	0.25%
QC value within limits for Ca	Recovery = 103.16%							
Cdt	22887.5	0.954	mg/L	0.0064	0.954	mg/L	0.0064	0.67%
QC value within limits for Cd	Recovery = 95.44%							
Cot	23639.6	1.03	mg/L	0.010	1.03	mg/L	0.010	0.95%
QC value within limits for Co	Recovery = 103.04%							
Crt	71519.9	0.999	mg/L	0.0071	0.999	mg/L	0.0071	0.71%
QC value within limits for Cr	Recovery = 99.87%							
Cut	363689.6	0.959	mg/L	0.0021	0.959	mg/L	0.0021	0.22%
QC value within limits for Cu	Recovery = 95.88%							
Fet	2580.9	1.03	mg/L	0.001	1.03	mg/L	0.001	0.13%
QC value within limits for Fe	Recovery = 102.86%							
Kt	13016.0	9.54	mg/L	0.031	9.54	mg/L	0.031	0.32%
QC value within limits for K	Recovery = 95.44%							
Mgt	8257.0	1.09	mg/L	0.004	1.09	mg/L	0.004	0.36%
QC value within limits for Mg	Recovery = 108.73%							
Mnt	545340.5	1.03	mg/L	0.002	1.03	mg/L	0.002	0.15%
QC value within limits for Mn	Recovery = 103.15%							
Mot	10842.4	0.957	mg/L	0.0013	0.957	mg/L	0.0013	0.14%
QC value within limits for Mo	Recovery = 95.72%							
Nat	3668.7	1.03	mg/L	0.010	1.03	mg/L	0.010	0.96%
QC value within limits for Na	Recovery = 102.65%							
Nit	21281.9	1.04	mg/L	0.012	1.04	mg/L	0.012	1.11%
QC value within limits for Ni	Recovery = 103.80%							
Pbt	4593.8	1.04	mg/L	0.002	1.04	mg/L	0.002	0.17%
QC value within limits for Pb	Recovery = 104.25%							
Sbt	1714.6	0.948	mg/L	0.0030	0.948	mg/L	0.0030	0.32%
QC value within limits for Sb	Recovery = 94.80%							
Set	1155.9	0.929	mg/L	0.0037	0.929	mg/L	0.0037	0.40%
QC value within limits for Se	Recovery = 92.91%							
Tlt	2687.5	1.04	mg/L	0.003	1.04	mg/L	0.003	0.28%
QC value within limits for Tl	Recovery = 103.84%							
Vt	151809.2	0.972	mg/L	0.0086	0.972	mg/L	0.0086	0.88%
QC value within limits for V	Recovery = 97.20%							
Znt	44681.0	1.01	mg/L	0.009	1.01	mg/L	0.009	0.86%
QC value within limits for Zn	Recovery = 101.17%							
Alxt	93309.2	957	ug/L	2.6	0.957	mg/L	0.0026	0.28%
QC value within limits for Alx	Recovery = 95.74%							
Bext	2754585.8	967	ug/L	1.5	0.967	mg/L	0.0015	0.16%
QC value within limits for Bex	Recovery = 96.70%							

All analyte(s) passed QC.

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

Autosampler Location: 4
Date Collected: 5/8/2007 19:14:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	361913.6	94.1	%	0.07				0.08%
Yr	307546.0	96.1	%	0.11				0.12%
Agt	253058.6	0.998	mg/L	0.0028	0.998	mg/L	0.0028	0.28%
QC value within limits for Ag		Recovery = 99.84%						
Alt	28454.4	4.82	mg/L	0.035	4.82	mg/L	0.035	0.72%
QC value within limits for Al		Recovery = 96.31%						
Ast	8684.5	4.92	mg/L	0.001	4.92	mg/L	0.001	0.01%
QC value within limits for As		Recovery = 98.47%						
B_t	72119.8	2.46	mg/L	0.010	2.46	mg/L	0.010	0.42%
QC value within limits for B_		Recovery = 98.52%						
Bat	339641.7	5.08	mg/L	0.015	5.08	mg/L	0.015	0.30%
QC value within limits for Ba		Recovery = 101.56%						
Bet	5833279.1	2.05	mg/L	0.010	2.05	mg/L	0.010	0.46%
QC value within limits for Be		Recovery = 102.42%						
Cat	655069.9	51.2	mg/L	0.10	51.2	mg/L	0.10	0.19%
QC value within limits for Ca		Recovery = 102.35%						
Cdt	60089.0	2.48	mg/L	0.010	2.48	mg/L	0.010	0.41%
QC value within limits for Cd		Recovery = 99.32%						
Cot	116312.7	5.07	mg/L	0.008	5.07	mg/L	0.008	0.15%
QC value within limits for Co		Recovery = 101.39%						
Crt	360293.6	5.03	mg/L	0.008	5.03	mg/L	0.008	0.15%
QC value within limits for Cr		Recovery = 100.62%						
Cut	1893160.9	4.99	mg/L	0.020	4.99	mg/L	0.020	0.40%
QC value within limits for Cu		Recovery = 99.81%						
Fet	12888.8	5.14	mg/L	0.022	5.14	mg/L	0.022	0.42%
QC value within limits for Fe		Recovery = 102.73%						
Kt	66623.4	48.9	mg/L	0.51	48.9	mg/L	0.51	1.04%
QC value within limits for K		Recovery = 97.71%						
Mgt	395787.5	52.1	mg/L	0.06	52.1	mg/L	0.06	0.11%
QC value within limits for Mg		Recovery = 104.13%						
Mnt	2708533.7	5.12	mg/L	0.016	5.12	mg/L	0.016	0.31%
QC value within limits for Mn		Recovery = 102.47%						
Mot	56805.7	5.02	mg/L	0.015	5.02	mg/L	0.015	0.29%
QC value within limits for Mo		Recovery = 100.30%						
Nat	179345.4	50.2	mg/L	0.12	50.2	mg/L	0.12	0.23%
QC value within limits for Na		Recovery = 100.36%						
Nit	104778.3	5.11	mg/L	0.009	5.11	mg/L	0.009	0.18%
QC value within limits for Ni		Recovery = 102.21%						
Pbt	22536.8	5.11	mg/L	0.004	5.11	mg/L	0.004	0.07%
QC value within limits for Pb		Recovery = 102.28%						
Sbt	8858.6	4.90	mg/L	0.014	4.90	mg/L	0.014	0.28%
QC value within limits for Sb		Recovery = 98.00%						
Set	6346.5	5.10	mg/L	0.003	5.10	mg/L	0.003	0.05%
QC value within limits for Se		Recovery = 102.00%						
Tlt	13564.4	5.22	mg/L	0.004	5.22	mg/L	0.004	0.07%
QC value within limits for Tl		Recovery = 104.48%						
Vt	790050.8	5.06	mg/L	0.012	5.06	mg/L	0.012	0.23%
QC value within limits for V		Recovery = 101.15%						
Znt	225935.2	5.12	mg/L	0.012	5.12	mg/L	0.012	0.23%
QC value within limits for Zn		Recovery = 102.33%						
Alxt	485373.1	4980	ug/L	18.8	4.98	mg/L	0.019	0.38%
QC value within limits for Alx		Recovery = 99.60%						
Bext	5833279.1	2050	ug/L	9.5	2.05	mg/L	0.010	0.46%
QC value within limits for Bex		Recovery = 102.39%						

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 19:18:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	385905.6	100	%	0.1				0.06%
Yr	319812.1	99.9	%	0.94				0.94%
Ag†	-23.9	-0.00009	mg/L	0.000211	-0.00009	mg/L	0.000211	223.85%
QC value within limits for Ag		Recovery = Not calculated						
Al†	29.0	0.00508	mg/L	0.012495	0.00508	mg/L	0.012495	245.88%
QC value within limits for Al		Recovery = Not calculated						
As†	30.6	0.0173	mg/L	0.00210	0.0173	mg/L	0.00210	12.14%
QC value within limits for As		Recovery = Not calculated						
B_†	534.7	0.0183	mg/L	0.00103	0.0183	mg/L	0.00103	5.61%
QC value within limits for B_		Recovery = Not calculated						
Ba†	4.8	0.00007	mg/L	0.000000	0.00007	mg/L	0.000000	0.18%
QC value within limits for Ba		Recovery = Not calculated						
Be†	228.1	0.00008	mg/L	0.000021	0.00008	mg/L	0.000021	26.39%
QC value within limits for Be		Recovery = Not calculated						
Ca†	1.6	0.00013	mg/L	0.000897	0.00013	mg/L	0.000897	698.08%
QC value within limits for Ca		Recovery = Not calculated						
Cd†	6.7	0.00005	mg/L	0.000050	0.00005	mg/L	0.000050	106.91%
QC value within limits for Cd		Recovery = Not calculated						
Co†	-2.1	-0.00009	mg/L	0.000032	-0.00009	mg/L	0.000032	34.29%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-13.5	-0.00019	mg/L	0.000121	-0.00019	mg/L	0.000121	64.16%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-12.0	-0.00003	mg/L	0.000263	-0.00003	mg/L	0.000263	815.75%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	4.1	0.00165	mg/L	0.001010	0.00165	mg/L	0.001010	61.06%
QC value within limits for Fe		Recovery = Not calculated						
K†	87.6	0.0643	mg/L	0.04197	0.0643	mg/L	0.04197	65.31%
QC value within limits for K		Recovery = Not calculated						
Mg†	8.2	0.00108	mg/L	0.000817	0.00108	mg/L	0.000817	75.95%
QC value within limits for Mg		Recovery = Not calculated						
Mn†	39.6	0.00007	mg/L	0.000007	0.00007	mg/L	0.000007	8.87%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	13.5	0.00119	mg/L	0.000140	0.00119	mg/L	0.000140	11.73%
QC value within limits for Mo		Recovery = Not calculated						
Na†	113.2	0.0317	mg/L	0.01051	0.0317	mg/L	0.01051	33.18%
QC value within limits for Na		Recovery = Not calculated						
Ni†	0.1	0.00000	mg/L	0.000381	0.00000	mg/L	0.000381	>999.9%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	14.1	0.00321	mg/L	0.001388	0.00321	mg/L	0.001388	43.31%
QC value within limits for Pb		Recovery = Not calculated						
Sb†	10.2	0.00576	mg/L	0.001013	0.00576	mg/L	0.001013	17.59%
QC value within limits for Sb		Recovery = Not calculated						
Se†	0.1	0.00008	mg/L	0.006709	0.00008	mg/L	0.006709	>999.9%
QC value within limits for Se		Recovery = Not calculated						
Tl†	15.1	0.00584	mg/L	0.000965	0.00584	mg/L	0.000965	16.54%
QC value within limits for Tl		Recovery = Not calculated						
V†	-7.8	-0.00005	mg/L	0.000115	-0.00005	mg/L	0.000115	230.18%
QC value within limits for V		Recovery = Not calculated						
Zn†	19.0	0.00043	mg/L	0.000010	0.00043	mg/L	0.000010	2.40%
QC value within limits for Zn		Recovery = Not calculated						
Alx†	45.0	0.462	ug/L	0.0849	0.00046	mg/L	0.000085	18.38%
QC value within limits for Alx		Recovery = Not calculated						
Bex†	228.1	0.0801	ug/L	0.02115	0.00008	mg/L	0.000021	26.41%
QC value within limits for Bex		Recovery = Not calculated						

All analyte(s) passed QC.

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

Autosampler Location: 20
Date Collected: 5/8/2007 19:21:58
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	391897.6	102	%	0.1				0.14%
Yr	324162.2	101	%	0.8				0.84%
Ag†	2423.6	0.00956	mg/L	0.000445	0.00956	mg/L	0.000445	4.66%
QC value within limits for Ag		Recovery = 95.61%						
Al†	243.9	0.0423	mg/L	0.00305	0.0423	mg/L	0.00305	7.21%
QC value within limits for Al		Recovery = 84.59%						
As†	178.2	0.101	mg/L	0.0012	0.101	mg/L	0.0012	1.23%
QC value within limits for As		Recovery = 100.68%						
B_†	1679.7	0.0575	mg/L	0.00028	0.0575	mg/L	0.00028	0.49%
QC value within limits for B_		Recovery = 115.02%						
Ba†	1323.2	0.0198	mg/L	0.00009	0.0198	mg/L	0.00009	0.44%
QC value within limits for Ba		Recovery = 98.86%						
Be†	3066.3	0.00108	mg/L	0.000008	0.00108	mg/L	0.000008	0.76%
QC value within limits for Be		Recovery = 107.78%						
Ca†	12832.1	1.00	mg/L	0.006	1.00	mg/L	0.006	0.56%
QC value within limits for Ca		Recovery = 100.25%						
Cd†	151.1	0.00519	mg/L	0.000188	0.00519	mg/L	0.000188	3.62%
QC value within limits for Cd		Recovery = 103.73%						
Co†	1123.1	0.0490	mg/L	0.00034	0.0490	mg/L	0.00034	0.69%
QC value within limits for Co		Recovery = 97.91%						
Cr†	683.1	0.00954	mg/L	0.000053	0.00954	mg/L	0.000053	0.55%
QC value within limits for Cr		Recovery = 95.39%						
Cu†	3458.9	0.00915	mg/L	0.000123	0.00915	mg/L	0.000123	1.35%
QC value within limits for Cu		Recovery = 91.47%						
Fe†	52.4	0.0209	mg/L	0.00004	0.0209	mg/L	0.00004	0.19%
QC value within limits for Fe		Recovery = 104.48%						
K†	1259.0	0.923	mg/L	0.0419	0.923	mg/L	0.0419	4.53%
QC value within limits for K		Recovery = 92.32%						
Mg†	799.5	0.105	mg/L	0.0005	0.105	mg/L	0.0005	0.51%
QC value within limits for Mg		Recovery = 105.19%						
Mn†	1125.6	0.00213	mg/L	0.000005	0.00213	mg/L	0.000005	0.23%
QC value within limits for Mn		Recovery = 106.46%						
Mo†	218.8	0.0193	mg/L	0.00007	0.0193	mg/L	0.00007	0.34%
QC value within limits for Mo		Recovery = 96.57%						
Na†	3521.7	0.985	mg/L	0.0212	0.985	mg/L	0.0212	2.15%
QC value within limits for Na		Recovery = 98.54%						
Ni†	413.9	0.0202	mg/L	0.00012	0.0202	mg/L	0.00012	0.59%
QC value within limits for Ni		Recovery = 100.81%						
Pb†	101.0	0.0229	mg/L	0.00042	0.0229	mg/L	0.00042	1.84%
QC value within limits for Pb		Recovery = 114.64%						
Sb†	80.4	0.0452	mg/L	0.00236	0.0452	mg/L	0.00236	5.22%
QC value within limits for Sb		Recovery = 90.30%						
Se†	114.8	0.0921	mg/L	0.00317	0.0921	mg/L	0.00317	3.45%
QC value within limits for Se		Recovery = 92.06%						
Tl†	285.0	0.109	mg/L	0.0001	0.109	mg/L	0.0001	0.09%
QC value within limits for Tl		Recovery = 109.42%						
V†	324.7	0.00212	mg/L	0.000254	0.00212	mg/L	0.000254	11.99%
QC value within limits for V		Recovery = 106.02%						
Zn†	870.5	0.0197	mg/L	0.00008	0.0197	mg/L	0.00008	0.39%
QC value within limits for Zn		Recovery = 98.55%						
Alx†	4603.3	47.2	ug/L	0.29	0.0472	mg/L	0.00029	0.61%
QC value within limits for Alx		Recovery = 94.47%						
Bex†	3066.3	1.08	ug/L	0.008	0.00108	mg/L	0.000008	0.76%
QC value within limits for Bex		Recovery = 107.65%						

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: WASH
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 19:25:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: WASH

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: WASH

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	393740.1	102	%	0.7				0.72%
Yr	328110.9	102	%	0.1				0.07%
Agt	-26.3	-0.00010	mg/L	0.000166	-0.00010	mg/L	0.000166	159.57%
Alt	-11.3	-0.00201	mg/L	0.004318	-0.00201	mg/L	0.004318	215.07%
Ast	9.0	0.00507	mg/L	0.001225	0.00507	mg/L	0.001225	24.17%
B_t	294.7	0.0101	mg/L	0.00003	0.0101	mg/L	0.00003	0.30%
Bat	3.0	0.00005	mg/L	0.000064	0.00005	mg/L	0.000064	142.41%
Bet	291.6	0.00010	mg/L	0.000013	0.00010	mg/L	0.000013	13.07%
Cat	-29.1	-0.00227	mg/L	0.000049	-0.00227	mg/L	0.000049	2.17%
Cdt	-0.8	-0.00010	mg/L	0.000106	-0.00010	mg/L	0.000106	103.53%
Cot	0.5	0.00002	mg/L	0.000084	0.00002	mg/L	0.000084	378.24%
Crt	-20.4	-0.00029	mg/L	0.000059	-0.00029	mg/L	0.000059	20.74%
Cut	-106.1	-0.00028	mg/L	0.000160	-0.00028	mg/L	0.000160	57.20%
Fet	7.4	0.00293	mg/L	0.000347	0.00293	mg/L	0.000347	11.84%
Kt	17.8	0.0130	mg/L	0.03499	0.0130	mg/L	0.03499	268.69%
Mgt	0.5	0.00007	mg/L	0.000263	0.00007	mg/L	0.000263	386.51%
Mnt	18.4	0.00003	mg/L	0.000003	0.00003	mg/L	0.000003	9.83%
Mot	3.3	0.00029	mg/L	0.000174	0.00029	mg/L	0.000174	59.22%
Nat	58.9	0.0165	mg/L	0.00369	0.0165	mg/L	0.00369	22.42%
Nit	1.0	0.00005	mg/L	0.000305	0.00005	mg/L	0.000305	620.55%
Pbt	6.5	0.00148	mg/L	0.000298	0.00148	mg/L	0.000298	20.14%
Sbt	6.2	0.00352	mg/L	0.002055	0.00352	mg/L	0.002055	58.34%
Set	-5.5	-0.00440	mg/L	0.002231	-0.00440	mg/L	0.002231	50.68%
Tlt	13.0	0.00501	mg/L	0.000471	0.00501	mg/L	0.000471	9.41%
Vt	6.2	0.00004	mg/L	0.000002	0.00004	mg/L	0.000002	4.45%
Znt	0.1	0.00000	mg/L	0.000051	0.00000	mg/L	0.000051	>999.9%
Alxt	26.4	0.271	ug/L	0.0714	0.00027	mg/L	0.000071	26.35%
Bext	291.6	0.102	ug/L	0.0134	0.00010	mg/L	0.000013	13.05%

Sequence No.: 13
Sample ID: MRL6010
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 5/8/2007 19:29:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL6010

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: MRL6010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	399005.6	104	%	0.7				0.69%
Yr	332192.1	104	%	0.1				0.10%
Agt	2396.8	0.00946	mg/L	0.000056	0.00946	mg/L	0.000056	0.60%
Alt	308.2	0.0537	mg/L	0.00000	0.0537	mg/L	0.00000	0.00%
Ast	176.4	0.0997	mg/L	0.00145	0.0997	mg/L	0.00145	1.46%
B_t	1587.1	0.0543	mg/L	0.00030	0.0543	mg/L	0.00030	0.55%
Bat	1346.4	0.0201	mg/L	0.00009	0.0201	mg/L	0.00009	0.43%
Bet	3201.7	0.00113	mg/L	0.000003	0.00113	mg/L	0.000003	0.24%
Cat	13314.8	1.04	mg/L	0.000	1.04	mg/L	0.000	0.01%
Cdt	151.9	0.00524	mg/L	0.000180	0.00524	mg/L	0.000180	3.43%
Cot	1169.7	0.0510	mg/L	0.00033	0.0510	mg/L	0.00033	0.65%
Crt	698.6	0.00975	mg/L	0.000059	0.00975	mg/L	0.000059	0.60%
Cut	3639.3	0.00962	mg/L	0.000092	0.00962	mg/L	0.000092	0.96%
Fet	59.8	0.0238	mg/L	0.00035	0.0238	mg/L	0.00035	1.46%
Kt	1319.3	0.967	mg/L	0.0076	0.967	mg/L	0.0076	0.79%
Mgt	817.6	0.108	mg/L	0.0005	0.108	mg/L	0.0005	0.43%
Mnt	1117.5	0.00211	mg/L	0.000026	0.00211	mg/L	0.000026	1.24%
Mot	220.8	0.0195	mg/L	0.00016	0.0195	mg/L	0.00016	0.81%
Nat	3601.8	1.01	mg/L	0.005	1.01	mg/L	0.005	0.49%
Nit	421.7	0.0205	mg/L	0.00013	0.0205	mg/L	0.00013	0.64%
Pbt	90.8	0.0206	mg/L	0.00015	0.0206	mg/L	0.00015	0.72%
Sbt	84.8	0.0476	mg/L	0.00244	0.0476	mg/L	0.00244	5.12%
Set	118.8	0.0953	mg/L	0.00089	0.0953	mg/L	0.00089	0.94%
Tlt	286.7	0.110	mg/L	0.0013	0.110	mg/L	0.0013	1.14%
Vt	319.5	0.00209	mg/L	0.000180	0.00209	mg/L	0.000180	8.64%
Znt	1071.4	0.0243	mg/L	0.00018	0.0243	mg/L	0.00018	0.76%
Alxt	4836.1	49.6	ug/L	0.31	0.0496	mg/L	0.00031	0.62%
Bext	3201.7	1.12	ug/L	0.003	0.00112	mg/L	0.000003	0.24%

Sequence No.: 14
Sample ID: MBLANK6010
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 5/8/2007 19:32:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK6010

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MBLANK6010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	394592.0	103	%	0.3				0.25%
Yr	334501.6	104	%	0.1				0.13%
Agt	-50.8	-0.00020	mg/L	0.000375	-0.00020	mg/L	0.000375	187.33%
Alt	-24.5	-0.00434	mg/L	0.004726	-0.00434	mg/L	0.004726	109.01%
Ast	6.2	0.00351	mg/L	0.000964	0.00351	mg/L	0.000964	27.47%
B_t	230.8	0.00792	mg/L	0.000109	0.00792	mg/L	0.000109	1.37%
Bat	7.1	0.00011	mg/L	0.000078	0.00011	mg/L	0.000078	73.80%
Bet	195.7	0.00007	mg/L	0.000025	0.00007	mg/L	0.000025	35.76%
Cat	407.0	0.0318	mg/L	0.00050	0.0318	mg/L	0.00050	1.58%
Cdt	-3.7	-0.00020	mg/L	0.000299	-0.00020	mg/L	0.000299	146.28%
Cot	0.7	0.00003	mg/L	0.000042	0.00003	mg/L	0.000042	132.45%
Crt	-18.5	-0.00026	mg/L	0.000027	-0.00026	mg/L	0.000027	10.58%
Cut	-112.2	-0.00030	mg/L	0.000102	-0.00030	mg/L	0.000102	34.44%
Fet	10.1	0.00403	mg/L	0.001042	0.00403	mg/L	0.001042	25.83%
Kt	-59.4	-0.0435	mg/L	0.06550	-0.0435	mg/L	0.06550	150.44%
Mgt	7.5	0.00099	mg/L	0.000483	0.00099	mg/L	0.000483	48.58%
Mnt	23.1	0.00004	mg/L	0.000009	0.00004	mg/L	0.000009	21.68%
Mot	-0.5	-0.00004	mg/L	0.000049	-0.00004	mg/L	0.000049	113.14%
Nat	246.0	0.0688	mg/L	0.00745	0.0688	mg/L	0.00745	10.82%
Nit	8.9	0.00043	mg/L	0.000203	0.00043	mg/L	0.000203	46.83%
Pbt	11.0	0.00251	mg/L	0.000285	0.00251	mg/L	0.000285	11.37%
Sbt	6.6	0.00374	mg/L	0.003012	0.00374	mg/L	0.003012	80.46%
Set	-6.2	-0.00492	mg/L	0.004355	-0.00492	mg/L	0.004355	88.45%
Tlt	21.5	0.00827	mg/L	0.000578	0.00827	mg/L	0.000578	6.99%
Vt	-2.2	-0.00002	mg/L	0.000096	-0.00002	mg/L	0.000096	635.61%
Znt	243.5	0.00554	mg/L	0.000035	0.00554	mg/L	0.000035	0.64%
Alxt	132.6	1.36	ug/L	0.050	0.00136	mg/L	0.000050	3.67%
Bext	195.7	0.0687	ug/L	0.02456	0.00007	mg/L	0.000025	35.74%

Sequence No.: 15
Sample ID: LCS
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 5/8/2007 19:36:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	378430.2	98.4	%	1.48				1.50%
Yr	318731.4	99.6	%	0.49				0.49%
Bat	65388.0	0.978	mg/L	0.0165	0.978	mg/L	0.0165	1.68%
Bet	144679.8	0.0509	mg/L	0.00037	0.0509	mg/L	0.00037	0.73%
Cat	630733.3	49.3	mg/L	0.06	49.3	mg/L	0.06	0.11%
Cdt	4892.7	0.210	mg/L	0.0041	0.210	mg/L	0.0041	1.94%
Cot	22896.2	0.998	mg/L	0.0217	0.998	mg/L	0.0217	2.17%
Crt	70507.2	0.985	mg/L	0.0209	0.985	mg/L	0.0209	2.12%
Cut	374254.4	0.987	mg/L	0.0056	0.987	mg/L	0.0056	0.57%
Fet	12559.0	5.00	mg/L	0.112	5.00	mg/L	0.112	2.23%
Kt	26020.5	19.1	mg/L	0.46	19.1	mg/L	0.46	2.43%
Mgt	155142.5	20.4	mg/L	0.50	20.4	mg/L	0.50	2.45%
Mnt	267666.8	0.506	mg/L	0.0029	0.506	mg/L	0.0029	0.58%
Mot	11085.0	0.979	mg/L	0.0163	0.979	mg/L	0.0163	1.66%
Nit	10274.3	0.501	mg/L	0.0086	0.501	mg/L	0.0086	1.72%
Pbt	4475.3	1.02	mg/L	0.021	1.02	mg/L	0.021	2.05%
Vt	154094.7	0.987	mg/L	0.0045	0.987	mg/L	0.0045	0.46%
Znt	45124.6	1.03	mg/L	0.021	1.03	mg/L	0.021	2.01%

Sequence No.: 16
Sample ID: LCSD
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 5/8/2007 19:39:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	375708.6	97.7	%	0.51				0.52%
Yr	320556.6	100	%	0.1				0.08%
Bat	65727.5	0.983	mg/L	0.0081	0.983	mg/L	0.0081	0.83%
Bet	143985.9	0.0507	mg/L	0.00002	0.0507	mg/L	0.00002	0.03%
Cat	642352.5	50.2	mg/L	0.03	50.2	mg/L	0.03	0.06%
Cdt	4937.6	0.212	mg/L	0.0009	0.212	mg/L	0.0009	0.44%
Cot	22949.3	1.00	mg/L	0.004	1.00	mg/L	0.004	0.38%
Crt	69621.9	0.972	mg/L	0.0007	0.972	mg/L	0.0007	0.07%
Cut	374294.8	0.987	mg/L	0.0002	0.987	mg/L	0.0002	0.02%
Fet	12464.0	4.97	mg/L	0.035	4.97	mg/L	0.035	0.70%
Kt	26725.4	19.6	mg/L	0.14	19.6	mg/L	0.14	0.71%
Mgt	157909.9	20.8	mg/L	0.06	20.8	mg/L	0.06	0.30%
Mnt	266789.6	0.505	mg/L	0.0005	0.505	mg/L	0.0005	0.09%
Mot	11179.4	0.987	mg/L	0.0031	0.987	mg/L	0.0031	0.32%
Nit	10325.1	0.504	mg/L	0.0064	0.504	mg/L	0.0064	1.28%
Pbt	4508.6	1.02	mg/L	0.006	1.02	mg/L	0.006	0.63%
Vt	153618.5	0.984	mg/L	0.0018	0.984	mg/L	0.0018	0.18%
Znt	45334.5	1.03	mg/L	0.006	1.03	mg/L	0.006	0.60%

Sequence No.: 17
Sample ID: 2705020861
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 5/8/2007 19:42:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020861

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020861

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	396332.4	103	%	0.1				0.12%
Yr	332348.8	104	%	0.0				0.01%
Bat	18.2	0.00027	mg/L	0.000068	0.00054	mg/L	0.000137	25.13%
Bet	273.0	0.00010	mg/L	0.000010	0.00019	mg/L	0.000019	10.12%
Cat	2227.6	0.174	mg/L	0.0002	0.348	mg/L	0.0005	0.13%
Cdt	-0.9	-0.00004	mg/L	0.000008	-0.00007	mg/L	0.000016	21.55%
Cot	-1.1	-0.00005	mg/L	0.000056	-0.00010	mg/L	0.000111	115.00%
Crt	10.0	0.00014	mg/L	0.000018	0.00028	mg/L	0.000036	13.10%
Cut	-41.3	-0.00011	mg/L	0.000134	-0.00022	mg/L	0.000268	122.95%
Fet	28.5	0.0113	mg/L	0.00045	0.0227	mg/L	0.00090	3.98%
Kt	-20.4	-0.0150	mg/L	0.02023	-0.0300	mg/L	0.04047	134.97%
Mgt	613.8	0.0807	mg/L	0.00008	0.161	mg/L	0.0002	0.10%
Mnt	568.2	0.00107	mg/L	0.000018	0.00215	mg/L	0.000036	1.67%
Mot	6.0	0.00053	mg/L	0.000209	0.00106	mg/L	0.000419	39.64%
Nit	5.4	0.00026	mg/L	0.000233	0.00052	mg/L	0.000467	89.40%
Pbt	3.7	0.00085	mg/L	0.001114	0.00170	mg/L	0.002229	131.12%
Vt	99.4	0.00063	mg/L	0.000059	0.00127	mg/L	0.000118	9.26%
Znt	179.7	0.00409	mg/L	0.000103	0.00819	mg/L	0.000206	2.51%

Sequence No.: 18
Sample ID: 2705020861MS
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 42
Date Collected: 5/8/2007 19:45:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020861MS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020861MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	384352.6	99.9	%	0.03				0.03%
Yr	320920.7	100	%	1.0				0.95%
Bat	31891.8	0.477	mg/L	0.0006	0.954	mg/L	0.0012	0.12%
Bet	69534.0	0.0245	mg/L	0.00008	0.0489	mg/L	0.00015	0.31%
Cat	304560.1	23.8	mg/L	0.08	47.6	mg/L	0.17	0.36%
Cdt	2351.3	0.101	mg/L	0.0000	0.202	mg/L	0.0001	0.05%
Cot	11116.1	0.485	mg/L	0.0009	0.969	mg/L	0.0019	0.19%
Crt	33763.5	0.471	mg/L	0.0007	0.943	mg/L	0.0015	0.16%
Cut	178917.0	0.472	mg/L	0.0001	0.943	mg/L	0.0002	0.03%
Fet	6143.1	2.45	mg/L	0.057	4.89	mg/L	0.114	2.32%
Kt	12527.9	9.19	mg/L	0.216	18.4	mg/L	0.43	2.35%
Mgt	76069.3	10.0	mg/L	0.24	20.0	mg/L	0.48	2.38%
Mnt	130418.5	0.247	mg/L	0.0003	0.493	mg/L	0.0006	0.12%
Mot	5358.2	0.473	mg/L	0.0013	0.946	mg/L	0.0026	0.27%
Nit	4997.0	0.244	mg/L	0.0003	0.488	mg/L	0.0007	0.13%
Pbt	2192.5	0.498	mg/L	0.0003	0.995	mg/L	0.0007	0.07%
Vt	74019.9	0.474	mg/L	0.0004	0.948	mg/L	0.0008	0.08%
Znt	21883.6	0.497	mg/L	0.0004	0.994	mg/L	0.0009	0.09%

Sequence No.: 19
Sample ID: 2705020861MSD
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 5/8/2007 19:48:58
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020861MSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020861MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	388336.4	101	%	1.4				1.36%
Yr	323050.9	101	%	0.2				0.24%
Bat	32301.7	0.483	mg/L	0.0068	0.966	mg/L	0.0137	1.42%
Bet	70829.3	0.0249	mg/L	0.00009	0.0498	mg/L	0.00019	0.37%
Cat	308511.0	24.1	mg/L	0.05	48.2	mg/L	0.10	0.21%
Cdt	2380.4	0.102	mg/L	0.0012	0.204	mg/L	0.0024	1.15%
Cot	11246.3	0.490	mg/L	0.0066	0.980	mg/L	0.0133	1.35%
Crt	34384.8	0.480	mg/L	0.0008	0.960	mg/L	0.0015	0.16%
Cut	182173.5	0.480	mg/L	0.0011	0.960	mg/L	0.0022	0.23%
Fet	6260.8	2.49	mg/L	0.015	4.99	mg/L	0.029	0.59%
Kt	12800.8	9.39	mg/L	0.205	18.8	mg/L	0.41	2.18%
Mgt	77628.7	10.2	mg/L	0.05	20.4	mg/L	0.10	0.50%
Mnt	132665.5	0.251	mg/L	0.0007	0.502	mg/L	0.0015	0.29%
Mot	5415.0	0.478	mg/L	0.0056	0.956	mg/L	0.0112	1.18%
Nit	5062.9	0.247	mg/L	0.0026	0.494	mg/L	0.0052	1.06%
Pbt	2211.7	0.502	mg/L	0.0063	1.00	mg/L	0.013	1.26%
Vt	75496.2	0.483	mg/L	0.0010	0.967	mg/L	0.0021	0.22%
Znt	22187.5	0.504	mg/L	0.0070	1.01	mg/L	0.014	1.38%

Sequence No.: 25
Sample ID: 2705020857
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 5/8/2007 20:10:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020857

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020857

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	344413.2	89.6	%	0.05				0.05%
Yr	302062.6	94.3	%	0.46				0.49%
Bat	526.0	0.00790	mg/L	0.000055	0.0158	mg/L	0.00011	0.70%
Bet	-749.3	-0.00026	mg/L	0.000009	-0.00052	mg/L	0.000019	3.61%
Cat	1574914.7	123	mg/L	0.6	246	mg/L	1.1	0.45%
Cdt	22.3	0.00094	mg/L	0.000073	0.00188	mg/L	0.000145	7.74%
Cot	-4.2	-0.00018	mg/L	0.000274	-0.00037	mg/L	0.000548	148.65%
Crt	3248.5	0.0454	mg/L	0.00001	0.0907	mg/L	0.00002	0.03%
Cut	744.5	0.00196	mg/L	0.000085	0.00391	mg/L	0.000169	4.32%
Fet	54.9	0.0218	mg/L	0.00156	0.0437	mg/L	0.00311	7.13%
Kt	5632.8	4.13	mg/L	0.043	8.26	mg/L	0.085	1.03%
Mgt	535373.9	70.4	mg/L	0.31	141	mg/L	0.6	0.44%
Mnt	897.8	0.00170	mg/L	0.000022	0.00340	mg/L	0.000043	1.28%
Mot	145.6	0.0129	mg/L	0.00014	0.0257	mg/L	0.00028	1.08%
Nit	-9.3	-0.00045	mg/L	0.000078	-0.00091	mg/L	0.000157	17.29%
Pbt	-24.2	-0.00548	mg/L	0.000216	-0.0110	mg/L	0.00043	3.94%
Vt	9960.8	0.0637	mg/L	0.00004	0.127	mg/L	0.0001	0.06%
Znt	632.4	0.0144	mg/L	0.00011	0.0288	mg/L	0.00022	0.75%

Sequence No.: 26
Sample ID: 2705020858
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 5/8/2007 20:15:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020858

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020858

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	341112.0	88.7	%	0.33				0.37%
Yr	296852.4	92.7	%	1.56				1.68%
Bat	1054.3	0.0158	mg/L	0.00007	0.0315	mg/L	0.00013	0.42%
Bet	-1329.3	-0.00039	mg/L	0.000014	-0.00078	mg/L	0.000027	3.49%
Cat	2217046.3	173	mg/L	3.6	346	mg/L	7.3	2.09%
Cdt	8.9	0.00037	mg/L	0.000072	0.00075	mg/L	0.000144	19.27%
Cot	-8.1	-0.00035	mg/L	0.000039	-0.00070	mg/L	0.000077	11.01%
Crt	39188.6	0.547	mg/L	0.0008	1.09	mg/L	0.002	0.14%
Cut	707.4	0.00186	mg/L	0.000045	0.00372	mg/L	0.000090	2.43%
Fet	-2.6	-0.00104	mg/L	0.000603	-0.00208	mg/L	0.001206	57.88%
Kt	14144.0	10.4	mg/L	0.05	20.7	mg/L	0.09	0.44%
Mgt	694820.7	91.4	mg/L	1.95	183	mg/L	3.9	2.14%
Mnt	2907.7	0.00550	mg/L	0.000023	0.0110	mg/L	0.00005	0.43%
Mot	169.3	0.0149	mg/L	0.00049	0.0299	mg/L	0.00098	3.27%
Nit	-6.6	-0.00032	mg/L	0.000004	-0.00065	mg/L	0.000007	1.13%
Pbt	-25.0	-0.00568	mg/L	0.000462	-0.0114	mg/L	0.00092	8.14%
Vt	4339.5	0.0302	mg/L	0.00003	0.0604	mg/L	0.00005	0.08%
Znt	433.6	0.00988	mg/L	0.000043	0.0198	mg/L	0.00009	0.43%

Sequence No.: 27
Sample ID: 2705020859
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 49
Date Collected: 5/8/2007 20:19:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020859

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020859

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	348405.9	90.6	%	0.58				0.64%
Yr	306821.0	95.8	%	1.01				1.06%
Bat	823.7	0.0123	mg/L	0.00000	0.0246	mg/L	0.00000	0.01%
Bet	-175.9	-0.00006	mg/L	0.000006	-0.00011	mg/L	0.000013	11.30%
Cat	1378422.0	108	mg/L	0.1	215	mg/L	0.2	0.12%
Cdt	31.2	0.00131	mg/L	0.000080	0.00262	mg/L	0.000160	6.08%
Cot	3.7	0.00016	mg/L	0.000222	0.00032	mg/L	0.000443	137.87%
Crt	2908.3	0.0406	mg/L	0.00019	0.0812	mg/L	0.00038	0.47%
Cut	801.4	0.00211	mg/L	0.000208	0.00422	mg/L	0.000416	9.85%
Fet	1431.9	0.570	mg/L	0.0069	1.14	mg/L	0.014	1.21%
Kt	6731.9	4.94	mg/L	0.054	9.87	mg/L	0.107	1.09%
Mgt	500968.7	65.9	mg/L	0.09	132	mg/L	0.2	0.14%
Mnt	19679.2	0.0372	mg/L	0.00018	0.0744	mg/L	0.00036	0.48%
Mot	55.7	0.00491	mg/L	0.000115	0.00983	mg/L	0.000230	2.34%
Nit	18.7	0.00091	mg/L	0.000065	0.00183	mg/L	0.000129	7.07%
Pbt	-9.5	-0.00216	mg/L	0.000999	-0.00432	mg/L	0.001997	46.19%
Vt	2892.5	0.0186	mg/L	0.00003	0.0373	mg/L	0.00006	0.15%
Znt	460.8	0.0105	mg/L	0.00017	0.0210	mg/L	0.00033	1.60%

Sequence No.: 28
Sample ID: 2705020860_5X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 50
Date Collected: 5/8/2007 20:23:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020860_5X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020860_5X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	347458.3	90.3	%	0.06				0.07%
Yr	300591.5	93.9	%	0.21				0.22%
Bat	499.4	0.00746	mg/L	0.000094	0.0373	mg/L	0.00047	1.26%
Bet	-1665.8	-0.00024	mg/L	0.000006	-0.00122	mg/L	0.000030	2.43%
Cat	1101031.7	86.0	mg/L	0.15	430	mg/L	0.8	0.18%
Cdt	-11.9	-0.00050	mg/L	0.000039	-0.00251	mg/L	0.000195	7.77%
Cot	-6.1	-0.00027	mg/L	0.000075	-0.00134	mg/L	0.000377	28.24%
Crt	173626.2	2.42	mg/L	0.000	12.1	mg/L	0.00	0.00%
Cut	456.3	0.00120	mg/L	0.000209	0.00600	mg/L	0.001045	17.40%
Fet	-5.2	-0.00207	mg/L	0.000076	-0.0104	mg/L	0.00038	3.69%
Kt	16476.6	12.1	mg/L	0.13	60.4	mg/L	0.63	1.04%
Mgt	424990.9	55.9	mg/L	0.02	279	mg/L	0.1	0.04%
Mnt	2316.1	0.00438	mg/L	0.000012	0.0219	mg/L	0.00006	0.27%
Mot	37.4	0.00330	mg/L	0.000131	0.0165	mg/L	0.00065	3.96%
Nit	-2.0	-0.00010	mg/L	0.000111	-0.00050	mg/L	0.000556	111.49%
Pbt	-16.0	-0.00364	mg/L	0.000974	-0.0182	mg/L	0.00487	26.79%
Vt	-560.5	0.00768	mg/L	0.000146	0.0384	mg/L	0.00073	1.91%
Znt	210.2	0.00479	mg/L	0.000019	0.0239	mg/L	0.00009	0.39%

Sequence No.: 29
Sample ID: 2705020862
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 51
Date Collected: 5/8/2007 20:28:21
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020862

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2705020862

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	350000.5	91.0	%	0.15				0.17%
Yr	303650.3	94.8	%	0.76				0.80%
Bat	648.3	0.00970	mg/L	0.000039	0.0194	mg/L	0.00008	0.41%
Bet	-857.4	-0.00025	mg/L	0.000013	-0.00050	mg/L	0.000025	5.07%
Cat	1409504.4	110	mg/L	0.1	220	mg/L	0.2	0.09%
Cdt	20.8	0.00087	mg/L	0.000083	0.00175	mg/L	0.000166	9.50%
Cot	-11.3	-0.00049	mg/L	0.000059	-0.00099	mg/L	0.000119	12.04%
Crt	25605.0	0.358	mg/L	0.0016	0.715	mg/L	0.0031	0.44%
Cut	378.8	0.00099	mg/L	0.000123	0.00199	mg/L	0.000246	12.39%
Fet	3053.2	1.22	mg/L	0.010	2.43	mg/L	0.020	0.81%
Kt	9670.6	7.09	mg/L	0.033	14.2	mg/L	0.07	0.47%
Mgt	464704.7	61.1	mg/L	0.00	122	mg/L	0.0	0.01%
Mnt	39663.3	0.0750	mg/L	0.00034	0.150	mg/L	0.0007	0.45%
Mot	106.8	0.00943	mg/L	0.000467	0.0189	mg/L	0.00093	4.95%
Nit	-11.5	-0.00056	mg/L	0.000378	-0.00113	mg/L	0.000756	67.18%
Pbt	-14.6	-0.00330	mg/L	0.000595	-0.00661	mg/L	0.001191	18.02%
Vt	2213.6	0.0158	mg/L	0.00004	0.0316	mg/L	0.00008	0.24%
Znt	507.6	0.0116	mg/L	0.00002	0.0231	mg/L	0.00003	0.14%

Sequence No.: 30
Sample ID: 2705020863
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 52
Date Collected: 5/8/2007 20:32:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020863

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020863

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	349571.0	90.9	%	0.72				0.79%
Yr	301647.3	94.2	%	0.05				0.06%
Bat	700.3	0.0105	mg/L	0.00003	0.0209	mg/L	0.00006	0.27%
Bet	-283.2	-0.00009	mg/L	0.000029	-0.00019	mg/L	0.000058	30.55%
Cat	1379506.2	108	mg/L	0.2	216	mg/L	0.4	0.18%
Cdt	27.4	0.00115	mg/L	0.000177	0.00231	mg/L	0.000353	15.30%
Cot	-1.2	-0.00005	mg/L	0.000350	-0.00010	mg/L	0.000699	675.02%
Crt	2888.1	0.0403	mg/L	0.00051	0.0807	mg/L	0.00102	1.26%
Cut	746.5	0.00196	mg/L	0.000049	0.00393	mg/L	0.000098	2.48%
Fet	857.1	0.341	mg/L	0.0011	0.683	mg/L	0.0022	0.33%
Kt	6630.6	4.86	mg/L	0.003	9.72	mg/L	0.007	0.07%
Mgt	496228.0	65.3	mg/L	0.02	131	mg/L	0.0	0.02%
Mnt	15035.2	0.0284	mg/L	0.00002	0.0569	mg/L	0.00005	0.08%
Mot	57.4	0.00507	mg/L	0.000193	0.0101	mg/L	0.00039	3.80%
Nit	13.5	0.00066	mg/L	0.000027	0.00132	mg/L	0.000053	4.03%
Pbt	-12.8	-0.00291	mg/L	0.000119	-0.00582	mg/L	0.000238	4.10%
Vt	2883.0	0.0186	mg/L	0.00018	0.0371	mg/L	0.00035	0.95%
Znt	480.2	0.0109	mg/L	0.00036	0.0219	mg/L	0.00073	3.34%

Sequence No.: 31
Sample ID: 2705020864
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 53
Date Collected: 5/8/2007 20:37:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020864

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020864

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	343600.4	89.3	%	0.89				1.00%
Yr	293281.6	91.6	%	1.19				1.30%
Bat	1819.9	0.0272	mg/L	0.00035	0.0544	mg/L	0.00070	1.29%
Bet	-977.5	-0.00034	mg/L	0.000002	-0.00068	mg/L	0.000005	0.72%
Cat	1642054.7	128	mg/L	0.1	257	mg/L	0.3	0.11%
Cdt	28.4	0.00119	mg/L	0.000026	0.00239	mg/L	0.000052	2.19%
Cot	-11.6	-0.00051	mg/L	0.000091	-0.00101	mg/L	0.000183	18.05%
Crt	1144.0	0.0160	mg/L	0.00030	0.0319	mg/L	0.00061	1.90%
Cut	1407.6	0.00370	mg/L	0.000120	0.00740	mg/L	0.000240	3.24%
Fet	-3.5	-0.00139	mg/L	0.000149	-0.00278	mg/L	0.000297	10.71%
Kt	14496.9	10.6	mg/L	0.13	21.3	mg/L	0.27	1.25%
Mgt	373563.5	49.1	mg/L	0.18	98.3	mg/L	0.36	0.37%
Mnt	28821.4	0.0545	mg/L	0.00024	0.109	mg/L	0.0005	0.44%
Mot	204.7	0.0181	mg/L	0.00044	0.0361	mg/L	0.00088	2.42%
Nit	-2.9	-0.00014	mg/L	0.000032	-0.00028	mg/L	0.000064	22.54%
Pbt	-20.5	-0.00465	mg/L	0.001496	-0.00931	mg/L	0.002992	32.14%
Vt	3339.1	0.0213	mg/L	0.00018	0.0427	mg/L	0.00036	0.85%
Znt	413.9	0.00943	mg/L	0.000367	0.0189	mg/L	0.00073	3.89%

Sequence No.: 34
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/8/2007 20:50:23
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	360788.2	93.8	%	0.43				0.46%
Yr	304412.6	95.1	%	0.58				0.61%
Bat	338607.3	5.06	mg/L	0.022	5.06	mg/L	0.022	0.43%
QC value within limits for Ba		Recovery = 101.25%						
Bet	5843613.1	2.05	mg/L	0.005	2.05	mg/L	0.005	0.26%
QC value within limits for Be		Recovery = 102.61%						
Cat	652815.7	51.0	mg/L	0.03	51.0	mg/L	0.03	0.05%
QC value within limits for Ca		Recovery = 102.00%						
Cdt	60076.8	2.55	mg/L	0.004	2.55	mg/L	0.004	0.14%
QC value within limits for Cd		Recovery = 101.97%						
Cot	115840.7	5.05	mg/L	0.014	5.05	mg/L	0.014	0.28%
QC value within limits for Co		Recovery = 100.98%						
Crt	364811.0	5.09	mg/L	0.007	5.09	mg/L	0.007	0.13%
QC value within limits for Cr		Recovery = 101.88%						
Cut	1887260.8	4.98	mg/L	0.006	4.98	mg/L	0.006	0.12%
QC value within limits for Cu		Recovery = 99.50%						
Fet	13092.3	5.22	mg/L	0.005	5.22	mg/L	0.005	0.09%
QC value within limits for Fe		Recovery = 104.36%						
Kt	67912.4	49.8	mg/L	0.27	49.8	mg/L	0.27	0.53%
QC value within limits for K		Recovery = 99.60%						
Mgt	397364.9	52.3	mg/L	0.06	52.3	mg/L	0.06	0.11%
QC value within limits for Mg		Recovery = 104.55%						
Mnt	2690971.4	5.09	mg/L	0.002	5.09	mg/L	0.002	0.05%
QC value within limits for Mn		Recovery = 101.80%						
Mot	56847.3	5.02	mg/L	0.026	5.02	mg/L	0.026	0.52%
QC value within limits for Mo		Recovery = 100.38%						
Nit	104929.1	5.12	mg/L	0.011	5.12	mg/L	0.011	0.22%
QC value within limits for Ni		Recovery = 102.39%						
Pbt	22689.7	5.15	mg/L	0.025	5.15	mg/L	0.025	0.48%
QC value within limits for Pb		Recovery = 102.98%						
Vt	786561.6	5.04	mg/L	0.001	5.04	mg/L	0.001	0.02%
QC value within limits for V		Recovery = 100.71%						
Znt	226232.3	5.12	mg/L	0.019	5.12	mg/L	0.019	0.36%
QC value within limits for Zn		Recovery = 102.46%						

All analyte(s) passed QC.

Sequence No.: 35
Sample ID: CCB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 20:53:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	387935.1	101	%	0.7				0.66%
Yr	320017.2	100.0	%	0.57				0.57%
Ba†	1.1	0.00002	mg/L	0.000064	0.00002	mg/L	0.000064	377.94%
QC value within limits for Ba	Recovery = Not calculated							
Be†	91.6	0.00003	mg/L	0.000005	0.00003	mg/L	0.000005	14.85%
QC value within limits for Be	Recovery = Not calculated							
Ca†	5.5	0.00043	mg/L	0.001109	0.00043	mg/L	0.001109	259.52%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	3.9	0.00016	mg/L	0.000036	0.00016	mg/L	0.000036	22.16%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-3.8	-0.00017	mg/L	0.000110	-0.00017	mg/L	0.000110	65.88%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-4.3	-0.00006	mg/L	0.000051	-0.00006	mg/L	0.000051	84.49%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-100.6	-0.00027	mg/L	0.000207	-0.00027	mg/L	0.000207	77.80%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	4.1	0.00162	mg/L	0.000388	0.00162	mg/L	0.000388	24.04%
QC value within limits for Fe	Recovery = Not calculated							
K†	66.2	0.0486	mg/L	0.00488	0.0486	mg/L	0.00488	10.05%
QC value within limits for K	Recovery = Not calculated							
Mg†	8.3	0.00110	mg/L	0.000503	0.00110	mg/L	0.000503	45.76%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	23.2	0.00004	mg/L	0.000030	0.00004	mg/L	0.000030	67.29%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	9.9	0.00087	mg/L	0.000140	0.00087	mg/L	0.000140	16.04%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	0.6	0.00003	mg/L	0.000055	0.00003	mg/L	0.000055	180.62%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	1.2	0.00028	mg/L	0.000474	0.00028	mg/L	0.000474	169.21%
QC value within limits for Pb	Recovery = Not calculated							
V†	-20.5	-0.00013	mg/L	0.000039	-0.00013	mg/L	0.000039	29.86%
QC value within limits for V	Recovery = Not calculated							
Zn†	8.1	0.00019	mg/L	0.000051	0.00019	mg/L	0.000051	27.53%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 5
Date Collected: 5/8/2007 20:57:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	369773.9	96.1	%	0.01				0.01%
Yr	308678.0	96.4	%	2.41				2.50%
Ba†	169480.7	2.53	mg/L	0.023	2.53	mg/L	0.023	0.90%
QC value within limits for Ba	Recovery = 101.35%							
Be†	2904682.4	1.02	mg/L	0.003	1.02	mg/L	0.003	0.28%
QC value within limits for Be	Recovery = 102.00%							
Ca†	327347.0	25.6	mg/L	0.04	25.6	mg/L	0.04	0.16%
QC value within limits for Ca	Recovery = 102.29%							
Cd†	29596.3	1.26	mg/L	0.014	1.26	mg/L	0.014	1.10%
QC value within limits for Cd	Recovery = 100.48%							
Co†	57592.8	2.51	mg/L	0.019	2.51	mg/L	0.019	0.76%
QC value within limits for Co	Recovery = 100.41%							
Cr†	180283.6	2.52	mg/L	0.007	2.52	mg/L	0.007	0.29%
QC value within limits for Cr	Recovery = 100.70%							
Cu†	938092.9	2.47	mg/L	0.010	2.47	mg/L	0.010	0.41%
QC value within limits for Cu	Recovery = 98.92%							
Fe†	6534.7	2.60	mg/L	0.069	2.60	mg/L	0.069	2.66%
QC value within limits for Fe	Recovery = 104.17%							
K†	33564.1	24.6	mg/L	0.76	24.6	mg/L	0.76	3.09%
QC value within limits for K	Recovery = 98.45%							
Mg†	200887.1	26.4	mg/L	0.12	26.4	mg/L	0.12	0.46%
QC value within limits for Mg	Recovery = 105.70%							
Mn†	1362191.2	2.58	mg/L	0.004	2.58	mg/L	0.004	0.16%
QC value within limits for Mn	Recovery = 103.07%							
Mo†	27960.6	2.47	mg/L	0.031	2.47	mg/L	0.031	1.27%
QC value within limits for Mo	Recovery = 98.74%							
Ni†	52162.4	2.55	mg/L	0.022	2.55	mg/L	0.022	0.86%
QC value within limits for Ni	Recovery = 101.80%							
Pb†	11276.0	2.56	mg/L	0.026	2.56	mg/L	0.026	1.01%
QC value within limits for Pb	Recovery = 102.35%							
V†	391837.3	2.51	mg/L	0.004	2.51	mg/L	0.004	0.18%
QC value within limits for V	Recovery = 100.34%							
Zn†	112426.0	2.55	mg/L	0.025	2.55	mg/L	0.025	0.99%
QC value within limits for Zn	Recovery = 101.84%							

All analyte(s) passed QC.

Sequence No.: 46
Sample ID: MBLANK6010
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 65
Date Collected: 5/8/2007 21:39:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK6010

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MBLANK6010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	394885.7	103	%	0.7				0.69%
Yr	324760.5	101	%	1.5				1.52%
Bat	4.9	0.00007	mg/L	0.000119	0.00007	mg/L	0.000119	161.43%
Bet	245.6	0.00009	mg/L	0.000035	0.00009	mg/L	0.000035	40.50%
Cat	364.3	0.0285	mg/L	0.00173	0.0285	mg/L	0.00173	6.08%
Cdt	-7.0	-0.00029	mg/L	0.000103	-0.00029	mg/L	0.000103	34.84%
Cot	1.5	0.00007	mg/L	0.000079	0.00007	mg/L	0.000079	120.41%
Crt	24.1	0.00034	mg/L	0.000009	0.00034	mg/L	0.000009	2.61%
Cut	-134.9	-0.00036	mg/L	0.000112	-0.00036	mg/L	0.000112	31.50%
Fet	35.2	0.0140	mg/L	0.00028	0.0140	mg/L	0.00028	2.02%
Kt	6.3	0.00462	mg/L	0.045225	0.00462	mg/L	0.045225	978.29%
Mgt	14.8	0.00196	mg/L	0.000085	0.00196	mg/L	0.000085	4.31%
Mnt	23.4	0.00004	mg/L	0.000010	0.00004	mg/L	0.000010	23.45%
Mot	-4.0	-0.00036	mg/L	0.000059	-0.00036	mg/L	0.000059	16.53%
Nit	-3.6	-0.00017	mg/L	0.000178	-0.00017	mg/L	0.000178	101.65%
Pbt	5.0	0.00113	mg/L	0.001039	0.00113	mg/L	0.001039	91.54%
Vt	-0.8	0.00000	mg/L	0.000545	0.00000	mg/L	0.000545	>999.9%
Znt	185.5	0.00423	mg/L	0.000183	0.00423	mg/L	0.000183	4.33%

Sequence No.: 47
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/8/2007 21:42:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	356296.8	92.6	%	0.31				0.33%
Yr	302051.5	94.3	%	0.77				0.81%
Ba†	336836.3	5.04	mg/L	0.017	5.04	mg/L	0.017	0.33%
QC value within limits for Ba	Recovery = 100.72%							
Be†	5849742.1	2.05	mg/L	0.020	2.05	mg/L	0.020	0.96%
QC value within limits for Be	Recovery = 102.71%							
Ca†	652820.0	51.0	mg/L	0.07	51.0	mg/L	0.07	0.14%
QC value within limits for Ca	Recovery = 102.00%							
Cd†	59850.3	2.54	mg/L	0.010	2.54	mg/L	0.010	0.40%
QC value within limits for Cd	Recovery = 101.58%							
Co†	115302.3	5.03	mg/L	0.016	5.03	mg/L	0.016	0.33%
QC value within limits for Co	Recovery = 100.51%							
Cr†	361810.5	5.05	mg/L	0.025	5.05	mg/L	0.025	0.50%
QC value within limits for Cr	Recovery = 101.04%							
Cu†	1879789.5	4.96	mg/L	0.008	4.96	mg/L	0.008	0.17%
QC value within limits for Cu	Recovery = 99.11%							
Fe†	12884.6	5.14	mg/L	0.031	5.14	mg/L	0.031	0.60%
QC value within limits for Fe	Recovery = 102.70%							
K†	66388.3	48.7	mg/L	0.40	48.7	mg/L	0.40	0.82%
QC value within limits for K	Recovery = 97.36%							
Mg†	398233.7	52.4	mg/L	0.09	52.4	mg/L	0.09	0.18%
QC value within limits for Mg	Recovery = 104.77%							
Mn†	2698125.3	5.10	mg/L	0.005	5.10	mg/L	0.005	0.09%
QC value within limits for Mn	Recovery = 102.07%							
Mo†	56576.5	4.99	mg/L	0.018	4.99	mg/L	0.018	0.36%
QC value within limits for Mo	Recovery = 99.90%							
Ni†	104143.0	5.08	mg/L	0.017	5.08	mg/L	0.017	0.34%
QC value within limits for Ni	Recovery = 101.62%							
Pb†	22453.1	5.10	mg/L	0.028	5.10	mg/L	0.028	0.55%
QC value within limits for Pb	Recovery = 101.91%							
V†	789004.9	5.05	mg/L	0.010	5.05	mg/L	0.010	0.20%
QC value within limits for V	Recovery = 101.02%							
Zn†	224985.3	5.10	mg/L	0.021	5.10	mg/L	0.021	0.42%
QC value within limits for Zn	Recovery = 101.90%							

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: CCB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 21:46:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	382542.0	99.5	%	0.96				0.96%
Yr	320625.5	100	%	0.8				0.80%
Ba†	-0.3	0.00000	mg/L	0.000009	0.00000	mg/L	0.000009	195.71%
QC value within limits for Ba	Recovery = Not calculated							
Be†	102.5	0.00004	mg/L	0.000030	0.00004	mg/L	0.000030	83.18%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-21.2	-0.00165	mg/L	0.000575	-0.00165	mg/L	0.000575	34.77%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	0.5	0.00002	mg/L	0.000064	0.00002	mg/L	0.000064	290.62%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-2.7	-0.00012	mg/L	0.000260	-0.00012	mg/L	0.000260	220.45%
QC value within limits for Co	Recovery = Not calculated							
Cr†	16.3	0.00023	mg/L	0.000026	0.00023	mg/L	0.000026	11.42%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-45.2	-0.00012	mg/L	0.000083	-0.00012	mg/L	0.000083	69.24%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	3.7	0.00146	mg/L	0.000007	0.00146	mg/L	0.000007	0.50%
QC value within limits for Fe	Recovery = Not calculated							
K†	-20.0	-0.0147	mg/L	0.02015	-0.0147	mg/L	0.02015	137.47%
QC value within limits for K	Recovery = Not calculated							
Mg†	4.3	0.00057	mg/L	0.000085	0.00057	mg/L	0.000085	14.95%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	7.3	0.00001	mg/L	0.000007	0.00001	mg/L	0.000007	48.50%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	10.1	0.00090	mg/L	0.000160	0.00090	mg/L	0.000160	17.85%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	4.2	0.00021	mg/L	0.000310	0.00021	mg/L	0.000310	151.05%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-1.7	-0.00039	mg/L	0.000633	-0.00039	mg/L	0.000633	163.64%
QC value within limits for Pb	Recovery = Not calculated							
V†	4.8	0.00003	mg/L	0.000100	0.00003	mg/L	0.000100	313.36%
QC value within limits for V	Recovery = Not calculated							
Zn†	2.1	0.00005	mg/L	0.000012	0.00005	mg/L	0.000012	25.07%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: LCS
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 66
Date Collected: 5/8/2007 21:49:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	372473.5	96.8	%	0.96				1.00%
Yr	315833.5	98.6	%	0.54				0.55%
Bat	63127.0	0.944	mg/L	0.0089	0.944	mg/L	0.0089	0.94%
Bet	139296.2	0.0490	mg/L	0.00011	0.0490	mg/L	0.00011	0.22%
Cat	606346.3	47.4	mg/L	0.00	47.4	mg/L	0.00	0.00%
Cdt	4766.0	0.204	mg/L	0.0011	0.204	mg/L	0.0011	0.51%
Cot	22088.9	0.963	mg/L	0.0070	0.963	mg/L	0.0070	0.73%
Crt	68220.9	0.953	mg/L	0.0083	0.953	mg/L	0.0083	0.88%
Cut	359072.9	0.947	mg/L	0.0002	0.947	mg/L	0.0002	0.02%
Fet	12194.5	4.86	mg/L	0.006	4.86	mg/L	0.006	0.12%
Kt	25037.7	18.4	mg/L	0.05	18.4	mg/L	0.05	0.28%
Mgt	150315.4	19.8	mg/L	0.01	19.8	mg/L	0.01	0.04%
Mnt	257599.1	0.487	mg/L	0.0012	0.487	mg/L	0.0012	0.24%
Mot	10692.5	0.944	mg/L	0.0120	0.944	mg/L	0.0120	1.27%
Nit	9925.5	0.484	mg/L	0.0026	0.484	mg/L	0.0026	0.54%
Pbt	4394.8	0.997	mg/L	0.0134	0.997	mg/L	0.0134	1.34%
Vt	148676.8	0.952	mg/L	0.0032	0.952	mg/L	0.0032	0.33%
Znt	43763.6	0.994	mg/L	0.0094	0.994	mg/L	0.0094	0.94%

Sequence No.: 50
Sample ID: LCSD
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 67
Date Collected: 5/8/2007 21:52:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	370608.2	96.4	%	0.05				0.06%
Yr	309442.2	96.7	%	2.26				2.34%
Bat	64505.8	0.964	mg/L	0.0014	0.964	mg/L	0.0014	0.15%
Bet	142110.9	0.0500	mg/L	0.00003	0.0500	mg/L	0.00003	0.06%
Cat	615226.2	48.1	mg/L	0.01	48.1	mg/L	0.01	0.01%
Cdt	4864.6	0.209	mg/L	0.0013	0.209	mg/L	0.0013	0.62%
Cot	22563.3	0.983	mg/L	0.0016	0.983	mg/L	0.0016	0.16%
Crt	68989.3	0.963	mg/L	0.0007	0.963	mg/L	0.0007	0.07%
Cut	368065.3	0.970	mg/L	0.0007	0.970	mg/L	0.0007	0.07%
Fet	12597.8	5.02	mg/L	0.139	5.02	mg/L	0.139	2.78%
Kt	25965.9	19.0	mg/L	0.41	19.0	mg/L	0.41	2.18%
Mgt	154975.4	20.4	mg/L	0.54	20.4	mg/L	0.54	2.66%
Mnt	263284.0	0.498	mg/L	0.0002	0.498	mg/L	0.0002	0.04%
Mot	10977.6	0.969	mg/L	0.0052	0.969	mg/L	0.0052	0.54%
Nit	10120.0	0.494	mg/L	0.0032	0.494	mg/L	0.0032	0.65%
Pbt	4459.2	1.01	mg/L	0.005	1.01	mg/L	0.005	0.45%
Vt	151768.0	0.972	mg/L	0.0007	0.972	mg/L	0.0007	0.08%
Znt	44703.3	1.02	mg/L	0.001	1.02	mg/L	0.001	0.07%

Sequence No.: 51
Sample ID: 2705020848
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 68
Date Collected: 5/8/2007 21:54:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020848

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020848

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	334766.2	87.0	%	0.98				1.13%
Yr	296188.1	92.5	%	0.45				0.49%
Ba†	1282.4	0.0192	mg/L	0.00014	0.0384	mg/L	0.00027	0.71%
Be†	-1411.4	-0.00039	mg/L	0.000005	-0.00079	mg/L	0.000010	1.22%
Ca†	1934373.7	151	mg/L	0.2	302	mg/L	0.4	0.12%
Cd†	19.3	0.00081	mg/L	0.000099	0.00162	mg/L	0.000197	12.16%
Co†	-5.7	-0.00025	mg/L	0.000428	-0.00050	mg/L	0.000856	172.02%
Cr†	52366.5	0.731	mg/L	0.0027	1.46	mg/L	0.005	0.38%
Cu†	610.0	0.00160	mg/L	0.000186	0.00320	mg/L	0.000372	11.64%
Fe†	-4.3	-0.00170	mg/L	0.000829	-0.00339	mg/L	0.001658	48.88%
K†	20832.7	15.3	mg/L	0.03	30.6	mg/L	0.05	0.17%
Mg†	567999.3	74.7	mg/L	0.05	149	mg/L	0.1	0.07%
Mn†	15911.0	0.0301	mg/L	0.00003	0.0602	mg/L	0.00006	0.10%
Mo†	195.3	0.0172	mg/L	0.00027	0.0345	mg/L	0.00053	1.55%
Ni†	-4.5	-0.00022	mg/L	0.000553	-0.00044	mg/L	0.001106	252.02%
Pb†	-26.3	-0.00597	mg/L	0.000177	-0.0119	mg/L	0.00035	2.96%
V†	3845.6	0.0279	mg/L	0.00022	0.0558	mg/L	0.00044	0.78%
Zn†	293.0	0.00668	mg/L	0.000256	0.0134	mg/L	0.00051	3.84%

Sequence No.: 52
Sample ID: 2705020848MS
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 69
Date Collected: 5/8/2007 21:58:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020848MS

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: 2705020848MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	339472.9	88.3	%	0.23				0.26%
Yr	299504.6	93.5	%	0.43				0.46%
Bat	33874.0	0.506	mg/L	0.0016	1.01	mg/L	0.003	0.31%
Bet	70575.0	0.0249	mg/L	0.00014	0.0499	mg/L	0.00028	0.57%
Cat	2183893.6	171	mg/L	0.4	341	mg/L	0.7	0.22%
Cdt	2555.0	0.110	mg/L	0.0001	0.219	mg/L	0.0002	0.10%
Cot	11279.9	0.492	mg/L	0.0015	0.983	mg/L	0.0030	0.31%
Crt	85784.2	1.20	mg/L	0.004	2.40	mg/L	0.007	0.29%
Cut	197085.6	0.520	mg/L	0.0043	1.04	mg/L	0.009	0.82%
Fet	6336.8	2.52	mg/L	0.018	5.05	mg/L	0.036	0.72%
Kt	34127.4	25.0	mg/L	0.08	50.1	mg/L	0.16	0.32%
Mgt	627529.1	82.5	mg/L	0.16	165	mg/L	0.3	0.20%
Mnt	149537.2	0.283	mg/L	0.0017	0.566	mg/L	0.0034	0.60%
Mot	5727.4	0.506	mg/L	0.0016	1.01	mg/L	0.003	0.31%
Nit	4961.8	0.242	mg/L	0.0004	0.484	mg/L	0.0007	0.15%
Pbt	2154.7	0.489	mg/L	0.0019	0.978	mg/L	0.0038	0.38%
Vt	80676.9	0.520	mg/L	0.0017	1.04	mg/L	0.003	0.32%
Znt	23608.2	0.536	mg/L	0.0013	1.07	mg/L	0.003	0.25%

Sequence No.: 53
Sample ID: 2705020848MSD
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 70
Date Collected: 5/8/2007 22:02:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020848MSD

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2705020848MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	337987.7	87.9	%	0.23				0.26%
Yr	298473.4	93.2	%	1.17				1.26%
Bat	32714.4	0.489	mg/L	0.0015	0.978	mg/L	0.0029	0.30%
Bet	68340.1	0.0241	mg/L	0.00003	0.0483	mg/L	0.00005	0.11%
Cat	2124128.1	166	mg/L	0.3	332	mg/L	0.6	0.18%
Cdt	2455.9	0.105	mg/L	0.0005	0.211	mg/L	0.0010	0.48%
Cot	10894.6	0.475	mg/L	0.0018	0.950	mg/L	0.0036	0.38%
Crt	83129.0	1.16	mg/L	0.003	2.32	mg/L	0.006	0.28%
Cut	190592.9	0.502	mg/L	0.0002	1.00	mg/L	0.000	0.03%
Fet	6191.4	2.47	mg/L	0.048	4.93	mg/L	0.096	1.94%
Kt	33324.3	24.4	mg/L	0.51	48.9	mg/L	1.02	2.08%
Mgt	611035.2	80.4	mg/L	0.27	161	mg/L	0.5	0.33%
Mnt	144836.3	0.274	mg/L	0.0006	0.548	mg/L	0.0013	0.23%
Mot	5530.3	0.488	mg/L	0.0006	0.977	mg/L	0.0012	0.13%
Nit	4781.5	0.233	mg/L	0.0006	0.467	mg/L	0.0013	0.28%
Pbt	2089.2	0.474	mg/L	0.0022	0.948	mg/L	0.0044	0.46%
Vt	78175.6	0.504	mg/L	0.0006	1.01	mg/L	0.001	0.12%
Znt	22584.0	0.513	mg/L	0.0007	1.03	mg/L	0.001	0.14%

Sequence No.: 54
Sample ID: 2705020851
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 71
Date Collected: 5/8/2007 22:06:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020851

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020851

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	336637.0	87.5	%	0.29				0.33%
Yr	288767.7	90.2	%	0.55				0.61%
Bat	931.0	0.0139	mg/L	0.00017	0.0278	mg/L	0.00034	1.22%
Bet	-1113.3	-0.00038	mg/L	0.000032	-0.00076	mg/L	0.000063	8.28%
Cat	2463985.2	192	mg/L	1.4	385	mg/L	2.8	0.73%
Cdt	16.9	0.00071	mg/L	0.000396	0.00142	mg/L	0.000792	55.79%
Cot	-7.1	-0.00031	mg/L	0.000136	-0.00062	mg/L	0.000272	43.64%
Crt	5420.1	0.0757	mg/L	0.00009	0.151	mg/L	0.0002	0.11%
Cut	477.4	0.00125	mg/L	0.000156	0.00251	mg/L	0.000311	12.42%
Fet	3.3	0.00131	mg/L	0.001020	0.00263	mg/L	0.002039	77.58%
Kt	22745.9	16.7	mg/L	0.11	33.4	mg/L	0.22	0.67%
Mgt	680887.6	89.6	mg/L	0.79	179	mg/L	1.6	0.88%
Mnt	5084.2	0.00962	mg/L	0.000033	0.0192	mg/L	0.00007	0.34%
Mot	133.9	0.0118	mg/L	0.00007	0.0236	mg/L	0.00014	0.58%
Nit	-14.1	-0.00069	mg/L	0.000135	-0.00138	mg/L	0.000271	19.66%
Pbt	-18.0	-0.00407	mg/L	0.002036	-0.00815	mg/L	0.004072	49.96%
Vt	2325.3	0.0152	mg/L	0.00000	0.0303	mg/L	0.00001	0.02%
Znt	336.6	0.00767	mg/L	0.000081	0.0153	mg/L	0.00016	1.06%

Sequence No.: 55
Sample ID: 2705020851MS
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 72
Date Collected: 5/8/2007 22:10:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020851MS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020851MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	335205.8	87.2	%	0.03				0.04%
Yr	293215.0	91.6	%	0.16				0.18%
Bat	33688.0	0.504	mg/L	0.0009	1.01	mg/L	0.002	0.18%
Bet	70509.7	0.0248	mg/L	0.00016	0.0496	mg/L	0.00031	0.63%
Cat	2678381.4	209	mg/L	0.5	418	mg/L	1.0	0.25%
Cdt	2548.1	0.109	mg/L	0.0003	0.218	mg/L	0.0005	0.24%
Cot	11143.3	0.486	mg/L	0.0004	0.971	mg/L	0.0008	0.08%
Crt	39801.9	0.556	mg/L	0.0025	1.11	mg/L	0.005	0.45%
Cut	193580.8	0.510	mg/L	0.0010	1.02	mg/L	0.002	0.20%
Fet	6286.8	2.50	mg/L	0.014	5.01	mg/L	0.029	0.58%
Kt	35651.4	26.1	mg/L	0.00	52.3	mg/L	0.00	0.01%
Mgt	729661.3	96.0	mg/L	0.07	192	mg/L	0.1	0.07%
Mnt	139100.9	0.263	mg/L	0.0008	0.526	mg/L	0.0015	0.29%
Mot	5697.0	0.503	mg/L	0.0002	1.01	mg/L	0.000	0.03%
Nit	4889.0	0.239	mg/L	0.0004	0.477	mg/L	0.0008	0.17%
Pbt	2160.8	0.490	mg/L	0.0002	0.981	mg/L	0.0004	0.04%
Vt	79107.5	0.507	mg/L	0.0027	1.01	mg/L	0.005	0.54%
Znt	23304.2	0.529	mg/L	0.0003	1.06	mg/L	0.001	0.06%

Sequence No.: 56
Sample ID: 2705020851MSD
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 73
Date Collected: 5/8/2007 22:14:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020851MSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020851MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	334268.6	86.9	%	1.07				1.24%
Yr	291542.6	91.1	%	1.31				1.43%
Bat	32547.4	0.487	mg/L	0.0075	0.973	mg/L	0.0150	1.54%
Bet	67766.5	0.0239	mg/L	0.00008	0.0477	mg/L	0.00017	0.35%
Cat	2598961.3	203	mg/L	0.0	406	mg/L	0.0	0.00%
Cdt	2459.2	0.105	mg/L	0.0010	0.211	mg/L	0.0020	0.97%
Cot	10756.0	0.469	mg/L	0.0065	0.938	mg/L	0.0131	1.39%
Crt	38458.5	0.537	mg/L	0.0016	1.07	mg/L	0.003	0.30%
Cut	186274.5	0.491	mg/L	0.0032	0.982	mg/L	0.0065	0.66%
Fet	6139.8	2.45	mg/L	0.024	4.89	mg/L	0.048	0.99%
Kt	34971.7	25.6	mg/L	0.37	51.3	mg/L	0.75	1.46%
Mgt	708819.1	93.2	mg/L	0.06	186	mg/L	0.1	0.07%
Mnt	134022.0	0.254	mg/L	0.0002	0.507	mg/L	0.0004	0.07%
Mot	5495.3	0.485	mg/L	0.0067	0.970	mg/L	0.0134	1.39%
Nit	4719.2	0.230	mg/L	0.0031	0.461	mg/L	0.0062	1.35%
Pbt	2093.1	0.475	mg/L	0.0075	0.950	mg/L	0.0150	1.58%
Vt	76411.8	0.489	mg/L	0.0019	0.979	mg/L	0.0037	0.38%
Znt	22507.6	0.511	mg/L	0.0079	1.02	mg/L	0.016	1.54%

Sequence No.: 57
Sample ID: 2705020837_20X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 20X

Autosampler Location: 74
Date Collected: 5/8/2007 22:18:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020837_20X

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2705020837_20X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	360987.4	93.9	%	0.81				0.86%
Yr	308282.9	96.3	%	1.42				1.47%
Bat	218.1	0.00326	mg/L	0.000051	0.0651	mg/L	0.00101	1.56%
Bet	-947.3	-0.00013	mg/L	0.000005	-0.00254	mg/L	0.000104	4.09%
Cat	621227.6	48.5	mg/L	0.07	971	mg/L	1.5	0.15%
Cdt	-10.5	-0.00044	mg/L	0.000177	-0.00882	mg/L	0.003536	40.09%
Cot	-5.5	-0.00024	mg/L	0.000081	-0.00481	mg/L	0.001628	33.86%
Crt	105031.3	1.47	mg/L	0.001	29.3	mg/L	0.01	0.04%
Cut	120.4	0.00032	mg/L	0.000095	0.00633	mg/L	0.001908	30.12%
Fet	8.9	0.00354	mg/L	0.002342	0.0707	mg/L	0.04685	66.24%
Kt	3569.2	2.62	mg/L	0.014	52.3	mg/L	0.27	0.52%
Mgt	190823.6	25.1	mg/L	0.02	502	mg/L	0.4	0.08%
Mnt	12435.5	0.0235	mg/L	0.00019	0.470	mg/L	0.0037	0.80%
Mot	10.5	0.00093	mg/L	0.000318	0.0185	mg/L	0.00636	34.33%
Nit	-2.0	-0.00010	mg/L	0.000075	-0.00198	mg/L	0.001499	75.53%
Pbt	-8.9	-0.00202	mg/L	0.000401	-0.0403	mg/L	0.00801	19.88%
Vt	-694.1	0.00238	mg/L	0.000047	0.0477	mg/L	0.00093	1.95%
Znt	949.2	0.0216	mg/L	0.00008	0.433	mg/L	0.0017	0.38%

Sequence No.: 58
Sample ID: 2705020838_10X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 75
Date Collected: 5/8/2007 22:22:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020838_10X

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2705020838_10X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	348586.5	90.6	%	0.91				1.01%
Yr	291821.5	91.1	%	0.46				0.51%
Bat	466.7	0.00697	mg/L	0.000111	0.0697	mg/L	0.00111	1.59%
Bet	-2001.6	-0.00027	mg/L	0.000033	-0.00267	mg/L	0.000325	12.18%
Cat	1338155.9	105	mg/L	0.2	1050	mg/L	1.7	0.16%
Cdt	-6.1	-0.00026	mg/L	0.000127	-0.00256	mg/L	0.001266	49.38%
Cot	-2.2	-0.00010	mg/L	0.000246	-0.00096	mg/L	0.002459	257.14%
Crt	222437.3	3.11	mg/L	0.016	31.1	mg/L	0.16	0.52%
Cut	1956.7	0.00516	mg/L	0.000179	0.0516	mg/L	0.00179	3.46%
Fet	63.8	0.0254	mg/L	0.00150	0.254	mg/L	0.0150	5.91%
Kt	6313.2	4.63	mg/L	0.049	46.3	mg/L	0.49	1.05%
Mgt	410512.3	54.0	mg/L	0.06	540	mg/L	0.6	0.11%
Mnt	5556.7	0.0105	mg/L	0.00012	0.105	mg/L	0.0012	1.16%
Mot	17.2	0.00152	mg/L	0.000602	0.0152	mg/L	0.00602	39.59%
Nit	-5.1	-0.00025	mg/L	0.000026	-0.00247	mg/L	0.000256	10.40%
Pbt	-23.5	-0.00534	mg/L	0.001329	-0.0534	mg/L	0.01329	24.89%
Vt	-1609.3	0.00416	mg/L	0.000073	0.0416	mg/L	0.00073	1.76%
Znt	466.2	0.0106	mg/L	0.00029	0.106	mg/L	0.0029	2.72%

Sequence No.: 59
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/8/2007 22:26:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	358982.1	93.3	%	0.07				0.07%
Yr	297601.4	93.0	%	0.77				0.83%
Ba†	340441.5	5.09	mg/L	0.013	5.09	mg/L	0.013	0.26%
QC value within limits for Ba	Recovery = 101.80%							
Be†	5846705.9	2.05	mg/L	0.008	2.05	mg/L	0.008	0.38%
QC value within limits for Be	Recovery = 102.66%							
Ca†	662663.1	51.8	mg/L	0.03	51.8	mg/L	0.03	0.05%
QC value within limits for Ca	Recovery = 103.54%							
Cd†	60432.6	2.56	mg/L	0.001	2.56	mg/L	0.001	0.04%
QC value within limits for Cd	Recovery = 102.57%							
Co†	116666.3	5.09	mg/L	0.007	5.09	mg/L	0.007	0.14%
QC value within limits for Co	Recovery = 101.70%							
Cr†	366539.1	5.12	mg/L	0.020	5.12	mg/L	0.020	0.39%
QC value within limits for Cr	Recovery = 102.37%							
Cu†	1911335.5	5.04	mg/L	0.026	5.04	mg/L	0.026	0.51%
QC value within limits for Cu	Recovery = 100.77%							
Fe†	13176.5	5.25	mg/L	0.055	5.25	mg/L	0.055	1.04%
QC value within limits for Fe	Recovery = 105.03%							
K†	68032.4	49.9	mg/L	0.34	49.9	mg/L	0.34	0.69%
QC value within limits for K	Recovery = 99.77%							
Mg†	404400.2	53.2	mg/L	0.04	53.2	mg/L	0.04	0.08%
QC value within limits for Mg	Recovery = 106.40%							
Mn†	2735641.5	5.17	mg/L	0.009	5.17	mg/L	0.009	0.17%
QC value within limits for Mn	Recovery = 103.49%							
Mo†	57124.8	5.04	mg/L	0.026	5.04	mg/L	0.026	0.51%
QC value within limits for Mo	Recovery = 100.87%							
Ni†	105377.0	5.14	mg/L	0.025	5.14	mg/L	0.025	0.49%
QC value within limits for Ni	Recovery = 102.83%							
Pb†	22766.9	5.17	mg/L	0.037	5.17	mg/L	0.037	0.71%
QC value within limits for Pb	Recovery = 103.33%							
V†	798910.9	5.11	mg/L	0.013	5.11	mg/L	0.013	0.26%
QC value within limits for V	Recovery = 102.29%							
Zn†	227644.0	5.16	mg/L	0.019	5.16	mg/L	0.019	0.37%
QC value within limits for Zn	Recovery = 103.10%							

All analyte(s) passed QC.

Sequence No.: 60
Sample ID: CCB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 22:29:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	379374.2	98.6	%	0.44				0.44%
Yr	316268.7	98.8	%	0.48				0.48%
Ba†	7.9	0.00012	mg/L	0.000042	0.00012	mg/L	0.000042	36.07%
QC value within limits for Ba	Recovery = Not calculated							
Be†	87.4	0.00003	mg/L	0.000003	0.00003	mg/L	0.000003	11.12%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-8.0	-0.00063	mg/L	0.001390	-0.00063	mg/L	0.001390	221.13%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	3.7	0.00016	mg/L	0.000040	0.00016	mg/L	0.000040	25.47%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-0.2	-0.00001	mg/L	0.000110	-0.00001	mg/L	0.000110	>999.9%
QC value within limits for Co	Recovery = Not calculated							
Cr†	53.1	0.00074	mg/L	0.000137	0.00074	mg/L	0.000137	18.50%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-14.0	-0.00004	mg/L	0.000096	-0.00004	mg/L	0.000096	256.78%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	0.5	0.00018	mg/L	0.000480	0.00018	mg/L	0.000480	260.04%
QC value within limits for Fe	Recovery = Not calculated							
K†	-9.3	-0.00682	mg/L	0.005485	-0.00682	mg/L	0.005485	80.38%
QC value within limits for K	Recovery = Not calculated							
Mg†	7.0	0.00092	mg/L	0.000586	0.00092	mg/L	0.000586	63.40%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	3.2	0.00001	mg/L	0.000007	0.00001	mg/L	0.000007	122.13%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	14.4	0.00127	mg/L	0.000139	0.00127	mg/L	0.000139	10.96%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	-3.2	-0.00016	mg/L	0.000001	-0.00016	mg/L	0.000001	0.77%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	1.9	0.00043	mg/L	0.000483	0.00043	mg/L	0.000483	111.84%
QC value within limits for Pb	Recovery = Not calculated							
V†	4.5	0.00003	mg/L	0.000307	0.00003	mg/L	0.000307	937.62%
QC value within limits for V	Recovery = Not calculated							
Zn†	3.7	0.00009	mg/L	0.000145	0.00009	mg/L	0.000145	168.34%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 61
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/8/2007 22:33:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	370903.1	96.4	%	0.50				0.52%
Yr	306512.3	95.7	%	0.69				0.72%
Ba†	170172.1	2.54	mg/L	0.008	2.54	mg/L	0.008	0.30%
QC value within limits for Ba		Recovery = 101.77%						
Be†	2903817.4	1.02	mg/L	0.002	1.02	mg/L	0.002	0.20%
QC value within limits for Be		Recovery = 101.97%						
Ca†	328028.1	25.6	mg/L	0.01	25.6	mg/L	0.01	0.03%
QC value within limits for Ca		Recovery = 102.50%						
Cd†	29724.1	1.26	mg/L	0.007	1.26	mg/L	0.007	0.55%
QC value within limits for Cd		Recovery = 100.91%						
Co†	57989.6	2.53	mg/L	0.010	2.53	mg/L	0.010	0.38%
QC value within limits for Co		Recovery = 101.10%						
Cr†	179854.7	2.51	mg/L	0.007	2.51	mg/L	0.007	0.29%
QC value within limits for Cr		Recovery = 100.46%						
Cu†	933213.2	2.46	mg/L	0.002	2.46	mg/L	0.002	0.06%
QC value within limits for Cu		Recovery = 98.41%						
Fe†	6582.3	2.62	mg/L	0.011	2.62	mg/L	0.011	0.41%
QC value within limits for Fe		Recovery = 104.93%						
K†	33632.5	24.7	mg/L	0.04	24.7	mg/L	0.04	0.16%
QC value within limits for K		Recovery = 98.65%						
Mg†	201755.4	26.5	mg/L	0.05	26.5	mg/L	0.05	0.18%
QC value within limits for Mg		Recovery = 106.16%						
Mn†	1358778.6	2.57	mg/L	0.005	2.57	mg/L	0.005	0.21%
QC value within limits for Mn		Recovery = 102.81%						
Mo†	28120.7	2.48	mg/L	0.017	2.48	mg/L	0.017	0.67%
QC value within limits for Mo		Recovery = 99.31%						
Ni†	52489.5	2.56	mg/L	0.009	2.56	mg/L	0.009	0.36%
QC value within limits for Ni		Recovery = 102.44%						
Pb†	11316.2	2.57	mg/L	0.003	2.57	mg/L	0.003	0.11%
QC value within limits for Pb		Recovery = 102.72%						
V†	390848.6	2.50	mg/L	0.004	2.50	mg/L	0.004	0.18%
QC value within limits for V		Recovery = 100.08%						
Zn†	113137.2	2.56	mg/L	0.014	2.56	mg/L	0.014	0.54%
QC value within limits for Zn		Recovery = 102.48%						

All analyte(s) passed QC.

Sequence No.: 62
Sample ID: 2705020839_10X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 76
Date Collected: 5/8/2007 22:36:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020839_10X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020839_10X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	357236.1	92.9	%	0.64				0.69%
Yr	297940.6	93.1	%	1.26				1.35%
Bat	320.6	0.00479	mg/L	0.000111	0.0479	mg/L	0.00111	2.32%
Bet	-1233.9	-0.00018	mg/L	0.000038	-0.00181	mg/L	0.000382	21.11%
Cat	1002617.3	78.3	mg/L	0.27	783	mg/L	2.7	0.34%
Cdt	0.6	0.00002	mg/L	0.000116	0.00024	mg/L	0.001163	484.26%
Cot	2.8	0.00012	mg/L	0.000010	0.00123	mg/L	0.000102	8.27%
Crt	128801.4	1.80	mg/L	0.005	18.0	mg/L	0.05	0.29%
Cut	643.1	0.00169	mg/L	0.000105	0.0169	mg/L	0.00105	6.19%
Fet	1645.6	0.656	mg/L	0.0089	6.56	mg/L	0.089	1.36%
Kt	6114.2	4.48	mg/L	0.060	44.8	mg/L	0.60	1.35%
Mgt	343086.3	45.1	mg/L	0.10	451	mg/L	1.0	0.22%
Mnt	11912.0	0.0225	mg/L	0.00012	0.225	mg/L	0.0012	0.54%
Mot	35.4	0.00313	mg/L	0.000190	0.0313	mg/L	0.00190	6.08%
Nit	13.6	0.00066	mg/L	0.000229	0.00663	mg/L	0.002287	34.49%
Pbt	-6.3	-0.00142	mg/L	0.000551	-0.0142	mg/L	0.00551	38.74%
Vt	376.7	0.0108	mg/L	0.00000	0.108	mg/L	0.0000	0.01%
Znt	488.4	0.0111	mg/L	0.00017	0.111	mg/L	0.0017	1.48%

Sequence No.: 63
Sample ID: 2705020840_10X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 77
Date Collected: 5/8/2007 22:40:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020840_10X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020840_10X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	351717.7	91.5	%	0.34				0.37%
Yr	300994.4	94.0	%	1.19				1.26%
Bat	478.0	0.00714	mg/L	0.000034	0.0714	mg/L	0.00034	0.47%
Bet	-2025.5	-0.00029	mg/L	0.000001	-0.00290	mg/L	0.000011	0.39%
Cat	1587406.6	124	mg/L	0.1	1240	mg/L	0.5	0.04%
Cdt	-13.4	-0.00056	mg/L	0.000196	-0.00563	mg/L	0.001961	34.82%
Cot	-2.6	-0.00011	mg/L	0.000095	-0.00113	mg/L	0.000951	84.42%
Crt	215244.9	3.01	mg/L	0.004	30.1	mg/L	0.04	0.12%
Cut	199.2	0.00052	mg/L	0.000120	0.00524	mg/L	0.001203	22.96%
Fet	295.0	0.118	mg/L	0.0002	1.18	mg/L	0.002	0.19%
Kt	7089.1	5.20	mg/L	0.003	52.0	mg/L	0.03	0.06%
Mgt	468134.6	61.6	mg/L	0.03	616	mg/L	0.3	0.04%
Mnt	1664.9	0.00315	mg/L	0.000020	0.0315	mg/L	0.00020	0.65%
Mot	18.7	0.00165	mg/L	0.000208	0.0165	mg/L	0.00208	12.65%
Nit	4.7	0.00023	mg/L	0.000274	0.00228	mg/L	0.002744	120.52%
Pbt	-17.5	-0.00396	mg/L	0.000582	-0.0396	mg/L	0.00582	14.68%
Vt	-1486.0	0.00448	mg/L	0.000007	0.0448	mg/L	0.00007	0.15%
Znt	276.0	0.00629	mg/L	0.000166	0.0629	mg/L	0.00166	2.65%

Sequence No.: 64
Sample ID: 2705020841_10X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 78
Date Collected: 5/8/2007 22:45:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020841_10X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020841_10X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	354967.4	92.3	%	0.89				0.97%
Yr	300807.1	94.0	%	1.90				2.02%
Bat	451.8	0.00674	mg/L	0.000138	0.0674	mg/L	0.00138	2.05%
Bet	-1929.2	-0.00025	mg/L	0.000009	-0.00249	mg/L	0.000086	3.44%
Cat	1568612.5	123	mg/L	0.1	1230	mg/L	0.6	0.05%
Cdt	-12.5	-0.00053	mg/L	0.000023	-0.00528	mg/L	0.000235	4.45%
Cot	-1.8	-0.00008	mg/L	0.000231	-0.00077	mg/L	0.002311	300.47%
Crt	218494.0	3.05	mg/L	0.005	30.5	mg/L	0.05	0.17%
Cut	273.3	0.00072	mg/L	0.000215	0.00720	mg/L	0.002149	29.86%
Fet	40.1	0.0160	mg/L	0.00103	0.160	mg/L	0.0103	6.45%
Kt	6207.1	4.55	mg/L	0.086	45.5	mg/L	0.86	1.88%
Mgt	447766.7	58.9	mg/L	0.13	589	mg/L	1.3	0.21%
Mnt	1455.9	0.00275	mg/L	0.000027	0.0275	mg/L	0.00027	0.99%
Mot	13.3	0.00117	mg/L	0.000259	0.0117	mg/L	0.00259	22.07%
Nit	-6.3	-0.00031	mg/L	0.000549	-0.00309	mg/L	0.005486	177.64%
Pbt	-30.6	-0.00694	mg/L	0.001492	-0.0694	mg/L	0.01492	21.50%
Vt	-1799.6	0.00269	mg/L	0.000077	0.0269	mg/L	0.00077	2.85%
Znt	685.4	0.0156	mg/L	0.00016	0.156	mg/L	0.0016	1.02%

Sequence No.: 65
Sample ID: 2705020842_10X2705020843_
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 79
Date Collected: 5/8/2007 22:49:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020842_10X2705020843_

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020842_10X2705020843_

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	355083.5	92.3	%	0.04				0.04%
Yr	300087.1	93.7	%	0.65				0.69%
Bat	357.9	0.00534	mg/L	0.000128	0.0534	mg/L	0.00128	2.40%
Bet	-1791.7	-0.00026	mg/L	0.000035	-0.00264	mg/L	0.000353	13.36%
Cat	1173737.4	91.7	mg/L	0.04	917	mg/L	0.4	0.05%
Cdt	-12.3	-0.00052	mg/L	0.000062	-0.00518	mg/L	0.000622	12.00%
Cot	4.1	0.00018	mg/L	0.000189	0.00177	mg/L	0.001888	106.92%
Crt	186215.1	2.60	mg/L	0.002	26.0	mg/L	0.02	0.09%
Cut	205.9	0.00054	mg/L	0.000217	0.00542	mg/L	0.002172	40.07%
Fet	-3.1	-0.00122	mg/L	0.001155	-0.0122	mg/L	0.01155	95.02%
Kt	4808.8	3.53	mg/L	0.020	35.3	mg/L	0.20	0.57%
Mgt	350829.4	46.1	mg/L	0.08	461	mg/L	0.8	0.18%
Mnt	2246.0	0.00425	mg/L	0.000017	0.0425	mg/L	0.00017	0.40%
Mot	13.3	0.00117	mg/L	0.000146	0.0117	mg/L	0.00146	12.45%
Nit	-1.0	-0.00005	mg/L	0.000088	-0.00050	mg/L	0.000880	174.68%
Pbt	-19.3	-0.00437	mg/L	0.001803	-0.0437	mg/L	0.01803	41.22%
Vt	-1128.6	0.00488	mg/L	0.000025	0.0488	mg/L	0.00025	0.50%
Znt	222.6	0.00507	mg/L	0.000078	0.0507	mg/L	0.00078	1.55%

Sequence No.: 66
Sample ID: 2705020843_5X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 80
Date Collected: 5/8/2007 22:54:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020843_5X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020843_5X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	340510.8	88.5	%	0.32				0.36%
Yr	293244.8	91.6	%	0.09				0.09%
Bat	755.0	0.0113	mg/L	0.00012	0.0564	mg/L	0.00060	1.06%
Bet	-2343.1	-0.00039	mg/L	0.000014	-0.00195	mg/L	0.000072	3.68%
Cat	2060642.9	161	mg/L	0.3	805	mg/L	1.3	0.16%
Cdt	-11.8	-0.00050	mg/L	0.000044	-0.00249	mg/L	0.000219	8.80%
Cot	0.8	0.00003	mg/L	0.000108	0.00016	mg/L	0.000541	329.05%
Crt	221311.8	3.09	mg/L	0.009	15.5	mg/L	0.04	0.28%
Cut	454.7	0.00120	mg/L	0.000043	0.00599	mg/L	0.000216	3.62%
Fet	70.7	0.0282	mg/L	0.00107	0.141	mg/L	0.0053	3.80%
Kt	14133.9	10.4	mg/L	0.06	51.8	mg/L	0.29	0.55%
Mgt	639293.1	84.1	mg/L	0.18	420	mg/L	0.9	0.22%
Mnt	7514.3	0.0142	mg/L	0.00009	0.0711	mg/L	0.00044	0.62%
Mot	17.4	0.00154	mg/L	0.000186	0.00769	mg/L	0.000929	12.08%
Nit	-12.8	-0.00063	mg/L	0.000242	-0.00313	mg/L	0.001210	38.69%
Pbt	-29.8	-0.00676	mg/L	0.002451	-0.0338	mg/L	0.01226	36.28%
Vt	-927.1	0.00843	mg/L	0.000083	0.0422	mg/L	0.00041	0.98%
Znt	410.0	0.00934	mg/L	0.000176	0.0467	mg/L	0.00088	1.88%

Sequence No.: 67
Sample ID: 2705020844_5X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 81
Date Collected: 5/8/2007 22:58:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020844_5X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020844_5X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	344958.0	89.7	%	0.29				0.33%
Yr	295829.7	92.4	%	1.28				1.39%
Bat	561.8	0.00839	mg/L	0.000069	0.0420	mg/L	0.00035	0.82%
Bet	-2052.0	-0.00036	mg/L	0.000032	-0.00180	mg/L	0.000160	8.88%
Cat	1857010.1	145	mg/L	0.0	725	mg/L	0.1	0.01%
Cdt	-9.2	-0.00039	mg/L	0.000283	-0.00195	mg/L	0.001415	72.59%
Cot	-4.6	-0.00020	mg/L	0.000097	-0.00100	mg/L	0.000485	48.62%
Crt	184148.4	2.57	mg/L	0.001	12.9	mg/L	0.01	0.05%
Cut	301.8	0.00079	mg/L	0.000160	0.00397	mg/L	0.000799	20.11%
Fet	-2.1	-0.00081	mg/L	0.001661	-0.00406	mg/L	0.008304	204.56%
Kt	9322.5	6.84	mg/L	0.092	34.2	mg/L	0.46	1.34%
Mgt	569444.3	74.9	mg/L	0.01	375	mg/L	0.0	0.01%
Mnt	3851.9	0.00729	mg/L	0.000072	0.0364	mg/L	0.00036	0.99%
Mot	19.9	0.00175	mg/L	0.000380	0.00877	mg/L	0.001901	21.68%
Nit	-7.1	-0.00035	mg/L	0.000109	-0.00173	mg/L	0.000546	31.59%
Pbt	-25.0	-0.00568	mg/L	0.000541	-0.0284	mg/L	0.00271	9.53%
Vt	-818.4	0.00672	mg/L	0.000070	0.0336	mg/L	0.00035	1.04%
Znt	979.9	0.0223	mg/L	0.00012	0.112	mg/L	0.0006	0.52%

Sequence No.: 68
Sample ID: 2705020845_5X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 82
Date Collected: 5/8/2007 23:02:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020845_5X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020845_5X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	345047.6	89.7	%	1.16				1.30%
Yr	296523.3	92.6	%	0.16				0.18%
Bat	580.5	0.00867	mg/L	0.000169	0.0434	mg/L	0.00085	1.95%
Bet	-1835.4	-0.00030	mg/L	0.000092	-0.00150	mg/L	0.000461	30.69%
Cat	1445488.2	113	mg/L	0.1	565	mg/L	0.5	0.10%
Cdt	-7.9	-0.00033	mg/L	0.000204	-0.00166	mg/L	0.001018	61.16%
Cot	-3.8	-0.00017	mg/L	0.000042	-0.00083	mg/L	0.000210	25.33%
Crt	175628.6	2.45	mg/L	0.004	12.3	mg/L	0.02	0.18%
Cut	379.3	0.00100	mg/L	0.000295	0.00499	mg/L	0.001475	29.55%
Fet	-4.6	-0.00182	mg/L	0.000875	-0.00909	mg/L	0.004376	48.14%
Kt	11652.2	8.54	mg/L	0.055	42.7	mg/L	0.28	0.65%
Mgt	494826.4	65.1	mg/L	0.04	325	mg/L	0.2	0.07%
Mnt	3776.7	0.00714	mg/L	0.000110	0.0357	mg/L	0.00055	1.53%
Mot	28.6	0.00252	mg/L	0.000585	0.0126	mg/L	0.00292	23.17%
Nit	-7.8	-0.00038	mg/L	0.000288	-0.00191	mg/L	0.001438	75.10%
Pbt	-17.5	-0.00397	mg/L	0.001297	-0.0199	mg/L	0.00649	32.65%
Vt	-395.2	0.00886	mg/L	0.000054	0.0443	mg/L	0.00027	0.61%
Znt	435.5	0.00992	mg/L	0.000056	0.0496	mg/L	0.00028	0.57%

Sequence No.: 69
Sample ID: 2705020846
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 83
Date Collected: 5/8/2007 23:07:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020846

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020846

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	324659.9	84.4	%	0.12				0.15%
Yr	288286.7	90.0	%	0.56				0.62%
Bat	1329.1	0.0199	mg/L	0.00006	0.0397	mg/L	0.00011	0.28%
Bet	-3307.7	-0.00052	mg/L	0.000016	-0.00105	mg/L	0.000033	3.12%
Cat	2675204.2	209	mg/L	3.6	418	mg/L	7.3	1.74%
Cdt	9.6	0.00041	mg/L	0.000125	0.00081	mg/L	0.000250	30.73%
Cot	3.8	0.00017	mg/L	0.000397	0.00033	mg/L	0.000794	238.74%
Crt	326182.9	4.55	mg/L	0.015	9.11	mg/L	0.030	0.33%
Cut	573.0	0.00151	mg/L	0.000129	0.00301	mg/L	0.000259	8.59%
Fet	248.6	0.0990	mg/L	0.00031	0.198	mg/L	0.0006	0.32%
Kt	27335.4	20.0	mg/L	0.04	40.1	mg/L	0.08	0.20%
Mgt	938537.0	123	mg/L	2.2	247	mg/L	4.3	1.76%
Mnt	8999.0	0.0170	mg/L	0.00008	0.0340	mg/L	0.00015	0.45%
Mot	105.0	0.00927	mg/L	0.000112	0.0185	mg/L	0.00022	1.21%
Nit	2.7	0.00013	mg/L	0.000390	0.00026	mg/L	0.000780	296.49%
Pbt	-26.7	-0.00606	mg/L	0.000747	-0.0121	mg/L	0.00149	12.34%
Vt	-516.0	0.0179	mg/L	0.00008	0.0357	mg/L	0.00016	0.45%
Znt	1749.1	0.0398	mg/L	0.00018	0.0797	mg/L	0.00035	0.45%

Sequence No.: 70
Sample ID: 2705020847
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 84
Date Collected: 5/8/2007 23:11:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020847

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020847

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	325397.1	84.6	%	0.22				0.26%
Yr	286132.5	89.4	%	0.31				0.34%
Bat	1146.5	0.0171	mg/L	0.00000	0.0343	mg/L	0.00000	0.00%
Bet	-2369.2	-0.00049	mg/L	0.000017	-0.00098	mg/L	0.000034	3.52%
Cat	2322976.5	181	mg/L	3.0	363	mg/L	5.9	1.63%
Cdt	14.0	0.00059	mg/L	0.000302	0.00118	mg/L	0.000605	51.27%
Cot	1.6	0.00007	mg/L	0.000036	0.00014	mg/L	0.000071	50.86%
Crt	174628.3	2.44	mg/L	0.007	4.88	mg/L	0.014	0.29%
Cut	748.2	0.00197	mg/L	0.000069	0.00393	mg/L	0.000138	3.51%
Fet	25.1	0.0100	mg/L	0.00115	0.0200	mg/L	0.00230	11.50%
Kt	26119.7	19.2	mg/L	0.08	38.3	mg/L	0.16	0.41%
Mgt	806940.9	106	mg/L	1.5	212	mg/L	2.9	1.38%
Mnt	8920.1	0.0169	mg/L	0.00006	0.0337	mg/L	0.00012	0.37%
Mot	153.2	0.0135	mg/L	0.00049	0.0270	mg/L	0.00099	3.65%
Nit	0.1	0.00000	mg/L	0.000324	0.00001	mg/L	0.000648	>999.9%
Pbt	-30.4	-0.00689	mg/L	0.000088	-0.0138	mg/L	0.00018	1.28%
Vt	553.2	0.0148	mg/L	0.00019	0.0297	mg/L	0.00038	1.27%
Znt	385.9	0.00879	mg/L	0.000022	0.0176	mg/L	0.00004	0.25%

Sequence No.: 71
Sample ID: 2705020849
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 85
Date Collected: 5/8/2007 23:16:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020849

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020849

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	335498.5	87.2	%	0.40				0.46%
Yr	294737.9	92.1	%	0.13				0.14%
Bat	1431.7	0.0214	mg/L	0.00002	0.0428	mg/L	0.00004	0.08%
Bet	-1333.8	-0.00042	mg/L	0.000029	-0.00084	mg/L	0.000058	6.85%
Cat	2856358.9	223	mg/L	3.7	446	mg/L	7.4	1.67%
Cdt	9.0	0.00038	mg/L	0.000154	0.00076	mg/L	0.000308	40.57%
Cot	0.6	0.00002	mg/L	0.000062	0.00005	mg/L	0.000124	258.78%
Crt	23996.8	0.335	mg/L	0.0011	0.670	mg/L	0.0023	0.34%
Cut	562.9	0.00148	mg/L	0.000040	0.00296	mg/L	0.000080	2.72%
Fet	-9.3	-0.00369	mg/L	0.000355	-0.00739	mg/L	0.000709	9.60%
Kt	25344.1	18.6	mg/L	0.11	37.2	mg/L	0.23	0.61%
Mgt	792023.0	104	mg/L	1.7	208	mg/L	3.3	1.59%
Mnt	19202.3	0.0363	mg/L	0.00011	0.0726	mg/L	0.00022	0.30%
Mot	158.1	0.0140	mg/L	0.00030	0.0279	mg/L	0.00060	2.14%
Nit	-6.3	-0.00031	mg/L	0.000080	-0.00062	mg/L	0.000159	25.81%
Pbt	-30.0	-0.00681	mg/L	0.001110	-0.0136	mg/L	0.00222	16.30%
Vt	3472.9	0.0237	mg/L	0.00001	0.0474	mg/L	0.00002	0.04%
Znt	217.0	0.00495	mg/L	0.000138	0.00989	mg/L	0.000275	2.78%

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

Autosampler Location: 4
Date Collected: 5/8/2007 23:20:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	358284.7	93.2	%	0.23				0.24%
Yr	299949.9	93.7	%	0.13				0.14%
Ba†	336249.4	5.03	mg/L	0.069	5.03	mg/L	0.069	1.37%
QC value within limits for Ba	Recovery = 100.54%							
Be†	5801641.8	2.04	mg/L	0.017	2.04	mg/L	0.017	0.84%
QC value within limits for Be	Recovery = 101.87%							
Ca†	653284.8	51.0	mg/L	0.09	51.0	mg/L	0.09	0.17%
QC value within limits for Ca	Recovery = 102.07%							
Cd†	59795.8	2.54	mg/L	0.035	2.54	mg/L	0.035	1.38%
QC value within limits for Cd	Recovery = 101.49%							
Co†	115512.4	5.03	mg/L	0.063	5.03	mg/L	0.063	1.25%
QC value within limits for Co	Recovery = 100.69%							
Cr†	360799.0	5.04	mg/L	0.051	5.04	mg/L	0.051	1.01%
QC value within limits for Cr	Recovery = 100.76%							
Cu†	1877293.7	4.95	mg/L	0.021	4.95	mg/L	0.021	0.43%
QC value within limits for Cu	Recovery = 98.98%							
Fe†	13060.6	5.21	mg/L	0.025	5.21	mg/L	0.025	0.48%
QC value within limits for Fe	Recovery = 104.10%							
K†	66948.5	49.1	mg/L	0.11	49.1	mg/L	0.11	0.23%
QC value within limits for K	Recovery = 98.18%							
Mg†	399315.5	52.5	mg/L	0.10	52.5	mg/L	0.10	0.19%
QC value within limits for Mg	Recovery = 105.06%							
Mn†	2694806.1	5.10	mg/L	0.017	5.10	mg/L	0.017	0.33%
QC value within limits for Mn	Recovery = 101.95%							
Mo†	56378.0	4.98	mg/L	0.062	4.98	mg/L	0.062	1.25%
QC value within limits for Mo	Recovery = 99.55%							
Ni†	103916.0	5.07	mg/L	0.062	5.07	mg/L	0.062	1.23%
QC value within limits for Ni	Recovery = 101.40%							
Pb†	22434.6	5.09	mg/L	0.061	5.09	mg/L	0.061	1.20%
QC value within limits for Pb	Recovery = 101.82%							
V†	786398.6	5.03	mg/L	0.007	5.03	mg/L	0.007	0.14%
QC value within limits for V	Recovery = 100.69%							
Zn†	224361.5	5.08	mg/L	0.067	5.08	mg/L	0.067	1.32%
QC value within limits for Zn	Recovery = 101.62%							

All analyte(s) passed QC.

Sequence No.: 73
Sample ID: CCB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/8/2007 23:23:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	382697.2	99.5	%	0.67				0.68%
Yr	319567.0	99.8	%	0.33				0.33%
Ba†	1.1	0.00002	mg/L	0.000021	0.00002	mg/L	0.000021	119.32%
QC value within limits for Ba	Recovery = Not calculated							
Be†	225.8	0.00008	mg/L	0.000033	0.00008	mg/L	0.000033	41.63%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-3.2	-0.00025	mg/L	0.000038	-0.00025	mg/L	0.000038	15.34%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	3.4	0.00014	mg/L	0.000037	0.00014	mg/L	0.000037	25.34%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-0.8	-0.00004	mg/L	0.000209	-0.00004	mg/L	0.000209	584.15%
QC value within limits for Co	Recovery = Not calculated							
Cr†	63.8	0.00089	mg/L	0.000059	0.00089	mg/L	0.000059	6.58%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-112.4	-0.00030	mg/L	0.000102	-0.00030	mg/L	0.000102	34.22%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.8	0.00073	mg/L	0.000762	0.00073	mg/L	0.000762	104.38%
QC value within limits for Fe	Recovery = Not calculated							
K†	-0.3	-0.00019	mg/L	0.024033	-0.00019	mg/L	0.024033	>999.9%
QC value within limits for K	Recovery = Not calculated							
Mg†	11.5	0.00152	mg/L	0.000352	0.00152	mg/L	0.000352	23.24%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-15.9	-0.00003	mg/L	0.000022	-0.00003	mg/L	0.000022	74.38%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	9.3	0.00083	mg/L	0.000024	0.00083	mg/L	0.000024	2.93%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	-2.5	-0.00012	mg/L	0.000043	-0.00012	mg/L	0.000043	34.41%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-0.9	-0.00019	mg/L	0.000558	-0.00019	mg/L	0.000558	287.62%
QC value within limits for Pb	Recovery = Not calculated							
V†	23.2	0.00015	mg/L	0.000251	0.00015	mg/L	0.000251	164.85%
QC value within limits for V	Recovery = Not calculated							
Zn†	0.7	0.00002	mg/L	0.000081	0.00002	mg/L	0.000081	473.40%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 74
Sample ID: 2705020850
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 86
Date Collected: 5/8/2007 23:27:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020850

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020850

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	331064.2	86.1	%	0.38				0.45%
Yr	292364.7	91.3	%	0.14				0.15%
Bat	1233.9	0.0184	mg/L	0.00005	0.0369	mg/L	0.00011	0.29%
Bet	-1463.0	-0.00049	mg/L	0.000012	-0.00098	mg/L	0.000023	2.37%
Cat	3363014.4	263	mg/L	2.7	525	mg/L	5.4	1.04%
Cdt	5.3	0.00022	mg/L	0.000141	0.00044	mg/L	0.000282	63.63%
Cot	-3.4	-0.00015	mg/L	0.000246	-0.00030	mg/L	0.000492	166.45%
Crt	13382.6	0.187	mg/L	0.0008	0.374	mg/L	0.0015	0.41%
Cut	604.3	0.00159	mg/L	0.000154	0.00318	mg/L	0.000307	9.67%
Fet	58.4	0.0233	mg/L	0.00006	0.0466	mg/L	0.00012	0.26%
Kt	27900.3	20.5	mg/L	0.05	40.9	mg/L	0.10	0.26%
Mgt	947789.9	125	mg/L	1.1	249	mg/L	2.1	0.85%
Mnt	7259.5	0.0137	mg/L	0.00008	0.0275	mg/L	0.00016	0.57%
Mot	110.2	0.00973	mg/L	0.000321	0.0195	mg/L	0.00064	3.30%
Nit	-8.5	-0.00041	mg/L	0.000106	-0.00083	mg/L	0.000211	25.56%
Pbt	-34.5	-0.00782	mg/L	0.000164	-0.0156	mg/L	0.00033	2.10%
Vt	2031.4	0.0138	mg/L	0.00010	0.0276	mg/L	0.00020	0.73%
Znt	391.8	0.00893	mg/L	0.000183	0.0179	mg/L	0.00037	2.04%

Sequence No.: 75
Sample ID: 2705020852
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 87
Date Collected: 5/8/2007 23:31:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020852

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020852

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	335325.3	87.2	%	0.57				0.66%
Yr	290716.3	90.8	%	0.24				0.26%
Ba†	1564.6	0.0234	mg/L	0.00006	0.0468	mg/L	0.00013	0.27%
Be†	-1243.4	-0.00040	mg/L	0.000004	-0.00080	mg/L	0.000008	0.98%
Ca†	3032186.5	237	mg/L	0.4	474	mg/L	0.8	0.16%
Cd†	7.2	0.00030	mg/L	0.000123	0.00060	mg/L	0.000246	40.85%
Co†	-5.6	-0.00025	mg/L	0.000039	-0.00049	mg/L	0.000078	15.82%
Cr†	18963.7	0.265	mg/L	0.0012	0.530	mg/L	0.0025	0.47%
Cu†	3754.8	0.00989	mg/L	0.000012	0.0198	mg/L	0.00002	0.13%
Fe†	1771.2	0.706	mg/L	0.0002	1.41	mg/L	0.000	0.03%
K†	29988.4	22.0	mg/L	0.09	44.0	mg/L	0.19	0.43%
Mg†	798721.9	105	mg/L	0.0	210	mg/L	0.0	0.00%
Mn†	11743.6	0.0222	mg/L	0.00020	0.0444	mg/L	0.00039	0.88%
Mo†	150.0	0.0132	mg/L	0.00002	0.0265	mg/L	0.00005	0.17%
Ni†	13.8	0.00067	mg/L	0.000616	0.00135	mg/L	0.001231	91.51%
Pb†	-2.6	-0.00060	mg/L	0.001079	-0.00119	mg/L	0.002159	181.19%
V†	1682.3	0.0120	mg/L	0.00019	0.0239	mg/L	0.00037	1.56%
Zn†	6251.1	0.142	mg/L	0.0011	0.285	mg/L	0.0021	0.74%

Sequence No.: 76
Sample ID: 2705020853
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 88
Date Collected: 5/8/2007 23:36:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020853

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2705020853

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	322123.7	83.8	%	0.12				0.15%
Yr	287169.6	89.7	%	2.24				2.50%
Bat	457.3	0.00685	mg/L	0.000040	0.0137	mg/L	0.00008	0.58%
Bet	-1995.9	-0.00060	mg/L	0.000017	-0.00119	mg/L	0.000033	2.79%
Cat	4342463.8	339	mg/L	6.5	678	mg/L	13.0	1.92%
Cdt	7.9	0.00033	mg/L	0.000165	0.00067	mg/L	0.000329	49.11%
Cot	1.5	0.00006	mg/L	0.000130	0.00013	mg/L	0.000260	205.02%
Crt	53461.0	0.747	mg/L	0.0007	1.49	mg/L	0.001	0.10%
Cut	797.6	0.00209	mg/L	0.000145	0.00417	mg/L	0.000290	6.96%
Fet	-3.3	-0.00127	mg/L	0.000338	-0.00255	mg/L	0.000676	26.54%
Kt	9804.1	7.19	mg/L	0.108	14.4	mg/L	0.22	1.50%
Mgt	1023065.2	135	mg/L	2.7	269	mg/L	5.3	1.98%
Mnt	33.5	0.00006	mg/L	0.000033	0.00013	mg/L	0.000066	52.05%
Mot	472.5	0.0417	mg/L	0.00005	0.0834	mg/L	0.00011	0.13%
Nit	18.8	0.00092	mg/L	0.000168	0.00184	mg/L	0.000337	18.34%
Pbt	-45.3	-0.0103	mg/L	0.00108	-0.0206	mg/L	0.00215	10.47%
Vt	3893.5	0.0283	mg/L	0.00011	0.0566	mg/L	0.00022	0.40%
Znt	467.3	0.0106	mg/L	0.00003	0.0213	mg/L	0.00006	0.29%

Sequence No.: 77
Sample ID: 27050209854_5X
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 89
Date Collected: 5/8/2007 23:40:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 27050209854_5X

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 27050209854_5X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	340290.6	88.5	%	0.60				0.68%
Yr	294217.2	91.9	%	0.72				0.78%
Bat	572.4	0.00855	mg/L	0.000071	0.0428	mg/L	0.00035	0.83%
Bet	-2285.8	-0.00034	mg/L	0.000017	-0.00170	mg/L	0.000086	5.08%
Cat	1946258.1	152	mg/L	0.3	760	mg/L	1.5	0.20%
Cdt	-8.2	-0.00035	mg/L	0.000075	-0.00173	mg/L	0.000374	21.66%
Cot	5.8	0.00025	mg/L	0.000205	0.00126	mg/L	0.001023	81.12%
Crt	235945.3	3.29	mg/L	0.006	16.5	mg/L	0.03	0.17%
Cut	311.8	0.00082	mg/L	0.000094	0.00410	mg/L	0.000468	11.42%
Fet	265.8	0.106	mg/L	0.0018	0.530	mg/L	0.0092	1.74%
Kt	12271.2	9.00	mg/L	0.108	45.0	mg/L	0.54	1.21%
Mgt	665600.5	87.5	mg/L	0.12	438	mg/L	0.6	0.14%
Mnt	12849.7	0.0243	mg/L	0.00015	0.122	mg/L	0.0008	0.63%
Mot	54.0	0.00477	mg/L	0.000202	0.0239	mg/L	0.00101	4.22%
Nit	13.9	0.00068	mg/L	0.000414	0.00339	mg/L	0.002070	61.06%
Pbt	-24.7	-0.00560	mg/L	0.000822	-0.0280	mg/L	0.00411	14.68%
Vt	-821.4	0.0101	mg/L	0.00004	0.0503	mg/L	0.00018	0.36%
Znt	474.2	0.0108	mg/L	0.00040	0.0540	mg/L	0.00202	3.74%

Sequence No.: 78
Sample ID: 2705020855
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 90
Date Collected: 5/8/2007 23:44:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020855

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020855

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	335558.1	87.3	%	0.07				0.08%
Yr	289350.9	90.4	%	0.21				0.23%
Bat	856.9	0.0128	mg/L	0.00001	0.0256	mg/L	0.00002	0.08%
Bet	-1008.2	-0.00035	mg/L	0.000026	-0.00070	mg/L	0.000052	7.37%
Cat	2271306.1	177	mg/L	1.0	355	mg/L	2.0	0.55%
Cdt	9.4	0.00039	mg/L	0.000086	0.00079	mg/L	0.000172	21.81%
Cot	-13.8	-0.00060	mg/L	0.000002	-0.00120	mg/L	0.000003	0.27%
Crt	2412.6	0.0337	mg/L	0.00016	0.0674	mg/L	0.00033	0.48%
Cut	675.7	0.00178	mg/L	0.000006	0.00355	mg/L	0.000011	0.31%
Fet	87.3	0.0348	mg/L	0.00141	0.0695	mg/L	0.00283	4.07%
Kt	18349.1	13.5	mg/L	0.02	26.9	mg/L	0.03	0.12%
Mgt	668429.7	87.9	mg/L	0.49	176	mg/L	1.0	0.55%
Mnt	4841.5	0.00916	mg/L	0.000006	0.0183	mg/L	0.00001	0.07%
Mot	114.5	0.0101	mg/L	0.00031	0.0202	mg/L	0.00062	3.07%
Nit	-2.3	-0.00011	mg/L	0.000510	-0.00022	mg/L	0.001021	463.30%
Pbt	-29.0	-0.00658	mg/L	0.001253	-0.0132	mg/L	0.00251	19.04%
Vt	3370.0	0.0216	mg/L	0.00006	0.0433	mg/L	0.00012	0.27%
Znt	973.5	0.0222	mg/L	0.00021	0.0444	mg/L	0.00042	0.96%

Sequence No.: 79
Sample ID: 2705020856
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 91
Date Collected: 5/8/2007 23:49:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2705020856

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2705020856

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	359927.1	93.6	%	0.44				0.47%
Yr	299288.0	93.5	%	0.40				0.43%
Bat	616.7	0.00922	mg/L	0.000059	0.0184	mg/L	0.00012	0.64%
Bet	-402.1	-0.00014	mg/L	0.000043	-0.00028	mg/L	0.000086	31.07%
Cat	676945.4	52.9	mg/L	0.17	106	mg/L	0.3	0.31%
Cdt	3.4	0.00014	mg/L	0.000145	0.00029	mg/L	0.000290	101.56%
Cot	-6.8	-0.00030	mg/L	0.000021	-0.00060	mg/L	0.000042	7.01%
Crt	1584.6	0.0221	mg/L	0.00018	0.0443	mg/L	0.00036	0.82%
Cut	198.5	0.00052	mg/L	0.000012	0.00104	mg/L	0.000023	2.25%
Fet	87.5	0.0348	mg/L	0.00166	0.0697	mg/L	0.00333	4.77%
Kt	6964.6	5.11	mg/L	0.006	10.2	mg/L	0.01	0.11%
Mgt	190078.6	25.0	mg/L	0.09	50.0	mg/L	0.17	0.34%
Mnt	1729.4	0.00327	mg/L	0.000010	0.00654	mg/L	0.000021	0.32%
Mot	58.3	0.00514	mg/L	0.000379	0.0103	mg/L	0.00076	7.37%
Nit	-3.8	-0.00019	mg/L	0.000182	-0.00037	mg/L	0.000364	97.45%
Pbt	-14.9	-0.00337	mg/L	0.000687	-0.00674	mg/L	0.001374	20.37%
Vt	2330.5	0.0149	mg/L	0.00007	0.0299	mg/L	0.00014	0.47%
Znt	378.5	0.00863	mg/L	0.000082	0.0173	mg/L	0.00016	0.96%

Sequence No.: 115
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/9/2007 02:06:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	349547.1	90.9	%	0.28				0.30%
Yr	290634.8	90.8	%	1.52				1.68%
Ba†	121.3	0.00181	mg/L	0.000117	0.00181	mg/L	0.000117	6.48%
QC value within limits for Ba		Recovery = Not calculated						
Be†	-1010.8	-0.00035	mg/L	0.000002	-0.00035	mg/L	0.000002	0.60%
QC value within limits for Be		Recovery = Not calculated						
Ca†	3237377.6	253	mg/L	2.9	253	mg/L	2.9	1.15%
QC value within limits for Ca		Recovery = 101.16%						
Cd†	-37.2	-0.00156	mg/L	0.000313	-0.00156	mg/L	0.000313	20.04%
QC value within limits for Cd		Recovery = Not calculated						
Co†	33.6	0.00147	mg/L	0.000178	0.00147	mg/L	0.000178	12.17%
QC value within limits for Co		Recovery = Not calculated						
Cr†	-32.4	-0.00045	mg/L	0.000042	-0.00045	mg/L	0.000042	9.28%
QC value within limits for Cr		Recovery = Not calculated						
Cu†	-4838.8	-0.0127	mg/L	0.00006	-0.0127	mg/L	0.00006	0.44%
QC value within limits for Cu		Recovery = Not calculated						
Fe†	252939.1	101	mg/L	1.4	101	mg/L	1.4	1.43%
QC value within limits for Fe		Recovery = 100.76%						
K†	119.4	0.0876	mg/L	0.01074	0.0876	mg/L	0.01074	12.26%
QC value within limits for K		Recovery = Not calculated						
Mg†	1842753.5	243	mg/L	3.5	243	mg/L	3.5	1.45%
QC value within limits for Mg		Recovery = 97.00%						
Mn†	1580.0	0.00299	mg/L	0.000005	0.00299	mg/L	0.000005	0.16%
QC value within limits for Mn		Recovery = Not calculated						
Mo†	-27.2	-0.00240	mg/L	0.000133	-0.00240	mg/L	0.000133	5.52%
QC value within limits for Mo		Recovery = Not calculated						
Ni†	-16.9	-0.00082	mg/L	0.000137	-0.00082	mg/L	0.000137	16.59%
QC value within limits for Ni		Recovery = Not calculated						
Pb†	-151.7	-0.0344	mg/L	0.00041	-0.0344	mg/L	0.00041	1.19%
QC value within limits for Pb		Recovery = Not calculated						
V†	-874.3	-0.00186	mg/L	0.000169	-0.00186	mg/L	0.000169	9.09%
QC value within limits for V		Recovery = Not calculated						
Zn†	823.0	0.0188	mg/L	0.00010	0.0188	mg/L	0.00010	0.52%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 116
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 5/9/2007 02:10:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	345846.4	89.9	%	0.02				0.03%
Yr	289493.3	90.4	%	0.78				0.87%
Ba†	17226.2	0.258	mg/L	0.0003	0.258	mg/L	0.0003	0.12%
QC value within limits for Ba	Recovery = 103.02%							
Be†	709782.7	0.249	mg/L	0.0000	0.249	mg/L	0.0000	0.02%
QC value within limits for Be	Recovery = 99.68%							
Ca†	3275459.3	256	mg/L	0.8	256	mg/L	0.8	0.30%
QC value within limits for Ca	Recovery = 102.35%							
Cd†	11760.5	0.496	mg/L	0.0017	0.496	mg/L	0.0017	0.34%
QC value within limits for Cd	Recovery = 99.21%							
Co†	5563.2	0.242	mg/L	0.0005	0.242	mg/L	0.0005	0.19%
QC value within limits for Co	Recovery = 96.99%							
Cr†	17916.9	0.250	mg/L	0.0000	0.250	mg/L	0.0000	0.01%
QC value within limits for Cr	Recovery = 100.07%							
Cu†	94188.2	0.248	mg/L	0.0002	0.248	mg/L	0.0002	0.10%
QC value within limits for Cu	Recovery = 99.36%							
Fe†	252370.8	101	mg/L	0.2	101	mg/L	0.2	0.23%
QC value within limits for Fe	Recovery = 100.53%							
K†	69.2	0.0507	mg/L	0.01678	0.0507	mg/L	0.01678	33.06%
QC value within limits for K	Recovery = Not calculated							
Mg†	1859607.3	245	mg/L	0.5	245	mg/L	0.5	0.22%
QC value within limits for Mg	Recovery = 97.89%							
Mn†	138382.9	0.262	mg/L	0.0003	0.262	mg/L	0.0003	0.11%
QC value within limits for Mn	Recovery = 104.70%							
Mo†	-25.9	-0.00228	mg/L	0.000128	-0.00228	mg/L	0.000128	5.61%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	9674.8	0.472	mg/L	0.0004	0.472	mg/L	0.0004	0.09%
QC value within limits for Ni	Recovery = 94.41%							
Pb†	2040.9	0.463	mg/L	0.0001	0.463	mg/L	0.0001	0.02%
QC value within limits for Pb	Recovery = 92.63%							
V†	38603.5	0.251	mg/L	0.0005	0.251	mg/L	0.0005	0.18%
QC value within limits for V	Recovery = 100.30%							
Zn†	23693.7	0.537	mg/L	0.0012	0.537	mg/L	0.0012	0.23%
QC value within limits for Zn	Recovery = 107.39%							

All analyte(s) passed QC.

Sequence No.: 117
Sample ID: Wash
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/9/2007 02:14:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	387108.8	101	%	0.5				0.53%
Yr	318080.1	99.3	%	1.44				1.45%
Ba†	1.5	0.00002	mg/L	0.000029	0.00002	mg/L	0.000029	131.58%
QC value within limits for Ba	Recovery = Not calculated							
Be†	140.7	0.00005	mg/L	0.000015	0.00005	mg/L	0.000015	30.94%
QC value within limits for Be	Recovery = Not calculated							
Ca†	4.9	0.00038	mg/L	0.000567	0.00038	mg/L	0.000567	149.27%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	0.6	0.00003	mg/L	0.000040	0.00003	mg/L	0.000040	156.12%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-6.5	-0.00028	mg/L	0.000066	-0.00028	mg/L	0.000066	23.02%
QC value within limits for Co	Recovery = Not calculated							
Cr†	9.0	0.00013	mg/L	0.000091	0.00013	mg/L	0.000091	72.29%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-349.6	-0.00092	mg/L	0.000134	-0.00092	mg/L	0.000134	14.53%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	10.2	0.00407	mg/L	0.001808	0.00407	mg/L	0.001808	44.40%
QC value within limits for Fe	Recovery = Not calculated							
K†	-97.8	-0.0717	mg/L	0.01563	-0.0717	mg/L	0.01563	21.81%
QC value within limits for K	Recovery = Not calculated							
Mg†	35.5	0.00468	mg/L	0.001122	0.00468	mg/L	0.001122	23.99%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	77.3	0.00015	mg/L	0.000014	0.00015	mg/L	0.000014	9.54%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	-2.5	-0.00022	mg/L	0.000331	-0.00022	mg/L	0.000331	148.88%
QC value within limits for Mo	Recovery = Not calculated							
Ni†	-8.8	-0.00043	mg/L	0.000097	-0.00043	mg/L	0.000097	22.58%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	2.4	0.00054	mg/L	0.001043	0.00054	mg/L	0.001043	193.80%
QC value within limits for Pb	Recovery = Not calculated							
V†	-1.0	-0.00001	mg/L	0.000248	-0.00001	mg/L	0.000248	>999.9%
QC value within limits for V	Recovery = Not calculated							
Zn†	-7.3	-0.00016	mg/L	0.000069	-0.00016	mg/L	0.000069	42.07%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 118
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 5/9/2007 02:17:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	390646.0	102	%	0.0				0.01%
Yr	314053.5	98.1	%	1.96				2.00%
Ba†	69041.4	1.03	mg/L	0.006	1.03	mg/L	0.006	0.55%
QC value within limits for Ba Recovery = 103.22%								
Be†	2736509.0	0.961	mg/L	0.0031	0.961	mg/L	0.0031	0.32%
QC value within limits for Be Recovery = 96.08%								
Ca†	13207.0	1.03	mg/L	0.024	1.03	mg/L	0.024	2.30%
QC value within limits for Ca Recovery = 103.17%								
Cd†	22992.1	0.972	mg/L	0.0049	0.972	mg/L	0.0049	0.51%
QC value within limits for Cd Recovery = 97.20%								
Co†	23602.3	1.03	mg/L	0.004	1.03	mg/L	0.004	0.40%
QC value within limits for Co Recovery = 102.87%								
Cr†	71798.6	1.00	mg/L	0.003	1.00	mg/L	0.003	0.30%
QC value within limits for Cr Recovery = 100.26%								
Cu†	359970.6	0.949	mg/L	0.0007	0.949	mg/L	0.0007	0.07%
QC value within limits for Cu Recovery = 94.90%								
Fe†	2597.6	1.04	mg/L	0.024	1.04	mg/L	0.024	2.33%
QC value within limits for Fe Recovery = 103.52%								
K†	13355.6	9.79	mg/L	0.043	9.79	mg/L	0.043	0.44%
QC value within limits for K Recovery = 97.93%								
Mg†	8409.1	1.11	mg/L	0.024	1.11	mg/L	0.024	2.20%
QC value greater than the upper limit for Mg Recovery = 110.73%								
Mn†	542868.6	1.03	mg/L	0.000	1.03	mg/L	0.000	0.04%
QC value within limits for Mn Recovery = 102.69%								
Mo†	10849.5	0.958	mg/L	0.0041	0.958	mg/L	0.0041	0.43%
QC value within limits for Mo Recovery = 95.79%								
Ni†	21373.6	1.04	mg/L	0.004	1.04	mg/L	0.004	0.42%
QC value within limits for Ni Recovery = 104.28%								
Pb†	4596.8	1.04	mg/L	0.012	1.04	mg/L	0.012	1.12%
QC value within limits for Pb Recovery = 104.32%								
V†	152578.4	0.977	mg/L	0.0023	0.977	mg/L	0.0023	0.24%
QC value within limits for V Recovery = 97.69%								
Zn†	44831.6	1.02	mg/L	0.005	1.02	mg/L	0.005	0.53%
QC value within limits for Zn Recovery = 101.51%								

QC Failed. Retry.

Sequence No.: 119
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 5/9/2007 02:19:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	388496.6	101	%	0.2				0.21%
Yr	319407.2	99.8	%	0.81				0.81%

Bat	68514.0	1.02 mg/L	0.003	1.02 mg/L	0.003	0.34%
QC value within limits for Ba	Recovery = 102.43%					
Bet	2738959.7	0.962 mg/L	0.0007	0.962 mg/L	0.0007	0.07%
QC value within limits for Be	Recovery = 96.17%					
Cat	12941.5	1.01 mg/L	0.015	1.01 mg/L	0.015	1.49%
QC value within limits for Ca	Recovery = 101.10%					
Cdt	22835.0	0.965 mg/L	0.0032	0.965 mg/L	0.0032	0.33%
QC value within limits for Cd	Recovery = 96.54%					
Cot	23487.3	1.02 mg/L	0.004	1.02 mg/L	0.004	0.42%
QC value within limits for Co	Recovery = 102.37%					
Crt	71956.0	1.00 mg/L	0.003	1.00 mg/L	0.003	0.33%
QC value within limits for Cr	Recovery = 100.48%					
Cut	362392.2	0.955 mg/L	0.0004	0.955 mg/L	0.0004	0.04%
QC value within limits for Cu	Recovery = 95.54%					
Fet	2553.9	1.02 mg/L	0.011	1.02 mg/L	0.011	1.13%
QC value within limits for Fe	Recovery = 101.78%					
Kt	13222.6	9.70 mg/L	0.076	9.70 mg/L	0.076	0.79%
QC value within limits for K	Recovery = 96.96%					
Mgt	8229.0	1.08 mg/L	0.014	1.08 mg/L	0.014	1.29%
QC value within limits for Mg	Recovery = 108.36%					
Mnt	544687.1	1.03 mg/L	0.000	1.03 mg/L	0.000	0.04%
QC value within limits for Mn	Recovery = 103.03%					
Mot	10813.7	0.955 mg/L	0.0006	0.955 mg/L	0.0006	0.06%
QC value within limits for Mo	Recovery = 95.47%					
Nit	21195.6	1.03 mg/L	0.000	1.03 mg/L	0.000	0.03%
QC value within limits for Ni	Recovery = 103.41%					
Pbt	4574.6	1.04 mg/L	0.001	1.04 mg/L	0.001	0.12%
QC value within limits for Pb	Recovery = 103.81%					
Vt	152765.9	0.978 mg/L	0.0026	0.978 mg/L	0.0026	0.27%
QC value within limits for V	Recovery = 97.81%					
Znt	44486.4	1.01 mg/L	0.002	1.01 mg/L	0.002	0.16%
QC value within limits for Zn	Recovery = 100.73%					

All analyte(s) passed QC.

Sequence No.: 120
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/9/2007 02:22:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	361789.0	94.1	%	1.02				1.08%
Yr	304543.3	95.1	%	2.16				2.27%
Bat	334771.8	5.01	mg/L	0.053	5.01	mg/L	0.053	1.05%
QC value within limits for Ba		Recovery = 100.10%						
Bet	5763542.1	2.02	mg/L	0.025	2.02	mg/L	0.025	1.24%
QC value within limits for Be		Recovery = 101.20%						
Cat	650703.3	50.8	mg/L	0.08	50.8	mg/L	0.08	0.15%
QC value within limits for Ca		Recovery = 101.67%						
Cdt	59772.0	2.54	mg/L	0.028	2.54	mg/L	0.028	1.12%
QC value within limits for Cd		Recovery = 101.45%						
Cot	115566.2	5.04	mg/L	0.060	5.04	mg/L	0.060	1.19%
QC value within limits for Co		Recovery = 100.74%						
Crt	361177.5	5.04	mg/L	0.050	5.04	mg/L	0.050	1.00%
QC value within limits for Cr		Recovery = 100.87%						
Cut	1864507.8	4.92	mg/L	0.025	4.92	mg/L	0.025	0.52%
QC value within limits for Cu		Recovery = 98.30%						
Fet	12823.0	5.11	mg/L	0.150	5.11	mg/L	0.150	2.93%
QC value within limits for Fe		Recovery = 102.21%						
Kt	67805.5	49.7	mg/L	1.66	49.7	mg/L	1.66	3.33%
QC value within limits for K		Recovery = 99.44%						
Mgt	397935.6	52.3	mg/L	0.03	52.3	mg/L	0.03	0.07%
QC value within limits for Mg		Recovery = 104.69%						
Mnt	2681426.1	5.07	mg/L	0.016	5.07	mg/L	0.016	0.32%
QC value within limits for Mn		Recovery = 101.44%						
Mot	56243.8	4.97	mg/L	0.056	4.97	mg/L	0.056	1.13%
QC value within limits for Mo		Recovery = 99.31%						
Nit	104092.9	5.08	mg/L	0.055	5.08	mg/L	0.055	1.07%
QC value within limits for Ni		Recovery = 101.58%						
Pbt	22421.6	5.09	mg/L	0.036	5.09	mg/L	0.036	0.71%
QC value within limits for Pb		Recovery = 101.76%						
Vt	783894.1	5.02	mg/L	0.016	5.02	mg/L	0.016	0.31%
QC value within limits for V		Recovery = 100.37%						
Znt	224175.7	5.08	mg/L	0.057	5.08	mg/L	0.057	1.12%
QC value within limits for Zn		Recovery = 101.53%						

All analyte(s) passed QC.

Sequence No.: 121
Sample ID: ECB
Analyst: Walter Hsieh
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 0
Date Collected: 5/9/2007 02:26:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	385765.2	100	%	0.3				0.30%
Yr	313546.8	97.9	%	1.67				1.71%
Bat	-4.1	-0.00006	mg/L	0.000097	-0.00006	mg/L	0.000097	159.18%
QC value within limits for Ba		Recovery = Not calculated						
Bet	193.9	0.00007	mg/L	0.000024	0.00007	mg/L	0.000024	35.70%
QC value within limits for Be		Recovery = Not calculated						
Cat	-34.3	-0.00268	mg/L	0.000327	-0.00268	mg/L	0.000327	12.19%
QC value within limits for Ca		Recovery = Not calculated						
Cdt	-1.6	-0.00007	mg/L	0.000063	-0.00007	mg/L	0.000063	94.73%
QC value within limits for Cd		Recovery = Not calculated						
Cot	-1.7	-0.00007	mg/L	0.000090	-0.00007	mg/L	0.000090	119.90%
QC value within limits for Co		Recovery = Not calculated						
Crt	9.8	0.00014	mg/L	0.000040	0.00014	mg/L	0.000040	29.18%
QC value within limits for Cr		Recovery = Not calculated						
Cut	-314.4	-0.00083	mg/L	0.000069	-0.00083	mg/L	0.000069	8.37%
QC value within limits for Cu		Recovery = Not calculated						
Fet	-0.0	-0.00001	mg/L	0.000570	-0.00001	mg/L	0.000570	>999.9%
QC value within limits for Fe		Recovery = Not calculated						
Kt	-42.9	-0.0315	mg/L	0.00674	-0.0315	mg/L	0.00674	21.43%
QC value within limits for K		Recovery = Not calculated						
Mgt	0.4	0.00005	mg/L	0.001497	0.00005	mg/L	0.001497	>999.9%
QC value within limits for Mg		Recovery = Not calculated						
Mnt	49.1	0.00009	mg/L	0.000004	0.00009	mg/L	0.000004	4.39%
QC value within limits for Mn		Recovery = Not calculated						
Mot	15.3	0.00135	mg/L	0.000305	0.00135	mg/L	0.000305	22.49%
QC value within limits for Mo		Recovery = Not calculated						
Nit	-2.2	-0.00011	mg/L	0.000245	-0.00011	mg/L	0.000245	229.59%
QC value within limits for Ni		Recovery = Not calculated						
Pbt	6.7	0.00152	mg/L	0.001557	0.00152	mg/L	0.001557	102.51%
QC value within limits for Pb		Recovery = Not calculated						
Vt	19.9	0.00013	mg/L	0.000059	0.00013	mg/L	0.000059	45.82%
QC value within limits for V		Recovery = Not calculated						
Znt	0.6	0.00002	mg/L	0.000055	0.00002	mg/L	0.000055	364.53%
QC value within limits for Zn		Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 122
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 5/9/2007 02:29:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	383661.4	99.8	%	0.67				0.67%
Yr	313751.1	98.0	%	0.00				0.00%
Ba†	1346.6	0.0201	mg/L	0.00018	0.0201	mg/L	0.00018	0.90%
QC value within limits for Ba		Recovery = 100.61%						
Be†	2994.5	0.00105	mg/L	0.000017	0.00105	mg/L	0.000017	1.59%
QC value within limits for Be		Recovery = 105.27%						
Ca†	12951.3	1.01	mg/L	0.004	1.01	mg/L	0.004	0.41%
QC value within limits for Ca		Recovery = 101.18%						
Cd†	151.7	0.00658	mg/L	0.000057	0.00658	mg/L	0.000057	0.87%
QC value within limits for Cd		Recovery = 131.67%						
Co†	1148.6	0.0501	mg/L	0.00044	0.0501	mg/L	0.00044	0.87%
QC value within limits for Co		Recovery = 100.12%						
Cr†	729.1	0.0102	mg/L	0.00017	0.0102	mg/L	0.00017	1.64%
QC value within limits for Cr		Recovery = 101.82%						
Cu†	3395.8	0.00898	mg/L	0.000029	0.00898	mg/L	0.000029	0.32%
QC value within limits for Cu		Recovery = 89.81%						
Fe†	51.8	0.0206	mg/L	0.00043	0.0206	mg/L	0.00043	2.09%
QC value within limits for Fe		Recovery = 103.24%						
K†	1263.5	0.927	mg/L	0.0401	0.927	mg/L	0.0401	4.33%
QC value within limits for K		Recovery = 92.65%						
Mg†	815.4	0.107	mg/L	0.0006	0.107	mg/L	0.0006	0.54%
QC value within limits for Mg		Recovery = 107.28%						
Mn†	1137.7	0.00215	mg/L	0.000018	0.00215	mg/L	0.000018	0.85%
QC value within limits for Mn		Recovery = 107.60%						
Mo†	223.4	0.0197	mg/L	0.00013	0.0197	mg/L	0.00013	0.67%
QC value within limits for Mo		Recovery = 98.61%						
Ni†	415.0	0.0202	mg/L	0.00036	0.0202	mg/L	0.00036	1.77%
QC value within limits for Ni		Recovery = 101.25%						
Pb†	98.7	0.0224	mg/L	0.00053	0.0224	mg/L	0.00053	2.38%
QC value within limits for Pb		Recovery = 112.02%						
V†	306.0	0.00200	mg/L	0.000003	0.00200	mg/L	0.000003	0.15%
QC value within limits for V		Recovery = 100.23%						
Zn†	917.8	0.0208	mg/L	0.00008	0.0208	mg/L	0.00008	0.37%
QC value within limits for Zn		Recovery = 103.93%						

All analyte(s) passed QC.

Analytical Sequence
Method: 6010_060831

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	LINEARITY	QC Passed
5	10	ICSA	QC Passed
6	11	ICSAB	QC Failed
7	0	Wash	QC Passed
8	12	QC-25 1ppm	QC Passed
9	4	CCV	QC Passed
10	0	ICB	QC Passed
11	20	MRL	QC Passed
12	0	WASH	Analyzed
13	22	MRL6010	Analyzed
14	38	MBLANK6010	Analyzed
15	39	LCS	Analyzed
16	40	LCSD	Analyzed
17	41	2705020861	Analyzed
18	42	2705020861MS	Analyzed
19	43	2705020861MSD	Analyzed
20	44	2705030181	Analyzed
21	45	2705030181MS	Analyzed
22	4	CCV	QC Passed
23	0	CCB	QC Passed
24	46	2705030181MSD	Analyzed
25	47	2705020857	Analyzed
26	48	2705020858	Analyzed
27	49	2705020859	Analyzed
28	50	2705020860_5X	Analyzed
29	51	2705020862	Analyzed
30	52	2705020863	Analyzed
31	53	2705020864	Analyzed
32	54	2705030127	Analyzed
33	55	2705030133	Analyzed
34	4	CCV	QC Passed
35	0	CCB	QC Passed
36	5	MCV	QC Passed
37	56	2705030134	Analyzed
38	57	2705030135	Analyzed
39	58	2705030175_5X	Analyzed
40	59	2705030177	Analyzed
41	60	2705030178_5X	Analyzed
42	61	2705030179_10X	Analyzed
43	62	2705030180	Analyzed
44	63	2705030182	Analyzed
45	64	2705030183	Analyzed
46	65	MBLANK6010	Analyzed
47	4	CCV	QC Passed
48	0	CCB	QC Passed
49	66	LCS	Analyzed
50	67	LCSD	Analyzed
51	68	2705020848	Analyzed
52	69	2705020848MS	Analyzed
53	70	2705020848MSD	Analyzed
54	71	2705020851	Analyzed
55	72	2705020851MS	Analyzed
56	73	2705020851MSD	Analyzed
57	74	2705020837_20X	Analyzed
58	75	2705020838_10X	Analyzed
59	4	CCV	QC Passed
60	0	CCB	QC Passed
61	5	MCV	QC Passed
62	76	2705020839_10X	Analyzed
63	77	2705020840_10X	Analyzed
64	78	2705020841_10X	Analyzed
65	79	2705020842_10X2705020843	Analyzed
66	80	2705020843_5X	Analyzed
67	81	2705020844_5X	Analyzed

68	82	2705020845_5X	Analyzed
69	83	2705020846	Analyzed
70	84	2705020847	Analyzed
71	85	2705020849	Analyzed
72	4	CCV	QC Passed
73	0	CCB	QC Passed
74	86	2705020850	Analyzed
75	87	2705020852	Analyzed
76	88	2705020853	Analyzed
77	89	27050209854_5X	Analyzed
78	90	2705020855	Analyzed
79	91	2705020856	Analyzed
80	92	MBLANK6010	Analyzed
81	93	LCS	Analyzed
82	94	LCSD	Analyzed
83	95	2705030184	Analyzed
84	4	CCV	QC Passed
85	0	CCB	QC Passed
86	5	MCV	QC Passed
87	96	2705030184MS	Analyzed
88	97	2705030184MSD	Analyzed
89	98	2705040334	Analyzed
90	99	2705040334MS	Analyzed
91	100	2705040334MSD	Analyzed
92	101	2705030203_5X	Analyzed
93	102	2705030204	Analyzed
94	103	2705030205	Analyzed
95	104	2705030206	Analyzed
96	105	2705030207	Analyzed
97	4	CCV	QC Passed
98	0	CCB	QC Passed
99	106	2705030208	Analyzed
100	107	2705030211	Analyzed
101	108	2705030217	Analyzed
102	109	2705030218	Analyzed
103	110	2705030219	Analyzed
104	111	2705030220	Analyzed
105	112	2705040313	Analyzed
106	113	2705040314	Analyzed
107	114	2705040316	Analyzed
108	115	2705040327	Analyzed
109	4	CCV	QC Passed
110	0	CCB	QC Passed
111	5	MCV	QC Passed
112	116	2705040328	Analyzed
113	117	2705040330	Analyzed
114	118	2705040331	Analyzed
115	10	ICSA	QC Passed
116	11	ICSAB	QC Passed
117	0	Wash	QC Passed
118	12	QC-25 1ppm	QC Failed
119	12	QC-25 1ppm	QC Passed
120	4	ECV	QC Passed
121	0	ECB	QC Passed
122	21	MRL	QC Passed

Standard Preparation Worksheet & Certificate of Analysis

Reagent Lot #

HNO3 R# 100401 HCL R# 100402
IS = Yttrium(ME0509007)0.75mL + Scandium ME0606006)0.5mL to 1000mL w/ 2% HNO3

Standards	Lot #	Exp. Date	Dilution
Calibration	ME0704023	(05/01/08)	1:10 ME0704027
(Prepare daily)	ME0704024	(05/01/08)	1:10
			CCV/ECV MCV
CCV/MCV/ECV	ME0610005	(04/10/08)	1:20 ME0610006 1:40 ME0610007
(Prepare daily)			
Spike/LCS	ME0606004	(12/13/07)	1:100 ME0601006
(Prepare daily)	ME0703002	(05/10/07)	1:100
	ME0606003	(12/13/07)	1:200
MRL	ME0703010	(09/16/07)	1:100 ME0603015
(Prepare daily)			
ICSA	ME0703003	(09/16/07)	
ICSAB	ME0703004	(09/16/07)	
QC-25 1PPM	ME0703005	(09/16/07)	
Linearity	ME0701011	(07/26/07)	
Method Sr/Ti/Sn/SiO2			
Calibration	ME0701012	(05/10/07)	
CCV/ECV	ME0703007	(09/16/07)	
Spike/LCS	ME0703006	(09/16/07)	1:100
(Prepare daily)			
MRL	ME0703009	(05/10/07)	1:100
(Prepare daily)			
Method Li			
Std/ICV/MRL	ME0703008	(09/16/07)	1:1000, 200, 40, 10
(Prepare daily)			
LCS/Spike	ME0701003	(07/04/07)	1:50
(Prepare daily)			
ccv	ME0701003	(07/04/07)	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.
From 10/4/06: the QC-25 1ppm solution ref # should be ME0610001 not ME0610002.

Intial: lv 37
Date: 4/23/07

METALS STANDARD DOCUMENTATION

Standard: ICPCalibration Stock Std #1
Date Received/Prepped: 4/23/2007
Date Expired: 5/1/2008
Manufacturer: Inorganic Ventures
Matrix: 5% Nitric Acid
Amount: 500 mL

ME #: 0704023
By: wbh
Lot #: A2-MEB235010
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		100 ug/ml
Be		50 ug/ml
SR		40 ug/ml
Ag		30 ug/ml
		20 ug/ml

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CERTIFICATE OF ANALYSIS

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

2.0 **DESCRIPTION OF CRM**

Custom Solution

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB235010**

Matrix: 5% HNO3(abs)

M8070402 3

1,000.00 µg/mL each:
Ca, K, Mg, Na,
100.00 µg/mL each:
Al, As, Ba, Co, Cr3, Cu, Fe, Mn, Ni, Pb, Se, Tl, V, Zn,
50.00 µg/mL each:
Cd,
40.00 µg/mL each:
Be,
30.00 µg/mL each:
Sr,
20.00 µg/mL each:
Ag

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	100.1 ± 0.5 µg/mL	Arsenic, As	100.2 ± 0.3 µg/mL	Barium, Ba	99.9 ± 0.2 µg/mL
Beryllium, Be	39.98 ± 0.08 µg/mL	Cadmium, Cd	50.05 ± 0.12 µg/mL	Calcium, Ca	997 ± 3 µg/mL
Chromium+3, Cr3	100.1 ± 0.4 µg/mL	Cobalt, Co	100.1 ± 0.2 µg/mL	Copper, Cu	100.1 ± 0.2 µg/mL
Iron, Fe	100.0 ± 0.2 µg/mL	Lead, Pb	100.1 ± 0.3 µg/mL	Magnesium, Mg	996 ± 3 µg/mL
Manganese, Mn	100.1 ± 0.3 µg/mL	Nickel, Ni	100.1 ± 0.2 µg/mL	Potassium, K	1,003 ± 2 µg/mL
Selenium, Se	100.1 ± 0.2 µg/mL	Silver, Ag	20.03 ± 0.06 µg/mL	Sodium, Na	997 ± 5 µg/mL
Strontium, Sr	29.92 ± 0.18 µg/mL	Thallium, Tl	100.0 ± 0.1 µg/mL	Vanadium, V	100.1 ± 0.3 µg/mL
Zinc, Zn	100.1 ± 0.4 µg/mL				

Certified Density: 1.056 g/mL (measured at 22° C)

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

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

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

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

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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

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

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Al	ICP Assay	3101a	010808
As	ICP Assay	3103a	010713
Ba	Gravimetric		See Sec. 4.2
Be	Gravimetric		See Sec. 4.2
Ca	EDTA	928	928
Cd	EDTA	928	928
Co	ICP Assay	3113	00630
Cr3	ICP Assay	3112a	990607
Cu	EDTA	928	928
Fe	ICP Assay	3126a	000606
K	ICP Assay	3141a	891312
Mg	EDTA	928	928
Mn	EDTA	928	928
Na	ICP Assay	3152a	990907
Ni	EDTA	928	928
Pb	ICP Assay	3128	030721
Se	ICP Assay	3149	992106
Sr	ICP Assay	3153a	990906
Tl	Gravimetric		See Sec. 4.2
V	ICP Assay	3165	992706
Zn	EDTA	928	928

ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	Volhard	999a	999a
Al	EDTA	928	928
As	Gravimetric		See Sec. 4.2
Ba	ICP Assay	3104a	992907
Be	ICP Assay	3105a	892707
Ca	ICP Assay	3109a	000622
Cd	ICP Assay	3108	890312
Co	EDTA	928	928
Cr3	Gravimetric		See Sec. 4.2
Cu	ICP Assay	3114	891811
Fe	EDTA	928	928
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	991107
Mn	ICP Assay	3132	890903
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	000612
Pb	EDTA	928	928
Se	Gravimetric		See Sec. 4.2
Sr	EDTA	928	928
Tl	ICP Assay	3158	993012
V	EDTA	928	928
Zn	ICP Assay	3168a	001402

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

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

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

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

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

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

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

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

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

10.0 QUALITY STANDARD DOCUMENTATION

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

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

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

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

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

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

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

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

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

Certification Date: April 16, 2007
Expiration Date:

EXPIRES
1 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product Documentation Administrator

Certificate Approved By: Katalin Le, QC Manager

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

Intial: WB
Date: 4/23/07

METALS STANDARD DOCUMENTATION

Standard:	ICPCalibration Stock Std #2	**ME #:**	0704024
Date Received/Prepped:	4/23/2007	**By:**	wbh
Date Expired:	5/1/2008	**Lot #:**	A2-MEB235011
Manufacturer:	Inorganic Ventures	**Certificate:**	Y
Matrix:	5% Nitric Acid + Trace HF	**NIST SRM:**	Varies
Amount:	500 mL	**Storage:**	Room Temp

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

INORGANIC VENTURES
195 Lehigh Avenue, Suite 4
Lakewood, New Jersey 08701 - USA
Inorganicventures.com
tel: 800.669.6799 - 732.901.1900
fax: 732.901.1990
info@inorganicventures.com

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."

M20704024

2.0 **DESCRIPTION OF CRM**

	Custom Solution
Catalog No.:	MWH-ICAP-CAL-2
Lot Number:	**A2-MEB235011**
Matrix:	tr. HF, 5% HNO3(abs)

100.00 µg/mL each:
Mo, Sb, Sn, Ti,
50.00 µg/mL each:
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	50.07 ± 0.28 µg/mL	Molybdenum, Mo	100.3 ± 0.3 µg/mL
Tin, Sn	100.3 ± 0.3 µg/mL	Titanium, Ti	100.5 ± 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.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105
Recognized by:
Registrar Accreditation Board (ANSI-RAB)
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Dutch Council for Accreditation (RVA)
Entidad Mexicana de Acreditacion, a.c.(EMA)
Members of IQ Net International Certification Network:
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10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"
- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"
- Reference Materials Production - Accredited A2LA Certificate Number 883.02
A2LA Mutual Recognition Agreement Partners:
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10.4 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licensing of Production and Utilization Facilities

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

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

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

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

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

Certification Date: April 16, 2007
Expiration Date:

EXPIRES
APR 16 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product Documentation Administrator

Certificate Approved By: Katalin Le, QC Manager

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

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	991907
Mo	Gravimetric		See Sec. 4.2
Sb	ICP Assay	3102a	990707
Sn	ICP Assay	3161a	993107
Ti	Gravimetric		See Sec. 4.2

ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	Gravimetric		See Sec. 4.2
Mo	ICP Assay	3134	891307
Sb	Gravimetric		See Sec. 4.2
Sn	Gravimetric		See Sec. 4.2
Ti	ICP Assay	3162a	992801

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

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

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

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

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

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

HF Note: This standard should not be prepared or stored in glass.

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

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

Intial:
Date:

METALS STANDARD DOCUMENTATION

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

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

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

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The Netherlands www.cpiinternational.com

Expiry: 4/10/2008

Certificate of Analysis

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

M706J0025

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.

METALS STANDARD DOCUMENTATION

CWB
6/19/06

Standard: ICP/ICPMS LCS/SPIKE Solution

ME #: 0606004

Date Received/Prepped: 6/19/2006
Date Expired: 12/13/2006
Manufacturer: CPI
Matrix: 5% HNO3 + 0.1% HF
Amount: 10 x 100 mL

By: wbh
Lot #: 06F103
Certificate: Y
NIST SRM: 3100 Series
Storage: Room Temp

Component	Comment	Conc. Unit:
Iron	CPI P/N: 4400-050314RH01	500 mg/L
Aluminum		200 mg/L
Barium		100 mg/L
Cobalt		100 mg/L
Chromium		100 mg/L
Copper		100 mg/L
Molybdenum		100 mg/L
Strontium		100 mg/L
Titanium		100 mg/L
Vanadium		100 mg/L
Zinc		100 mg/L
Tin		100 mg/L
Silver		50 mg/L
Boron		50 mg/L
Manganese		50 mg/L
Nickel		50 mg/L
Antimony		50 mg/L
Arsenic		20 mg/L
Cadmium		20 mg/L
Lead		20 mg/L
Selenium		20 mg/L
Thallium		5 mg/L
Uraium		100 mg/L
Beryllium		
Tin		

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P.O. Box 2704 +31 20 638 05 97
1000 CS Amsterdam Fax +31 20 420 28 36
The Netherlands www.cpiinternational.com

Expiry: 12/13/2007

Certificate of Analysis

Part Number: **4400-050314RH01**
Lot Number: **06F103**
Shelf Life: **18 months**

M70 6060 4

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

Concentrations in ug/mL ± 0.5%

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

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

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

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

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

Intial: WBH
Date: 3/5/07

METALS STANDARD DOCUMENTATION

Standard:	ICP Spike solution	**ME #:**	0703002
Date Received/Prepped:	3/5/2007	**By:**	WBH
Date Expired:	5/10/2007	**Lot #:**	
Manufacturer:	MWH-WBH	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3100 SERIES
Amount:	100mL x 2	**Storage:**	Room Temp

Component	Comment	Conc. Unit:
AS	8.0mL ME0611005/100mL	80 ppm
PB	8.0mL ME0511020/100mL	80 ppm
SE	8.0mL ME0703001/100mL	80 ppm
TL	8.0mL ME0509006/100mL	80 ppm

Intial: WBH
Date: 11/4/06

METALS STANDARD DOCUMENTATION

Standard:	Arsenic Stock Std	**ME #:**	0611005
Date Received/Prepped:	11/1/2006	**By:**	WBH
Date Expired:	10/1/2007	**Lot #:**	Y-AS02029
Manufacturer:	IV	**Certificate:**	Y
Matrix:	1.4% HNO3	**NIST SRM:**	
Amount:	100mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
AS	Cat # CGAS1-1	1004	ppm

INORGANIC VENTURES

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

tel: 800.669.6799 - 732.901.1900
fax: 732.901.1903
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

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

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

Catalog Number:	CGAS1-1, CGAS1-2, and CGAS1-5
Lot Number:	**Y -AS02029**
Starting Material:	As Polycrystaline lump
Starting Material Purity (%):	99.999055
Starting Material Lot No:	23115
Matrix:	1.4% (abs) HNO3

MT0611005

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1004 ± 2 µg/mL 995 ± 2 µg/g

Certified Density: 1.009 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:

Certified Value $(\bar{x}) = \frac{\sum x1}{n}$

Uncertainty $(\pm) = \frac{2[(\sum s1)2]^{1/2}}{(n)^{1/2}}$

($\bar{x}$) = mean
x1 = individual results
n = number of measurements
$\sum s1$ = The summation of all significant estimated errors
(Most common are the errors from instrumental measurement weighting, 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 IV 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** **1004 ± 2 µg/mL 995 ± 2 µg/g (Avg 2 runs)**
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 **1003 ± 5 µg/mL 994 ± 5 µg/g**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

4.2 **BALANCE CALIBRATION** - All balances are checked daily using in-house procedure number 6-IMM001. The weights used for testing are annually compared to Gerhart Scale Corporation's master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months by Gerhart Scale Corp. of South Amboy. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-98.

4.3 **THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. The in-house procedure No. is 2-QC-001.Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.

4.4 **GLASSWARE CALIBRATION** - In-house procedure 3-QC-002 is used to calibrate all Class A glassware used in the manufacture and quality control of CRM's.

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

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

O Al 0.00038	M Dy < 0.01884	O Li < 0.00002	M Pr < 0.00094	M Te < 0.09418
O Sb < 0.01000	M Er < 0.01570	M Lu < 0.00126	O Re < 0.01000	M Tb < 0.00094
s As	M Eu < 0.00942	O Mg 0.00017	M Rh < 0.00314	M Tl < 0.00314
M Ba < 0.03139	M Gd < 0.00314	O Mn 0.00005	M Rb < 0.00314	M Th < 0.00314
M Be < 0.00157	M Ga < 0.00314	O Hg < 0.01200	M Ru < 0.00628	M Tm < 0.00126
M Bi < 0.00126	M Ge < 0.01884	M Mo < 0.00628	M Sm < 0.00314	O Sn 0.00073
O B < 0.01200	M Au < 0.00942	M Nd < 0.00628	M Sc < 0.03139	M Ti < 0.15697
M Cd < 0.00942	M Hf < 0.00628	O Ni < 0.00200	M Se < 0.02511	M W < 0.03139
O Ca 0.00206	M Ho < 0.00157	O Nb < 0.00200	O Si 0.00476	M U < 0.00628
M Ce < 0.01570	M In < 0.03139	n Os	M Ag < 0.00628	M V < 0.00628
M Cs < 0.00094	M Ir < 0.01570	M Pd < 0.01570	O Na 0.00159	M Yb < 0.00314
M Cr < 0.01570	O Fe < 0.00110	O P < 0.00260	M Sr < 0.00157	M Y < 0.12558
M Co < 0.00942	M La < 0.00157	M Pt < 0.00628	O S < 0.02500	O Zn 0.00044
M Cu < 0.01884	M Pb < 0.00942	O K 0.00048	M Ta < 0.02198	M Zr < 0.01570

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

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

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

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

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

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

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

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

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

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

10.0 QUALITY STANDARD DOCUMENTATION

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

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

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

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

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

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

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 IV Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies (P-SP01020) of chemically-stable solutions performed at Inorganic Ventures Labs indicate a CRM shelf-life of four years for solutions packaged in 500-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

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

Certification Date: September 15, 2005

Expiration Date: EXPIRES 1 Q 2007

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, QA Administrator

Certificate Approved By: Katalin Le, QC Manager

Certifying Officer: Paul Gaines, PhD., Technical Director

Intial: WBH
Date: 3/5/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

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

MT-0703001

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: 6/19/06

METALS STANDARD DOCUMENTATION

Standard:	ICP LCS/Spike stock Std	**ME #:**	0605003
Date Received/Prepped:	6/19/2006	**By:**	WBH
Date Expired:	12/13/2007	**Lot #:**	06F102
Manufacturer:	MWH-WBH	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	Various
Amount:	500 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
CA	P/N 4400-130309	10000	PPM
K	per 500ml DI	4000	PPM
MG		4000	PPM
NA		10000	PPM

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CERTIFICATE OF ANALYSIS

P/N: 4400-130309
Lot Number: 06F102
Shelf Life: 18 months
Expiration Date: 12/13/2007

MT0606003

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

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

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

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

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

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

Intial: WBH
Date: 3/16/07

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Working stock Solution	**ME #:**	0703010
Date Received/Prepped:	3/16/2007	**By:**	WBH
Date Expired:	9/16/2007	**Lot #:**	
Manufacturer:	MWH-WBH	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	2X100 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Al	10mL ME0609001	5	ppm
Sb		5	ppm
As		10	ppm
Ba		2	ppm
Be		0.1	ppm
B		5	ppm
Cd		0.5	ppm
Ca		100	ppm
Cr		1	ppm
Co		5	ppm
Cu		1	ppm
Fe		2	ppm
Pb		2	ppm
Mg		10	ppm
Mn		0.2	ppm
Mo		2	ppm
Ni		2	ppm
K		100	ppm
Se		10	ppm
Ag		1	ppm
Na		100	ppm
Zn		2	ppm
V		0.2	ppm
Tl		10	ppm
Li		0.1	ppm
Ti		2	ppm
Sr		1	ppm
Sn		20	ppm

Intial: WBH
Date: 9/25/06

METALS STANDARD DOCUMENTATION

Standard: ICP MRL Stock Solution
Date Received/Prepped: 9/25/2006
Date Expired: 9/20/2007
Manufacturer: CPI
Matrix: 2% HNO3 + tr HF
Amount: 100 mL

ME #: 0609001
By: WBH
Lot #: 06I162
Certificate: Yes
NIST SRM: 3100 series
Storage: Room Temp

Component	Comment	Conc. Unit:
Al	Part # 4400-060915RH01	50 ppm
Sb		50 ppm
As		100 ppm
Ba		20 ppm
Be		1 ppm
B		50 ppm
Cd		5 ppm
Ca		1000 ppm
Cr		10 ppm
Co		50 ppm
Cu		10 ppm
Fe		20 ppm
Pb		20 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
Zn		20 ppm
V		2 ppm
Tl		10 ppm
Li		1 ppm
Ti		20 ppm
Sr		10 ppm
Sn		200 ppm

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14Z060900 1

Expiry: 9/20/2007

Certificate of Analysis

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

MWH
Custom Standard
2% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

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

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

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

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

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

Intial: DYH
Date: 3/16/07

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Std A(ICSA)	**ME #:**	0703003
Date Received/Prepped:	3/16/2007	**By:**	DYH
Date Expired:	9/16/2007	**Lot #:**	VARIOUS
Manufacturer:	MWH-DYH	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Al	25mL ME0603001/500mL	250	PPM
Ca		250	PPM
Fe		100	PPM
Mg		250	PPM

Intial: WBH
Date: 3/2/06

METALS STANDARD DOCUMENTATION

Standard:	ICP ICSA Stock solution	**ME #:**	0603001
Date Received/Prepped:	3/2/2006	**By:**	WBH
Date Expired:	8/23/2007	**Lot #:**	06A078
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	varius
Amount:	500mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
AL	P/N 4400-INTA1-500	5000	mg/L
CA		5000	mg/L
FE		2000	mg/L
MG		2000	mg/L

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CERTIFICATE OF ANALYSIS

P/N 4400-INTA1-500

CLP Interferents A Solution
in 5% HNO_3

M20603-01

Lot # 06A078

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: DYH
Date: 3/16/07

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Std AB(ICSAB)	**ME #:**	0703004
Date Received/Prepped:	3/16/2007	**By:**	DYH
Date Expired:	9/16/2007	**Lot #:**	VARIOUS
Manufacturer:	MWH-DYH	**Certificate:**	
Matrix:	5% HNO3 + 10% HCl	**NIST SRM:**	
Amount:	500 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Al	25mL ME0603001/500mL	250	ppm
Ca		250	ppm
Fe		100	ppm
Mg		250	ppm
Ag	2.5mL ME0603002/500mL	0.5	ppm
Ba		0.25	ppm
Be		0.25	ppm
Cd		0.5	ppm
Co		0.25	ppm
Cr		0.25	ppm
Cu		0.25	ppm
Mn		0.25	ppm
Ni		0.5	ppm
Pb		0.5	ppm
V		0.25	ppm
Zn		0.5	ppm

Intial: WBH
Date: 3/2/06

METALS STANDARD DOCUMENTATION

Standard:	ICP ICSA Stock solution	**ME #:**	0603001
Date Received/Prepped:	3/2/2006	**By:**	WBH
Date Expired:	8/23/2007	**Lot #:**	06A078
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	varius
Amount:	500mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
AL	P/N 4400-INTA1-500	5000	mg/L
CA		5000	mg/L
FE		2000	mg/L
MG		2000	mg/L

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CERTIFICATE OF ANALYSIS

P/N 4400-INTA1-500

CLP Interferents A Solution
in 5% HNO_3

M#060301

Lot # 06A078

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: 3/2/06

METALS STANDARD DOCUMENTATION

Standard:	ICSB Stock Solution	**ME #:**	0603002
Date Received/Prepped:	3/2/2006	**By:**	WBH
Date Expired:	8/23/2007	**Lot #:**	04L149
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	3100 series
Amount:	100 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Ag	P/N 4400-INTB1-100	100	ppm
Ba		50	ppm
Be		50	ppm
Cd		100	ppm
Co		50	ppm
Cr		50	ppm
Mn		50	ppm
Ni		100	ppm
Pb		100	ppm
V		50	ppm
Zn		100	ppm
Sb		50	ppm

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M706.3.002

CERTIFICATE OF ANALYSIS

P/N 4400-INTB1-100

CLP Analytes B Solution
in 5% HNO_3

Lot # 04L149

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: DYH
Date: 3/16/07

METALS STANDARD DOCUMENTATION

Standard: ICP QC-25 1PPM
Date Received/Prepped: 3/16/2007
Date Expired: 9/16/2007
Manufacturer: MWH-DYH
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0703005
By: DYH
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp

Component	Comment	Conc.	Unit:
Ag	5mL ME0608006+ 5mL ME0608007	1	ppm
Al	per 500mL DI	1	
B		1	
Ba		1	
Be		1	
Ca		1	
Cd		1	
Co		1	
Cr		1	
Cu		1	
Fe		1	
K		10	
Li		1	
Mg		1	
Mn		1	
Mo		1	
Na		1	
Ni		1	
Pb		1	
Sb		1	
Se		1	
Si		0.5	
Sr		1	
Ti		1	
Tl		1	
V		1	
Zn		1	

Intial: WBH
Date: 8/31/06

METALS STANDARD DOCUMENTATION

Standard:	QC Check Std 21	**ME #:**	0608006
Date Received/Prepped:	8/31/2006	**By:**	WBH
Date Expired:	8/31/2007	**Lot #:**	062504J
Manufacturer:	Crescent Chemical	**Certificate:**	Y
Matrix:	5% HNO3 + tr. Tartaric Acid	**NIST SRM:**	Various
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
AS	QC-021.1	100	ppm
Be		100	ppm
Ca		100	ppm
Cd		100	ppm
Co		100	ppm
Cr		100	ppm
Cu		100	ppm
Fe		100	ppm
Li		100	ppm
Mg		100	ppm
Mn		100	ppm
Mo		100	ppm
Ni		100	ppm
Pb		100	ppm
Sb		100	ppm
Se		100	ppm
Sr		100	ppm
Ti		100	ppm
Tl		100	ppm
V		100	ppm
Zn		100	ppm

MZ060800G

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.:** 062504J

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 2007

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

Intial: WBH
Date: 8/31/06

METALS STANDARD DOCUMENTATION

Standard:	QC Check Std 7	**ME #:**	0608007
Date Received/Prepped:	8/31/2006	**By:**	WBH
Date Expired:	8/31/2007	**Lot #:**	062504K
Manufacturer:	Crescent Chemical	**Certificate:**	Y
Matrix:	5% HNO3 + tr. HF	**NIST SRM:**	Various
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Ag	QC-007.1	100	ppm
Al		100	ppm
B		100	ppm
Ba		100	ppm
K		1000	ppm
Na		100	ppm
Si		50	ppm

ME060807

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.:** 062504K

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 2007

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

Intial: WBH
Date: 1/26/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped: 1/26/2007
Date Expired: 7/26/2007
Manufacturer: MWH-WBH
Matrix: 5% HNO3
Amount: 500mL

ME #: 0701011
By: WBH
Lot #:
Certificate: Y
NIST SRM: 3100 SERIES
Storage: Room Temp

Component	Comment	Conc. Unit:
CA	15.0mL ME0509005/500mL	300 ppm
K	15.0mL ME0509001/500mL	300 ppm
MG	10.0mL ME0509002/500mL	200 ppm
NA	15.0mL ME0509004/500mL	300 ppm
FE	5.0mL ME0701008/500mL	100 ppm

Intial: WBH
Date: 1/28/07

METALS STANDARD DOCUMENTATION

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

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

CPI INTERNATIONAL

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CERTIFICATE OF ANALYSIS

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.

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

Project No._____

Book No._____ TITLE _____ # 90

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Log #	CLIENT	SX TD	MIX	VOLUME	COMMENTS
	2007	JRP	05-08-07		HNO3 Rx# 100410 (1ml)
BLANK	DIGEST				HCl Rx# 100402 (2.5ml)
LCS					LCS/SPIKE
LCSD					ME 0606004
2705020861	KERRMCGEE-MP	EB-1	AQ	50ml → 50ml	ME 0703002 → (6.5ml)
MS					ME 0704005 → (0.2cc ul)
MSD					
2705030181		M-19			
MS					
MSD					
2705020857		M-98			
0858		M-99			
0859		M-57A			
0860		M-25			
0862		M-10			
0863		MD-4			
0864		M-37			
2705030127		M-5A			
0133		M-6A			
0134		M-7B			
0135		H-28A			
0175		M-31A			
0177		M-77			
0178		M-52			
0179		M-50			
0180		M-21			
0182		M-39			
0183		EB-2			
	200-7 DIGEST	JRP	05-08-07		

To Page No.____

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

Project No._____

Book No._____ TITLE #89

From Page No.___

LOG #	CLIENT	SK-ID	MIX	VOLUME	COMMENTS
	200-7	JRF	05-08-07		HNO_3 Rx# 100402 (1 ml)
BLANK	DIGEST				HCl Rx# 100402 (25
LCS					LCS/SPIKE
LCSD					ME 0606004 → (0.5 ml)
2705020848	KERRMCGEE-MP	I-S	AQ	50ml → 50ml	ME 0703002
MS					ME 0704005 → (0.250 ml)
MSD					MRL
2705020851	KERRMCGEE-MP	I-S			ME 0703010 → (500 µl)
MS					
MSD					
2705020837		I 0			
0838		I-P			
0839		I-H			
0840		I-U			
0841		I-Q			
0842		I-F			
0843		I-N			
0844		I-E			
0845		I-M			
0846		I-D			
0847		I-C			
0849		I-L			
0850		I-R			
0852		I-AR			
0853		PC-127			
0854		I-T			
0855		M-69			
0856		M-79			
	200-7 DIGEST	05/08/07	JRF		

To Page No.____

Witnessed & Understood by me, | Date | Invented by | Date

Recorded by