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Level IV Data Package

MWH Group 239631

Method: EPA 6010B: CR6010

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EPA 200.7/6010B QC Check List

Analyst CSK Analysis Date 5-18-08 Reviewer/Date 5-19-08

Instrumnet PerKin Elmer Optima 4300DV

✓ All sample analyzed within 6 month holding time

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

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

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

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

✓ No more than 20 samples per batch

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

NA QIR needed for failed QC

NA Special Det Code noted on the cover sheet

NA R value for multi point calibration is > 0.995

NA Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 03/31/08

Int: CSK
Date: 5-19-08

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 080518A
Date Started: 5/18/08
Analyst ID: CSK

SAMPLE ID

LINEARITY	(17:31)	Wash	(17:42)	FILTERCHECK	(18:01)
2805060278_2	(18:17)	2805060290_2	(18:29)	2805060277_2	(19:00)
2805060279_2	(19:05)	2805060280_2	(19:09)	2805060281_2	(19:13)
2805060282_2	(19:18)	2805060291_2	(19:22)	2805060293_2	(19:26)
2805060294_2	(19:30)	2805060303_2	(19:34)	2805060305_2	(19:55)
2805060311_2	(19:59)	2805060312_2	(20:03)	2805060313_2	(20:07)
2805060314_2	(20:12)	2805060315_2	(20:16)	2805060316_2	(20:20)
2805060317_2	(20:23)	2805060318_2	(20:28)	2805070236_2	(21:03)
2805070239_2	(21:14)	2805060319_2	(21:49)	2805060320_2	(21:53)
2805070224_1	(21:57)	2805070225_1	(22:02)	2805070226_1	(22:06)
2805070227_1	(22:10)	2805070228_1	(22:15)	2805070229_5	(22:19)
2805070230_5	(22:23)	2805070231_5	(22:27)	2805070232_5	(22:48)
2805070233_5	(22:52)	2805070234_5	(22:56)	2805070235_5	(23:01)
2805070237_2	(23:05)	2805070238_2	(23:09)	2805070240_2	(23:14)
2805070241_2	(23:17)	2805080195_2	(0:01)	2805080199_2	(0:13)
2805070675_2	(0:24)	2805070677_2	(0:44)	2805070678_2	(0:49)
2805070679_2	(0:53)	2805080191_2	(0:58)	2805080192_2	(1:02)
2805080193_2	(1:06)	2805080194_2	(1:11)	2805080196_2	(1:15)
2805080197_2	(1:19)	2805080200_5	(1:23)	2805080201_2	(1:50)
2805080202_2	(1:54)	2805080646_2	(1:58)	2805080652_2	(2:03)
2805080653_2	(2:07)	2805080654_2	(2:11)	2805080655_5	(2:16)

COMMENT:

Analyst: CSK 5-19-08

Approved By: WSM

BATCH NUMBER for 080518A

Test Parameter:

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

Batch ID: 2805060278MSD

2805060278_2X	2805060290_2X	2805060277_2X
2805060279_2X	2805060280_2X	2805060281_2X
2805060282_2X	2805060291_2X	2805060293_2X
2805060294_2X	2805060303_2X	2805060305_2X
2805060311_2X	2805060312_2X	2805060313_2X
2805060314_2X	2805060315_2X	2805060316_2X
2805060317_2X	2805060318_2X	

Batch ID: 2805070236MSD

2805070236_2X	2805070239_2X	2805060319_2X
2805060320_2X	2805070224_10X	2805070225_10X
2805070226_10X	2805070227_10X	2805070228_10X
2805070229_5X	2805070230_5X	2805070231_5X
2805070232_5X	2805070233_5X	2805070234_5X
2805070235_5X	2805070237_2X	2805070238_2X
2805070240_2X	2805070241_2X	

Batch ID: 2805080195MSD

2805080195_2X	2805080199_2X	2805070675_2X
2805070677_2X	2805070678_2X	2805070679_2X
2805080191_2X	2805080192_2X	2805080193_2X
2805080194_2X	2805080196_2X	2805080197_2X
2805080200_5X	2805080201_2X	2805080202_2X
2805080646_2X	2805080652_2X	2805080653_2X
2805080654_2X	2805080655_5X	

File ID: 080518A

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	5/18/08	17:27	1	9.9085	9.91	95-105	99.0%
LINEARITY	5/18/08	17:31	1	0.0028	.0028		
ICSA	5/18/08	17:34	1	0.0001	0.0001	80-120	
ICSAB	5/18/08	17:38	1	.25231	.252	80-120	100%
Wash	5/18/08	17:42	1	0.0000	0		
QC-25 1ppm	5/18/08	17:45	1	1.0403	1.0		
CCV	5/18/08	17:48	1	5.2731	5.27	90-110	105%
ICB	5/18/08	17:54	1	0.0001	0.0000		
MRL	5/18/08	17:57	1	0.0101	.0101	50-150	100%
FILTERCHECK	5/18/08	18:01	1	0.0001	0.0000		
MBLANK2007	5/18/08	18:04	1	-0.0003	ND		
MRL2007	5/18/08	18:08	1	0.0110	.011		
LCS2007	5/18/08	18:12	1	.98414	.984	85-115	98.4%
LCSD2007	5/18/08	18:14	1	1.0117	1.01	85-115	101%
2805060278✓2X	5/18/08	18:17	2	1.5065	1.5		
2805060278MS_2X MS	5/18/08	18:21	2	2.5349	2.53	[2.535] 126%	103%
2805060278MSD_2X	5/18/08	18:25	2	2.4880	2.49	[2.488] 124%	99%
T	5/18/08	18:25	2		2.00	70 - 130	
2805060290✓2X	5/18/08	18:29	2	.72706	.730		
2805060290MS_2X	5/18/08	18:33	2	1.7559	1.76	[1.756] 87.7%	103%
CCV	5/18/08	18:37	1	5.3038	5.3	90-110	106%
CCB	5/18/08	18:53	1	-0.0001	ND		
2805060290MSD_2X	5/18/08	18:56	2	1.8027	1.8	[1.803] 90.1%	107%
T	5/18/08	18:56	2		2.00	70 - 130	
2805060277✓2X	5/18/08	19:00	2	2.2543	2.3		
2805060279✓2X	5/18/08	19:05	2	.14819	.150		
2805060280✓2X	5/18/08	19:09	2	.43372	.430		
2805060281✓2X	5/18/08	19:13	2	.29487	.290		
2805060282✓2X	5/18/08	19:18	2	.39975	.4		
2805060291✓2X	5/18/08	19:22	2	.86217	.860		
2805060293✓2X	5/18/08	19:26	2	0.0003	0.0003		
2805060294✓2X	5/18/08	19:30	2	.84315	.840		
2805060303✓2X	5/18/08	19:34	2	.72369	.720		
CCV	5/18/08	19:39	1	5.3042	5.3	90-110	106%
CCB	5/18/08	19:48	1	0.0000	0.0000		
MCV	5/18/08	19:51	1	2.6896	2.69	90-110	107%
2805060305✓2X	5/18/08	19:55	2	1.7698	1.8		
2805060311✓2X	5/18/08	19:59	2	0.0288	.029		
2805060312✓2X	5/18/08	20:03	2	.03061	.031		
2805060313✓2X	5/18/08	20:07	2	.08019	.080		
2805060314✓2X	5/18/08	20:12	2	1.8556	1.9		
2805060315✓2X	5/18/08	20:16	2	.15056	.150		
2805060316✓2X	5/18/08	20:20	2	.72850	.730		
2805060317✓2X	5/18/08	20:23	2	0.0014	.0014		
2805060318✓2X	5/18/08	20:28	2	0.0012	.0012		
MBLANK2007	5/18/08	20:32	1	-0.0001	ND		

File ID: 080518A CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	5/18/08	20:36	1	5.2937	5.29	90-110	105%
CCB	5/18/08	20:45	1	-0.0001	ND		
MRL	5/18/08	20:48	1	0.0105	.0105	50-150	104%
MRL2007	5/18/08	20:52	1	0.0114	.0114		
LCS2007	5/18/08	20:55	1	.98141	.981	85-115	98.1%
LCSD2007	5/18/08	20:59	1	.98674	.987	85-115	98.6%
2805070236_2X	5/18/08	21:03	2	2.4963	2.5		
2805070236MS_2X MS	5/18/08	21:07	2	3.5493	3.55	[3.549] 177 Q	105%
2805070236MSD_2X MSD	5/18/08	21:11	2	3.4558	3.46	[3.456] 172 Q	96%
T	5/18/08	21:11	2		2.00	70 - 130	
2805070239_2X	5/18/08	21:14	2	.35058	.350		
2805070239MS_2X	5/18/08	21:19	2	1.3820	1.38	[1.382] 69.1 Q	103%
2805070239MSD_2X	5/18/08	21:23	2	1.3806	1.38	[1.381] 69.0 Q	103%
T	5/18/08	21:23	2		2.00	70 - 130	
CCV	5/18/08	21:31	1	5.3385	5.34	90-110	106%
CCB	5/18/08	21:39	1	-0.0002	ND		
MCV	5/18/08	21:45	1	2.7138	2.71	90-110	108%
2805060319_2X	5/18/08	21:49	2	1.3345	1.3		
2805060320_2X	5/18/08	21:53	2	1.2794	1.3		
2805070224_10X	5/18/08	21:57	10	32.116	32		
2805070225_10X	5/18/08	22:02	10	31.225	31		
2805070226_10X	5/18/08	22:06	10	32.792	33		
2805070227_10X	5/18/08	22:10	10	31.880	32		
2805070228_10X	5/18/08	22:15	10	31.928	32		
2805070229_5X	5/18/08	22:19	5	16.677	17		
2805070230_5X	5/18/08	22:23	5	23.457	23		
2805070231_5X	5/18/08	22:27	5	14.553	15		
CCV	5/18/08	22:35	1	5.3029	5.3	90-110	106%
CCB	5/18/08	22:44	1	0.0021	.0021		
2805070232_5X	5/18/08	22:48	5	13.061	13		
2805070233_5X	5/18/08	22:52	5	11.616	12		
2805070234_5X	5/18/08	22:56	5	9.7618	9.8		
2805070235_5X	5/18/08	23:01	5	5.2134	5.2		
2805070237_2X	5/18/08	23:05	2	1.2824	1.3		
2805070238_2X	5/18/08	23:09	2	.71902	.720		
2805070240_2X	5/18/08	23:14	2	1.1027	1.1		
2805070241_2X	5/18/08	23:17	2	0.0750	.075		
MBLANK2007	5/18/08	23:22	1	0.0006	0.0005		
MRL	5/18/08	23:25	1	0.0115	.0115	50-150	114%
CCV	5/18/08	23:33	1	5.2853	5.29	90-110	105%
CCB	5/18/08	23:42	1	0.0005	0.0004		
MCV	5/18/08	23:48	1	2.6693	2.67	90-110	106%
MRL2007	5/18/08	23:51	1	0.0118	.0118		
LCS2007	5/18/08	23:55	1	.98583	.986	85-115	98.5%
LCSD2007	5/18/08	23:58	1	.98998	.99	85-115	98.9%
2805080195_2X	5/19/08	0:01	2	0.0852	.085		
2805080195MS_2X	5/19/08	0:05	2	1.0740	1.07	[1.074] 53.7 Q	
2805080195MSD_2X	5/19/08	0:09	2	1.1017	1.1	[1.102] 55.0 Q	
T	5/19/08	0:09	2		2.00	70 - 130	

File ID: 080518A CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2805080199_2X	5/19/08	0:13	2	.27378	.270	0.980	98
2805080199MS_2X	5/19/08	0:17	2	1.2507	1.25	[1.251]	~~62.5~~ Q
2805080199MSD_2X	5/19/08	0:21	2	1.2181	1.22	[1.218]	~~60.9~~ Q
T	5/19/08	0:21	2		2.00	70-130	
2805070675_2X	5/19/08	0:24	2	0.0016	.0016	0.950	95
CCV	5/19/08	0:32	1	5.2266	5.23	90-110	104%
CCB	5/19/08	0:41	1	0.0000	0.0000		
2805070677_2X	5/19/08	0:44	2	0.0051	.0051		
2805070678_2X	5/19/08	0:49	2	0.0027	.0027		
2805070679_2X	5/19/08	0:53	2	0.0027	.0027		
2805080191_2X	5/19/08	0:58	2	0.0810	.081		
2805080192_2X	5/19/08	1:02	2	0.0760	.076		
2805080193_2X	5/19/08	1:06	2	.41628	.420		
2805080194_2X	5/19/08	1:11	2	0.0810	.081		
2805080196_2X	5/19/08	1:15	2	.76763	.770		
2805080197_2X	5/19/08	1:19	2	0.0013	.0013		
2805080200_5X	5/19/08	1:23	(5)	13.025	13		
CCV	5/19/08	1:32	1	5.1776	5.18	90-110	103%
CCB	5/19/08	1:41	1	0.0000	0.0000		
MCV	5/19/08	1:46	1	2.6335	2.63	90-110	105%
2805080201_2X	5/19/08	1:50	2	0.0321	.032		
2805080202_2X	5/19/08	1:54	2	0.0812	.081		
2805080646_2X	5/19/08	1:58	2	.01780	.018		
2805080652_2X	5/19/08	2:03	2	0.0449	.045		
2805080653_2X	5/19/08	2:07	2	.39989	.4		
2805080654_2X	5/19/08	2:11	2	.45086	.450		
2805080655_5X	5/19/08	2:16	(5)	10.989	11		
ECV	5/19/08	2:22	1	5.1365	5.14	90-110	102%
ECB	5/19/08	2:31	1	0.0003	0.0002		

Landscape Summary File ID: 080518A Date: 5/18/08 Analyst: CSK

Sample ID	Time	FE	K	MG	MN	MO	NA	NI	PB	V	ZN	AL
ICV	17:27	9.89/10	100/100	99.4/100	10.0/10	9.88/10	101/100	9.90/10	9.90/10	10.1/10	9.81/10	N/A
LINEARITY	17:31	96.6	308	185	-.007	0.001	297/300	0.000	-.004	0.002	0.022	N/A
ICSA	17:34	95.2/100	0.300	230/250	-.008	0.000	0.110	-.001	-.039	0.002	0.018	N/A
ICSAB	17:38	95.7/100	0.180	231/250	0.247/.25	-.001	0.073	0.468/.5	0.457/.5	0.255/.25	0.530/.5	N/A
Wash	17:42	0.0062	0.0630	0.0092	-.0002	0.0005	0.0015	0.0003	0.0014	0.0000	0.0003	N/A
QC-25 1ppm	17:45	1.005	9.713	1.054	1.069	0.9724	0.9774	1.098	1.070	0.9968	1.042	N/A
CCV	17:48	5.15/5	51.1/50	51.4/50	5.25/5	5.11/5	51.8/50	5.25/5	5.22/5	5.21/5	5.18/5	N/A
ICB	17:54	0.0004	0.0328	0.0004	-.0002	0.0004	-.0068	0.0006	-.0002	0.0001	0.0000	N/A
MRL	17:57	0.020/.02	0.990/1	0.103/.1	0.002/.002	0.020/.02	0.987/1	0.021/.02	0.021/.02	0.002/.002	0.020/.02	N/A
FILTERCHECK	18:01	0.0004	0.0486	0.0008	-.0002	0.0004	-.0117	0.0006	-.0005	0.0000	-.0003	N/A
MBLANK2007	18:04	0.0012	0.0291	0.0015	-.0003	-.0002	0.0059	0.0006	-.0012	-.0001	0.0032	N/A
MRL2007	18:08	0.024/.02	1.10/1	0.113/.1	0.002/.002	0.021/.02	1.07/1	0.023/.02	0.022/.02	0.002/.002	0.025/.02	N/A
LCS2007	18:12	4.78/5	19.0/20	19.3/20	0.495/.5	0.949/1	49.0/50	0.497/.5	0.991/1	0.967/1	0.991/1	N/A
LCSD2007	18:14	4.94/5	20.0/20	20.0/20	0.514/.5	0.976/1	51.8/50	0.511/.5	1.02/1	1.01/1	1.02/1	N/A
2805060278_2X	18:17	0.0034	11.73	107.1	0.0310	0.0130	504.5	0.0007	-.0095	0.0974	0.0014	N/A
2805060278MS_2X	18:21	5.198	33.14	127.2	0.5679	1.029	559.6	0.5112	1.013	1.144	1.078	N/A
2805060278MSD_2X	18:25	5.108	32.35	121.8	0.5639	1.021	535.6	0.5078	1.004	1.134	1.069	N/A
2805060290_2X	18:29	0.0056	15.71	128.3	0.0258	0.0203	870.9	0.0009	-.0132	0.1319	0.0027	N/A
2805060290MS_2X	18:33	5.003	37.16	143.3	0.5569	1.035	908.0	0.5099	0.9962	1.170	1.085	N/A
CCV	18:37	5.07/5	51.7/50	50.8/50	5.22/5	5.15/5	53.2/50	5.29/5	5.27/5	5.18/5	5.23/5	N/A
CCB	18:53	0.0009	0.0322	0.0006	-.0003	0.0000	0.0227	0.0005	-.0010	0.0000	-.0002	-.0027
2805060290MSD_2X	18:56	5.052	37.63	145.5	0.5680	1.054	941.7	0.5182	1.008	1.194	1.113	2.085
2805060277_2X	19:00	0.0583	15.92	236.3	0.0689	0.0362	%1014.7	0.0022	-.0192	0.1074	0.0049	0.1165
2805060279_2X	19:05	0.0532	14.27	260.8	0.0088	0.0268	%1318.0	-.0007	-.0215	0.0863	0.0027	0.1359
2805060280_2X	19:09	0.0674	15.50	248.4	0.0057	0.0320	%1428.1	0.0013	-.0206	0.1104	0.0010	0.1480
2805060281_2X	19:13	0.0411	14.71	234.2	0.0017	0.0290	%1268.9	0.0008	-.0207	0.1112	0.0016	0.0665
2805060282_2X	19:18	0.0182	16.93	241.5	-.0034	0.0285	%1191.2	-.0010	-.0236	0.0671	0.0017	0.0322
2805060291_2X	19:22	0.0032	15.89	250.1	0.0042	0.0287	%1422.4	0.0008	-.0224	0.1572	0.0028	0.0012
2805060293_2X	19:26	0.0039	0.1169	0.0120	-.0001	0.0001	0.7516	0.0017	-.0044	-.0001	0.0075	0.0128
2805060294_2X	19:30	0.0065	15.86	246.6	0.0039	0.0296	%1428.3	0.0016	-.0209	0.1552	0.0016	-.0014
2805060303_2X	19:34	0.0047	16.15	120.0	0.0255	0.0183	880.2	0.0027	-.0161	0.1284	0.0020	0.0114
CCV	19:39	4.83/5	53.3/50	49.4/50	5.24/5	5.12/5	54.8/50	5.25/5	5.22/5	5.18/5	5.21/5	5.26/5
CCB	19:48	0.0010	0.0659	0.0021	-.0002	0.0002	0.1513	0.0002	-.0007	0.0001	0.0000	-.0012
MCV	19:51	2.39/2.5	26.4/25	24.7/25	2.68/2.5	2.58/2.5	27.2/25	2.69/2.5	2.67/2.5	2.60/2.5	2.64/2.5	2.64/2.5
2805060305_2X	19:55	0.0127	16.17	251.3	-.0055	0.0831	%1288.3	0.0027	-.0213	0.0564	0.0161	0.0131
2805060311_2X	19:59	0.2959	20.27	285.3	0.0192	0.0462	876.3	0.0006	-.0188	0.0360	0.0149	0.4443
2805060312_2X	20:03	0.1212	23.01	290.1	0.0019	0.0483	941.3	-.0003	-.0245	0.0364	0.0073	0.2671
2805060313_2X	20:07	0.0788	29.93	377.6	-.0008	0.0900	%1505.3	-.0010	-.0282	0.0310	0.0060	0.1653
2805060314_2X	20:12	0.0185	16.89	258.0	-.0059	0.0816	%1309.9	0.0021	-.0232	0.0617	0.0067	0.0224
2805060315_2X	20:16	0.5697	21.50	199.9	0.0770	0.0483	%1113.7	0.0011	-.0178	0.0733	0.0076	1.243
2805060316_2X	20:20	0.2450	29.85	253.7	0.5524	0.0055	%1027.1	0.0049	-.0243	0.0360	0.0172	1.316
2805060317_2X	20:23	0.1358	44.19	153.2	1.162	0.0629	%2631.4	0.0029	-.0168	0.1480	0.0057	0.2073
2805060318_2X	20:28	0.1001	39.40	161.2	1.774	0.0594	%2547.2	0.0038	-.0162	0.1479	0.0070	0.1527
MBLANK2007	20:32	0.0033	0.1366	0.0063	-.0000	-.0000	1.058	0.0002	-.0019	0.0001	0.0032	0.0064
CCV	20:36	4.56/5	54.0/50	47.2/50	5.21/5	5.10/5	53.7/50	5.23/5	5.21/5	5.16/5	5.20/5	5.37/5
CCB	20:45	0.0008	0.0729	0.0017	-.0002	0.0002	0.2652	0.0004	-.0019	0.0001	-.0000	0.0016
MRL	20:48	0.019/.02	1.11/1	0.099/.1	0.002/.002	0.020/.02	1.26/1	0.022/.02	0.020/.02	0.002/.002	0.020/.02	0.052/.05
MRL2007	20:52	0.023/.02	1.20/1	0.109/.1	0.002/.002	0.021/.02	1.36/1	0.024/.02	0.023/.02	0.002/.002	0.025/.02	0.056/.05
LCS2007	20:55	4.22(5)	20.5/20	17.9/20	0.493/.5	0.954/1	50.3/50	0.495/.5	0.991/1	0.963/1	0.992/1	2.05/2

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Sample ID	Time	FE	K	MG	MN	MO	NA	NI	PB	V	ZN	AL
LCSD2007	20:59	4.21(5)	20.3/20	17.9/20	0.492/.5	0.941/1	50.4/50	0.488/.5	0.982/1	0.962/1	0.991/1	2.04/2
2805070236_2X	21:03	0.0021	30.64	137.2	0.0413	0.0302	%1240.3	-.0007	-.0195	0.0472	0.0008	-.0068
2805070236MS_2X	21:07	4.726	53.52	153.3	0.5846	1.070	%1240.4	0.5166	1.025	1.119	1.132	2.252
2805070236MSD_2X	21:11	4.495	51.90	148.6	0.5752	1.054	%1219.9	0.5096	1.002	1.101	1.104	2.209
2805070239_2X	21:14	0.0047	33.20	145.1	0.0112	0.0220	819.3	-.0001	-.0191	0.0303	0.0002	0.0035
2805070239MS_2X	21:19	4.595	57.18	166.9	0.5411	1.041	884.0	0.4969	1.004	1.071	1.080	2.253
2805070239MSD_2X	21:23	4.463	55.86	160.4	0.5394	1.029	843.1	0.4909	0.9918	1.070	1.079	2.210
CCV	21:31	4.41(5)	55.7(50)	46.7/50	5.24/5	5.14/5	50.1/50	5.26/5	5.27/5	5.18/5	5.23/5	5.63(5)
CCB	21:39	0.0012	0.0047	0.0023	-.0003	0.0006	0.1319	0.0006	-.0008	0.0001	0.0000	0.0064
MCV	21:45	2.25/2.5	28.3(25)	23.9/25	2.71/2.5	2.62/2.5	25.0/25	2.70/2.5	2.72/2.5	2.61/2.5	2.66/2.5	2.90(2.5)
2805060319_2X	21:49	0.0159	18.85	172.8	0.0309	0.0304	%1161.1	0.0070	-.0196	0.0802	0.0047	0.0261
2805060320_2X	21:53	0.0918	21.12	166.3	0.0603	0.0218	%1081.0	0.0020	-.0088	0.0883	0.0145	0.2024
2805070224_10X	21:57	0.0208	57.17	410.8	0.3351	0.0116	%2203.4	0.0027	-.0701	0.0581	0.0078	0.0022
2805070225_10X	22:02	0.0223	55.31	450.6	0.0917	0.0074	%2118.3	-.0012	-.0643	0.0543	0.0215	-.0024
2805070226_10X	22:06	0.0100	54.34	462.0	0.0479	0.0024	%2167.7	0.0005	-.0808	0.0553	0.0295	0.0014
2805070227_10X	22:10	0.1375	64.96	536.8	-.0005	0.0007	%2091.8	-.0002	-.0852	0.0389	0.0088	0.0584
2805070228_10X	22:15	0.0232	63.06	515.3	-.0020	0.0011	%2054.1	0.0090	-.0731	0.0329	0.0405	-.0030
2805070229_5X	22:19	1.183	52.21	368.8	0.1367	0.0153	%1484.0	0.0050	-.0516	0.0646	0.5237	0.2330
2805070230_5X	22:23	0.0082	47.86	384.0	0.0358	-.0025	%1887.2	0.0016	-.0506	0.0502	0.0098	0.0045
2805070231_5X	22:27	0.0646	52.97	315.1	0.0344	0.0014	%1576.2	0.0001	-.0439	0.0450	0.0189	0.0343
CCV	22:35	4.10(5)	58.1(50)	44.5(50)	5.25/5	5.12/5	48.1/50	5.26/5	5.25/5	5.18/5	5.23/5	5.97(5)
CCB	22:44	0.0020	-.0037	0.0027	-.0004	0.0004	0.0711	0.0001	0.0001	0.0001	-.0000	0.0046
2805070232_5X	22:48	0.0071	46.09	293.7	0.0144	0.0029	%1527.1	-.0007	-.0395	0.0414	0.0137	0.0059
2805070233_5X	22:52	0.0065	50.99	248.5	0.0305	0.0119	%1627.9	0.0007	-.0418	0.0539	0.0135	0.0297
2805070234_5X	22:56	0.0337	47.43	217.9	0.0127	0.0170	%1647.0	0.0009	-.0403	0.0310	0.0084	0.0324
2805070235_5X	23:01	0.0066	43.92	173.9	0.0137	0.0252	%1403.9	0.0013	-.0282	0.0313	0.0025	0.0141
2805070237_2X	23:05	0.1578	38.71	141.8	0.0621	0.0234	%1016.6	-.0011	-.0179	0.0494	0.0001	0.3484
2805070238_2X	23:09	0.0094	48.28	196.7	0.0097	0.0117	944.8	-.0013	-.0204	0.0255	-.0003	-.0026
2805070240_2X	23:14	0.8306	49.62	157.3	0.0279	0.0224	746.1	0.0010	-.0220	0.0256	0.0804	0.0391
2805070241_2X	23:17	0.0247	21.21	98.47	0.0088	0.0279	649.9	-.0001	-.0118	0.0275	0.0113	0.0512
MBLANK2007	23:22	0.0036	-.0095	0.0059	-.0004	-.0002	0.2737	0.0008	-.0021	-.0001	0.0027	0.0048
MRL	23:25	0.017/.02	1.15/1	0.090/.1	0.002/.002	0.020/.02	1.07/1	0.022/.02	0.021/.02	0.002/.002	0.020/.02	0.067/.05
CCV	23:33	3.66(5)	59.9(50)	42.2(50)	5.22/5	5.12/5	46.1/50	5.24/5	5.22/5	5.17/5	5.21/5	6.21(5)
CCB	23:42	0.0023	0.0445	0.0036	-.0004	0.0002	0.0587	0.0003	-.0019	0.0001	-.0001	0.0076
MCV	23:48	1.83(2.5)	29.8(25)	21.3(25)	2.66/2.5	2.57/2.5	22.8/25	2.69/2.5	2.67/2.5	2.59/2.5	2.64/2.5	3.12(2.5)
MRL2007	23:51	0.020/.02	1.18/1	0.098/.1	0.002/.002	0.023/.02	1.00/1	0.024/.02	0.024/.02	0.003/.002	0.025/.02	0.070/.05
LCS2007	23:55	3.35(5)	22.6/20	15.8(20)	0.497/.5	0.950/1	43.0/50	0.494/.5	0.988/1	0.971/1	1.00/1	2.35(2)
LCSD2007	23:58	3.39(5)	23.6(20)	16.3(20)	0.499/.5	0.966/1	44.4/50	0.501/.5	1.00/1	0.979/1	1.01/1	2.47(2)
2805080195_2X	0:01	0.0304	14.39	104.0	0.0083	0.0300	602.2	0.0001	-.0096	0.0554	0.0086	0.0619
2805080195MS_2X	0:05	3.321	37.57	113.3	0.5247	1.009	608.9	0.4927	0.9708	1.060	1.053	2.473
2805080195MSD_2X	0:09	3.503	38.57	114.5	0.5386	1.038	613.7	0.5085	1.008	1.090	1.083	2.764
2805080199_2X	0:13	0.0412	17.36	104.7	0.0151	0.0259	652.2	0.0003	-.0180	0.0367	0.0118	0.1147
2805080199MS_2X	0:17	3.363	41.14	114.7	0.5300	1.010	661.7	0.4932	0.9803	1.044	1.055	2.661
2805080199MSD_2X	0:21	3.219	40.06	112.8	0.5138	0.9735	654.1	0.4768	0.9435	1.012	1.024	2.485
2805070675_2X	0:24	0.5997	30.47	584.2	1.739	-.0108	%1612.1	-.0007	-.0298	0.0049	0.0026	0.0883
CCV	0:32	3.27(5)	58.7(50)	40.2(50)	5.21/5	5.10/5	42.8(50)	5.23/5	5.21/5	5.16/5	5.20/5	6.30(5)
CCB	0:41	0.0033	-.0200	0.0043	-.0004	0.0005	0.0422	0.0001	0.0017	0.0001	-.0001	-.0007
2805070677_2X	0:44	0.1461	27.21	265.7	0.1006	0.0041	%1094.6	-.0003	-.0141	0.0243	0.0180	0.6327
2805070678_2X	0:49	0.1355	32.16	310.9	0.0118	0.0078	%1199.9	0.0001	-.0234	0.0196	0.0046	0.5921
2805070679_2X	0:53	0.1462	21.26	390.8	2.212	0.0125	%1039.4	0.0049	-.0225	0.0324	0.0057	0.7100

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Sample ID	Time	FE	K	MG	MN	MO	NA	NI	PB	V	ZN	AL
2805080191_2X	0:58	0.1003	17.33	95.92	0.0201	0.0236	530.6	0.0003	-.0131	0.0277	0.0063	0.3468
2805080192_2X	1:02	0.1045	12.18	96.17	0.0068	0.0148	514.2	-.0004	-.0110	0.0415	0.0010	0.5391
2805080193_2X	1:06	0.0231	11.98	42.62	0.0047	0.0111	219.3	-.0009	-.0105	0.0313	0.0013	0.0836
2805080194_2X	1:11	0.0392	30.51	117.3	0.0064	0.0201	569.1	-.0003	-.0151	0.0422	0.0019	0.1873
2805080196_2X	1:15	0.0138	42.34	214.9	-.0045	0.0364	856.5	0.0013	-.0245	0.0619	0.0069	0.0298
2805080197_2X	1:19	0.0930	0.0264	0.1669	0.0035	-.0001	0.5455	0.0012	-.0041	0.0011	0.0064	0.1054
2805080200_5X	1:23	0.0209	74.57	213.6	0.0169	0.0109	%1436.1	-.0028	-.0395	0.0420	0.0102	0.0450
CCV	1:32	2.99(5)	57.2(50)	38.9(50)	5.22/5	5.08/5	39.8(50)	5.25/5	5.19/5	5.16/5	5.20/5	6.26(5)
CCB	1:41	0.0036	-.0374	0.0051	-.0004	0.0005	0.0573	0.0004	-.0001	0.0001	-.0002	0.0033
MCV	1:46	1.49(2.5)	27.5(25)	19.7(25)	2.67/2.5	2.58/2.5	19.3(25)	2.68/2.5	2.67/2.5	2.59/2.5	2.63/2.5	3.14(2.5)
2805080201_2X	1:50	0.0323	24.42	78.72	0.1003	0.0316	379.5	-.0003	-.0148	0.0282	0.0142	0.1139
2805080202_2X	1:54	0.0340	30.49	116.6	0.0071	0.0211	557.5	-.0009	-.0153	0.0424	0.0012	0.1521
2805080646_2X	1:58	0.1771	13.77	63.07	0.0236	0.0145	267.1	0.0008	-.0083	0.0418	0.0091	1.044
2805080652_2X	2:03	0.0158	19.25	129.7	-.0019	0.0136	436.7	-.0001	-.0133	0.0407	0.0055	0.0327
2805080653_2X	2:07	0.0655	33.48	164.6	1.941	0.0164	302.0	0.0016	-.0143	0.0927	0.0083	0.2225
2805080654_2X	2:11	0.2452	32.71	255.6	4.820	-.0029	420.6	0.0162	-.0169	0.0305	0.0310	1.695
2805080655_5X	2:16	0.2800	24.48	183.6	0.4667	0.0015	%1075.6	0.0050	-.0413	0.0351	0.0305	2.067
ECV	2:22	2.91(5)	55.8(50)	38.6(50)	5.19/5	5.05/5	38.3(50)	5.23/5	5.20/5	5.14/5	5.18/5	6.24(5)
ECB	2:31	0.0034	-.1065	0.0050	-.0004	0.0005	0.0342	0.0008	-.0009	0.0001	-.0001	0.0007

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Sample ID	Time	SCA	YR	AG	B	BA	BE	CA	CD	CO	CR	CU
ICV	17:27	N/A	N/A	2.01/2	4.91	10.1/10	4.00/4	99.8/100	4.99/5	9.93	9.91/10	10.1/10
LINEARITY	17:31	N/A	N/A	0.013	0.047	0.001	-.000	292/300	-.001	0.002	0.003	-.008
ICSA	17:34	N/A	N/A	0.013	0.019	0.002	-.000	247/250	-.001	0.000	0.000	-.009
ICSAB	17:38	N/A	N/A	0.303	0.004	0.261/.25	0.248/.25	249/250	0.494/.5	0.240/.25	0.252/.25	0.246/.25
Wash	17:42	N/A	N/A	0.0003	0.0098	0.0000	0.0001	0.0077	0.0003	-.0001	0.0000	0.0006
QC-25 1ppm	17:45	N/A	N/A	0.9713	0.9374	1.062	1.010	1.022	0.9925	1.072	1.040	1.026
CCV	17:48	N/A	N/A	1.00/1	2.51	5.20/5	2.11/2	51.5/50	2.06/2	5.24	5.27/5	5.16/5
ICB	17:54	N/A	N/A	0.0005	0.0162	0.0000	0.0000	-.0020	0.0001	-.0001	0.0001	0.0005
MRL	17:57	N/A	N/A	0.010/.01	0.057	0.020/.02	0.001/.001	1.01/1	0.006/.005	0.051/.05	0.010/.01	0.010/.01
FILTERCHECK	18:01	N/A	N/A	0.0004	0.0088	0.0000	0.0000	0.0021	0.0001	-.0000	0.0001	0.0002
MBLANK2007	18:04	N/A	N/A	0.0003	0.0050	0.0000	0.0001	0.0249	0.0001	0.0000	-.0003	0.0000
MRL2007	18:08	N/A	N/A	0.011/.01	0.055	0.022/.02	0.001/.001	1.11/1	0.007/.005	0.058/.05	0.011/.01	0.011/.01
LCS2007	18:12	N/A	N/A	0.471/.5	0.465	0.966/1	0.050/.05	48.4/50	0.199/.2	0.991/1	0.984/1	0.977/1
LCSD2007	18:14	N/A	N/A	0.491/.5	0.481	0.996/1	0.052/.05	49.0/50	0.206/.2	1.02/1	1.01/1	1.01/1
2805060278_2X	18:17	N/A	N/A	0.0002	3.747	0.0219	-.0005	211.0	0.0004	-.0007	1.507	0.0038
2805060278MS_2X	18:21	N/A	N/A	0.5129	4.264	1.064	0.0535	261.6	0.2168	1.049	2.535	1.056
2805060278MSD_2X	18:25	N/A	N/A	0.5093	4.140	1.051	0.0531	251.1	0.2145	1.040	2.488	1.047
2805060290_2X	18:29	N/A	N/A	-.0000	6.325	0.0299	-.0006	279.5	-.0000	0.0019	0.7271	0.0049
2805060290MS_2X	18:33	N/A	N/A	0.5165	6.681	1.057	0.0532	319.3	0.2176	1.050	1.756	1.057
CCV	18:37	N/A	N/A	1.01/1	2.59	5.21/5	2.12/2	51.0/50	2.08/2	5.32	5.30/5	5.13/5
CCB	18:53	N/A	N/A	0.0005	0.0191	0.0000	0.0000	-.0011	-.0003	0.0002	-.0001	0.0000
2805060290MSD_2X	18:56	N/A	N/A	0.5269	6.781	1.080	0.0540	324.1	0.2050	1.074	1.803	1.078
2805060277_2X	19:00	N/A	N/A	-.0002	9.916	0.0139	-.0009	571.7	-.0012	-.0002	2.254	0.0056
2805060279_2X	19:05	N/A	N/A	-.0002	6.045	0.0157	-.0009	537.9	-.0009	-.0004	0.1482	0.0056
2805060280_2X	19:09	N/A	N/A	-.0011	10.17	0.0149	-.0010	591.3	-.0008	-.0007	0.4337	0.0050
2805060281_2X	19:13	N/A	N/A	-.0010	7.416	0.0112	-.0010	632.3	-.0008	-.0011	0.2949	0.0048
2805060282_2X	19:18	N/A	N/A	-.0006	5.936	0.0168	-.0009	589.5	-.0012	-.0018	0.3998	0.0047
2805060291_2X	19:22	N/A	N/A	-.0006	10.53	0.0133	-.0010	647.5	-.0009	-.0008	0.8622	0.0048
2805060293_2X	19:26	N/A	N/A	0.0004	0.1642	-.0000	0.0001	0.0641	-.0003	-.0002	0.0003	0.0006
2805060294_2X	19:30	N/A	N/A	-.0008	10.36	0.0131	-.0010	639.5	-.0013	0.0001	0.8432	0.0040
2805060303_2X	19:34	N/A	N/A	0.0003	6.329	0.0289	-.0006	264.7	-.0007	0.0025	0.7237	0.0045
CCV	19:39	N/A	N/A	1.01/1	2.59	5.15/5	2.12/2	50.0/50	2.01/2	5.34	5.30/5	5.10/5
CCB	19:48	N/A	N/A	0.0001	0.0563	-.0000	0.0000	0.0021	-.0001	-.0001	0.0000	-.0002
MCV	19:51	N/A	N/A	0.505/.5	1.29	2.60/2.5	1.07/1	25.0/25	0.996/1	2.74	2.69/2.5	2.56/2.5
2805060305_2X	19:55	N/A	N/A	-.0009	6.343	0.0118	-.0009	654.9	-.0010	-.0015	1.770	0.0072
2805060311_2X	19:59	N/A	N/A	-.0015	4.812	0.0168	-.0010	690.2	-.0012	0.0007	0.0288	0.0066
2805060312_2X	20:03	N/A	N/A	-.0005	4.944	0.0144	-.0010	739.5	-.0012	-.0004	0.0306	0.0053
2805060313_2X	20:07	N/A	N/A	-.0020	4.067	0.0188	-.0012	854.8	-.0016	-.0006	0.0802	0.0064
2805060314_2X	20:12	N/A	N/A	-.0009	6.572	0.0132	-.0011	688.1	-.0016	-.0012	1.856	0.0054
2805060315_2X	20:16	N/A	N/A	-.0008	5.524	0.0234	-.0007	427.9	-.0001	-.0005	0.1506	0.0061
2805060316_2X	20:20	N/A	N/A	-.0003	4.249	0.0322	-.0007	596.0	-.0007	0.0005	0.7285	0.0066
2805060317_2X	20:23	N/A	N/A	-.0001	2.831	0.0331	-.0008	323.5	-.0014	0.0012	0.0014	0.0075
2805060318_2X	20:28	N/A	N/A	-.0001	2.594	0.0331	-.0007	292.5	-.0005	0.0016	0.0012	0.0079
MBLANK2007	20:32	N/A	N/A	0.0001	0.0478	0.0001	0.0000	0.0184	-.0002	0.0001	-.0001	0.0000
CCV	20:36	N/A	N/A	1.00/1	2.54	5.10/5	2.10/2	48.1/50	1.99/2	5.35	5.29/5	5.07/5
CCB	20:45	N/A	N/A	0.0004	0.0378	-.0001	0.0000	-.0018	0.0000	-.0003	-.0001	-.0001
MRL	20:48	N/A	N/A	0.010/.01	0.082	0.021/.02	0.001/.001	0.954/1	0.005/.005	0.055/.05	0.010/.01	0.010/.01
MRL2007	20:52	N/A	N/A	0.011/.01	0.083	0.022/.02	0.001/.001	1.06/1	0.005/.005	0.061/.05	0.011/.01	0.011/.01
LCS2007	20:55	N/A	N/A	0.468/.5	0.488	0.946/1	0.050/.05	44.7/50	0.186/.2	1.02/1	0.981/1	0.959/1

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Sample ID	Time	SCA	YR	AG	B	BA	BE	CA	CD	CO	CR	CU
LCSD2007	20:59	N/A	N/A	0.467/.5	0.489	0.945/1	0.050/.05	44.6/50	0.184/.2	1.01/1	0.987/1	0.955/1
2805070236_2X	21:03	N/A	N/A	-.0001	4.059	0.0359	-.0007	272.4	-.0003	-.0012	2.496	0.0038
2805070236MS_2X	21:07	N/A	N/A	0.5356	4.550	1.077	0.0546	312.6	0.2086	1.086	3.549	1.092
2805070236MSD_2X	21:11	N/A	N/A	0.5260	4.459	1.065	0.0536	304.7	0.2058	1.074	3.456	1.067
2805070239_2X	21:14	N/A	N/A	0.0006	3.234	0.0262	-.0007	309.6	-.0010	-.0006	0.3506	0.0038
2805070239MS_2X	21:19	N/A	N/A	0.5150	3.755	1.042	0.0527	363.6	0.2026	1.048	1.382	1.044
2805070239MSD_2X	21:23	N/A	N/A	0.5136	3.718	1.041	0.0526	350.1	0.2001	1.037	1.381	1.039
CCV	21:31	N/A	N/A	1.01/1	2.60	5.10/5	2.14/2	46.8/50	2.00/2	5.40	5.34/5	5.06/5
CCB	21:39	N/A	N/A	0.0005	0.0458	-.0000	0.0001	-.0040	-.0000	-.0000	-.0002	0.0001
MCV	21:45	N/A	N/A	0.508/.5	1.31	2.62/2.5	1.08/1	24.1/25	1.01/1	2.75	2.71/2.5	2.60/2.5
2805060319_2X	21:49	N/A	N/A	-.0006	8.943	0.0122	-.0008	533.2	-.0006	-.0008	1.335	0.0052
2805060320_2X	21:53	N/A	N/A	-.0002	8.315	0.0206	-.0009	508.9	-.0001	-.0006	1.279	0.0073
2805070224_10X	21:57	N/A	N/A	0.0027	4.971	0.0649	-.0015	852.5	-.0055	-.0104	32.12	0.0130
2805070225_10X	22:02	N/A	N/A	0.0002	7.073	0.0694	-.0013	906.8	-.0069	-.0124	31.23	0.0111
2805070226_10X	22:06	N/A	N/A	-.0007	5.715	0.0657	-.0018	932.6	-.0057	-.0100	32.79	0.0094
2805070227_10X	22:10	N/A	N/A	-.0014	6.272	0.0759	-.0024	%1115.2	-.0051	-.0118	31.88	0.0141
2805070228_10X	22:15	N/A	N/A	-.0008	6.021	0.0736	-.0020	%1068.9	-.0054	-.0116	31.93	0.1349
2805070229_5X	22:19	N/A	N/A	0.0011	13.07	0.0422	-.0013	676.9	-.0025	-.0049	16.68	0.0079
2805070230_5X	22:23	N/A	N/A	0.0002	6.212	0.0593	-.0017	789.8	-.0034	-.0049	23.46	0.0078
2805070231_5X	22:27	N/A	N/A	-.0005	9.251	0.0416	-.0012	604.7	-.0030	-.0038	14.55	0.0077
CCV	22:35	N/A	N/A	1.01/1	2.60	5.15/5	2.12/2	45.8/50	2.00/2	5.35	5.30/5	5.08/5
CCB	22:44	N/A	N/A	0.0002	0.0497	0.0000	0.0000	-.0061	0.0000	-.0001	0.0021	-.0005
2805070232_5X	22:48	N/A	N/A	0.0003	11.78	0.0393	-.0013	558.5	-.0031	-.0046	13.06	0.0078
2805070233_5X	22:52	N/A	N/A	0.0005	15.53	0.0409	-.0012	450.9	-.0029	-.0046	11.62	0.0085
2805070234_5X	22:56	N/A	N/A	0.0002	11.88	0.0379	-.0010	368.1	-.0029	-.0040	9.762	0.0089
2805070235_5X	23:01	N/A	N/A	0.0010	6.380	0.0352	-.0009	309.3	-.0012	-.0038	5.213	0.0046
2805070237_2X	23:05	N/A	N/A	0.0033	3.717	0.0363	-.0007	305.9	-.0010	-.0013	1.282	0.0045
2805070238_2X	23:09	N/A	N/A	-.0001	3.564	0.0376	-.0008	413.0	-.0015	-.0010	0.7190	0.0036
2805070240_2X	23:14	N/A	N/A	-.0000	3.441	0.0393	-.0008	356.5	-.0012	-.0020	1.103	0.0045
2805070241_2X	23:17	N/A	N/A	0.0002	3.283	0.0188	-.0005	177.9	-.0004	-.0018	0.0750	0.0035
MBLANK2007	23:22	N/A	N/A	0.0004	0.0506	0.0000	0.0000	0.0242	-.0001	-.0001	0.0006	-.0001
MRL	23:25	N/A	N/A	0.010/.01	0.093	0.021/.02	0.001/.001	0.873/1	0.005/.005	0.054/.05	0.011/.01	0.010/.01
CCV	23:33	N/A	N/A	1.00/1	2.60	5.14/5	2.12/2	44.1(50)	1.99/2	5.31	5.29/5	5.08/5
CCB	23:42	N/A	N/A	0.0001	0.0481	-.0000	0.0001	-.0101	-.0003	-.0000	0.0005	-.0001
MCV	23:48	N/A	N/A	0.506/.5	1.31	2.63/2.5	1.06/1	22.2(25)	0.998/1	2.70	2.67/2.5	2.57/2.5
MRL2007	23:51	N/A	N/A	0.011/.01	0.103	0.022/.02	0.001/.001	0.951/1	0.005/.005	0.059/.05	0.012/.01	0.011/.01
LCS2007	23:55	N/A	N/A	0.472/.5	0.508	0.967/1	0.050/.05	40.8(50)	0.186/.2	1.01/1	0.986/1	0.974/1
LCSD2007	23:58	N/A	N/A	0.477/.5	0.514	0.975/1	0.051/.05	42.8/50	0.189/.2	1.01/1	0.990/1	0.984/1
2805080195_2X	0:01	N/A	N/A	0.0002	2.966	0.0228	-.0006	195.2	-.0005	-.0017	0.0852	0.0042
2805080195MS_2X	0:05	N/A	N/A	0.4930	3.291	1.029	0.0512	224.6	0.1944	1.016	1.074	1.017
2805080195MSD_2X	0:09	N/A	N/A	0.5086	3.341	1.056	0.0526	227.8	0.2013	1.049	1.102	1.051
2805080199_2X	0:13	N/A	N/A	0.0004	4.170	0.0249	-.0005	220.0	-.0009	-.0008	0.2738	0.0037
2805080199MS_2X	0:17	N/A	N/A	0.4969	4.460	1.033	0.0510	249.2	0.1954	1.013	1.251	1.029
2805080199MSD_2X	0:21	N/A	N/A	0.4805	4.374	0.9974	0.0495	244.9	0.1885	0.9800	1.218	0.9914
2805070675_2X	0:24	N/A	N/A	0.0001	2.338	0.0492	-.0013	648.2	-.0006	-.0013	0.0016	0.0064
CCV	0:32	N/A	N/A	1.00/1	2.60	5.19/5	2.09/2	42.3(50)	2.00/2	5.23	5.23/5	5.12/5
CCB	0:41	N/A	N/A	0.0005	0.0481	0.0000	0.0000	-.0119	-.0000	0.0001	0.0000	-.0003
2805070677_2X	0:44	N/A	N/A	-.0006	4.458	0.0394	-.0008	445.0	-.0016	-.0005	0.0051	0.0146
2805070678_2X	0:49	N/A	N/A	-.0011	4.713	0.0405	-.0010	524.3	-.0015	-.0007	0.0027	0.0058
2805070679_2X	0:53	N/A	N/A	0.0003	2.648	0.0547	-.0010	483.6	-.0012	0.0089	0.0027	0.0084

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Sample ID	Time	SCA	YR	AG	B	BA	BE	CA	CD	CO	CR	CU
2805080191_2X	0:58	N/A	N/A	-.0001	2.977	0.0192	-.0004	170.6	-.0005	-.0008	0.0810	0.0040
2805080192_2X	1:02	N/A	N/A	0.0003	2.468	0.0174	-.0004	182.5	-.0006	-.0009	0.0760	0.0033
2805080193_2X	1:06	N/A	N/A	0.0006	1.213	0.0185	-.0003	109.4	-.0006	-.0011	0.4163	0.0018
2805080194_2X	1:11	N/A	N/A	-.0005	3.132	0.0248	-.0006	254.0	-.0012	-.0013	0.0810	0.0035
2805080196_2X	1:15	N/A	N/A	-.0009	5.229	0.0240	-.0010	553.8	-.0015	-.0016	0.7676	0.0062
2805080197_2X	1:19	N/A	N/A	0.0002	0.1056	0.0037	0.0001	1.463	0.0001	0.0002	0.0013	0.0003
2805080200_5X	1:23	N/A	N/A	-.0006	11.77	0.0373	-.0012	360.8	-.0044	-.0058	13.03	0.0077
CCV	1:32	N/A	N/A	1.00/1	2.60	5.22/5	2.10/2	42.0(50)	2.00/2	5.20	5.18/5	5.13/5
CCB	1:41	N/A	N/A	0.0002	0.0510	0.0000	0.0000	-.0146	0.0001	0.0001	0.0000	-.0002
MCV	1:46	N/A	N/A	0.505/.5	1.30	2.67/2.5	1.06/1	21.1(25)	1.00/1	2.65	2.63/2.5	2.60/2.5
2805080201_2X	1:50	N/A	N/A	-.0003	2.967	0.0481	-.0004	255.5	-.0005	-.0007	0.0321	0.0077
2805080202_2X	1:54	N/A	N/A	-.0004	3.179	0.0247	-.0006	255.2	-.0015	-.0010	0.0812	0.0038
2805080646_2X	1:58	N/A	N/A	0.0006	1.759	0.0227	-.0002	130.0	-.0011	-.0006	0.0178	0.0027
2805080652_2X	2:03	N/A	N/A	-.0003	5.674	0.0371	-.0006	220.7	-.0008	-.0011	0.0449	0.0030
2805080653_2X	2:07	N/A	N/A	0.0003	4.179	0.0175	-.0005	234.6	-.0008	0.0017	0.3999	0.0038
2805080654_2X	2:11	N/A	N/A	0.0007	6.450	0.0597	-.0006	427.0	-.0005	0.0165	0.4509	0.0129
2805080655_5X	2:16	N/A	N/A	0.0010	7.037	0.0368	-.0009	432.2	-.0038	0.0030	10.99	0.0103
ECV	2:22	N/A	N/A	1.00/1	2.60	5.22/5	2.09/2	41.9(50)	1.99/2	5.15	5.14/5	5.14/5
ECB	2:31	N/A	N/A	0.0001	0.0526	0.0000	0.0000	-.0155	-.0002	-.0001	0.0003	-.0003

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Sample ID	Time	AS	SB	SE	TL
ICV	17:27	N/A	N/A	N/A	N/A
LINEARITY	17:31	N/A	N/A	N/A	N/A
ICSA	17:34	N/A	N/A	N/A	N/A
ICSAB	17:38	N/A	N/A	N/A	N/A
Wash	17:42	N/A	N/A	N/A	N/A
QC-25 1ppm	17:45	N/A	N/A	N/A	N/A
CCV	17:48	N/A	N/A	N/A	N/A
ICB	17:54	N/A	N/A	N/A	N/A
MRL	17:57	N/A	N/A	N/A	N/A
FILTERCHECK	18:01	N/A	N/A	N/A	N/A
MBLANK2007	18:04	N/A	N/A	N/A	N/A
MRL2007	18:08	N/A	N/A	N/A	N/A
LCS2007	18:12	N/A	N/A	N/A	N/A
LCSD2007	18:14	N/A	N/A	N/A	N/A
2805060278_2X	18:17	N/A	N/A	N/A	N/A
2805060278MS_2X	18:21	N/A	N/A	N/A	N/A
2805060278MSD_2X	18:25	N/A	N/A	N/A	N/A
2805060290_2X	18:29	N/A	N/A	N/A	N/A
2805060290MS_2X	18:33	N/A	N/A	N/A	N/A
CCV	18:37	N/A	N/A	N/A	N/A
CCB	18:53	0.0018	0.0006	0.0026	-.0000
2805060290MSD_2X	18:56	1.143	0.5529	1.025	1.017
2805060277_2X	19:00	0.1271	0.0425	-.0648	0.0341
2805060279_2X	19:05	0.1659	0.0179	-.0537	0.0256
2805060280_2X	19:09	0.2124	0.0109	-.0762	0.0235
2805060281_2X	19:13	0.2097	0.0213	-.0583	0.0265
2805060282_2X	19:18	0.1464	0.0150	-.0712	0.0334
2805060291_2X	19:22	0.1931	0.0208	-.0727	0.0328
2805060293_2X	19:26	0.0015	0.0063	-.0002	0.0058
2805060294_2X	19:30	0.1800	0.0261	-.0748	0.0333
2805060303_2X	19:34	0.0634	0.0212	-.0445	0.0190
CCV	19:39	4.79/5	4.88/5	4.95/5	5.27/5
CCB	19:48	0.0000	0.0023	0.0030	0.0026
MCV	19:51	2.38/2.5	2.43/2.5	2.45/2.5	2.71/2.5
2805060305_2X	19:55	0.0860	0.0426	-.0753	0.0323
2805060311_2X	19:59	0.0280	0.0117	-.0710	0.0217
2805060312_2X	20:03	0.0361	0.0144	-.0793	0.0234
2805060313_2X	20:07	0.0155	0.0146	-.0694	0.0271
2805060314_2X	20:12	0.0911	0.0488	-.0815	0.0285
2805060315_2X	20:16	0.1698	0.0172	-.0453	0.0265
2805060316_2X	20:20	0.0738	0.0280	-.0751	0.0271
2805060317_2X	20:23	0.0630	0.0173	-.0753	0.0276
2805060318_2X	20:28	0.0310	0.0086	-.0527	0.0273
MBLANK2007	20:32	0.0010	-.0003	0.0019	0.0009
CCV	20:36	4.76/5	4.83/5	4.93/5	5.25/5
CCB	20:45	0.0016	0.0034	0.0009	0.0009
MRL	20:48	0.091/.1	0.046/.05	0.096/.1	0.113/.1
MRL2007	20:52	0.103/.1	0.053/.05	0.104/.1	0.121/.1
LCS2007	20:55	0.919/1	0.465/.5	0.939/1	1.01/1

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Sample ID	Time	AS	SB	SE	TL
LCSD2007	20:59	0.911/1	0.456/.5	0.930/1	1.01/1
2805070236_2X	21:03	0.0806	0.0482	-.0513	0.0288
2805070236MS_2X	21:07	1.178	0.5775	1.040	1.034
2805070236MSD_2X	21:11	1.148	0.5744	1.009	1.005
2805070239_2X	21:14	0.0827	0.0163	-.0571	0.0209
2805070239MS_2X	21:19	1.153	0.5304	1.004	1.011
2805070239MSD_2X	21:23	1.131	0.5282	1.009	1.003
CCV	21:31	4.82/5	4.86/5	4.97/5	5.29/5
CCB	21:39	0.0064	0.0005	0.0032	0.0009
MCV	21:45	2.42/2.5	2.47/2.5	2.52/2.5	2.76(2.5)
2805060319_2X	21:49	0.1747	0.0338	-.0406	0.0356
2805060320_2X	21:53	0.1496	0.0379	-.0769	0.0277
2805070224_10X	21:57	-.0922	0.5314	-.2338	0.1149
2805070225_10X	22:02	-.1192	0.5319	-.1928	0.0983
2805070226_10X	22:06	-.1457	0.5560	-.1965	0.0954
2805070227_10X	22:10	-.1732	0.4719	-.2708	0.1216
2805070228_10X	22:15	-.1688	0.5265	-.2465	0.1134
2805070229_5X	22:19	-.0016	0.2862	-.1237	0.0699
2805070230_5X	22:23	-.0441	0.3626	-.1287	0.0686
2805070231_5X	22:27	-.0302	0.2593	-.1557	0.0688
CCV	22:35	4.78/5	4.84/5	4.93/5	5.28/5
CCB	22:44	0.0026	0.0020	0.0017	0.0030
2805070232_5X	22:48	-.0394	0.2456	-.1208	0.0620
2805070233_5X	22:52	-.0078	0.2006	-.1451	0.0583
2805070234_5X	22:56	-.0006	0.1719	-.1026	0.0537
2805070235_5X	23:01	0.0162	0.0824	-.1168	0.0387
2805070237_2X	23:05	0.0880	0.0305	-.0491	0.0216
2805070238_2X	23:09	0.0380	0.0213	-.0766	0.0298
2805070240_2X	23:14	0.0839	0.0298	-.0524	0.0281
2805070241_2X	23:17	0.0127	0.0134	-.0378	0.0221
MBLANK2007	23:22	0.0000	0.0004	0.0018	0.0028
MRL	23:25	0.091/.1	0.046/.05	0.097/.1	0.114/.1
CCV	23:33	4.78/5	4.83/5	4.91/5	5.25/5
CCB	23:42	0.0046	0.0026	0.0029	0.0039
MCV	23:48	2.38/2.5	2.43/2.5	2.46/2.5	2.71/2.5
MRL2007	23:51	0.107/.1	0.056/.05	0.095/.1	0.121/.1
LCS2007	23:55	0.922/1	0.466/.5	0.937/1	1.01/1
LCSD2007	23:58	0.935/1	0.480/.5	0.954/1	1.03/1
2805080195_2X	0:01	0.0678	0.0111	-.0437	0.0230
2805080195MS_2X	0:05	1.067	0.5105	0.9574	0.9908
2805080195MSD_2X	0:09	1.101	0.5237	1.000	1.026
2805080199_2X	0:13	0.0464	0.0145	-.0573	0.0284
2805080199MS_2X	0:17	1.077	0.5094	0.9623	0.9872
2805080199MSD_2X	0:21	1.035	0.4989	0.9227	0.9548
2805070675_2X	0:24	0.1722	0.0185	-.1233	0.0381
CCV	0:32	4.81/5	4.87/5	4.93/5	5.26/5
CCB	0:41	0.0020	0.0046	-.0006	0.0013
2805070677_2X	0:44	0.0279	0.0193	-.0857	0.0287
2805070678_2X	0:49	0.0243	0.0228	-.0805	0.0254
2805070679_2X	0:53	0.2158	0.0186	-.0703	0.0305

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Sample ID	Time	AS	SB	SE	TL
2805080191_2X	0:58	0.0030	0.0177	-.0463	0.0239
2805080192_2X	1:02	0.1319	0.0092	-.0462	0.0200
2805080193_2X	1:06	0.0161	0.0071	-.0441	0.0183
2805080194_2X	1:11	0.0752	0.0155	-.0778	0.0253
2805080196_2X	1:15	0.1028	0.0304	-.0647	0.0326
2805080197_2X	1:19	0.0031	0.0078	-.0001	0.0016
2805080200_5X	1:23	-.0289	0.2279	-.1080	0.0532
CCV	1:32	4.79/5	4.85/5	4.88/5	5.24/5
CCB	1:41	0.0028	0.0015	0.0017	0.0023
MCV	1:46	2.39/2.5	2.45/2.5	2.45/2.5	2.72/2.5
2805080201_2X	1:50	0.1467	0.0212	-.0344	0.0202
2805080202_2X	1:54	0.0801	0.0129	-.0592	0.0259
2805080646_2X	1:58	0.0586	0.0074	-.0449	0.0208
2805080652_2X	2:03	0.1287	0.0149	-.0620	0.0265
2805080653_2X	2:07	0.0594	0.0170	-.0637	0.0214
2805080654_2X	2:11	0.0009	0.0353	-.0627	0.0397
2805080655_5X	2:16	0.0010	0.2103	-.1421	0.0576
ECV	2:22	4.80/5	4.85/5	4.88/5	5.22/5
ECB	2:31	0.0031	0.0030	-.0010	0.0003

Analysis Begun

Start Time: 5/18/2008 17:01:04
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 0
Date Collected: 5/18/2008 17:01:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Sca	410798.2	2181.83	0.53%	100	%
Yr	496655.7	5843.58	1.18%	100	%
Ag†	182.8	49.90	27.30%	[0.00]	mg/L
B_†	194.9	8.85	4.54%	[0.00]	mg/L
Ba†	-25.4	2.58	10.15%	[0.00]	mg/L
Be†	-3446.4	0.89	0.03%	[0.00]	mg/L
Ca†	3597.4	49.02	1.36%	[0.00]	mg/L
Cd†	33.0	1.88	5.68%	[0.00]	mg/L
Co†	-46.0	1.72	3.74%	[0.00]	mg/L
Cr†	125.1	0.37	0.29%	[0.00]	mg/L
Cu†	3062.0	23.81	0.78%	[0.00]	mg/L
Fe†	-94.9	4.18	4.40%	[0.00]	mg/L
K†	128.8	11.00	8.54%	[0.00]	mg/L
Mg†	-535.4	9.98	1.86%	[0.00]	mg/L
Mn†	374.4	2.88	0.77%	[0.00]	mg/L
Mo†	12.7	0.17	1.33%	[0.00]	mg/L
Na†	117.4	21.46	18.28%	[0.00]	mg/L
Ni†	-45.0	2.60	5.77%	[0.00]	mg/L
Pb†	-19.1	4.78	24.95%	[0.00]	mg/L
V†	136.1	1.73	1.27%	[0.00]	mg/L
Zn†	85.3	3.47	4.07%	[0.00]	mg/L

Analysis Begun

Start Time: 5/18/2008 17:17:56
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 0
Date Collected: 5/18/2008 17:18:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	410317.9	1318.36	0.32%	100	%
Yr	490343.9	1817.90	0.37%	100	%
Ag†	158.6	63.90	40.29%	[0.00]	mg/L
B_†	206.8	12.12	5.86%	[0.00]	mg/L
Ba†	-21.2	1.78	8.40%	[0.00]	mg/L
Be†	-3447.7	38.33	1.11%	[0.00]	mg/L
Ca†	3614.3	9.37	0.26%	[0.00]	mg/L
Cd†	36.6	0.91	2.49%	[0.00]	mg/L
Co†	-43.9	1.39	3.17%	[0.00]	mg/L
Cr†	119.8	2.76	2.31%	[0.00]	mg/L
Cu†	3037.0	71.46	2.35%	[0.00]	mg/L
Fe†	-95.2	10.07	10.57%	[0.00]	mg/L
K†	155.1	14.25	9.19%	[0.00]	mg/L
Mg†	-522.2	4.41	0.84%	[0.00]	mg/L
Mn†	400.6	5.58	1.39%	[0.00]	mg/L
Mo†	14.7	3.00	20.36%	[0.00]	mg/L
Na†	59.8	48.42	80.93%	[0.00]	mg/L
Ni†	-58.1	4.80	8.26%	[0.00]	mg/L
Pb†	-12.1	0.66	5.49%	[0.00]	mg/L
V†	129.3	14.74	11.40%	[0.00]	mg/L
Zn†	85.1	3.59	4.22%	[0.00]	mg/L

User canceled analysis.

Analysis Begun

Start Time: 5/18/2008 17:22:58
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 2
Sample ID: Standard 2
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 15
Date Collected: 5/18/2008 17:22:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	371945.6	5378.46	1.45%	90.6	%
Yr	466322.6	489.91	0.11%	95.1	%
Ag†	484033.3	3402.28	0.70%	[2]	mg/L
B_†	127509.6	1565.27	1.23%	[5.02]	mg/L
Ba†	399030.3	1357.02	0.34%	[10]	mg/L
Be†	10022709.4	121315.92	1.21%	[4.01]	mg/L
Ca†	3091948.8	15865.71	0.51%	[100]	mg/L
Cd†	106361.7	1699.57	1.60%	[5.01]	mg/L
Co†	143674.2	2476.58	1.72%	[10]	mg/L
Cr†	408445.0	3609.81	0.88%	[9.97]	mg/L
Cu†	2986117.0	15581.02	0.52%	[10]	mg/L
Fe†	124966.9	549.45	0.44%	[9.98]	mg/L
K†	131996.0	114.93	0.09%	[100]	mg/L
Mg†	2158964.8	2866.27	0.13%	[100]	mg/L
Mn†	4742884.5	32432.76	0.68%	[10]	mg/L
Mo†	99419.2	1535.52	1.54%	[9.98]	mg/L
Na†	538322.3	1880.03	0.35%	[100]	mg/L
Ni†	185694.3	2841.77	1.53%	[10]	mg/L
Pb†	37829.4	512.50	1.35%	[10]	mg/L
V†	1462531.7	8188.65	0.56%	[10]	mg/L
Zn†	379510.4	5643.06	1.49%	[10]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	242000	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	8266	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	1603	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	25400	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	39900	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	2499000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	30920	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	21230	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	14370	0.00000	1.000000	
Cr	1	Lin, Calc Int	-0.0	40970	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	298600	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	12520	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1320	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	21590	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	474300	0.00000	1.000000	
Mo	1	Lin, Calc Int	-0.0	9962	0.00000	1.000000	

Na	1	Lin, Calc Int	0.0	5383	0.00000	1.000000
Ni	1	Lin, Calc Int	-0.0	18570	0.00000	1.000000
Pb	1	Lin, Calc Int	0.0	3783	0.00000	1.000000
Sb	1	Lin, Calc Int	0.0	1613	0.00000	1.000000
Se	1	Lin, Calc Int	-0.0	999.5	0.00000	1.000000
Tl	1	Lin, Calc Int	0.0	2205	0.00000	1.000000
V	1	Lin, Calc Int	0.0	146300	0.00000	1.000000
Zn	1	Lin, Calc Int	0.0	37950	0.00000	1.000000

Analysis Begun

Start Time: 5/18/2008 17:27:54
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 15
Date Collected: 5/18/2008 17:27:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	373545.4	91.0	%	0.02				0.03%
Yr	464184.9	94.7	%	0.35				0.37%
Ag†	485892.6	2.01	mg/L	0.009	2.01	mg/L	0.009	0.44%
QC value within limits for Ag	Recovery = 100.57%							
B_†	127082.5	4.91	mg/L	0.017	4.91	mg/L	0.017	0.35%
QC value within limits for B_	Recovery = 98.29%							
Ba†	401651.8	10.1	mg/L	0.11	10.1	mg/L	0.11	1.14%
QC value within limits for Ba	Recovery = 100.66%							
Be†	9999803.1	4.00	mg/L	0.003	4.00	mg/L	0.003	0.07%
QC value within limits for Be	Recovery = 100.06%							
Ca†	3084313.2	99.8	mg/L	0.16	99.8	mg/L	0.16	0.16%
QC value within limits for Ca	Recovery = 99.75%							
Cd†	105308.9	4.99	mg/L	0.024	4.99	mg/L	0.024	0.47%
QC value within limits for Cd	Recovery = 99.82%							
Co†	142652.2	9.93	mg/L	0.036	9.93	mg/L	0.036	0.36%
QC value within limits for Co	Recovery = 99.29%							
Cr†	405926.6	9.91	mg/L	0.049	9.91	mg/L	0.049	0.49%
QC value within limits for Cr	Recovery = 99.09%							
Cu†	3013802.1	10.1	mg/L	0.07	10.1	mg/L	0.07	0.73%
QC value within limits for Cu	Recovery = 101.02%							
Fe†	123780.8	9.89	mg/L	0.005	9.89	mg/L	0.005	0.05%
QC value within limits for Fe	Recovery = 98.85%							
K†	132374.2	100	mg/L	0.1	100	mg/L	0.1	0.12%
QC value within limits for K	Recovery = 100.29%							
Mg†	2145640.4	99.4	mg/L	0.14	99.4	mg/L	0.14	0.14%
QC value within limits for Mg	Recovery = 99.40%							
Mn†	4754741.8	10.0	mg/L	0.08	10.0	mg/L	0.08	0.80%
QC value within limits for Mn	Recovery = 100.23%							
Mo†	98404.3	9.88	mg/L	0.047	9.88	mg/L	0.047	0.47%
QC value within limits for Mo	Recovery = 98.78%							
Na†	542795.6	101	mg/L	0.1	101	mg/L	0.1	0.06%
QC value within limits for Na	Recovery = 100.83%							
Ni†	183756.6	9.90	mg/L	0.033	9.90	mg/L	0.033	0.33%
QC value within limits for Ni	Recovery = 98.96%							
Pb†	37447.9	9.90	mg/L	0.021	9.90	mg/L	0.021	0.21%
QC value within limits for Pb	Recovery = 98.99%							
V†	1469435.3	10.1	mg/L	0.07	10.1	mg/L	0.07	0.65%
QC value within limits for V	Recovery = 100.99%							
Zn†	375650.2	9.81	mg/L	0.035	9.81	mg/L	0.035	0.36%
QC value within limits for Zn	Recovery = 98.13%							

All analyte(s) passed QC.

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

Autosampler Location: 9
Date Collected: 5/18/2008 17:31:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LINEARITY

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	355144.5	86.6	%	0.88				1.02%
Yr	447543.0	91.3	%	0.00				0.01%
Ag†	-5439.1	0.0131	mg/L	0.00004	0.0131	mg/L	0.00004	0.31%
QC value within limits for Ag	Recovery = Not calculated							
B_†	1204.9	0.0475	mg/L	0.00315	0.0475	mg/L	0.00315	6.62%
QC value within limits for B_	Recovery = Not calculated							
Ba†	57.7	0.00145	mg/L	0.000131	0.00145	mg/L	0.000131	9.05%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-561.6	-0.00022	mg/L	0.000017	-0.00022	mg/L	0.000017	7.41%
QC value within limits for Be	Recovery = Not calculated							
Ca†	9015553.4	292	mg/L	1.3	292	mg/L	1.3	0.45%
QC value within limits for Ca	Recovery = 97.19%							
Cd†	-17.0	-0.00079	mg/L	0.000113	-0.00079	mg/L	0.000113	14.25%
QC value within limits for Cd	Recovery = Not calculated							
Co†	26.3	0.00183	mg/L	0.000221	0.00183	mg/L	0.000221	12.10%
QC value within limits for Co	Recovery = Not calculated							
Cr†	113.6	0.00277	mg/L	0.000184	0.00277	mg/L	0.000184	6.65%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-2503.8	-0.00838	mg/L	0.000037	-0.00838	mg/L	0.000037	0.45%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1208995.6	96.6	mg/L	0.75	96.6	mg/L	0.75	0.78%
QC value within limits for Fe	Recovery = 96.55%							
K†	406938.6	308	mg/L	2.7	308	mg/L	2.7	0.87%
QC value within limits for K	Recovery = 102.77%							
Mg†	3984994.0	185	mg/L	0.8	185	mg/L	0.8	0.45%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-1175.8	-0.00663	mg/L	0.000028	-0.00663	mg/L	0.000028	0.42%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	11.4	0.00115	mg/L	0.000580	0.00115	mg/L	0.000580	50.57%
QC value within limits for Mo	Recovery = Not calculated							
Na†	1598835.5	297	mg/L	3.1	297	mg/L	3.1	1.04%
QC value within limits for Na	Recovery = 99.00%							
Ni†	6.7	0.00036	mg/L	0.000294	0.00036	mg/L	0.000294	82.03%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-15.3	-0.00403	mg/L	0.000247	-0.00403	mg/L	0.000247	6.12%
QC value within limits for Pb	Recovery = Not calculated							
V†	-252.9	0.00207	mg/L	0.000121	0.00207	mg/L	0.000121	5.87%
QC value within limits for V	Recovery = Not calculated							
Zn†	853.8	0.0225	mg/L	0.00001	0.0225	mg/L	0.00001	0.03%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 10
Date Collected: 5/18/2008 17:34:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	370451.0	90.3	%	0.85				0.94%
Yr	457337.3	93.3	%	1.17				1.26%
Ag†	-5344.5	0.0129	mg/L	0.00037	0.0129	mg/L	0.00037	2.83%
QC value within limits for Ag	Recovery = Not calculated							
B_†	471.1	0.0186	mg/L	0.00049	0.0186	mg/L	0.00049	2.66%
QC value within limits for B_	Recovery = Not calculated							
Ba†	77.1	0.00193	mg/L	0.000208	0.00193	mg/L	0.000208	10.77%
QC value within limits for Ba	Recovery = Not calculated							
Be†	-691.3	-0.00028	mg/L	0.000002	-0.00028	mg/L	0.000002	0.65%
QC value within limits for Be	Recovery = Not calculated							
Ca†	7644399.8	247	mg/L	0.3	247	mg/L	0.3	0.14%
QC value within limits for Ca	Recovery = 98.89%							
Cd†	-26.0	-0.00122	mg/L	0.000006	-0.00122	mg/L	0.000006	0.53%
QC value within limits for Cd	Recovery = Not calculated							
Co†	5.9	0.00041	mg/L	0.000518	0.00041	mg/L	0.000518	125.89%
QC value within limits for Co	Recovery = Not calculated							
Cr†	5.5	0.00013	mg/L	0.000115	0.00013	mg/L	0.000115	85.89%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-2810.4	-0.00941	mg/L	0.000038	-0.00941	mg/L	0.000038	0.40%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1191664.8	95.2	mg/L	0.06	95.2	mg/L	0.06	0.06%
QC value within limits for Fe	Recovery = 95.17%							
K†	395.8	0.300	mg/L	0.0581	0.300	mg/L	0.0581	19.38%
QC value within limits for K	Recovery = Not calculated							
Mg†	4969736.6	230	mg/L	0.2	230	mg/L	0.2	0.11%
QC value within limits for Mg	Recovery = 92.14%							
Mn†	-1406.9	-0.00814	mg/L	0.000098	-0.00814	mg/L	0.000098	1.20%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	2.6	0.00026	mg/L	0.000492	0.00026	mg/L	0.000492	189.62%
QC value within limits for Mo	Recovery = Not calculated							
Na†	589.7	0.110	mg/L	0.0027	0.110	mg/L	0.0027	2.42%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-16.7	-0.00090	mg/L	0.000136	-0.00090	mg/L	0.000136	15.13%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-146.1	-0.0386	mg/L	0.00267	-0.0386	mg/L	0.00267	6.91%
QC value within limits for Pb	Recovery = Not calculated							
V†	-308.0	0.00163	mg/L	0.000078	0.00163	mg/L	0.000078	4.78%
QC value within limits for V	Recovery = Not calculated							
Zn†	674.3	0.0178	mg/L	0.00016	0.0178	mg/L	0.00016	0.91%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 11
Date Collected: 5/18/2008 17:38:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	367501.6	89.6	%	0.19				0.21%
Yr	454514.7	92.7	%	1.38				1.49%
Ag†	64692.2	0.303	mg/L	0.0007	0.303	mg/L	0.0007	0.25%
QC value less than the lower limit for Ag Recovery = 60.50%								
B_†	158.3	0.00410	mg/L	0.000730	0.00410	mg/L	0.000730	17.82%
QC value within limits for B_ Recovery = Not calculated								
Ba†	10434.5	0.261	mg/L	0.0009	0.261	mg/L	0.0009	0.36%
QC value within limits for Ba Recovery = 104.60%								
Be†	619509.9	0.248	mg/L	0.0004	0.248	mg/L	0.0004	0.15%
QC value within limits for Be Recovery = 99.16%								
Ca†	7694108.6	249	mg/L	0.3	249	mg/L	0.3	0.14%
QC value within limits for Ca Recovery = 99.54%								
Cd†	10475.9	0.494	mg/L	0.0018	0.494	mg/L	0.0018	0.36%
QC value within limits for Cd Recovery = 98.84%								
Co†	3441.8	0.240	mg/L	0.0011	0.240	mg/L	0.0011	0.44%
QC value within limits for Co Recovery = 95.82%								
Cr†	10336.6	0.252	mg/L	0.0007	0.252	mg/L	0.0007	0.27%
QC value within limits for Cr Recovery = 100.92%								
Cu†	73410.2	0.246	mg/L	0.0009	0.246	mg/L	0.0009	0.36%
QC value within limits for Cu Recovery = 98.43%								
Fe†	1198274.8	95.7	mg/L	0.25	95.7	mg/L	0.25	0.26%
QC value within limits for Fe Recovery = 95.70%								
K†	237.0	0.180	mg/L	0.0334	0.180	mg/L	0.0334	18.61%
QC value within limits for K Recovery = Not calculated								
Mg†	4992461.6	231	mg/L	0.6	231	mg/L	0.6	0.25%
QC value within limits for Mg Recovery = 92.57%								
Mn†	119824.6	0.247	mg/L	0.0005	0.247	mg/L	0.0005	0.20%
QC value within limits for Mn Recovery = 98.98%								
Mo†	-7.3	-0.00073	mg/L	0.000014	-0.00073	mg/L	0.000014	1.98%
QC value within limits for Mo Recovery = Not calculated								
Na†	395.0	0.0734	mg/L	0.00267	0.0734	mg/L	0.00267	3.64%
QC value within limits for Na Recovery = Not calculated								
Ni†	8684.8	0.468	mg/L	0.0016	0.468	mg/L	0.0016	0.33%
QC value within limits for Ni Recovery = 93.54%								
Pb†	1727.9	0.457	mg/L	0.0022	0.457	mg/L	0.0022	0.47%
QC value within limits for Pb Recovery = 91.35%								
V†	36506.3	0.255	mg/L	0.0009	0.255	mg/L	0.0009	0.34%
QC value within limits for V Recovery = 101.84%								
Zn†	20260.3	0.530	mg/L	0.0026	0.530	mg/L	0.0026	0.48%
QC value within limits for Zn Recovery = 106.05%								

QC Failed. Continue with analysis.

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

Autosampler Location: 0
Date Collected: 5/18/2008 17:42:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	409631.6	99.8	%	0.75				0.76%
Yr	497380.1	101	%	0.2				0.24%
Ag†	81.3	0.00034	mg/L	0.000131	0.00034	mg/L	0.000131	38.65%
QC value within limits for Ag	Recovery = Not calculated							
B_†	248.0	0.00976	mg/L	0.000085	0.00976	mg/L	0.000085	0.87%
QC value within limits for B_	Recovery = Not calculated							
Ba†	0.7	0.00002	mg/L	0.000038	0.00002	mg/L	0.000038	206.35%
QC value within limits for Ba	Recovery = Not calculated							
Be†	130.4	0.00005	mg/L	0.000033	0.00005	mg/L	0.000033	63.67%
QC value within limits for Be	Recovery = Not calculated							
Ca†	239.3	0.00774	mg/L	0.002030	0.00774	mg/L	0.002030	26.24%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	5.4	0.00026	mg/L	0.000173	0.00026	mg/L	0.000173	67.41%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.4	-0.00010	mg/L	0.000007	-0.00010	mg/L	0.000007	7.27%
QC value within limits for Co	Recovery = Not calculated							
Cr†	0.3	0.00001	mg/L	0.000008	0.00001	mg/L	0.000008	102.69%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	165.8	0.00056	mg/L	0.000107	0.00056	mg/L	0.000107	19.26%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	77.7	0.00620	mg/L	0.001351	0.00620	mg/L	0.001351	21.78%
QC value within limits for Fe	Recovery = Not calculated							
K†	83.2	0.0630	mg/L	0.00459	0.0630	mg/L	0.00459	7.29%
QC value within limits for K	Recovery = Not calculated							
Mg†	198.4	0.00920	mg/L	0.002478	0.00920	mg/L	0.002478	26.93%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-99.7	-0.00021	mg/L	0.000007	-0.00021	mg/L	0.000007	3.50%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	4.6	0.00046	mg/L	0.000358	0.00046	mg/L	0.000358	78.34%
QC value within limits for Mo	Recovery = Not calculated							
Na†	8.1	0.00150	mg/L	0.003995	0.00150	mg/L	0.003995	267.01%
QC value within limits for Na	Recovery = Not calculated							
Ni†	5.3	0.00029	mg/L	0.000172	0.00029	mg/L	0.000172	60.18%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	5.3	0.00141	mg/L	0.000572	0.00141	mg/L	0.000572	40.67%
QC value within limits for Pb	Recovery = Not calculated							
V†	7.2	0.00005	mg/L	0.000031	0.00005	mg/L	0.000031	61.94%
QC value within limits for V	Recovery = Not calculated							
Zn†	10.7	0.00028	mg/L	0.000065	0.00028	mg/L	0.000065	23.09%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 5/18/2008 17:45:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	214.0 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	408866.9	99.6	%	0.06				0.06%
Yr	494468.2	101	%	1.3				1.29%
Ag†	234977.7	0.971	mg/L	0.0047	0.971	mg/L	0.0047	0.48%
QC value within limits for Ag	Recovery = 97.13%							
B_†	24039.8	0.937	mg/L	0.0060	0.937	mg/L	0.0060	0.64%
QC value within limits for B_	Recovery = 93.74%							
Ba†	42393.5	1.06	mg/L	0.006	1.06	mg/L	0.006	0.56%
QC value within limits for Ba	Recovery = 106.24%							
Be†	2523758.3	1.01	mg/L	0.008	1.01	mg/L	0.008	0.77%
QC value within limits for Be	Recovery = 100.99%							
Ca†	31597.0	1.02	mg/L	0.019	1.02	mg/L	0.019	1.81%
QC value within limits for Ca	Recovery = 102.19%							
Cd†	21000.7	0.993	mg/L	0.0058	0.993	mg/L	0.0058	0.58%
QC value within limits for Cd	Recovery = 99.25%							
Co†	15395.4	1.07	mg/L	0.008	1.07	mg/L	0.008	0.78%
QC value within limits for Co	Recovery = 107.16%							
Cr†	42621.4	1.04	mg/L	0.009	1.04	mg/L	0.009	0.83%
QC value within limits for Cr	Recovery = 104.04%							
Cu†	306051.4	1.03	mg/L	0.005	1.03	mg/L	0.005	0.46%
QC value within limits for Cu	Recovery = 102.59%							
Fe†	12584.6	1.01	mg/L	0.014	1.01	mg/L	0.014	1.41%
QC value within limits for Fe	Recovery = 100.50%							
K†	12820.1	9.71	mg/L	0.219	9.71	mg/L	0.219	2.25%
QC value within limits for K	Recovery = 97.13%							
Mg†	22721.0	1.05	mg/L	0.020	1.05	mg/L	0.020	1.87%
QC value within limits for Mg	Recovery = 105.42%							
Mn†	507143.6	1.07	mg/L	0.008	1.07	mg/L	0.008	0.77%
QC value within limits for Mn	Recovery = 106.92%							
Mo†	9687.0	0.972	mg/L	0.0017	0.972	mg/L	0.0017	0.17%
QC value within limits for Mo	Recovery = 97.24%							
Na†	5261.7	0.977	mg/L	0.0342	0.977	mg/L	0.0342	3.50%
QC value within limits for Na	Recovery = 97.74%							
Ni†	20386.4	1.10	mg/L	0.009	1.10	mg/L	0.009	0.85%
QC value within limits for Ni	Recovery = 109.78%							
Pb†	4048.2	1.07	mg/L	0.010	1.07	mg/L	0.010	0.98%
QC value within limits for Pb	Recovery = 107.01%							
V†	144991.6	0.997	mg/L	0.0074	0.997	mg/L	0.0074	0.74%
QC value within limits for V	Recovery = 99.68%							
Zn†	39885.9	1.04	mg/L	0.006	1.04	mg/L	0.006	0.61%
QC value within limits for Zn	Recovery = 104.16%							

All analyte(s) passed QC.

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

Autosampler Location: 4
Date Collected: 5/18/2008 17:48:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	381239.8	92.9	%	0.65				0.70%
Yr	471551.0	96.2	%	0.44				0.46%
Ag†	242670.2	1.00	mg/L	0.018	1.00	mg/L	0.018	1.78%
QC value within limits for Ag	Recovery = 100.46%							
B_†	64917.7	2.51	mg/L	0.047	2.51	mg/L	0.047	1.89%
QC value within limits for B_	Recovery = 100.42%							
Ba†	207371.5	5.20	mg/L	0.084	5.20	mg/L	0.084	1.61%
QC value within limits for Ba	Recovery = 103.94%							
Be†	5282069.3	2.11	mg/L	0.014	2.11	mg/L	0.014	0.65%
QC value within limits for Be	Recovery = 105.70%							
Ca†	1591313.0	51.5	mg/L	0.05	51.5	mg/L	0.05	0.10%
QC value within limits for Ca	Recovery = 102.93%							
Cd†	43406.9	2.06	mg/L	0.030	2.06	mg/L	0.030	1.47%
QC value within limits for Cd	Recovery = 103.04%							
Co†	75288.8	5.24	mg/L	0.062	5.24	mg/L	0.062	1.18%
QC value within limits for Co	Recovery = 104.80%							
Cr†	216027.6	5.27	mg/L	0.071	5.27	mg/L	0.071	1.35%
QC value within limits for Cr	Recovery = 105.46%							
Cu†	1540262.0	5.16	mg/L	0.011	5.16	mg/L	0.011	0.22%
QC value within limits for Cu	Recovery = 103.26%							
Fe†	64486.3	5.15	mg/L	0.028	5.15	mg/L	0.028	0.53%
QC value within limits for Fe	Recovery = 103.00%							
K†	67422.2	51.1	mg/L	0.30	51.1	mg/L	0.30	0.59%
QC value within limits for K	Recovery = 102.16%							
Mg†	1109842.3	51.4	mg/L	0.17	51.4	mg/L	0.17	0.33%
QC value within limits for Mg	Recovery = 102.83%							
Mn†	2492345.7	5.25	mg/L	0.006	5.25	mg/L	0.006	0.12%
QC value within limits for Mn	Recovery = 105.08%							
Mo†	50871.5	5.11	mg/L	0.071	5.11	mg/L	0.071	1.40%
QC value within limits for Mo	Recovery = 102.13%							
Na†	278793.6	51.8	mg/L	0.18	51.8	mg/L	0.18	0.36%
QC value within limits for Na	Recovery = 103.58%							
Ni†	97409.7	5.25	mg/L	0.074	5.25	mg/L	0.074	1.41%
QC value within limits for Ni	Recovery = 104.91%							
Pb†	19732.4	5.22	mg/L	0.080	5.22	mg/L	0.080	1.53%
QC value within limits for Pb	Recovery = 104.32%							
V†	757727.8	5.21	mg/L	0.006	5.21	mg/L	0.006	0.11%
QC value within limits for V	Recovery = 104.17%							
Zn†	198441.2	5.18	mg/L	0.084	5.18	mg/L	0.084	1.61%
QC value within limits for Zn	Recovery = 103.68%							

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 17:51:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	409562.7	99.8	%	0.70				0.70%
Yr	491648.9	100	%	0.6				0.63%
Ag†	73.6	0.00030	mg/L	0.000088	0.00030	mg/L	0.000088	28.83%
QC value within limits for Ag Recovery = Not calculated								
B_†	610.0	0.0240	mg/L	0.00138	0.0240	mg/L	0.00138	5.77%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	3.6	0.00009	mg/L	0.000004	0.00009	mg/L	0.000004	4.61%
QC value within limits for Ba Recovery = Not calculated								
Be†	133.9	0.00005	mg/L	0.000016	0.00005	mg/L	0.000016	30.13%
QC value within limits for Be Recovery = Not calculated								
Ca†	67.4	0.00218	mg/L	0.000886	0.00218	mg/L	0.000886	40.67%
QC value within limits for Ca Recovery = Not calculated								
Cd†	5.0	0.00024	mg/L	0.000095	0.00024	mg/L	0.000095	39.79%
QC value within limits for Cd Recovery = Not calculated								
Co†	7.3	0.00051	mg/L	0.000062	0.00051	mg/L	0.000062	12.19%
QC value within limits for Co Recovery = Not calculated								
Cr†	0.9	0.00002	mg/L	0.000047	0.00002	mg/L	0.000047	222.84%
QC value within limits for Cr Recovery = Not calculated								
Cu†	134.7	0.00045	mg/L	0.000080	0.00045	mg/L	0.000080	17.66%
QC value within limits for Cu Recovery = Not calculated								
Fe†	10.7	0.00086	mg/L	0.000328	0.00086	mg/L	0.000328	38.33%
QC value within limits for Fe Recovery = Not calculated								
K†	66.4	0.0503	mg/L	0.01502	0.0503	mg/L	0.01502	29.86%
QC value within limits for K Recovery = Not calculated								
Mg†	18.1	0.00084	mg/L	0.000173	0.00084	mg/L	0.000173	20.50%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-94.2	-0.00020	mg/L	0.000001	-0.00020	mg/L	0.000001	0.67%
QC value within limits for Mn Recovery = Not calculated								
Mo†	9.5	0.00095	mg/L	0.000295	0.00095	mg/L	0.000295	31.08%
QC value within limits for Mo Recovery = Not calculated								
Na†	-10.2	-0.00189	mg/L	0.014808	-0.00189	mg/L	0.014808	784.59%
QC value within limits for Na Recovery = Not calculated								
Ni†	11.3	0.00061	mg/L	0.000233	0.00061	mg/L	0.000233	38.18%
QC value within limits for Ni Recovery = Not calculated								
Pb†	1.8	0.00047	mg/L	0.000029	0.00047	mg/L	0.000029	6.24%
QC value within limits for Pb Recovery = Not calculated								
V†	4.0	0.00003	mg/L	0.000073	0.00003	mg/L	0.000073	265.58%
QC value within limits for V Recovery = Not calculated								
Zn†	4.5	0.00011	mg/L	0.000153	0.00011	mg/L	0.000153	134.49%
QC value within limits for Zn Recovery = Not calculated								
QC Failed. Retry.								

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

Autosampler Location: 0
Date Collected: 5/18/2008 17:54:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	214.0 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	407185.5	99.2	%	0.03				0.03%
Yr	498496.7	102	%	0.6				0.55%
Ag†	111.9	0.00046	mg/L	0.000077	0.00046	mg/L	0.000077	16.62%
QC value within limits for Ag	Recovery = Not calculated							
B_†	411.0	0.0162	mg/L	0.00006	0.0162	mg/L	0.00006	0.38%
QC value within limits for B_	Recovery = Not calculated							
Ba†	1.0	0.00003	mg/L	0.000103	0.00003	mg/L	0.000103	407.18%
QC value within limits for Ba	Recovery = Not calculated							
Be†	36.5	0.00001	mg/L	0.000036	0.00001	mg/L	0.000036	249.46%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-62.2	-0.00201	mg/L	0.000770	-0.00201	mg/L	0.000770	38.26%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	3.1	0.00015	mg/L	0.000211	0.00015	mg/L	0.000211	145.26%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.2	-0.00008	mg/L	0.000266	-0.00008	mg/L	0.000266	319.69%
QC value within limits for Co	Recovery = Not calculated							
Cr†	2.7	0.00006	mg/L	0.000041	0.00006	mg/L	0.000041	63.11%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	138.9	0.00046	mg/L	0.000064	0.00046	mg/L	0.000064	13.71%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	5.5	0.00044	mg/L	0.000098	0.00044	mg/L	0.000098	22.23%
QC value within limits for Fe	Recovery = Not calculated							
K†	43.3	0.0328	mg/L	0.00318	0.0328	mg/L	0.00318	9.68%
QC value within limits for K	Recovery = Not calculated							
Mg†	9.1	0.00042	mg/L	0.000139	0.00042	mg/L	0.000139	32.96%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-109.4	-0.00023	mg/L	0.000003	-0.00023	mg/L	0.000003	1.20%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	3.8	0.00038	mg/L	0.000488	0.00038	mg/L	0.000488	129.16%
QC value within limits for Mo	Recovery = Not calculated							
Na†	-36.5	-0.00678	mg/L	0.002797	-0.00678	mg/L	0.002797	41.25%
QC value within limits for Na	Recovery = Not calculated							
Ni†	10.3	0.00055	mg/L	0.000062	0.00055	mg/L	0.000062	11.09%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-0.9	-0.00024	mg/L	0.000417	-0.00024	mg/L	0.000417	175.14%
QC value within limits for Pb	Recovery = Not calculated							
V†	12.8	0.00009	mg/L	0.000098	0.00009	mg/L	0.000098	111.96%
QC value within limits for V	Recovery = Not calculated							
Zn†	1.2	0.00003	mg/L	0.000137	0.00003	mg/L	0.000137	476.80%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 20
Date Collected: 5/18/2008 17:57:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	416797.0	102	%	1.4				1.39%
Yr	490908.4	100	%	0.4				0.45%
Ag†	2506.8	0.0104	mg/L	0.00043	0.0104	mg/L	0.00043	4.16%
QC value within limits for Ag	Recovery = 103.65%							
B_†	1461.3	0.0573	mg/L	0.00125	0.0573	mg/L	0.00125	2.18%
QC value within limits for B_	Recovery = 114.70%							
Ba†	808.3	0.0203	mg/L	0.00033	0.0203	mg/L	0.00033	1.61%
QC value within limits for Ba	Recovery = 101.29%							
Be†	2723.1	0.00109	mg/L	0.000031	0.00109	mg/L	0.000031	2.82%
QC value within limits for Be	Recovery = 109.11%							
Ca†	31095.5	1.01	mg/L	0.006	1.01	mg/L	0.006	0.64%
QC value within limits for Ca	Recovery = 100.57%							
Cd†	122.1	0.00591	mg/L	0.000028	0.00591	mg/L	0.000028	0.48%
QC value within limits for Cd	Recovery = 118.16%							
Co†	739.9	0.0515	mg/L	0.00122	0.0515	mg/L	0.00122	2.38%
QC value within limits for Co	Recovery = 102.99%							
Cr†	411.7	0.0101	mg/L	0.00029	0.0101	mg/L	0.00029	2.87%
QC value within limits for Cr	Recovery = 100.50%							
Cu†	3050.4	0.0102	mg/L	0.00037	0.0102	mg/L	0.00037	3.65%
QC value within limits for Cu	Recovery = 102.48%							
Fe†	251.1	0.0201	mg/L	0.00009	0.0201	mg/L	0.00009	0.43%
QC value within limits for Fe	Recovery = 100.26%							
K†	1306.5	0.990	mg/L	0.0062	0.990	mg/L	0.0062	0.63%
QC value within limits for K	Recovery = 98.98%							
Mg†	2224.2	0.103	mg/L	0.0005	0.103	mg/L	0.0005	0.45%
QC value within limits for Mg	Recovery = 103.06%							
Mn†	868.6	0.00183	mg/L	0.000052	0.00183	mg/L	0.000052	2.86%
QC value within limits for Mn	Recovery = 91.45%							
Mo†	196.3	0.0197	mg/L	0.00038	0.0197	mg/L	0.00038	1.95%
QC value within limits for Mo	Recovery = 98.53%							
Na†	5313.4	0.987	mg/L	0.0074	0.987	mg/L	0.0074	0.75%
QC value within limits for Na	Recovery = 98.70%							
Ni†	389.0	0.0209	mg/L	0.00068	0.0209	mg/L	0.00068	3.27%
QC value within limits for Ni	Recovery = 104.74%							
Pb†	79.0	0.0209	mg/L	0.00039	0.0209	mg/L	0.00039	1.85%
QC value within limits for Pb	Recovery = 104.43%							
V†	280.3	0.00197	mg/L	0.000044	0.00197	mg/L	0.000044	2.22%
QC value within limits for V	Recovery = 98.65%							
Zn†	752.6	0.0197	mg/L	0.00029	0.0197	mg/L	0.00029	1.45%
QC value within limits for Zn	Recovery = 98.25%							

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: FILTERCHECK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 18
Date Collected: 5/18/2008 18:01:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: FILTERCHECK

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	408971.8	99.7	%	0.82				0.82%
Yr	488235.3	99.6	%	0.27				0.27%
Ag†	97.6	0.00040	mg/L	0.000047	0.00040	mg/L	0.000047	11.57%
B_†	224.6	0.00884	mg/L	0.000408	0.00884	mg/L	0.000408	4.61%
Ba†	0.0	0.00000	mg/L	0.000088	0.00000	mg/L	0.000088	>999.9%
Be†	123.6	0.00005	mg/L	0.000023	0.00005	mg/L	0.000023	47.01%
Ca†	64.2	0.00208	mg/L	0.000984	0.00208	mg/L	0.000984	47.37%
Cd†	2.0	0.00010	mg/L	0.000034	0.00010	mg/L	0.000034	35.01%
Co†	-0.3	-0.00002	mg/L	0.000156	-0.00002	mg/L	0.000156	888.01%
Cr†	3.7	0.00009	mg/L	0.000089	0.00009	mg/L	0.000089	99.38%
Cu†	52.9	0.00018	mg/L	0.000347	0.00018	mg/L	0.000347	195.85%
Fe†	5.1	0.00041	mg/L	0.000261	0.00041	mg/L	0.000261	64.19%
K†	64.2	0.0486	mg/L	0.00318	0.0486	mg/L	0.00318	6.53%
Mg†	16.5	0.00077	mg/L	0.000338	0.00077	mg/L	0.000338	44.15%
Mn†	-101.5	-0.00021	mg/L	0.000008	-0.00021	mg/L	0.000008	3.56%
Mo†	3.6	0.00037	mg/L	0.000320	0.00037	mg/L	0.000320	87.66%
Na†	-63.1	-0.0117	mg/L	0.00590	-0.0117	mg/L	0.00590	50.29%
Ni†	10.5	0.00057	mg/L	0.000320	0.00057	mg/L	0.000320	56.47%
Pb†	-1.9	-0.00051	mg/L	0.001324	-0.00051	mg/L	0.001324	258.39%
V†	4.7	0.00003	mg/L	0.000077	0.00003	mg/L	0.000077	233.27%
Zn†	-10.6	-0.00028	mg/L	0.000111	-0.00028	mg/L	0.000111	39.29%

Sequence No.: 12
Sample ID: MBLANK2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 5/18/2008 18:04:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MBLANK2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	424406.4	103	%	0.5				0.44%
Yr	503632.9	103	%	0.1				0.06%
Agt	70.1	0.00029	mg/L	0.000242	0.00029	mg/L	0.000242	83.55%
B_t	127.8	0.00503	mg/L	0.000092	0.00503	mg/L	0.000092	1.83%
Bat	1.1	0.00003	mg/L	0.000072	0.00003	mg/L	0.000072	269.53%
Bet	174.4	0.00007	mg/L	0.000029	0.00007	mg/L	0.000029	41.75%
Cat	771.1	0.0249	mg/L	0.00020	0.0249	mg/L	0.00020	0.78%
Cdt	1.4	0.00007	mg/L	0.000032	0.00007	mg/L	0.000032	46.77%
Cot	0.6	0.00004	mg/L	0.000118	0.00004	mg/L	0.000118	284.47%
Crt	-13.4	-0.00033	mg/L	0.000014	-0.00033	mg/L	0.000014	4.18%
Cut	7.5	0.00003	mg/L	0.000007	0.00003	mg/L	0.000007	27.57%
Fet	15.1	0.00121	mg/L	0.000578	0.00121	mg/L	0.000578	47.95%
Kt	38.4	0.0291	mg/L	0.00267	0.0291	mg/L	0.00267	9.18%
Mgt	32.4	0.00150	mg/L	0.000040	0.00150	mg/L	0.000040	2.68%
Mnt	-163.0	-0.00034	mg/L	0.000011	-0.00034	mg/L	0.000011	3.08%
Mot	-1.6	-0.00016	mg/L	0.000243	-0.00016	mg/L	0.000243	148.73%
Nat	32.0	0.00594	mg/L	0.000327	0.00594	mg/L	0.000327	5.50%
Nit	11.1	0.00060	mg/L	0.000122	0.00060	mg/L	0.000122	20.29%
Pbt	-4.6	-0.00121	mg/L	0.000280	-0.00121	mg/L	0.000280	23.10%
Vt	-10.3	-0.00007	mg/L	0.000046	-0.00007	mg/L	0.000046	63.52%
Znt	121.3	0.00319	mg/L	0.000166	0.00319	mg/L	0.000166	5.21%

Sequence No.: 13
Sample ID: MRL2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 5/18/2008 18:08:28
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	418079.5	102	%	0.2				0.18%
Yr	499343.2	102	%	0.6				0.57%
Agt	2615.2	0.0108	mg/L	0.00008	0.0108	mg/L	0.00008	0.73%
B_t	1406.9	0.0552	mg/L	0.00022	0.0552	mg/L	0.00022	0.40%
Bat	883.5	0.0221	mg/L	0.00001	0.0221	mg/L	0.00001	0.04%
Bet	2869.0	0.00115	mg/L	0.000002	0.00115	mg/L	0.000002	0.21%
Cat	34355.9	1.11	mg/L	0.008	1.11	mg/L	0.008	0.69%
Cdt	134.8	0.00653	mg/L	0.000060	0.00653	mg/L	0.000060	0.92%
Cot	836.2	0.0582	mg/L	0.00032	0.0582	mg/L	0.00032	0.56%
Crt	449.4	0.0110	mg/L	0.00019	0.0110	mg/L	0.00019	1.76%
Cut	3408.9	0.0115	mg/L	0.00012	0.0115	mg/L	0.00012	1.01%
Fet	302.8	0.0242	mg/L	0.00043	0.0242	mg/L	0.00043	1.79%
Kt	1453.4	1.10	mg/L	0.006	1.10	mg/L	0.006	0.51%
Mgt	2439.2	0.113	mg/L	0.0005	0.113	mg/L	0.0005	0.46%
Mnt	929.9	0.00196	mg/L	0.000010	0.00196	mg/L	0.000010	0.50%
Mot	210.4	0.0211	mg/L	0.00008	0.0211	mg/L	0.00008	0.36%
Nat	5748.3	1.07	mg/L	0.015	1.07	mg/L	0.015	1.38%
Nit	433.2	0.0233	mg/L	0.00015	0.0233	mg/L	0.00015	0.65%
Pbt	83.1	0.0220	mg/L	0.00144	0.0220	mg/L	0.00144	6.57%
Vt	314.5	0.00221	mg/L	0.000035	0.00221	mg/L	0.000035	1.58%
Znt	948.8	0.0248	mg/L	0.00016	0.0248	mg/L	0.00016	0.64%

Sequence No.: 14
Sample ID: LCS2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 5/18/2008 18:12:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: LCS2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	398841.7	97.2	%	0.05				0.06%
Yr	483502.2	98.6	%	0.52				0.53%
Ag†	113563.4	0.471	mg/L	0.0012	0.471	mg/L	0.0012	0.26%
B_†	12016.9	0.465	mg/L	0.0054	0.465	mg/L	0.0054	1.16%
Ba†	38555.5	0.966	mg/L	0.0097	0.966	mg/L	0.0097	1.00%
Be†	124505.1	0.0500	mg/L	0.00004	0.0500	mg/L	0.00004	0.08%
Ca†	1495015.8	48.4	mg/L	0.14	48.4	mg/L	0.14	0.29%
Cd†	4167.8	0.199	mg/L	0.0012	0.199	mg/L	0.0012	0.59%
Co†	14244.0	0.991	mg/L	0.0105	0.991	mg/L	0.0105	1.06%
Cr†	40317.8	0.984	mg/L	0.0167	0.984	mg/L	0.0167	1.69%
Cu†	291369.4	0.977	mg/L	0.0012	0.977	mg/L	0.0012	0.12%
Fe†	59903.7	4.78	mg/L	0.012	4.78	mg/L	0.012	0.24%
K†	25137.4	19.0	mg/L	0.13	19.0	mg/L	0.13	0.66%
Mg†	416934.2	19.3	mg/L	0.02	19.3	mg/L	0.02	0.09%
Mn†	234954.9	0.495	mg/L	0.0000	0.495	mg/L	0.0000	0.00%
Mo†	9455.3	0.949	mg/L	0.0104	0.949	mg/L	0.0104	1.10%
Na†	263849.2	49.0	mg/L	0.26	49.0	mg/L	0.26	0.53%
Ni†	9224.4	0.497	mg/L	0.0041	0.497	mg/L	0.0041	0.82%
Pb†	3749.0	0.991	mg/L	0.0239	0.991	mg/L	0.0239	2.42%
V†	140611.5	0.967	mg/L	0.0008	0.967	mg/L	0.0008	0.08%
Zn†	37821.0	0.991	mg/L	0.0108	0.991	mg/L	0.0108	1.09%

Sequence No.: 15
Sample ID: LCSD2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 5/18/2008 18:14:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: LCSD2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	397850.0	97.0	%	0.76				0.78%
Yr	489339.8	99.8	%	1.06				1.06%
Agt	118283.5	0.491	mg/L	0.0008	0.491	mg/L	0.0008	0.17%
B_t	12437.0	0.481	mg/L	0.0016	0.481	mg/L	0.0016	0.33%
Bat	39751.8	0.996	mg/L	0.0011	0.996	mg/L	0.0011	0.11%
Bet	129935.7	0.0521	mg/L	0.00025	0.0521	mg/L	0.00025	0.49%
Cat	1513879.7	49.0	mg/L	0.55	49.0	mg/L	0.55	1.12%
Cdt	4300.1	0.206	mg/L	0.0003	0.206	mg/L	0.0003	0.12%
Cot	14595.9	1.02	mg/L	0.006	1.02	mg/L	0.006	0.57%
Crt	41447.1	1.01	mg/L	0.005	1.01	mg/L	0.005	0.51%
Cut	302647.1	1.01	mg/L	0.000	1.01	mg/L	0.000	0.03%
Fet	61901.3	4.94	mg/L	0.023	4.94	mg/L	0.023	0.47%
Kt	26376.9	20.0	mg/L	0.26	20.0	mg/L	0.26	1.29%
Mgt	432351.0	20.0	mg/L	0.08	20.0	mg/L	0.08	0.40%
Mnt	244136.7	0.514	mg/L	0.0006	0.514	mg/L	0.0006	0.12%
Mot	9718.6	0.976	mg/L	0.0063	0.976	mg/L	0.0063	0.65%
Nat	278981.8	51.8	mg/L	0.29	51.8	mg/L	0.29	0.56%
Nit	9481.5	0.511	mg/L	0.0016	0.511	mg/L	0.0016	0.31%
Pbt	3853.8	1.02	mg/L	0.003	1.02	mg/L	0.003	0.31%
Vt	146768.7	1.01	mg/L	0.001	1.01	mg/L	0.001	0.12%
Znt	38902.3	1.02	mg/L	0.008	1.02	mg/L	0.008	0.74%

Sequence No.: 16
Sample ID: 2805060278_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 5/18/2008 18:17:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060278_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060278_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	374203.5	91.2	%	0.70				0.77%
Yr	469760.5	95.8	%	0.05				0.05%
Ag†	19.9	0.00008	mg/L	0.000169	0.00017	mg/L	0.000339	205.01%
B_†	47569.7	1.87	mg/L	0.001	3.75	mg/L	0.002	0.04%
Ba†	437.9	0.0110	mg/L	0.00011	0.0219	mg/L	0.00022	0.98%
Be†	-870.5	-0.00023	mg/L	0.000005	-0.00045	mg/L	0.000009	2.10%
Ca†	3262499.9	106	mg/L	0.1	211	mg/L	0.1	0.06%
Cd†	4.2	0.00020	mg/L	0.000244	0.00040	mg/L	0.000488	123.18%
Co†	-4.8	-0.00033	mg/L	0.000115	-0.00067	mg/L	0.000230	34.37%
Cr†	30859.8	0.753	mg/L	0.0035	1.51	mg/L	0.007	0.46%
Cu†	566.7	0.00191	mg/L	0.000061	0.00382	mg/L	0.000123	3.20%
Fe†	21.1	0.00168	mg/L	0.000433	0.00336	mg/L	0.000865	25.72%
K†	7739.7	5.86	mg/L	0.004	11.7	mg/L	0.01	0.07%
Mg†	1156132.7	53.6	mg/L	0.12	107	mg/L	0.2	0.22%
Mn†	7923.5	0.0155	mg/L	0.00013	0.0310	mg/L	0.00026	0.85%
Mo†	64.7	0.00650	mg/L	0.000052	0.0130	mg/L	0.00010	0.80%
Na†	1357810.8	252	mg/L	1.8	504	mg/L	3.7	0.73%
Ni†	6.3	0.00034	mg/L	0.000535	0.00068	mg/L	0.001069	158.05%
Pb†	-17.9	-0.00473	mg/L	0.002614	-0.00945	mg/L	0.005228	55.30%
V†	6585.5	0.0487	mg/L	0.00049	0.0974	mg/L	0.00098	1.00%
Zn†	26.6	0.00068	mg/L	0.000106	0.00135	mg/L	0.000213	15.75%

Sequence No.: 17
Sample ID: 2805060278MS_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 42
Date Collected: 5/18/2008 18:21:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060278MS_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060278MS_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	374302.8	91.2	%	0.27				0.29%
Yr	471204.7	96.1	%	0.68				0.71%
Agt	61839.1	0.256	mg/L	0.0005	0.513	mg/L	0.0011	0.21%
Bt	54250.5	2.13	mg/L	0.006	4.26	mg/L	0.011	0.26%
Bat	21228.6	0.532	mg/L	0.0002	1.06	mg/L	0.000	0.04%
Bet	66343.1	0.0267	mg/L	0.00008	0.0535	mg/L	0.00017	0.31%
Cat	4043797.7	131	mg/L	1.2	262	mg/L	2.5	0.94%
Cdt	2266.7	0.108	mg/L	0.0002	0.217	mg/L	0.0003	0.14%
Cot	7533.9	0.524	mg/L	0.0019	1.05	mg/L	0.004	0.35%
Crt	51926.1	1.27	mg/L	0.005	2.53	mg/L	0.011	0.41%
Cut	157568.1	0.528	mg/L	0.0021	1.06	mg/L	0.004	0.40%
Fet	32540.9	2.60	mg/L	0.008	5.20	mg/L	0.016	0.31%
Kt	21868.8	16.6	mg/L	0.04	33.1	mg/L	0.09	0.27%
Mgt	1372621.0	63.6	mg/L	0.65	127	mg/L	1.3	1.02%
Mnt	135353.9	0.284	mg/L	0.0012	0.568	mg/L	0.0024	0.42%
Mot	5123.4	0.514	mg/L	0.0007	1.03	mg/L	0.001	0.14%
Nat	1506119.8	280	mg/L	4.5	560	mg/L	8.9	1.59%
Nit	4745.9	0.256	mg/L	0.0000	0.511	mg/L	0.0000	0.01%
Pbt	1916.5	0.507	mg/L	0.0028	1.01	mg/L	0.006	0.56%
Vt	82702.6	0.572	mg/L	0.0011	1.14	mg/L	0.002	0.19%
Znt	20564.0	0.539	mg/L	0.0012	1.08	mg/L	0.002	0.21%

Sequence No.: 18
Sample ID: 2805060278MSD_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 5/18/2008 18:25:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060278MSD_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060278MSD_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	376778.0	91.8	%	0.78				0.85%
Yr	468967.6	95.6	%	0.77				0.81%
Agt	61397.6	0.255	mg/L	0.0005	0.509	mg/L	0.0010	0.20%
B_t	52673.4	2.07	mg/L	0.001	4.14	mg/L	0.003	0.06%
Bat	20967.1	0.525	mg/L	0.0039	1.05	mg/L	0.008	0.74%
Bet	65909.2	0.0266	mg/L	0.00012	0.0531	mg/L	0.00025	0.46%
Cat	3881966.4	126	mg/L	1.2	251	mg/L	2.4	0.95%
Cdt	2242.9	0.107	mg/L	0.0010	0.215	mg/L	0.0020	0.95%
Cot	7474.0	0.520	mg/L	0.0063	1.04	mg/L	0.013	1.21%
Crt	50963.7	1.24	mg/L	0.020	2.49	mg/L	0.039	1.57%
Cut	156158.2	0.523	mg/L	0.0020	1.05	mg/L	0.004	0.37%
Fet	31978.2	2.55	mg/L	0.021	5.11	mg/L	0.042	0.83%
Kt	21347.5	16.2	mg/L	0.12	32.3	mg/L	0.25	0.77%
Mgt	1315018.6	60.9	mg/L	0.67	122	mg/L	1.3	1.11%
Mnt	134373.1	0.282	mg/L	0.0009	0.564	mg/L	0.0019	0.33%
Mot	5085.1	0.510	mg/L	0.0055	1.02	mg/L	0.011	1.08%
Nat	1441624.3	268	mg/L	2.2	536	mg/L	4.4	0.83%
Nit	4715.0	0.254	mg/L	0.0025	0.508	mg/L	0.0051	0.99%
Pbt	1898.7	0.502	mg/L	0.0035	1.00	mg/L	0.007	0.71%
Vt	81965.1	0.567	mg/L	0.0016	1.13	mg/L	0.003	0.28%
Znt	20396.8	0.535	mg/L	0.0056	1.07	mg/L	0.011	1.05%

Sequence No.: 19
Sample ID: 2805060290_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 5/18/2008 18:29:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060290_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060290_2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	361689.4	88.1	%	0.64				0.73%
Yr	461122.4	94.0	%	0.53				0.56%
Agt	-4.6	-0.00002	mg/L	0.000140	-0.00004	mg/L	0.000280	780.27%
B_t	80321.9	3.16	mg/L	0.007	6.33	mg/L	0.014	0.23%
Bat	596.8	0.0150	mg/L	0.00018	0.0299	mg/L	0.00036	1.20%
Bet	-912.0	-0.00031	mg/L	0.000017	-0.00061	mg/L	0.000033	5.39%
Cat	4320757.7	140	mg/L	2.4	279	mg/L	4.8	1.70%
Cdt	-0.2	-0.00001	mg/L	0.000042	-0.00001	mg/L	0.000084	816.49%
Cot	13.5	0.00094	mg/L	0.000078	0.00187	mg/L	0.000157	8.37%
Crt	14892.9	0.364	mg/L	0.0007	0.727	mg/L	0.0014	0.20%
Cut	726.0	0.00245	mg/L	0.000375	0.00491	mg/L	0.000751	15.30%
Fet	35.1	0.00280	mg/L	0.000527	0.00560	mg/L	0.001054	18.81%
Kt	10368.7	7.86	mg/L	0.055	15.7	mg/L	0.11	0.70%
Mgt	1384517.4	64.1	mg/L	1.13	128	mg/L	2.3	1.76%
Mnt	6812.2	0.0129	mg/L	0.00010	0.0258	mg/L	0.00020	0.77%
Mot	101.1	0.0101	mg/L	0.00004	0.0203	mg/L	0.00009	0.43%
Nat	2344039.1	435	mg/L	9.3	871	mg/L	18.6	2.14%
Nit	8.7	0.00047	mg/L	0.000515	0.00093	mg/L	0.001031	110.44%
Pbt	-25.0	-0.00661	mg/L	0.001440	-0.0132	mg/L	0.00288	21.78%
Vt	9388.8	0.0660	mg/L	0.00052	0.132	mg/L	0.0010	0.79%
Znt	51.9	0.00133	mg/L	0.000007	0.00267	mg/L	0.000013	0.49%

Sequence No.: 20
Sample ID: 2805060290MS_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 5/18/2008 18:33:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060290MS_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060290MS_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	362221.2	88.3	%	0.15				0.17%
Yr	457925.5	93.4	%	0.30				0.32%
Ag†	62280.4	0.258	mg/L	0.0007	0.517	mg/L	0.0013	0.26%
B_†	84953.9	3.34	mg/L	0.000	6.68	mg/L	0.000	0.00%
Ba†	21092.0	0.529	mg/L	0.0008	1.06	mg/L	0.002	0.15%
Be†	66129.8	0.0266	mg/L	0.00006	0.0532	mg/L	0.00012	0.22%
Ca†	4936014.0	160	mg/L	0.9	319	mg/L	1.7	0.54%
Cd†	2275.3	0.109	mg/L	0.0003	0.218	mg/L	0.0006	0.27%
Co†	7546.1	0.525	mg/L	0.0007	1.05	mg/L	0.001	0.14%
Cr†	35968.2	0.878	mg/L	0.0011	1.76	mg/L	0.002	0.13%
Cu†	157731.5	0.529	mg/L	0.0023	1.06	mg/L	0.005	0.43%
Fe†	31324.3	2.50	mg/L	0.030	5.00	mg/L	0.059	1.19%
K†	24527.8	18.6	mg/L	0.11	37.2	mg/L	0.22	0.59%
Mg†	1546634.5	71.6	mg/L	0.57	143	mg/L	1.1	0.79%
Mn†	132827.3	0.278	mg/L	0.0006	0.557	mg/L	0.0011	0.20%
Mo†	5157.6	0.518	mg/L	0.0006	1.04	mg/L	0.001	0.12%
Na†	2443903.8	454	mg/L	6.5	908	mg/L	12.9	1.43%
Ni†	4734.0	0.255	mg/L	0.0005	0.510	mg/L	0.0010	0.20%
Pb†	1884.3	0.498	mg/L	0.0007	0.996	mg/L	0.0015	0.15%
V†	84918.5	0.585	mg/L	0.0005	1.17	mg/L	0.001	0.08%
Zn†	20687.0	0.542	mg/L	0.0006	1.08	mg/L	0.001	0.10%

Sequence No.: 21
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2008 18:37:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	382437.1	93.2	%	0.45				0.48%
Yr	463579.6	94.5	%	0.34				0.36%
Ag†	245108.3	1.01	mg/L	0.007	1.01	mg/L	0.007	0.65%
QC value within limits for Ag		Recovery = 101.46%						
B_†	66857.0	2.59	mg/L	0.022	2.59	mg/L	0.022	0.84%
QC value within limits for B_		Recovery = 103.48%						
Ba†	208000.0	5.21	mg/L	0.038	5.21	mg/L	0.038	0.72%
QC value within limits for Ba		Recovery = 104.25%						
Be†	5304739.1	2.12	mg/L	0.007	2.12	mg/L	0.007	0.33%
QC value within limits for Be		Recovery = 106.16%						
Ca†	1576756.7	51.0	mg/L	0.03	51.0	mg/L	0.03	0.05%
QC value within limits for Ca		Recovery = 101.99%						
Cd†	43814.5	2.08	mg/L	0.020	2.08	mg/L	0.020	0.98%
QC value within limits for Cd		Recovery = 104.01%						
Co†	76370.6	5.32	mg/L	0.067	5.32	mg/L	0.067	1.25%
QC value within limits for Co		Recovery = 106.31%						
Cr†	217284.0	5.30	mg/L	0.054	5.30	mg/L	0.054	1.02%
QC value within limits for Cr		Recovery = 106.08%						
Cu†	1529099.8	5.13	mg/L	0.008	5.13	mg/L	0.008	0.15%
QC value within limits for Cu		Recovery = 102.51%						
Fe†	63429.2	5.07	mg/L	0.006	5.07	mg/L	0.006	0.13%
QC value within limits for Fe		Recovery = 101.31%						
K†	68217.2	51.7	mg/L	0.36	51.7	mg/L	0.36	0.69%
QC value within limits for K		Recovery = 103.36%						
Mg†	1095696.1	50.8	mg/L	0.07	50.8	mg/L	0.07	0.14%
QC value within limits for Mg		Recovery = 101.52%						
Mn†	2476808.4	5.22	mg/L	0.004	5.22	mg/L	0.004	0.08%
QC value within limits for Mn		Recovery = 104.42%						
Mo†	51288.6	5.15	mg/L	0.051	5.15	mg/L	0.051	0.98%
QC value within limits for Mo		Recovery = 102.97%						
Na†	286186.7	53.2	mg/L	0.25	53.2	mg/L	0.25	0.46%
QC value within limits for Na		Recovery = 106.33%						
Ni†	98210.2	5.29	mg/L	0.043	5.29	mg/L	0.043	0.81%
QC value within limits for Ni		Recovery = 105.78%						
Pb†	19942.8	5.27	mg/L	0.051	5.27	mg/L	0.051	0.97%
QC value within limits for Pb		Recovery = 105.44%						
V†	754086.8	5.18	mg/L	0.002	5.18	mg/L	0.002	0.04%
QC value within limits for V		Recovery = 103.68%						
Zn†	200148.1	5.23	mg/L	0.040	5.23	mg/L	0.040	0.76%
QC value within limits for Zn		Recovery = 104.57%						

All analyte(s) passed QC.

Analysis Begun

Start Time: 5/18/2008 18:49:35
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Method Loaded
Method Name: 200.7&6010_080304
IEC File: IEC080304.iec
Method Description: 200.7/6010_080304
Method Last Saved: 5/2/2008 09:27:36
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Al	Lin, Calc Int	Peak Area	Radial	Yr	Yes
As	Lin, Calc Int	Peak Area	Axial	Sca	Yes
B	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ba	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Be	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ca	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Cd	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Co	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cr	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cu	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Fe	Lin, Calc Int	Peak Area	Radial	Yr	Yes
K	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mg	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Mo	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Na	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Ni	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Pb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Se	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Tl	Lin, Calc Int	Peak Area	Axial	Sca	Yes
V	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Zn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sca	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yr	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.
Autosampler Location: 15
Date Collected: 5/18/2008 18:50:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analysis Begun

Start Time: 5/18/2008 18:50:56
Logged In Analyst: Charley Kay
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 5/18/2008 15:27:12
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Charley Kay\Sample Information\080518A.sif
Batch ID: 080518A
Results Data Set: 080518A
Results Library: C:\pe\Charley Kay\Results\Results.mdb

Sequence No.: 21
Sample ID: CCB
Analyst:
Initial Sample Wt:
Autosampler Location: 0
Date Collected: 5/18/2008 18:50:56
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	411014.6	100	%	0.2				0.23%
Yr	487399.3	99.4	%	0.12				0.12%
Ag†	13.4	0.00006	mg/L	0.000098	0.00006	mg/L	0.000098	176.02%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-13.3	-0.00161	mg/L	0.000248	-0.00161	mg/L	0.000248	15.41%
QC value within limits for Al	Recovery = Not calculated							
As†	1.9	0.00121	mg/L	0.001655	0.00121	mg/L	0.001655	136.94%
QC value within limits for As	Recovery = Not calculated							
B_†	558.4	0.0220	mg/L	0.00005	0.0220	mg/L	0.00005	0.22%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-1.5	-0.00004	mg/L	0.000045	-0.00004	mg/L	0.000045	121.59%
QC value within limits for Ba	Recovery = Not calculated							
Be†	108.1	0.00004	mg/L	0.000004	0.00004	mg/L	0.000004	9.82%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-29.3	-0.00095	mg/L	0.000429	-0.00095	mg/L	0.000429	45.33%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-1.3	-0.00008	mg/L	0.000148	-0.00008	mg/L	0.000148	188.21%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-2.3	-0.00016	mg/L	0.000138	-0.00016	mg/L	0.000138	86.55%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-2.2	-0.00005	mg/L	0.000060	-0.00005	mg/L	0.000060	112.65%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-26.0	-0.00009	mg/L	0.000064	-0.00009	mg/L	0.000064	73.25%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	8.2	0.00065	mg/L	0.000568	0.00065	mg/L	0.000568	86.72%
QC value within limits for Fe	Recovery = Not calculated							
K†	33.4	0.0253	mg/L	0.01273	0.0253	mg/L	0.01273	50.33%
QC value within limits for K	Recovery = Not calculated							
Mg†	10.1	0.00047	mg/L	0.000510	0.00047	mg/L	0.000510	108.89%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-137.3	-0.00029	mg/L	0.000001	-0.00029	mg/L	0.000001	0.31%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	0.6	0.00006	mg/L	0.000397	0.00006	mg/L	0.000397	683.95%
QC value within limits for Mo	Recovery = Not calculated							
Na†	143.4	0.0266	mg/L	0.00862	0.0266	mg/L	0.00862	32.36%
QC value within limits for Na	Recovery = Not calculated							
Ni†	8.3	0.00045	mg/L	0.000152	0.00045	mg/L	0.000152	33.88%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-2.7	-0.00072	mg/L	0.000042	-0.00072	mg/L	0.000042	5.77%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	4.0	0.00245	mg/L	0.000644	0.00245	mg/L	0.000644	26.26%
QC value within limits for Sb	Recovery = Not calculated							
Se†	3.4	0.00340	mg/L	0.001198	0.00340	mg/L	0.001198	35.22%
QC value within limits for Se	Recovery = Not calculated							
Tl†	4.8	0.00216	mg/L	0.000338	0.00216	mg/L	0.000338	15.61%
QC value within limits for Tl	Recovery = Not calculated							
V†	12.4	0.00008	mg/L	0.000051	0.00008	mg/L	0.000051	59.84%
QC value within limits for V	Recovery = Not calculated							
Zn†	-4.9	-0.00013	mg/L	0.000128	-0.00013	mg/L	0.000128	97.12%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 22
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 18:53:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	410050.5	99.9	%	0.29				0.29%
Yr	483679.0	98.6	%	0.48				0.49%
Ag†	116.1	0.00048	mg/L	0.000063	0.00048	mg/L	0.000063	13.09%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-22.3	-0.00270	mg/L	0.001620	-0.00270	mg/L	0.001620	60.11%
QC value within limits for Al	Recovery = Not calculated							
As†	2.9	0.00182	mg/L	0.000014	0.00182	mg/L	0.000014	0.78%
QC value within limits for As	Recovery = Not calculated							
B_†	486.0	0.0191	mg/L	0.00020	0.0191	mg/L	0.00020	1.03%
QC value within limits for B_	Recovery = Not calculated							
Ba†	0.9	0.00002	mg/L	0.000036	0.00002	mg/L	0.000036	151.25%
QC value within limits for Ba	Recovery = Not calculated							
Be†	97.0	0.00004	mg/L	0.000026	0.00004	mg/L	0.000026	66.41%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-33.9	-0.00110	mg/L	0.000333	-0.00110	mg/L	0.000333	30.33%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-5.9	-0.00030	mg/L	0.000249	-0.00030	mg/L	0.000249	81.60%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.4	0.00017	mg/L	0.000028	0.00017	mg/L	0.000028	16.75%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-2.1	-0.00005	mg/L	0.000140	-0.00005	mg/L	0.000140	266.96%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	10.9	0.00004	mg/L	0.000466	0.00004	mg/L	0.000466	>999.9%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	11.2	0.00090	mg/L	0.000226	0.00090	mg/L	0.000226	25.18%
QC value within limits for Fe	Recovery = Not calculated							
K†	42.5	0.0322	mg/L	0.00064	0.0322	mg/L	0.00064	1.99%
QC value within limits for K	Recovery = Not calculated							
Mg†	13.2	0.00061	mg/L	0.000333	0.00061	mg/L	0.000333	54.11%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-138.8	-0.00029	mg/L	0.000002	-0.00029	mg/L	0.000002	0.79%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	0.4	0.00004	mg/L	0.000257	0.00004	mg/L	0.000257	652.86%
QC value within limits for Mo	Recovery = Not calculated							
Na†	122.2	0.0227	mg/L	0.00105	0.0227	mg/L	0.00105	4.63%
QC value within limits for Na	Recovery = Not calculated							
Ni†	8.8	0.00048	mg/L	0.000451	0.00048	mg/L	0.000451	94.88%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-3.6	-0.00096	mg/L	0.000091	-0.00096	mg/L	0.000091	9.45%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	1.0	0.00064	mg/L	0.000817	0.00064	mg/L	0.000817	127.90%
QC value within limits for Sb	Recovery = Not calculated							
Se†	2.6	0.00259	mg/L	0.006101	0.00259	mg/L	0.006101	235.67%
QC value within limits for Se	Recovery = Not calculated							
Tl†	-0.1	-0.00004	mg/L	0.000078	-0.00004	mg/L	0.000078	209.08%
QC value within limits for Tl	Recovery = Not calculated							
V†	2.8	0.00002	mg/L	0.000114	0.00002	mg/L	0.000114	599.84%
QC value within limits for V	Recovery = Not calculated							
Zn†	-6.8	-0.00018	mg/L	0.000091	-0.00018	mg/L	0.000091	49.57%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 23
Sample ID: 2805060290MSD_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 46
Date Collected: 5/18/2008 18:56:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060290MSD_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060290MSD_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	361853.3	88.2	%	0.37				0.42%
Yr	457668.5	93.3	%	1.12				1.20%
Ag†	63534.8	0.263	mg/L	0.0000	0.527	mg/L	0.0000	0.01%
Al†	8778.5	1.04	mg/L	0.014	2.09	mg/L	0.029	1.39%
As†	916.0	0.572	mg/L	0.0004	1.14	mg/L	0.001	0.07%
B_†	86224.0	3.39	mg/L	0.018	6.78	mg/L	0.036	0.52%
Ba†	21553.4	0.540	mg/L	0.0033	1.08	mg/L	0.007	0.62%
Be†	67129.8	0.0270	mg/L	0.00000	0.0540	mg/L	0.00001	0.01%
Ca†	5009931.7	162	mg/L	1.1	324	mg/L	2.2	0.69%
Cd†	2309.0	0.103	mg/L	0.0003	0.205	mg/L	0.0006	0.28%
Co†	7713.2	0.537	mg/L	0.0009	1.07	mg/L	0.002	0.17%
Cr†	36927.1	0.901	mg/L	0.0015	1.80	mg/L	0.003	0.17%
Cu†	160878.4	0.539	mg/L	0.0015	1.08	mg/L	0.003	0.28%
Fe†	31631.3	2.53	mg/L	0.010	5.05	mg/L	0.019	0.38%
K†	24834.7	18.8	mg/L	0.10	37.6	mg/L	0.21	0.56%
Mg†	1570191.5	72.7	mg/L	0.38	145	mg/L	0.8	0.53%
Mn†	135482.4	0.284	mg/L	0.0008	0.568	mg/L	0.0016	0.29%
Mo†	5251.8	0.527	mg/L	0.0023	1.05	mg/L	0.005	0.44%
Na†	2534733.2	471	mg/L	4.8	942	mg/L	9.7	1.03%
Ni†	4811.4	0.259	mg/L	0.0006	0.518	mg/L	0.0012	0.22%
Pb†	1905.9	0.504	mg/L	0.0016	1.01	mg/L	0.003	0.31%
Sb†	443.8	0.276	mg/L	0.0058	0.553	mg/L	0.0116	2.09%
Se†	506.1	0.513	mg/L	0.0002	1.03	mg/L	0.000	0.04%
Tl†	1118.1	0.509	mg/L	0.0009	1.02	mg/L	0.002	0.18%
V†	86653.3	0.597	mg/L	0.0019	1.19	mg/L	0.004	0.32%
Zn†	21231.1	0.557	mg/L	0.0024	1.11	mg/L	0.005	0.43%

Sequence No.: 24
Sample ID: 2805060277_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 47
Date Collected: 5/18/2008 19:00:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060277_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060277_2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	352399.2	85.9	%	1.07				1.25%
Yr	442575.9	90.3	%	0.11				0.12%
Agt	-22.9	-0.00008	mg/L	0.000139	-0.00017	mg/L	0.000278	166.18%
Alt	486.9	0.0582	mg/L	0.00230	0.116	mg/L	0.0046	3.94%
Ast	101.8	0.0635	mg/L	0.00195	0.127	mg/L	0.0039	3.06%
B_t	125897.5	4.96	mg/L	0.007	9.92	mg/L	0.013	0.14%
Bat	276.4	0.00693	mg/L	0.000040	0.0139	mg/L	0.00008	0.57%
Bet	-1618.3	-0.00046	mg/L	0.000004	-0.00093	mg/L	0.000008	0.86%
Cat	8838630.9	286	mg/L	0.9	572	mg/L	1.9	0.33%
Cdt	6.3	-0.00058	mg/L	0.000227	-0.00117	mg/L	0.000455	38.98%
Cot	-1.5	-0.00011	mg/L	0.000098	-0.00021	mg/L	0.000196	93.15%
Crt	46177.2	1.13	mg/L	0.002	2.25	mg/L	0.004	0.19%
Cut	826.3	0.00278	mg/L	0.000091	0.00557	mg/L	0.000182	3.26%
Fet	365.0	0.0291	mg/L	0.00043	0.0583	mg/L	0.00086	1.48%
Kt	10509.4	7.96	mg/L	0.050	15.9	mg/L	0.10	0.63%
Mgt	2550633.5	118	mg/L	0.5	236	mg/L	0.9	0.40%
Mnt	17593.7	0.0344	mg/L	0.00006	0.0689	mg/L	0.00012	0.17%
Mot	180.1	0.0181	mg/L	0.00030	0.0362	mg/L	0.00061	1.68%
Nat	2731190.8	507	mg/L	0.6	1010	mg/L	1.1	0.11%
Nit	20.2	0.00109	mg/L	0.000384	0.00218	mg/L	0.000769	35.25%
Pbt	-36.3	-0.00959	mg/L	0.001140	-0.0192	mg/L	0.00228	11.89%
Sbt	39.3	0.0212	mg/L	0.00670	0.0425	mg/L	0.01340	31.56%
Set	-32.5	-0.0324	mg/L	0.00988	-0.0648	mg/L	0.01976	30.50%
Tlt	36.8	0.0171	mg/L	0.00166	0.0341	mg/L	0.00332	9.73%
Vt	7048.1	0.0537	mg/L	0.00090	0.107	mg/L	0.0018	1.68%
Znt	92.9	0.00243	mg/L	0.000018	0.00485	mg/L	0.000036	0.74%

Sequence No.: 25
Sample ID: 2805060279_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 5/18/2008 19:05:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060279_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805060279_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	347692.6	84.7	%	0.38				0.45%
Yr	445327.3	90.8	%	0.98				1.07%
Agt	-32.2	-0.00012	mg/L	0.000185	-0.00025	mg/L	0.000370	150.17%
Alt	565.7	0.0679	mg/L	0.00105	0.136	mg/L	0.0021	1.54%
Ast	133.0	0.0830	mg/L	0.00260	0.166	mg/L	0.0052	3.14%
B_t	76770.9	3.02	mg/L	0.000	6.05	mg/L	0.000	0.01%
Bat	313.2	0.00785	mg/L	0.000025	0.0157	mg/L	0.00005	0.31%
Bet	-1210.4	-0.00047	mg/L	0.000002	-0.00095	mg/L	0.000004	0.37%
Cat	8316561.7	269	mg/L	4.3	538	mg/L	8.6	1.60%
Cdt	15.1	-0.00044	mg/L	0.000085	-0.00088	mg/L	0.000169	19.35%
Cot	-3.0	-0.00021	mg/L	0.000055	-0.00041	mg/L	0.000109	26.54%
Crt	3035.7	0.0741	mg/L	0.00054	0.148	mg/L	0.0011	0.73%
Cut	834.6	0.00281	mg/L	0.000318	0.00562	mg/L	0.000635	11.30%
Fet	333.0	0.0266	mg/L	0.00001	0.0532	mg/L	0.00003	0.05%
Kt	9420.3	7.14	mg/L	0.135	14.3	mg/L	0.27	1.89%
Mgt	2814765.3	130	mg/L	2.1	261	mg/L	4.1	1.59%
Mnt	3469.3	0.00439	mg/L	0.000050	0.00877	mg/L	0.000099	1.13%
Mot	133.4	0.0134	mg/L	0.00022	0.0268	mg/L	0.00044	1.63%
Nat	3547575.3	659	mg/L	6.0	1320	mg/L	11.9	0.91%
Nit	-6.4	-0.00034	mg/L	0.000181	-0.00069	mg/L	0.000362	52.43%
Pbt	-40.7	-0.0108	mg/L	0.00003	-0.0215	mg/L	0.00006	0.30%
Sbt	14.3	0.00897	mg/L	0.006411	0.0179	mg/L	0.01282	71.48%
Set	-26.9	-0.0269	mg/L	0.00556	-0.0537	mg/L	0.01113	20.72%
Tlt	27.8	0.0128	mg/L	0.00116	0.0256	mg/L	0.00232	9.06%
Vt	6255.1	0.0431	mg/L	0.00038	0.0863	mg/L	0.00077	0.89%
Znt	52.4	0.00137	mg/L	0.000022	0.00273	mg/L	0.000044	1.61%

Sequence No.: 26
Sample ID: 2805060280_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 49
Date Collected: 5/18/2008 19:09:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060280_2X

Analyte	Back Pressure	Flow
All	213.0 kPa	0.65 L/min

Mean Data: 2805060280_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	345790.7	84.3	%	0.06				0.07%
Yr	435679.8	88.9	%	0.16				0.18%
Agt	-139.3	-0.00056	mg/L	0.000012	-0.00113	mg/L	0.000023	2.07%
Alt	616.7	0.0740	mg/L	0.00031	0.148	mg/L	0.0006	0.42%
Ast	170.2	0.106	mg/L	0.0028	0.212	mg/L	0.0055	2.59%
B_t	129140.0	5.08	mg/L	0.006	10.2	mg/L	0.01	0.11%
Bat	297.8	0.00746	mg/L	0.000034	0.0149	mg/L	0.00007	0.46%
Bet	-1364.3	-0.00051	mg/L	0.000007	-0.00102	mg/L	0.000014	1.39%
Cat	9140878.9	296	mg/L	2.3	591	mg/L	4.7	0.79%
Cdt	23.1	-0.00038	mg/L	0.000205	-0.00077	mg/L	0.000409	53.48%
Cot	-5.2	-0.00036	mg/L	0.000449	-0.00072	mg/L	0.000899	124.54%
Crt	8884.3	0.217	mg/L	0.0002	0.434	mg/L	0.0005	0.11%
Cut	742.9	0.00251	mg/L	0.000237	0.00501	mg/L	0.000473	9.44%
Fet	421.7	0.0337	mg/L	0.00040	0.0674	mg/L	0.00080	1.19%
Kt	10228.9	7.75	mg/L	0.054	15.5	mg/L	0.11	0.70%
Mgt	2681647.2	124	mg/L	0.8	248	mg/L	1.7	0.67%
Mnt	2676.7	0.00285	mg/L	0.000017	0.00571	mg/L	0.000034	0.59%
Mot	159.2	0.0160	mg/L	0.00099	0.0320	mg/L	0.00198	6.18%
Nat	3843929.8	714	mg/L	5.8	1430	mg/L	11.6	0.81%
Nit	12.3	0.00066	mg/L	0.000736	0.00132	mg/L	0.001471	111.16%
Pbt	-39.0	-0.0103	mg/L	0.00155	-0.0206	mg/L	0.00311	15.08%
Sbt	9.2	0.00544	mg/L	0.000440	0.0109	mg/L	0.00088	8.08%
Set	-38.2	-0.0381	mg/L	0.00586	-0.0762	mg/L	0.01171	15.37%
Tlt	25.5	0.0117	mg/L	0.00026	0.0235	mg/L	0.00053	2.25%
Vt	7919.0	0.0552	mg/L	0.00013	0.110	mg/L	0.0003	0.23%
Znt	19.3	0.00049	mg/L	0.000067	0.00098	mg/L	0.000135	13.79%

Sequence No.: 27
Sample ID: 2805060281_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 50
Date Collected: 5/18/2008 19:13:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060281_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060281_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	347757.9	84.8	%	0.65				0.77%
Yr	435431.9	88.8	%	0.33				0.37%
Ag†	-124.2	-0.00051	mg/L	0.000095	-0.00101	mg/L	0.000190	18.82%
Al†	279.1	0.0332	mg/L	0.00243	0.0665	mg/L	0.00485	7.30%
As†	168.1	0.105	mg/L	0.0004	0.210	mg/L	0.0007	0.35%
B_†	94175.2	3.71	mg/L	0.025	7.42	mg/L	0.050	0.68%
Ba†	223.8	0.00561	mg/L	0.000058	0.0112	mg/L	0.00012	1.04%
Be†	-1272.3	-0.00049	mg/L	0.000024	-0.00097	mg/L	0.000047	4.85%
Ca†	9774881.6	316	mg/L	5.5	632	mg/L	11.1	1.75%
Cd†	21.9	-0.00042	mg/L	0.000056	-0.00084	mg/L	0.000112	13.36%
Co†	-8.2	-0.00057	mg/L	0.000195	-0.00115	mg/L	0.000390	33.97%
Cr†	6040.1	0.147	mg/L	0.0010	0.295	mg/L	0.0020	0.67%
Cu†	711.7	0.00240	mg/L	0.000255	0.00480	mg/L	0.000509	10.60%
Fe†	257.1	0.0205	mg/L	0.00055	0.0411	mg/L	0.00111	2.69%
K†	9709.4	7.36	mg/L	0.011	14.7	mg/L	0.02	0.15%
Mg†	2528186.9	117	mg/L	1.8	234	mg/L	3.7	1.57%
Mn†	1647.2	0.00084	mg/L	0.000027	0.00168	mg/L	0.000053	3.18%
Mo†	144.5	0.0145	mg/L	0.00028	0.0290	mg/L	0.00056	1.92%
Na†	3415359.3	634	mg/L	6.3	1270	mg/L	12.7	1.00%
Ni†	7.1	0.00038	mg/L	0.000492	0.00076	mg/L	0.000985	128.99%
Pb†	-39.1	-0.0103	mg/L	0.00222	-0.0207	mg/L	0.00443	21.45%
Sb†	17.3	0.0107	mg/L	0.00265	0.0213	mg/L	0.00529	24.79%
Se†	-29.2	-0.0292	mg/L	0.00604	-0.0583	mg/L	0.01207	20.70%
Tl†	28.8	0.0132	mg/L	0.00146	0.0265	mg/L	0.00292	11.02%
V†	8025.8	0.0556	mg/L	0.00016	0.111	mg/L	0.0003	0.29%
Zn†	30.9	0.00080	mg/L	0.000220	0.00160	mg/L	0.000440	27.54%

Sequence No.: 28
Sample ID: 2805060282_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 51
Date Collected: 5/18/2008 19:18:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060282_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060282_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	346146.6	84.4	%	0.13				0.15%
Yr	433597.3	88.4	%	0.60				0.68%
Agt	-79.3	-0.00032	mg/L	0.000395	-0.00065	mg/L	0.000789	121.62%
Alt	137.5	0.0161	mg/L	0.00216	0.0322	mg/L	0.00432	13.40%
Ast	117.3	0.0732	mg/L	0.00368	0.146	mg/L	0.0074	5.03%
B_t	75383.7	2.97	mg/L	0.000	5.94	mg/L	0.001	0.01%
Bat	334.9	0.00839	mg/L	0.000154	0.0168	mg/L	0.00031	1.83%
Bet	-1235.1	-0.00046	mg/L	0.000035	-0.00092	mg/L	0.000070	7.55%
Cat	9113054.6	295	mg/L	2.1	589	mg/L	4.2	0.72%
Cdt	9.3	-0.00058	mg/L	0.000238	-0.00115	mg/L	0.000475	41.21%
Cot	-13.3	-0.00092	mg/L	0.000015	-0.00185	mg/L	0.000031	1.67%
Crt	8188.5	0.200	mg/L	0.0013	0.400	mg/L	0.0025	0.64%
Cut	702.3	0.00236	mg/L	0.000121	0.00472	mg/L	0.000242	5.12%
Fet	114.1	0.00911	mg/L	0.000112	0.0182	mg/L	0.00022	1.23%
Kt	11174.1	8.47	mg/L	0.096	16.9	mg/L	0.19	1.14%
Mgt	2606830.3	121	mg/L	0.9	241	mg/L	1.8	0.76%
Mnt	481.7	-0.00170	mg/L	0.000022	-0.00339	mg/L	0.000045	1.32%
Mot	142.0	0.0143	mg/L	0.00013	0.0285	mg/L	0.00025	0.89%
Nat	3206356.6	596	mg/L	2.2	1190	mg/L	4.4	0.37%
Nit	-9.3	-0.00050	mg/L	0.000428	-0.00101	mg/L	0.000855	85.03%
Pbt	-44.7	-0.0118	mg/L	0.00114	-0.0236	mg/L	0.00228	9.66%
Sbt	12.7	0.00748	mg/L	0.005028	0.0150	mg/L	0.01006	67.22%
Set	-35.6	-0.0356	mg/L	0.01702	-0.0712	mg/L	0.03404	47.83%
Tlt	36.7	0.0167	mg/L	0.00105	0.0334	mg/L	0.00210	6.29%
Vt	4763.7	0.0335	mg/L	0.00007	0.0671	mg/L	0.00014	0.21%
Znt	32.3	0.00084	mg/L	0.000080	0.00167	mg/L	0.000159	9.50%

Sequence No.: 29
Sample ID: 2805060291_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 52
Date Collected: 5/18/2008 19:22:35
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060291_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060291_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	340673.3	83.0	%	0.67				0.80%
Yr	427062.8	87.1	%	0.34				0.40%
Ag†	-73.0	-0.00030	mg/L	0.000138	-0.00060	mg/L	0.000275	45.68%
Al†	9.4	0.00062	mg/L	0.000829	0.00124	mg/L	0.001658	134.13%
As†	154.7	0.0965	mg/L	0.00283	0.193	mg/L	0.0057	2.93%
B_†	133728.6	5.27	mg/L	0.001	10.5	mg/L	0.00	0.03%
Ba†	265.3	0.00665	mg/L	0.000033	0.0133	mg/L	0.00007	0.49%
Be†	-1461.5	-0.00052	mg/L	0.000009	-0.00103	mg/L	0.000018	1.71%
Ca†	10009488.1	324	mg/L	3.0	647	mg/L	5.9	0.92%
Cd†	18.3	-0.00047	mg/L	0.000237	-0.00095	mg/L	0.000473	49.89%
Co†	-6.1	-0.00042	mg/L	0.000114	-0.00085	mg/L	0.000228	26.81%
Cr†	17660.4	0.431	mg/L	0.0001	0.862	mg/L	0.0001	0.01%
Cu†	702.3	0.00238	mg/L	0.000096	0.00475	mg/L	0.000193	4.06%
Fe†	20.0	0.00160	mg/L	0.000298	0.00320	mg/L	0.000596	18.64%
K†	10488.9	7.95	mg/L	0.028	15.9	mg/L	0.06	0.35%
Mg†	2699666.8	125	mg/L	1.1	250	mg/L	2.2	0.87%
Mn†	2325.6	0.00209	mg/L	0.000043	0.00419	mg/L	0.000086	2.06%
Mo†	143.0	0.0144	mg/L	0.00063	0.0287	mg/L	0.00127	4.42%
Na†	3828680.7	711	mg/L	7.5	1420	mg/L	15.0	1.05%
Ni†	7.2	0.00039	mg/L	0.000075	0.00077	mg/L	0.000150	19.49%
Pb†	-42.3	-0.0112	mg/L	0.00015	-0.0224	mg/L	0.00030	1.33%
Sb†	18.0	0.0104	mg/L	0.00397	0.0208	mg/L	0.00793	38.18%
Se†	-36.4	-0.0364	mg/L	0.01555	-0.0727	mg/L	0.03110	42.76%
Tl†	35.5	0.0164	mg/L	0.00067	0.0328	mg/L	0.00134	4.09%
V†	11189.3	0.0786	mg/L	0.00059	0.157	mg/L	0.0012	0.74%
Zn†	53.5	0.00139	mg/L	0.000057	0.00279	mg/L	0.000114	4.10%

Sequence No.: 30
Sample ID: 2805060293_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 53
Date Collected: 5/18/2008 19:26:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060293_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060293_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	409413.7	99.8	%	0.60				0.60%
Yr	475216.5	96.9	%	1.22				1.25%
Agt	46.6	0.00019	mg/L	0.000006	0.00039	mg/L	0.000011	2.92%
Alt	53.1	0.00642	mg/L	0.002305	0.0128	mg/L	0.00461	35.92%
Ast	1.2	0.00074	mg/L	0.000517	0.00149	mg/L	0.001033	69.44%
B_t	2085.1	0.0821	mg/L	0.00364	0.164	mg/L	0.0073	4.44%
Bat	-0.8	-0.00002	mg/L	0.000052	-0.00004	mg/L	0.000104	254.54%
Bet	110.4	0.00004	mg/L	0.000016	0.00009	mg/L	0.000032	36.22%
Cat	991.6	0.0321	mg/L	0.00070	0.0641	mg/L	0.00140	2.19%
Cdt	-2.6	-0.00013	mg/L	0.000183	-0.00026	mg/L	0.000366	138.57%
Cot	-1.8	-0.00012	mg/L	0.000246	-0.00025	mg/L	0.000493	197.56%
Crt	6.9	0.00017	mg/L	0.000083	0.00034	mg/L	0.000165	49.07%
Cut	94.6	0.00032	mg/L	0.000096	0.00063	mg/L	0.000192	30.22%
Fet	24.4	0.00195	mg/L	0.000120	0.00390	mg/L	0.000240	6.15%
Kt	77.1	0.0584	mg/L	0.00965	0.117	mg/L	0.0193	16.52%
Mgt	129.0	0.00598	mg/L	0.000741	0.0120	mg/L	0.00148	12.39%
Mnt	-30.0	-0.00006	mg/L	0.000001	-0.00013	mg/L	0.000002	1.46%
Mot	0.4	0.00004	mg/L	0.000266	0.00009	mg/L	0.000531	596.65%
Nat	2023.0	0.376	mg/L	0.0114	0.752	mg/L	0.0229	3.04%
Nit	16.2	0.00087	mg/L	0.000097	0.00174	mg/L	0.000194	11.14%
Pbt	-8.2	-0.00218	mg/L	0.000447	-0.00435	mg/L	0.000895	20.56%
Sbt	5.1	0.00314	mg/L	0.000462	0.00628	mg/L	0.000923	14.69%
Set	-0.1	-0.00009	mg/L	0.002278	-0.00018	mg/L	0.004555	>999.9%
Tlt	6.4	0.00291	mg/L	0.002510	0.00581	mg/L	0.005019	86.33%
Vt	-4.6	-0.00003	mg/L	0.000140	-0.00006	mg/L	0.000280	457.96%
Znt	142.1	0.00374	mg/L	0.000099	0.00748	mg/L	0.000197	2.64%

Sequence No.: 31
Sample ID: 2805060294_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 54
Date Collected: 5/18/2008 19:30:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060294_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060294_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	343218.6	83.6	%	0.10				0.11%
Yr	422898.6	86.2	%	0.81				0.94%
Ag†	-101.4	-0.00042	mg/L	0.000085	-0.00084	mg/L	0.000170	20.40%
Al†	-1.1	-0.00068	mg/L	0.001644	-0.00135	mg/L	0.003288	243.08%
As†	144.2	0.0900	mg/L	0.00343	0.180	mg/L	0.0069	3.81%
B_†	131529.9	5.18	mg/L	0.002	10.4	mg/L	0.00	0.05%
Ba†	261.4	0.00655	mg/L	0.000007	0.0131	mg/L	0.00001	0.10%
Be†	-1389.9	-0.00049	mg/L	0.000009	-0.00098	mg/L	0.000018	1.88%
Ca†	9887037.1	320	mg/L	2.0	640	mg/L	4.1	0.64%
Cd†	12.9	-0.00064	mg/L	0.000217	-0.00128	mg/L	0.000435	34.04%
Co†	0.4	0.00003	mg/L	0.000342	0.00005	mg/L	0.000685	>999.9%
Cr†	17271.0	0.422	mg/L	0.0007	0.843	mg/L	0.0014	0.16%
Cu†	588.0	0.00199	mg/L	0.000234	0.00399	mg/L	0.000468	11.73%
Fe†	40.5	0.00323	mg/L	0.001520	0.00647	mg/L	0.003040	47.01%
K†	10468.0	7.93	mg/L	0.078	15.9	mg/L	0.16	0.98%
Mg†	2661593.6	123	mg/L	0.7	247	mg/L	1.3	0.54%
Mn†	2244.0	0.00196	mg/L	0.000049	0.00392	mg/L	0.000098	2.51%
Mo†	147.3	0.0148	mg/L	0.00019	0.0296	mg/L	0.00037	1.26%
Na†	3844433.3	714	mg/L	3.1	1430	mg/L	6.2	0.43%
Ni†	14.8	0.00080	mg/L	0.000498	0.00159	mg/L	0.000995	62.56%
Pb†	-39.5	-0.0104	mg/L	0.00004	-0.0209	mg/L	0.00009	0.41%
Sb†	22.3	0.0131	mg/L	0.00176	0.0261	mg/L	0.00352	13.45%
Se†	-37.4	-0.0374	mg/L	0.00324	-0.0748	mg/L	0.00648	8.66%
Tl†	36.1	0.0167	mg/L	0.00014	0.0333	mg/L	0.00028	0.83%
V†	11047.3	0.0776	mg/L	0.00002	0.155	mg/L	0.0000	0.02%
Zn†	31.3	0.00081	mg/L	0.000191	0.00161	mg/L	0.000383	23.76%

Sequence No.: 32
Sample ID: 2805060303_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 55
Date Collected: 5/18/2008 19:34:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060303_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060303_2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	363965.1	88.7	%	0.74				0.83%
Yr	442765.5	90.3	%	0.39				0.43%
Ag†	36.2	0.00015	mg/L	0.000306	0.00030	mg/L	0.000613	203.34%
Al†	49.7	0.00568	mg/L	0.001788	0.0114	mg/L	0.00358	31.47%
As†	50.8	0.0317	mg/L	0.00703	0.0634	mg/L	0.01406	22.19%
B_†	80368.5	3.16	mg/L	0.011	6.33	mg/L	0.022	0.35%
Ba†	576.0	0.0144	mg/L	0.00024	0.0289	mg/L	0.00047	1.63%
Be†	-908.7	-0.00031	mg/L	0.000006	-0.00061	mg/L	0.000012	1.94%
Ca†	4091621.4	132	mg/L	0.5	265	mg/L	0.9	0.34%
Cd†	2.1	-0.00034	mg/L	0.000080	-0.00068	mg/L	0.000160	23.69%
Co†	17.9	0.00124	mg/L	0.000314	0.00249	mg/L	0.000628	25.24%
Cr†	14824.0	0.362	mg/L	0.0000	0.724	mg/L	0.0000	0.00%
Cu†	665.2	0.00225	mg/L	0.000294	0.00450	mg/L	0.000588	13.07%
Fe†	29.1	0.00233	mg/L	0.000624	0.00465	mg/L	0.001248	26.82%
K†	10656.4	8.07	mg/L	0.056	16.1	mg/L	0.11	0.70%
Mg†	1295418.2	60.0	mg/L	0.17	120	mg/L	0.3	0.28%
Mn†	6690.5	0.0128	mg/L	0.00013	0.0255	mg/L	0.00027	1.06%
Mo†	91.1	0.00914	mg/L	0.000681	0.0183	mg/L	0.00136	7.45%
Na†	2369103.3	440	mg/L	0.7	880	mg/L	1.3	0.15%
Ni†	25.2	0.00136	mg/L	0.000384	0.00271	mg/L	0.000768	28.31%
Pb†	-30.4	-0.00803	mg/L	0.000842	-0.0161	mg/L	0.00168	10.49%
Sb†	18.2	0.0106	mg/L	0.00172	0.0212	mg/L	0.00344	16.24%
Se†	-22.2	-0.0222	mg/L	0.00264	-0.0445	mg/L	0.00527	11.85%
Tl†	20.3	0.00949	mg/L	0.004213	0.0190	mg/L	0.00843	44.38%
V†	9129.7	0.0642	mg/L	0.00059	0.128	mg/L	0.0012	0.92%
Zn†	39.9	0.00101	mg/L	0.000256	0.00202	mg/L	0.000512	25.30%

Sequence No.: 33
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2008 19:39:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	380238.0	92.7	%	0.03				0.03%
Yr	449615.1	91.7	%	0.07				0.08%
Ag†	243270.7	1.01	mg/L	0.002	1.01	mg/L	0.002	0.24%
QC value within limits for Ag		Recovery = 100.70%						
Al†	44989.3	5.26	mg/L	0.005	5.26	mg/L	0.005	0.10%
QC value within limits for Al		Recovery = 105.11%						
As†	7679.1	4.79	mg/L	0.028	4.79	mg/L	0.028	0.58%
QC value within limits for As		Recovery = 95.82%						
B_†	67052.8	2.59	mg/L	0.014	2.59	mg/L	0.014	0.53%
QC value within limits for B_		Recovery = 103.79%						
Ba†	205531.5	5.15	mg/L	0.012	5.15	mg/L	0.012	0.23%
QC value within limits for Ba		Recovery = 103.02%						
Be†	5308276.4	2.12	mg/L	0.002	2.12	mg/L	0.002	0.09%
QC value within limits for Be		Recovery = 106.23%						
Ca†	1545238.6	50.0	mg/L	0.09	50.0	mg/L	0.09	0.18%
QC value within limits for Ca		Recovery = 99.95%						
Cd†	43627.2	2.01	mg/L	0.003	2.01	mg/L	0.003	0.17%
QC value within limits for Cd		Recovery = 100.26%						
Co†	76747.9	5.34	mg/L	0.003	5.34	mg/L	0.003	0.06%
QC value within limits for Co		Recovery = 106.84%						
Cr†	217302.4	5.30	mg/L	0.010	5.30	mg/L	0.010	0.19%
QC value within limits for Cr		Recovery = 106.09%						
Cu†	1521327.5	5.10	mg/L	0.005	5.10	mg/L	0.005	0.09%
QC value within limits for Cu		Recovery = 101.99%						
Fe†	60437.4	4.83	mg/L	0.019	4.83	mg/L	0.019	0.40%
QC value within limits for Fe		Recovery = 96.53%						
K†	70367.4	53.3	mg/L	0.14	53.3	mg/L	0.14	0.27%
QC value within limits for K		Recovery = 106.62%						
Mg†	1066119.6	49.4	mg/L	0.10	49.4	mg/L	0.10	0.21%
QC value within limits for Mg		Recovery = 98.78%						
Mn†	2485962.2	5.24	mg/L	0.006	5.24	mg/L	0.006	0.12%
QC value within limits for Mn		Recovery = 104.81%						
Mo†	51014.9	5.12	mg/L	0.001	5.12	mg/L	0.001	0.03%
QC value within limits for Mo		Recovery = 102.42%						
Na†	294738.1	54.8	mg/L	0.25	54.8	mg/L	0.25	0.46%
QC value within limits for Na		Recovery = 109.50%						
Ni†	97494.3	5.25	mg/L	0.006	5.25	mg/L	0.006	0.11%
QC value within limits for Ni		Recovery = 105.01%						
Pb†	19763.8	5.22	mg/L	0.021	5.22	mg/L	0.021	0.41%
QC value within limits for Pb		Recovery = 104.49%						
Sb†	7842.2	4.88	mg/L	0.031	4.88	mg/L	0.031	0.63%
QC value within limits for Sb		Recovery = 97.62%						
Se†	4933.9	4.95	mg/L	0.025	4.95	mg/L	0.025	0.50%
QC value within limits for Se		Recovery = 98.97%						
Tl†	11558.9	5.27	mg/L	0.024	5.27	mg/L	0.024	0.46%
QC value within limits for Tl		Recovery = 105.43%						
V†	754112.6	5.18	mg/L	0.001	5.18	mg/L	0.001	0.01%
QC value within limits for V		Recovery = 103.68%						
Zn†	199499.2	5.21	mg/L	0.004	5.21	mg/L	0.004	0.08%
QC value within limits for Zn		Recovery = 104.23%						

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 5/18/2008 19:42:58
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	405808.5	98.9	%	0.04				0.05%
Yr	466551.7	95.1	%	1.07				1.13%
Ag†	69.0	0.00029	mg/L	0.000236	0.00029	mg/L	0.000236	82.83%
QC value within limits for Ag Recovery = Not calculated								
Al†	-15.3	-0.00190	mg/L	0.000282	-0.00190	mg/L	0.000282	14.87%
QC value within limits for Al Recovery = Not calculated								
As†	7.7	0.00483	mg/L	0.002389	0.00483	mg/L	0.002389	49.48%
QC value within limits for As Recovery = Not calculated								
B_†	1999.1	0.0787	mg/L	0.00236	0.0787	mg/L	0.00236	2.99%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	3.0	0.00008	mg/L	0.000012	0.00008	mg/L	0.000012	16.42%
QC value within limits for Ba Recovery = Not calculated								
Be†	215.3	0.00009	mg/L	0.000019	0.00009	mg/L	0.000019	21.74%
QC value within limits for Be Recovery = Not calculated								
Ca†	9.9	0.00032	mg/L	0.002382	0.00032	mg/L	0.002382	741.37%
QC value within limits for Ca Recovery = Not calculated								
Cd†	0.3	-0.00005	mg/L	0.000117	-0.00005	mg/L	0.000117	223.75%
QC value within limits for Cd Recovery = Not calculated								
Co†	-0.5	-0.00003	mg/L	0.000006	-0.00003	mg/L	0.000006	18.50%
QC value within limits for Co Recovery = Not calculated								
Cr†	7.1	0.00017	mg/L	0.000064	0.00017	mg/L	0.000064	36.62%
QC value within limits for Cr Recovery = Not calculated								
Cu†	21.0	0.00007	mg/L	0.000151	0.00007	mg/L	0.000151	215.21%
QC value within limits for Cu Recovery = Not calculated								
Fe†	17.1	0.00137	mg/L	0.000012	0.00137	mg/L	0.000012	0.85%
QC value within limits for Fe Recovery = Not calculated								
K†	88.2	0.0668	mg/L	0.00262	0.0668	mg/L	0.00262	3.92%
QC value within limits for K Recovery = Not calculated								
Mg†	74.9	0.00347	mg/L	0.000864	0.00347	mg/L	0.000864	24.90%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-27.3	-0.00006	mg/L	0.000008	-0.00006	mg/L	0.000008	13.32%
QC value within limits for Mn Recovery = Not calculated								
Mo†	12.9	0.00129	mg/L	0.000149	0.00129	mg/L	0.000149	11.54%
QC value within limits for Mo Recovery = Not calculated								
Na†	925.3	0.172	mg/L	0.0217	0.172	mg/L	0.0217	12.64%
QC value within limits for Na Recovery = Not calculated								
Ni†	12.3	0.00066	mg/L	0.000070	0.00066	mg/L	0.000070	10.54%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-1.0	-0.00025	mg/L	0.000089	-0.00025	mg/L	0.000089	35.40%
QC value within limits for Pb Recovery = Not calculated								
Sb†	6.2	0.00386	mg/L	0.000889	0.00386	mg/L	0.000889	23.04%
QC value within limits for Sb Recovery = Not calculated								
Se†	0.4	0.00044	mg/L	0.000594	0.00044	mg/L	0.000594	135.31%
QC value within limits for Se Recovery = Not calculated								
Tl†	5.8	0.00264	mg/L	0.000848	0.00264	mg/L	0.000848	32.08%
QC value within limits for Tl Recovery = Not calculated								
V†	15.4	0.00011	mg/L	0.000102	0.00011	mg/L	0.000102	95.90%
QC value within limits for V Recovery = Not calculated								
Zn†	0.8	0.00002	mg/L	0.000267	0.00002	mg/L	0.000267	>999.9%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 35
Sample ID: CCB

Autosampler Location: 0
Date Collected: 5/18/2008 19:45:31

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	400020.8	97.5	%	0.50				0.51%
Yr	466013.0	95.0	%	0.02				0.03%
Ag†	70.2	0.00029	mg/L	0.000133	0.00029	mg/L	0.000133	45.77%
QC value within limits for Ag	Recovery = Not calculated							
Al†	35.4	0.00427	mg/L	0.004053	0.00427	mg/L	0.004053	94.97%
QC value within limits for Al	Recovery = Not calculated							
As†	4.1	0.00253	mg/L	0.001735	0.00253	mg/L	0.001735	68.60%
QC value within limits for As	Recovery = Not calculated							
B_†	1667.7	0.0657	mg/L	0.00167	0.0657	mg/L	0.00167	2.54%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	1.1	0.00003	mg/L	0.000082	0.00003	mg/L	0.000082	309.17%
QC value within limits for Ba	Recovery = Not calculated							
Be†	100.9	0.00004	mg/L	0.000026	0.00004	mg/L	0.000026	65.56%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-2.3	-0.00007	mg/L	0.000815	-0.00007	mg/L	0.000815	>999.9%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	1.1	0.00002	mg/L	0.000188	0.00002	mg/L	0.000188	>999.9%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.3	0.00016	mg/L	0.000079	0.00016	mg/L	0.000079	50.51%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-4.5	-0.00011	mg/L	0.000039	-0.00011	mg/L	0.000039	35.31%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	4.3	0.00001	mg/L	0.000182	0.00001	mg/L	0.000182	>999.9%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	14.6	0.00117	mg/L	0.000409	0.00117	mg/L	0.000409	35.12%
QC value within limits for Fe	Recovery = Not calculated							
K†	67.7	0.0513	mg/L	0.00723	0.0513	mg/L	0.00723	14.10%
QC value within limits for K	Recovery = Not calculated							
Mg†	59.1	0.00274	mg/L	0.000301	0.00274	mg/L	0.000301	10.99%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-44.8	-0.00009	mg/L	0.000001	-0.00009	mg/L	0.000001	1.32%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	4.2	0.00042	mg/L	0.000186	0.00042	mg/L	0.000186	44.25%
QC value within limits for Mo	Recovery = Not calculated							
Na†	904.7	0.168	mg/L	0.0117	0.168	mg/L	0.0117	6.98%
QC value within limits for Na	Recovery = Not calculated							
Ni†	12.2	0.00066	mg/L	0.000204	0.00066	mg/L	0.000204	30.98%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-4.3	-0.00115	mg/L	0.000704	-0.00115	mg/L	0.000704	61.34%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	5.0	0.00310	mg/L	0.000885	0.00310	mg/L	0.000885	28.58%
QC value within limits for Sb	Recovery = Not calculated							
Se†	0.1	0.00006	mg/L	0.000664	0.00006	mg/L	0.000664	>999.9%
QC value within limits for Se	Recovery = Not calculated							
Tl†	3.1	0.00138	mg/L	0.001417	0.00138	mg/L	0.001417	102.33%
QC value within limits for Tl	Recovery = Not calculated							
V†	10.6	0.00007	mg/L	0.000012	0.00007	mg/L	0.000012	17.24%
QC value within limits for V	Recovery = Not calculated							
Zn†	2.1	0.00005	mg/L	0.000154	0.00005	mg/L	0.000154	298.09%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

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

Autosampler Location: 0
Date Collected: 5/18/2008 19:48:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	402889.6	98.2	%	0.26				0.26%
Yr	457095.9	93.2	%	1.17				1.26%
Ag†	15.8	0.00007	mg/L	0.000126	0.00007	mg/L	0.000126	192.78%
QC value within limits for Ag Recovery = Not calculated								
Al†	-10.1	-0.00123	mg/L	0.001465	-0.00123	mg/L	0.001465	118.87%
QC value within limits for Al Recovery = Not calculated								
As†	0.0	0.00002	mg/L	0.000365	0.00002	mg/L	0.000365	>999.9%
QC value within limits for As Recovery = Not calculated								
B_†	1429.7	0.0563	mg/L	0.00083	0.0563	mg/L	0.00083	1.47%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.2	0.00000	mg/L	0.000004	0.00000	mg/L	0.000004	97.26%
QC value within limits for Ba Recovery = Not calculated								
Be†	78.1	0.00003	mg/L	0.000022	0.00003	mg/L	0.000022	71.32%
QC value within limits for Be Recovery = Not calculated								
Ca†	64.3	0.00208	mg/L	0.002305	0.00208	mg/L	0.002305	110.77%
QC value within limits for Ca Recovery = Not calculated								
Cd†	-1.1	-0.00005	mg/L	0.000083	-0.00005	mg/L	0.000083	164.20%
QC value within limits for Cd Recovery = Not calculated								
Co†	-1.5	-0.00011	mg/L	0.000202	-0.00011	mg/L	0.000202	189.67%
QC value within limits for Co Recovery = Not calculated								
Cr†	0.7	0.00002	mg/L	0.000178	0.00002	mg/L	0.000178	>999.9%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-50.0	-0.00017	mg/L	0.000145	-0.00017	mg/L	0.000145	86.78%
QC value within limits for Cu Recovery = Not calculated								
Fe†	12.8	0.00102	mg/L	0.000430	0.00102	mg/L	0.000430	42.24%
QC value within limits for Fe Recovery = Not calculated								
K†	87.0	0.0659	mg/L	0.00444	0.0659	mg/L	0.00444	6.74%
QC value within limits for K Recovery = Not calculated								
Mg†	45.3	0.00210	mg/L	0.000216	0.00210	mg/L	0.000216	10.31%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-72.2	-0.00015	mg/L	0.000001	-0.00015	mg/L	0.000001	0.52%
QC value within limits for Mn Recovery = Not calculated								
Mo†	2.4	0.00024	mg/L	0.000470	0.00024	mg/L	0.000470	193.10%
QC value within limits for Mo Recovery = Not calculated								
Na†	814.3	0.151	mg/L	0.0030	0.151	mg/L	0.0030	1.97%
QC value within limits for Na Recovery = Not calculated								
Ni†	4.6	0.00025	mg/L	0.000167	0.00025	mg/L	0.000167	67.41%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-2.5	-0.00067	mg/L	0.000041	-0.00067	mg/L	0.000041	6.05%
QC value within limits for Pb Recovery = Not calculated								
Sb†	3.6	0.00226	mg/L	0.000632	0.00226	mg/L	0.000632	28.00%
QC value within limits for Sb Recovery = Not calculated								
Se†	3.0	0.00301	mg/L	0.003885	0.00301	mg/L	0.003885	128.98%
QC value within limits for Se Recovery = Not calculated								
Tl†	5.7	0.00257	mg/L	0.000355	0.00257	mg/L	0.000355	13.81%
QC value within limits for Tl Recovery = Not calculated								
V†	15.0	0.00010	mg/L	0.000009	0.00010	mg/L	0.000009	8.49%
QC value within limits for V Recovery = Not calculated								
Zn†	1.4	0.00004	mg/L	0.000121	0.00004	mg/L	0.000121	345.57%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Continue with analysis.

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

Autosampler Location: 5
Date Collected: 5/18/2008 19:51:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	390513.4	95.2	%	0.96				1.01%
Yr	454055.0	92.6	%	1.40				1.51%
Ag†	121967.4	0.505	mg/L	0.0030	0.505	mg/L	0.0030	0.59%
QC value within limits for Ag		Recovery = 100.97%						
Al†	22562.3	2.64	mg/L	0.022	2.64	mg/L	0.022	0.84%
QC value within limits for Al		Recovery = 105.42%						
As†	3808.1	2.38	mg/L	0.018	2.38	mg/L	0.018	0.77%
QC value within limits for As		Recovery = 95.04%						
B_†	33443.3	1.29	mg/L	0.001	1.29	mg/L	0.001	0.08%
QC value within limits for B_		Recovery = 103.52%						
Ba†	103942.4	2.60	mg/L	0.013	2.60	mg/L	0.013	0.51%
QC value within limits for Ba		Recovery = 104.20%						
Be†	2677205.7	1.07	mg/L	0.000	1.07	mg/L	0.000	0.01%
QC value within limits for Be		Recovery = 107.15%						
Ca†	771879.3	25.0	mg/L	0.06	25.0	mg/L	0.06	0.25%
QC value within limits for Ca		Recovery = 99.86%						
Cd†	21667.2	0.996	mg/L	0.0094	0.996	mg/L	0.0094	0.94%
QC value within limits for Cd		Recovery = 99.62%						
Co†	39315.3	2.74	mg/L	0.006	2.74	mg/L	0.006	0.21%
QC value within limits for Co		Recovery = 109.46%						
Cr†	110189.6	2.69	mg/L	0.014	2.69	mg/L	0.014	0.53%
QC value within limits for Cr		Recovery = 107.59%						
Cu†	762661.0	2.56	mg/L	0.006	2.56	mg/L	0.006	0.24%
QC value within limits for Cu		Recovery = 102.26%						
Fe†	29903.7	2.39	mg/L	0.013	2.39	mg/L	0.013	0.55%
QC value within limits for Fe		Recovery = 95.53%						
K†	34874.8	26.4	mg/L	0.14	26.4	mg/L	0.14	0.54%
QC value within limits for K		Recovery = 105.68%						
Mg†	532999.8	24.7	mg/L	0.12	24.7	mg/L	0.12	0.48%
QC value within limits for Mg		Recovery = 98.77%						
Mn†	1272065.1	2.68	mg/L	0.001	2.68	mg/L	0.001	0.04%
QC value within limits for Mn		Recovery = 107.26%						
Mo†	25661.4	2.58	mg/L	0.021	2.58	mg/L	0.021	0.80%
QC value within limits for Mo		Recovery = 103.04%						
Na†	146602.8	27.2	mg/L	0.15	27.2	mg/L	0.15	0.55%
QC value within limits for Na		Recovery = 108.93%						
Ni†	49925.1	2.69	mg/L	0.002	2.69	mg/L	0.002	0.09%
QC value within limits for Ni		Recovery = 107.54%						
Pb†	10111.0	2.67	mg/L	0.023	2.67	mg/L	0.023	0.85%
QC value within limits for Pb		Recovery = 106.91%						
Sb†	3904.4	2.43	mg/L	0.018	2.43	mg/L	0.018	0.73%
QC value within limits for Sb		Recovery = 97.20%						
Se†	2447.0	2.45	mg/L	0.021	2.45	mg/L	0.021	0.86%
QC value within limits for Se		Recovery = 98.17%						
Tl†	5934.9	2.71	mg/L	0.016	2.71	mg/L	0.016	0.59%
QC value within limits for Tl		Recovery = 108.26%						
V†	377888.6	2.60	mg/L	0.009	2.60	mg/L	0.009	0.35%
QC value within limits for V		Recovery = 103.92%						
Zn†	101157.6	2.64	mg/L	0.005	2.64	mg/L	0.005	0.20%
QC value within limits for Zn		Recovery = 105.70%						

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: 2805060305_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 56
Date Collected: 5/18/2008 19:55:11
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060305_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060305_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	348401.5	84.9	%	0.98				1.15%
Yr	422823.3	86.2	%	0.44				0.50%
Ag†	-107.3	-0.00044	mg/L	0.000090	-0.00088	mg/L	0.000180	20.43%
Al†	66.6	0.00655	mg/L	0.001757	0.0131	mg/L	0.00351	26.85%
As†	68.9	0.0430	mg/L	0.00091	0.0860	mg/L	0.00183	2.12%
B_†	80527.6	3.17	mg/L	0.023	6.34	mg/L	0.046	0.72%
Ba†	235.6	0.00591	mg/L	0.000062	0.0118	mg/L	0.00012	1.04%
Be†	-1535.0	-0.00047	mg/L	0.000001	-0.00094	mg/L	0.000003	0.32%
Ca†	10125071.9	327	mg/L	1.5	655	mg/L	2.9	0.44%
Cd†	2.6	-0.00048	mg/L	0.000146	-0.00095	mg/L	0.000292	30.59%
Co†	-10.7	-0.00075	mg/L	0.000014	-0.00149	mg/L	0.000027	1.82%
Cr†	36253.4	0.885	mg/L	0.0030	1.77	mg/L	0.006	0.34%
Cu†	1069.8	0.00359	mg/L	0.000274	0.00718	mg/L	0.000547	7.62%
Fe†	79.3	0.00633	mg/L	0.000813	0.0127	mg/L	0.00163	12.83%
K†	10673.4	8.09	mg/L	0.044	16.2	mg/L	0.09	0.55%
Mg†	2712215.5	126	mg/L	0.3	251	mg/L	0.6	0.25%
Mn†	31.7	-0.00276	mg/L	0.000002	-0.00551	mg/L	0.000005	0.08%
Mo†	413.9	0.0415	mg/L	0.00001	0.0831	mg/L	0.00002	0.03%
Na†	3467680.5	644	mg/L	5.7	1290	mg/L	11.5	0.89%
Ni†	25.3	0.00136	mg/L	0.000345	0.00272	mg/L	0.000690	25.34%
Pb†	-40.2	-0.0106	mg/L	0.00102	-0.0213	mg/L	0.00204	9.57%
Sb†	38.5	0.0213	mg/L	0.00169	0.0426	mg/L	0.00338	7.94%
Se†	-37.6	-0.0376	mg/L	0.00470	-0.0753	mg/L	0.00940	12.49%
Tl†	35.7	0.0162	mg/L	0.00459	0.0323	mg/L	0.00917	28.39%
V†	3489.6	0.0282	mg/L	0.00029	0.0564	mg/L	0.00059	1.04%
Zn†	305.6	0.00803	mg/L	0.000223	0.0161	mg/L	0.00045	2.78%

Sequence No.: 39
Sample ID: 2805060311_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 57
Date Collected: 5/18/2008 19:59:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060311_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060311_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	348916.3	85.0	%	1.21				1.42%
Yr	428066.5	87.3	%	0.30				0.35%
Agt	-199.2	-0.00077	mg/L	0.000309	-0.00154	mg/L	0.000618	40.21%
Alt	1843.4	0.222	mg/L	0.0083	0.444	mg/L	0.0167	3.75%
Ast	22.4	0.0140	mg/L	0.00084	0.0280	mg/L	0.00167	5.99%
B_t	61111.2	2.41	mg/L	0.002	4.81	mg/L	0.004	0.07%
Bat	335.3	0.00840	mg/L	0.000191	0.0168	mg/L	0.00038	2.27%
Bet	-1273.0	-0.00051	mg/L	0.000018	-0.00101	mg/L	0.000036	3.57%
Cat	10670134.8	345	mg/L	1.8	690	mg/L	3.5	0.51%
Cdt	-8.7	-0.00060	mg/L	0.000290	-0.00120	mg/L	0.000580	48.16%
Cot	4.8	0.00034	mg/L	0.000255	0.00067	mg/L	0.000510	76.07%
Crt	589.8	0.0144	mg/L	0.00023	0.0288	mg/L	0.00046	1.59%
Cut	989.4	0.00332	mg/L	0.000175	0.00664	mg/L	0.000351	5.29%
Fet	1852.6	0.148	mg/L	0.0011	0.296	mg/L	0.0022	0.76%
Kt	13375.1	10.1	mg/L	0.09	20.3	mg/L	0.17	0.85%
Mgt	3080182.5	143	mg/L	0.4	285	mg/L	0.8	0.26%
Mnt	6063.8	0.00958	mg/L	0.000166	0.0192	mg/L	0.00033	1.73%
Mot	229.9	0.0231	mg/L	0.00087	0.0462	mg/L	0.00175	3.79%
Nat	2358745.0	438	mg/L	2.0	876	mg/L	4.0	0.45%
Nit	5.2	0.00028	mg/L	0.000322	0.00056	mg/L	0.000645	114.44%
Pbt	-35.7	-0.00942	mg/L	0.001396	-0.0188	mg/L	0.00279	14.81%
Sbt	9.3	0.00586	mg/L	0.003568	0.0117	mg/L	0.00714	60.85%
Set	-35.8	-0.0355	mg/L	0.00533	-0.0710	mg/L	0.01065	15.00%
Tlt	23.7	0.0109	mg/L	0.00339	0.0217	mg/L	0.00677	31.18%
Vt	2623.0	0.0180	mg/L	0.00015	0.0360	mg/L	0.00030	0.84%
Znt	283.8	0.00746	mg/L	0.000045	0.0149	mg/L	0.00009	0.60%

Sequence No.: 40
Sample ID: 2805060312_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 58
Date Collected: 5/18/2008 20:03:15
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060312_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060312_2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	348906.8	85.0	%	0.06				0.08%
Yr	423357.9	86.3	%	1.31				1.52%
Ag†	-71.0	-0.00027	mg/L	0.000248	-0.00054	mg/L	0.000496	91.48%
Al†	1111.3	0.134	mg/L	0.0001	0.267	mg/L	0.0002	0.09%
As†	28.9	0.0180	mg/L	0.00254	0.0361	mg/L	0.00507	14.06%
B_†	62786.2	2.47	mg/L	0.011	4.94	mg/L	0.022	0.45%
Ba†	286.3	0.00718	mg/L	0.000097	0.0144	mg/L	0.00019	1.35%
Be†	-1289.4	-0.00051	mg/L	0.000043	-0.00103	mg/L	0.000086	8.36%
Ca†	11432441.2	370	mg/L	6.2	739	mg/L	12.3	1.67%
Cd†	-7.8	-0.00062	mg/L	0.000081	-0.00124	mg/L	0.000161	13.01%
Co†	-2.8	-0.00019	mg/L	0.000641	-0.00038	mg/L	0.001282	334.90%
Cr†	627.1	0.0153	mg/L	0.00020	0.0306	mg/L	0.00039	1.28%
Cu†	786.3	0.00264	mg/L	0.000114	0.00528	mg/L	0.000228	4.32%
Fe†	759.1	0.0606	mg/L	0.00053	0.121	mg/L	0.0011	0.87%
K†	15186.8	11.5	mg/L	0.05	23.0	mg/L	0.11	0.47%
Mg†	3131611.4	145	mg/L	2.6	290	mg/L	5.2	1.78%
Mn†	2005.6	0.00097	mg/L	0.000069	0.00194	mg/L	0.000138	7.11%
Mo†	240.5	0.0241	mg/L	0.00020	0.0483	mg/L	0.00040	0.82%
Na†	2533724.9	471	mg/L	8.0	941	mg/L	16.0	1.70%
Ni†	-2.7	-0.00015	mg/L	0.000465	-0.00029	mg/L	0.000930	318.36%
Pb†	-46.3	-0.0122	mg/L	0.00168	-0.0245	mg/L	0.00335	13.70%
Sb†	11.5	0.00722	mg/L	0.002061	0.0144	mg/L	0.00412	28.53%
Se†	-39.8	-0.0396	mg/L	0.00366	-0.0793	mg/L	0.00733	9.24%
Tl†	25.7	0.0117	mg/L	0.00095	0.0234	mg/L	0.00190	8.14%
V†	2651.3	0.0182	mg/L	0.00002	0.0364	mg/L	0.00004	0.10%
Zn†	139.4	0.00366	mg/L	0.000093	0.00732	mg/L	0.000186	2.54%

Sequence No.: 41
Sample ID: 2805060313_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 59
Date Collected: 5/18/2008 20:07:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060313_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060313_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	333416.4	81.3	%	0.54				0.66%
Yr	409401.5	83.5	%	0.52				0.63%
Ag†	-243.1	-0.00099	mg/L	0.000363	-0.00198	mg/L	0.000726	36.67%
Al†	696.6	0.0826	mg/L	0.00154	0.165	mg/L	0.0031	1.86%
As†	12.4	0.00775	mg/L	0.000290	0.0155	mg/L	0.00058	3.74%
B_†	51648.4	2.03	mg/L	0.002	4.07	mg/L	0.005	0.12%
Ba†	374.3	0.00938	mg/L	0.000001	0.0188	mg/L	0.00000	0.01%
Be†	-1465.2	-0.00058	mg/L	0.000010	-0.00116	mg/L	0.000019	1.67%
Ca†	13215447.3	427	mg/L	1.4	855	mg/L	2.7	0.32%
Cd†	-15.1	-0.00082	mg/L	0.000052	-0.00164	mg/L	0.000104	6.36%
Co†	-4.1	-0.00029	mg/L	0.000202	-0.00057	mg/L	0.000404	70.92%
Cr†	1642.6	0.0401	mg/L	0.00056	0.0802	mg/L	0.00112	1.40%
Cu†	952.4	0.00319	mg/L	0.000153	0.00639	mg/L	0.000305	4.78%
Fe†	493.6	0.0394	mg/L	0.00107	0.0788	mg/L	0.00214	2.72%
K†	19752.2	15.0	mg/L	0.01	29.9	mg/L	0.01	0.05%
Mg†	4075853.4	189	mg/L	1.1	378	mg/L	2.2	0.57%
Mn†	1818.2	-0.00041	mg/L	0.000048	-0.00082	mg/L	0.000096	11.75%
Mo†	448.4	0.0450	mg/L	0.00028	0.0900	mg/L	0.00057	0.63%
Na†	4051618.4	753	mg/L	0.1	1510	mg/L	0.1	0.01%
Ni†	-9.3	-0.00050	mg/L	0.001039	-0.00100	mg/L	0.002077	206.86%
Pb†	-53.3	-0.0141	mg/L	0.00037	-0.0282	mg/L	0.00074	2.64%
Sb†	11.8	0.00730	mg/L	0.002824	0.0146	mg/L	0.00565	38.67%
Se†	-34.8	-0.0347	mg/L	0.00404	-0.0694	mg/L	0.00807	11.62%
Tl†	30.0	0.0135	mg/L	0.00265	0.0271	mg/L	0.00530	19.57%
V†	2239.2	0.0155	mg/L	0.00014	0.0310	mg/L	0.00028	0.89%
Zn†	113.8	0.00298	mg/L	0.000238	0.00596	mg/L	0.000475	7.97%

Sequence No.: 42
Sample ID: 2805060314_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 60
Date Collected: 5/18/2008 20:12:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060314_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060314_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	336957.3	82.1	%	0.62				0.76%
Yr	412589.6	84.1	%	0.26				0.31%
Ag†	-113.0	-0.00046	mg/L	0.000001	-0.00093	mg/L	0.000003	0.32%
Al†	105.0	0.0112	mg/L	0.00037	0.0224	mg/L	0.00074	3.30%
As†	73.0	0.0455	mg/L	0.00584	0.0911	mg/L	0.01168	12.83%
B_†	83434.2	3.29	mg/L	0.012	6.57	mg/L	0.024	0.36%
Ba†	262.5	0.00658	mg/L	0.000104	0.0132	mg/L	0.00021	1.58%
Be†	-1712.7	-0.00053	mg/L	0.000023	-0.00107	mg/L	0.000047	4.36%
Ca†	10637776.7	344	mg/L	3.2	688	mg/L	6.4	0.93%
Cd†	-3.6	-0.00080	mg/L	0.000022	-0.00160	mg/L	0.000045	2.81%
Co†	-8.3	-0.00058	mg/L	0.000174	-0.00115	mg/L	0.000348	30.21%
Cr†	38010.5	0.928	mg/L	0.0030	1.86	mg/L	0.006	0.33%
Cu†	799.4	0.00269	mg/L	0.000265	0.00537	mg/L	0.000530	9.87%
Fe†	115.8	0.00924	mg/L	0.000278	0.0185	mg/L	0.00056	3.01%
K†	11148.0	8.45	mg/L	0.067	16.9	mg/L	0.13	0.79%
Mg†	2784867.6	129	mg/L	1.0	258	mg/L	1.9	0.75%
Mn†	-16.4	-0.00293	mg/L	0.000039	-0.00587	mg/L	0.000077	1.31%
Mo†	406.6	0.0408	mg/L	0.00007	0.0816	mg/L	0.00014	0.17%
Na†	3525794.7	655	mg/L	5.7	1310	mg/L	11.3	0.86%
Ni†	19.5	0.00105	mg/L	0.000375	0.00211	mg/L	0.000750	35.64%
Pb†	-43.9	-0.0116	mg/L	0.00086	-0.0232	mg/L	0.00173	7.45%
Sb†	43.7	0.0244	mg/L	0.00205	0.0488	mg/L	0.00411	8.42%
Se†	-40.8	-0.0408	mg/L	0.00533	-0.0815	mg/L	0.01065	13.07%
Tl†	31.5	0.0143	mg/L	0.00003	0.0285	mg/L	0.00006	0.20%
V†	3850.7	0.0309	mg/L	0.00023	0.0617	mg/L	0.00047	0.76%
Zn†	127.6	0.00334	mg/L	0.000125	0.00668	mg/L	0.000249	3.73%

Sequence No.: 43
Sample ID: 2805060315_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 61
Date Collected: 5/18/2008 20:16:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060315_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060315_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	342807.2	83.5	%	0.52				0.62%
Yr	412260.4	84.1	%	0.19				0.23%
Ag†	-126.8	-0.00042	mg/L	0.000043	-0.00084	mg/L	0.000085	10.17%
Al†	5145.6	0.622	mg/L	0.0038	1.24	mg/L	0.008	0.61%
As†	136.1	0.0849	mg/L	0.00210	0.170	mg/L	0.0042	2.48%
B_†	70153.2	2.76	mg/L	0.010	5.52	mg/L	0.021	0.38%
Ba†	466.7	0.0117	mg/L	0.00020	0.0234	mg/L	0.00040	1.70%
Be†	-918.0	-0.00036	mg/L	0.000016	-0.00071	mg/L	0.000033	4.62%
Ca†	6615124.8	214	mg/L	0.4	428	mg/L	0.9	0.20%
Cd†	24.3	-0.00003	mg/L	0.000254	-0.00006	mg/L	0.000509	808.64%
Co†	-3.7	-0.00026	mg/L	0.000463	-0.00051	mg/L	0.000925	181.05%
Cr†	3084.2	0.0753	mg/L	0.00053	0.151	mg/L	0.0011	0.71%
Cu†	901.0	0.00303	mg/L	0.000127	0.00606	mg/L	0.000254	4.19%
Fe†	3567.1	0.285	mg/L	0.0071	0.570	mg/L	0.0142	2.49%
K†	14192.0	10.8	mg/L	0.14	21.5	mg/L	0.28	1.31%
Mg†	2158358.0	100.0	mg/L	0.08	200	mg/L	0.2	0.08%
Mn†	19334.7	0.0385	mg/L	0.00006	0.0770	mg/L	0.00013	0.17%
Mo†	240.8	0.0242	mg/L	0.00034	0.0483	mg/L	0.00068	1.41%
Na†	2997683.8	557	mg/L	0.2	1110	mg/L	0.5	0.04%
Ni†	10.7	0.00057	mg/L	0.000271	0.00115	mg/L	0.000543	47.21%
Pb†	-33.7	-0.00892	mg/L	0.000685	-0.0178	mg/L	0.00137	7.68%
Sb†	13.8	0.00860	mg/L	0.005804	0.0172	mg/L	0.01161	67.50%
Se†	-23.4	-0.0227	mg/L	0.00436	-0.0453	mg/L	0.00873	19.26%
Tl†	28.4	0.0132	mg/L	0.00097	0.0265	mg/L	0.00194	7.34%
V†	5304.6	0.0367	mg/L	0.00026	0.0733	mg/L	0.00052	0.71%
Zn†	146.2	0.00382	mg/L	0.000445	0.00765	mg/L	0.000890	11.63%

Sequence No.: 44
Sample ID: 2805060316_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 62
Date Collected: 5/18/2008 20:20:08
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060316_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060316_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	345589.6	84.2	%	1.43				1.69%
Yr	425913.3	86.9	%	0.01				0.01%
Ag†	-43.1	-0.00013	mg/L	0.000191	-0.00027	mg/L	0.000381	143.33%
Al†	5439.1	0.658	mg/L	0.0042	1.32	mg/L	0.008	0.64%
As†	59.1	0.0369	mg/L	0.00050	0.0738	mg/L	0.00101	1.36%
B_†	53950.7	2.12	mg/L	0.027	4.25	mg/L	0.055	1.29%
Ba†	642.5	0.0161	mg/L	0.00016	0.0322	mg/L	0.00032	1.00%
Be†	-1014.3	-0.00035	mg/L	0.000025	-0.00069	mg/L	0.000049	7.14%
Ca†	9213661.2	298	mg/L	1.8	596	mg/L	3.7	0.61%
Cd†	3.2	-0.00036	mg/L	0.000173	-0.00072	mg/L	0.000345	48.09%
Co†	3.4	0.00024	mg/L	0.000219	0.00047	mg/L	0.000437	92.34%
Cr†	14922.5	0.364	mg/L	0.0060	0.729	mg/L	0.0121	1.66%
Cu†	991.0	0.00332	mg/L	0.000044	0.00665	mg/L	0.000087	1.32%
Fe†	1534.2	0.123	mg/L	0.0032	0.245	mg/L	0.0065	2.64%
K†	19703.2	14.9	mg/L	0.08	29.9	mg/L	0.16	0.54%
Mg†	2738284.4	127	mg/L	0.6	254	mg/L	1.3	0.51%
Mn†	132354.2	0.276	mg/L	0.0036	0.552	mg/L	0.0072	1.30%
Mo†	27.6	0.00277	mg/L	0.000144	0.00554	mg/L	0.000289	5.21%
Na†	2764648.1	514	mg/L	2.9	1030	mg/L	5.8	0.56%
Ni†	45.8	0.00247	mg/L	0.000259	0.00493	mg/L	0.000518	10.50%
Pb†	-46.0	-0.0122	mg/L	0.00014	-0.0243	mg/L	0.00028	1.17%
Sb†	24.2	0.0140	mg/L	0.00301	0.0280	mg/L	0.00603	21.50%
Se†	-37.8	-0.0376	mg/L	0.01844	-0.0751	mg/L	0.03689	49.12%
Tl†	25.3	0.0135	mg/L	0.00120	0.0271	mg/L	0.00240	8.88%
V†	2374.6	0.0180	mg/L	0.00035	0.0360	mg/L	0.00070	1.94%
Zn†	327.9	0.00859	mg/L	0.000338	0.0172	mg/L	0.00068	3.93%

Sequence No.: 45
Sample ID: 2805060317_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 63
Date Collected: 5/18/2008 20:23:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060317_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805060317_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	328095.6	80.0	%	0.86				1.07%
Yr	407653.4	83.1	%	1.23				1.48%
Agt	-18.1	-0.00005	mg/L	0.000210	-0.00010	mg/L	0.000421	421.14%
Alt	866.1	0.104	mg/L	0.0030	0.207	mg/L	0.0061	2.94%
Ast	50.5	0.0315	mg/L	0.00259	0.0630	mg/L	0.00518	8.22%
B_t	35951.3	1.42	mg/L	0.005	2.83	mg/L	0.009	0.32%
Bat	660.1	0.0165	mg/L	0.00019	0.0331	mg/L	0.00039	1.18%
Bet	-1008.4	-0.00041	mg/L	0.000015	-0.00081	mg/L	0.000030	3.71%
Cat	5001830.9	162	mg/L	0.0	324	mg/L	0.1	0.02%
Cdt	-5.7	-0.00070	mg/L	0.000081	-0.00141	mg/L	0.000162	11.49%
Cot	8.9	0.00062	mg/L	0.000109	0.00124	mg/L	0.000218	17.62%
Crt	28.1	0.00068	mg/L	0.000030	0.00137	mg/L	0.000061	4.44%
Cut	1105.9	0.00373	mg/L	0.000147	0.00746	mg/L	0.000294	3.95%
Fet	850.0	0.0679	mg/L	0.00139	0.136	mg/L	0.0028	2.05%
Kt	29165.3	22.1	mg/L	0.30	44.2	mg/L	0.61	1.37%
Mgt	1653437.0	76.6	mg/L	0.00	153	mg/L	0.0	0.00%
Mnt	276390.0	0.581	mg/L	0.0002	1.16	mg/L	0.000	0.04%
Mot	313.4	0.0315	mg/L	0.00100	0.0629	mg/L	0.00200	3.18%
Nat	7082572.0	1320	mg/L	9.1	2630	mg/L	18.2	0.69%
Nit	27.1	0.00146	mg/L	0.000161	0.00291	mg/L	0.000322	11.05%
Pbt	-31.8	-0.00839	mg/L	0.002197	-0.0168	mg/L	0.00439	26.17%
Sbt	13.1	0.00865	mg/L	0.002170	0.0173	mg/L	0.00434	25.08%
Set	-37.8	-0.0377	mg/L	0.01325	-0.0753	mg/L	0.02650	35.18%
Tlt	20.7	0.0138	mg/L	0.00851	0.0276	mg/L	0.01702	61.76%
Vt	10823.5	0.0740	mg/L	0.00059	0.148	mg/L	0.0012	0.80%
Znt	109.8	0.00285	mg/L	0.000122	0.00570	mg/L	0.000243	4.26%

Sequence No.: 46
Sample ID: 2805060318_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 64
Date Collected: 5/18/2008 20:28:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060318_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805060318_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	331178.1	80.7	%	0.46				0.58%
Yr	409047.4	83.4	%	0.06				0.08%
Ag†	-14.6	-0.00004	mg/L	0.000124	-0.00008	mg/L	0.000248	296.70%
Al†	640.0	0.0763	mg/L	0.00035	0.153	mg/L	0.0007	0.46%
As†	24.8	0.0155	mg/L	0.00264	0.0310	mg/L	0.00527	17.01%
B_†	32940.9	1.30	mg/L	0.004	2.59	mg/L	0.007	0.29%
Ba†	659.5	0.0165	mg/L	0.00006	0.0331	mg/L	0.00012	0.35%
Be†	-882.3	-0.00035	mg/L	0.000008	-0.00071	mg/L	0.000016	2.24%
Ca†	4521470.7	146	mg/L	0.1	292	mg/L	0.1	0.04%
Cd†	-0.7	-0.00024	mg/L	0.000234	-0.00049	mg/L	0.000469	95.85%
Co†	11.5	0.00080	mg/L	0.000342	0.00160	mg/L	0.000683	42.84%
Cr†	24.4	0.00060	mg/L	0.000038	0.00119	mg/L	0.000075	6.33%
Cu†	1171.2	0.00395	mg/L	0.000214	0.00789	mg/L	0.000429	5.43%
Fe†	626.4	0.0500	mg/L	0.00063	0.100	mg/L	0.0013	1.26%
K†	26002.9	19.7	mg/L	0.10	39.4	mg/L	0.21	0.53%
Mg†	1740582.0	80.6	mg/L	0.04	161	mg/L	0.1	0.05%
Mn†	421469.5	0.887	mg/L	0.0011	1.77	mg/L	0.002	0.12%
Mo†	295.8	0.0297	mg/L	0.00027	0.0594	mg/L	0.00053	0.89%
Na†	6856036.1	1270	mg/L	6.0	2550	mg/L	12.0	0.47%
Ni†	35.1	0.00189	mg/L	0.000158	0.00378	mg/L	0.000317	8.36%
Pb†	-30.7	-0.00812	mg/L	0.001721	-0.0162	mg/L	0.00344	21.21%
Sb†	6.1	0.00431	mg/L	0.000681	0.00862	mg/L	0.001362	15.80%
Se†	-26.5	-0.0264	mg/L	0.00463	-0.0527	mg/L	0.00926	17.57%
Tl†	15.4	0.0136	mg/L	0.00160	0.0273	mg/L	0.00319	11.71%
V†	10810.6	0.0739	mg/L	0.00020	0.148	mg/L	0.0004	0.27%
Zn†	134.9	0.00351	mg/L	0.000060	0.00701	mg/L	0.000120	1.71%

Sequence No.: 47
Sample ID: MBLANK2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 65
Date Collected: 5/18/2008 20:32:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK2007

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: MBLANK2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	406935.9	99.2	%	0.41				0.42%
Yr	463081.8	94.4	%	0.54				0.57%
Agt	13.7	0.00006	mg/L	0.000053	0.00006	mg/L	0.000053	90.99%
Alt	52.9	0.00640	mg/L	0.003100	0.00640	mg/L	0.003100	48.48%
Ast	1.5	0.00096	mg/L	0.000906	0.00096	mg/L	0.000906	94.29%
B_t	1213.2	0.0478	mg/L	0.00159	0.0478	mg/L	0.00159	3.33%
Bat	2.3	0.00006	mg/L	0.000030	0.00006	mg/L	0.000030	51.16%
Bet	52.3	0.00002	mg/L	0.000015	0.00002	mg/L	0.000015	72.11%
Cat	568.0	0.0184	mg/L	0.00101	0.0184	mg/L	0.00101	5.51%
Cdt	-4.8	-0.00024	mg/L	0.000037	-0.00024	mg/L	0.000037	15.47%
Cot	1.6	0.00011	mg/L	0.000105	0.00011	mg/L	0.000105	94.63%
Crt	-3.8	-0.00009	mg/L	0.000105	-0.00009	mg/L	0.000105	112.04%
Cut	0.1	0.00000	mg/L	0.000349	0.00000	mg/L	0.000349	>999.9%
Fet	41.4	0.00331	mg/L	0.000108	0.00331	mg/L	0.000108	3.25%
Kt	180.3	0.137	mg/L	0.0790	0.137	mg/L	0.0790	57.81%
Mgt	135.1	0.00626	mg/L	0.000567	0.00626	mg/L	0.000567	9.05%
Mnt	-16.9	-0.00004	mg/L	0.000000	-0.00004	mg/L	0.000000	1.38%
Mot	-0.4	-0.00004	mg/L	0.000483	-0.00004	mg/L	0.000483	>999.9%
Nat	5695.6	1.06	mg/L	0.025	1.06	mg/L	0.025	2.41%
Nit	4.6	0.00025	mg/L	0.000026	0.00025	mg/L	0.000026	10.43%
Pbt	-7.0	-0.00185	mg/L	0.001097	-0.00185	mg/L	0.001097	59.20%
Sbt	-0.4	-0.00027	mg/L	0.000195	-0.00027	mg/L	0.000195	72.71%
Set	1.9	0.00188	mg/L	0.008096	0.00188	mg/L	0.008096	429.97%
Tlt	2.1	0.00094	mg/L	0.002340	0.00094	mg/L	0.002340	248.63%
Vt	19.0	0.00013	mg/L	0.000126	0.00013	mg/L	0.000126	97.07%
Znt	121.0	0.00319	mg/L	0.000088	0.00319	mg/L	0.000088	2.75%

Sequence No.: 48
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2008 20:36:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	380036.1	92.6	%	0.09				0.09%
Yr	439404.6	89.6	%	0.04				0.04%
Ag†	242514.4	1.00	mg/L	0.000	1.00	mg/L	0.000	0.05%
QC value within limits for Ag	Recovery = 100.37%							
Al†	45899.6	5.37	mg/L	0.012	5.37	mg/L	0.012	0.23%
QC value within limits for Al	Recovery = 107.33%							
As†	7634.1	4.76	mg/L	0.006	4.76	mg/L	0.006	0.12%
QC value within limits for As	Recovery = 95.26%							
B_†	65634.0	2.54	mg/L	0.006	2.54	mg/L	0.006	0.25%
QC value within limits for B_	Recovery = 101.57%							
Ba†	203399.6	5.10	mg/L	0.003	5.10	mg/L	0.003	0.05%
QC value within limits for Ba	Recovery = 101.95%							
Be†	5249932.1	2.10	mg/L	0.004	2.10	mg/L	0.004	0.19%
QC value within limits for Be	Recovery = 105.06%							
Ca†	1485785.2	48.1	mg/L	0.15	48.1	mg/L	0.15	0.32%
QC value within limits for Ca	Recovery = 96.11%							
Cd†	43360.6	1.99	mg/L	0.001	1.99	mg/L	0.001	0.03%
QC value within limits for Cd	Recovery = 99.65%							
Co†	76796.1	5.35	mg/L	0.010	5.35	mg/L	0.010	0.19%
QC value within limits for Co	Recovery = 106.90%							
Cr†	216871.0	5.29	mg/L	0.005	5.29	mg/L	0.005	0.10%
QC value within limits for Cr	Recovery = 105.87%							
Cu†	1511807.3	5.07	mg/L	0.008	5.07	mg/L	0.008	0.15%
QC value within limits for Cu	Recovery = 101.36%							
Fe†	57050.0	4.56	mg/L	0.033	4.56	mg/L	0.033	0.72%
QC value within limits for Fe	Recovery = 91.12%							
K†	71332.6	54.0	mg/L	0.30	54.0	mg/L	0.30	0.56%
QC value within limits for K	Recovery = 108.08%							
Mg†	1019783.2	47.2	mg/L	0.16	47.2	mg/L	0.16	0.33%
QC value within limits for Mg	Recovery = 94.49%							
Mn†	2472328.1	5.21	mg/L	0.008	5.21	mg/L	0.008	0.15%
QC value within limits for Mn	Recovery = 104.23%							
Mo†	50805.7	5.10	mg/L	0.001	5.10	mg/L	0.001	0.02%
QC value within limits for Mo	Recovery = 102.00%							
Na†	288902.8	53.7	mg/L	0.06	53.7	mg/L	0.06	0.10%
QC value within limits for Na	Recovery = 107.33%							
Ni†	97088.9	5.23	mg/L	0.009	5.23	mg/L	0.009	0.17%
QC value within limits for Ni	Recovery = 104.57%							
Pb†	19718.1	5.21	mg/L	0.014	5.21	mg/L	0.014	0.27%
QC value within limits for Pb	Recovery = 104.25%							
Sb†	7759.3	4.83	mg/L	0.008	4.83	mg/L	0.008	0.16%
QC value within limits for Sb	Recovery = 96.59%							
Se†	4914.7	4.93	mg/L	0.029	4.93	mg/L	0.029	0.58%
QC value within limits for Se	Recovery = 98.57%							
Tl†	11511.7	5.25	mg/L	0.002	5.25	mg/L	0.002	0.05%
QC value within limits for Tl	Recovery = 105.00%							
V†	749932.8	5.16	mg/L	0.014	5.16	mg/L	0.014	0.27%
QC value within limits for V	Recovery = 103.11%							
Zn†	199038.4	5.20	mg/L	0.002	5.20	mg/L	0.002	0.04%
QC value within limits for Zn	Recovery = 104.00%							

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 20:40:07
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	402915.6	98.2	%	0.89				0.90%
Yr	448665.7	91.5	%	0.39				0.43%
Ag†	55.3	0.00023	mg/L	0.000087	0.00023	mg/L	0.000087	38.15%
QC value within limits for Ag	Recovery = Not calculated							
Al†	40.7	0.00488	mg/L	0.003633	0.00488	mg/L	0.003633	74.50%
QC value within limits for Al	Recovery = Not calculated							
As†	6.6	0.00411	mg/L	0.002895	0.00411	mg/L	0.002895	70.37%
QC value within limits for As	Recovery = Not calculated							
B_†	1318.3	0.0519	mg/L	0.00186	0.0519	mg/L	0.00186	3.58%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	0.8	0.00002	mg/L	0.000064	0.00002	mg/L	0.000064	303.40%
QC value within limits for Ba	Recovery = Not calculated							
Be†	196.2	0.00008	mg/L	0.000014	0.00008	mg/L	0.000014	17.55%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-22.2	-0.00072	mg/L	0.000269	-0.00072	mg/L	0.000269	37.36%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	2.7	0.00007	mg/L	0.000243	0.00007	mg/L	0.000243	340.03%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.2	-0.00008	mg/L	0.000455	-0.00008	mg/L	0.000455	546.91%
QC value within limits for Co	Recovery = Not calculated							
Cr†	0.3	0.00001	mg/L	0.000034	0.00001	mg/L	0.000034	418.17%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-26.5	-0.00009	mg/L	0.000026	-0.00009	mg/L	0.000026	29.87%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	22.1	0.00176	mg/L	0.000356	0.00176	mg/L	0.000356	20.19%
QC value within limits for Fe	Recovery = Not calculated							
K†	-24.6	-0.0186	mg/L	0.01565	-0.0186	mg/L	0.01565	84.02%
QC value within limits for K	Recovery = Not calculated							
Mg†	55.7	0.00258	mg/L	0.000551	0.00258	mg/L	0.000551	21.32%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-63.8	-0.00013	mg/L	0.000034	-0.00013	mg/L	0.000034	25.52%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	12.1	0.00122	mg/L	0.000274	0.00122	mg/L	0.000274	22.51%
QC value within limits for Mo	Recovery = Not calculated							
Na†	1515.8	0.282	mg/L	0.0053	0.282	mg/L	0.0053	1.89%
QC value within limits for Na	Recovery = Not calculated							
Ni†	13.5	0.00073	mg/L	0.000082	0.00073	mg/L	0.000082	11.20%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-4.1	-0.00109	mg/L	0.000494	-0.00109	mg/L	0.000494	45.33%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	5.5	0.00341	mg/L	0.000670	0.00341	mg/L	0.000670	19.65%
QC value within limits for Sb	Recovery = Not calculated							
Se†	1.1	0.00107	mg/L	0.004407	0.00107	mg/L	0.004407	412.42%
QC value within limits for Se	Recovery = Not calculated							
Tl†	7.5	0.00341	mg/L	0.000458	0.00341	mg/L	0.000458	13.42%
QC value within limits for Tl	Recovery = Not calculated							
V†	10.9	0.00008	mg/L	0.000066	0.00008	mg/L	0.000066	88.03%
QC value within limits for V	Recovery = Not calculated							
Zn†	5.4	0.00014	mg/L	0.000101	0.00014	mg/L	0.000101	72.95%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 50
Sample ID: CCB

Autosampler Location: 0
Date Collected: 5/18/2008 20:42:40

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	405359.3	98.8	%	0.54				0.55%
Yr	445511.0	90.9	%	0.07				0.08%
Ag†	81.2	0.00034	mg/L	0.000363	0.00034	mg/L	0.000363	107.98%
QC value within limits for Ag Recovery = Not calculated								
Al†	5.7	0.00068	mg/L	0.003977	0.00068	mg/L	0.003977	588.21%
QC value within limits for Al Recovery = Not calculated								
As†	5.8	0.00360	mg/L	0.002146	0.00360	mg/L	0.002146	59.66%
QC value within limits for As Recovery = Not calculated								
B_†	1075.7	0.0424	mg/L	0.00066	0.0424	mg/L	0.00066	1.55%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	2.2	0.00005	mg/L	0.000061	0.00005	mg/L	0.000061	111.09%
QC value within limits for Ba Recovery = Not calculated								
Be†	147.3	0.00006	mg/L	0.000017	0.00006	mg/L	0.000017	28.15%
QC value within limits for Be Recovery = Not calculated								
Ca†	-31.1	-0.00100	mg/L	0.000267	-0.00100	mg/L	0.000267	26.55%
QC value within limits for Ca Recovery = Not calculated								
Cd†	-1.5	-0.00012	mg/L	0.000165	-0.00012	mg/L	0.000165	137.32%
QC value within limits for Cd Recovery = Not calculated								
Co†	-1.3	-0.00009	mg/L	0.000593	-0.00009	mg/L	0.000593	656.80%
QC value within limits for Co Recovery = Not calculated								
Cr†	-2.3	-0.00006	mg/L	0.000073	-0.00006	mg/L	0.000073	130.61%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-82.5	-0.00028	mg/L	0.000141	-0.00028	mg/L	0.000141	51.16%
QC value within limits for Cu Recovery = Not calculated								
Fe†	13.1	0.00105	mg/L	0.000189	0.00105	mg/L	0.000189	18.07%
QC value within limits for Fe Recovery = Not calculated								
K†	24.0	0.0182	mg/L	0.09675	0.0182	mg/L	0.09675	532.12%
QC value within limits for K Recovery = Not calculated								
Mg†	43.5	0.00202	mg/L	0.000067	0.00202	mg/L	0.000067	3.31%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-84.2	-0.00018	mg/L	0.000004	-0.00018	mg/L	0.000004	2.20%
QC value within limits for Mn Recovery = Not calculated								
Mo†	3.5	0.00035	mg/L	0.000181	0.00035	mg/L	0.000181	51.10%
QC value within limits for Mo Recovery = Not calculated								
Na†	1413.7	0.263	mg/L	0.0006	0.263	mg/L	0.0006	0.23%
QC value within limits for Na Recovery = Not calculated								
Ni†	8.3	0.00045	mg/L	0.000077	0.00045	mg/L	0.000077	17.13%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-3.8	-0.00100	mg/L	0.001626	-0.00100	mg/L	0.001626	163.27%
QC value within limits for Pb Recovery = Not calculated								
Sb†	4.3	0.00264	mg/L	0.000924	0.00264	mg/L	0.000924	34.99%
QC value within limits for Sb Recovery = Not calculated								
Se†	2.4	0.00236	mg/L	0.004080	0.00236	mg/L	0.004080	172.69%
QC value within limits for Se Recovery = Not calculated								
Tl†	7.6	0.00346	mg/L	0.000867	0.00346	mg/L	0.000867	25.09%
QC value within limits for Tl Recovery = Not calculated								
V†	14.3	0.00010	mg/L	0.000066	0.00010	mg/L	0.000066	68.02%
QC value within limits for V Recovery = Not calculated								
Zn†	-2.4	-0.00007	mg/L	0.000118	-0.00007	mg/L	0.000118	180.31%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 51
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 20:45:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	403718.7	98.4	%	1.08				1.10%
Yr	450031.5	91.8	%	0.10				0.11%
Ag†	88.9	0.00037	mg/L	0.000098	0.00037	mg/L	0.000098	26.56%
QC value within limits for Ag Recovery = Not calculated								
Al†	12.9	0.00155	mg/L	0.001323	0.00155	mg/L	0.001323	85.16%
QC value within limits for Al Recovery = Not calculated								
As†	2.6	0.00160	mg/L	0.001292	0.00160	mg/L	0.001292	80.96%
QC value within limits for As Recovery = Not calculated								
B_†	959.2	0.0378	mg/L	0.00109	0.0378	mg/L	0.00109	2.90%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-2.3	-0.00006	mg/L	0.000020	-0.00006	mg/L	0.000020	35.07%
QC value within limits for Ba Recovery = Not calculated								
Be†	58.6	0.00002	mg/L	0.000000	0.00002	mg/L	0.000000	0.61%
QC value within limits for Be Recovery = Not calculated								
Ca†	-55.8	-0.00180	mg/L	0.001548	-0.00180	mg/L	0.001548	85.75%
QC value within limits for Ca Recovery = Not calculated								
Cd†	0.9	0.00002	mg/L	0.000077	0.00002	mg/L	0.000077	364.63%
QC value within limits for Cd Recovery = Not calculated								
Co†	-3.9	-0.00027	mg/L	0.000473	-0.00027	mg/L	0.000473	175.69%
QC value within limits for Co Recovery = Not calculated								
Cr†	-3.4	-0.00008	mg/L	0.000006	-0.00008	mg/L	0.000006	7.29%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-24.3	-0.00008	mg/L	0.000075	-0.00008	mg/L	0.000075	92.04%
QC value within limits for Cu Recovery = Not calculated								
Fe†	9.6	0.00077	mg/L	0.000010	0.00077	mg/L	0.000010	1.37%
QC value within limits for Fe Recovery = Not calculated								
K†	96.2	0.0729	mg/L	0.01486	0.0729	mg/L	0.01486	20.40%
QC value within limits for K Recovery = Not calculated								
Mg†	37.7	0.00175	mg/L	0.000309	0.00175	mg/L	0.000309	17.68%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-93.7	-0.00020	mg/L	0.000011	-0.00020	mg/L	0.000011	5.46%
QC value within limits for Mn Recovery = Not calculated								
Mo†	1.6	0.00016	mg/L	0.000248	0.00016	mg/L	0.000248	156.83%
QC value within limits for Mo Recovery = Not calculated								
Na†	1427.7	0.265	mg/L	0.0057	0.265	mg/L	0.0057	2.17%
QC value within limits for Na Recovery = Not calculated								
Ni†	8.1	0.00044	mg/L	0.000015	0.00044	mg/L	0.000015	3.45%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-7.1	-0.00187	mg/L	0.000463	-0.00187	mg/L	0.000463	24.74%
QC value within limits for Pb Recovery = Not calculated								
Sb†	5.5	0.00340	mg/L	0.000904	0.00340	mg/L	0.000904	26.63%
QC value within limits for Sb Recovery = Not calculated								
Se†	0.9	0.00093	mg/L	0.000469	0.00093	mg/L	0.000469	50.69%
QC value within limits for Se Recovery = Not calculated								
Tl†	2.1	0.00093	mg/L	0.000701	0.00093	mg/L	0.000701	75.45%
QC value within limits for Tl Recovery = Not calculated								
V†	14.7	0.00010	mg/L	0.000108	0.00010	mg/L	0.000108	107.81%
QC value within limits for V Recovery = Not calculated								
Zn†	-1.7	-0.00005	mg/L	0.000063	-0.00005	mg/L	0.000063	131.65%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 52
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 5/18/2008 20:48:36
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	406766.4	99.1	%	0.50				0.51%
Yr	452451.8	92.3	%	1.17				1.27%
Ag†	2531.6	0.0105	mg/L	0.00026	0.0105	mg/L	0.00026	2.44%
Al†	435.9	0.0520	mg/L	0.00253	0.0520	mg/L	0.00253	4.88%
As†	146.0	0.0911	mg/L	0.00146	0.0911	mg/L	0.00146	1.60%
B_†	2076.6	0.0816	mg/L	0.00046	0.0816	mg/L	0.00046	0.56%
Ba†	823.0	0.0206	mg/L	0.00026	0.0206	mg/L	0.00026	1.25%
Be†	2802.2	0.00112	mg/L	0.000024	0.00112	mg/L	0.000024	2.12%
Ca†	29500.3	0.954	mg/L	0.0149	0.954	mg/L	0.0149	1.56%
Cd†	122.8	0.00469	mg/L	0.000028	0.00469	mg/L	0.000028	0.60%
Co†	788.6	0.0549	mg/L	0.00040	0.0549	mg/L	0.00040	0.73%
Cr†	429.9	0.0105	mg/L	0.00019	0.0105	mg/L	0.00019	1.83%
Cu†	3006.9	0.0101	mg/L	0.00011	0.0101	mg/L	0.00011	1.11%
Fe†	238.2	0.0190	mg/L	0.00012	0.0190	mg/L	0.00012	0.61%
K†	1465.9	1.11	mg/L	0.011	1.11	mg/L	0.011	1.01%
Mg†	2145.9	0.0994	mg/L	0.00114	0.0994	mg/L	0.00114	1.15%
Mn†	912.6	0.00192	mg/L	0.000043	0.00192	mg/L	0.000043	2.22%
Mo†	202.4	0.0203	mg/L	0.00051	0.0203	mg/L	0.00051	2.53%
Na†	6806.6	1.26	mg/L	0.014	1.26	mg/L	0.014	1.13%
Ni†	413.8	0.0223	mg/L	0.00059	0.0223	mg/L	0.00059	2.66%
Pb†	74.2	0.0196	mg/L	0.00041	0.0196	mg/L	0.00041	2.11%
Sb†	73.5	0.0456	mg/L	0.00490	0.0456	mg/L	0.00490	10.75%
Se†	95.5	0.0956	mg/L	0.00356	0.0956	mg/L	0.00356	3.72%
Tl†	248.4	0.113	mg/L	0.0004	0.113	mg/L	0.0004	0.33%
V†	306.6	0.00216	mg/L	0.000055	0.00216	mg/L	0.000055	2.54%
Zn†	778.2	0.0203	mg/L	0.00004	0.0203	mg/L	0.00004	0.19%

Sequence No.: 53
Sample ID: MRL2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 5/18/2008 20:52:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	410800.5	100	%	0.1				0.09%
Yr	456560.2	93.1	%	0.33				0.35%
Ag†	2709.5	0.0112	mg/L	0.00021	0.0112	mg/L	0.00021	1.85%
Al†	470.9	0.0562	mg/L	0.00018	0.0562	mg/L	0.00018	0.33%
As†	165.0	0.103	mg/L	0.0020	0.103	mg/L	0.0020	1.97%
B_†	2101.8	0.0825	mg/L	0.00032	0.0825	mg/L	0.00032	0.39%
Ba†	891.3	0.0223	mg/L	0.00013	0.0223	mg/L	0.00013	0.60%
Be†	2914.0	0.00117	mg/L	0.000004	0.00117	mg/L	0.000004	0.36%
Ca†	32710.5	1.06	mg/L	0.012	1.06	mg/L	0.012	1.15%
Cd†	141.3	0.00542	mg/L	0.000206	0.00542	mg/L	0.000206	3.80%
Co†	869.4	0.0605	mg/L	0.00006	0.0605	mg/L	0.00006	0.11%
Cr†	467.7	0.0114	mg/L	0.00000	0.0114	mg/L	0.00000	0.01%
Cu†	3353.7	0.0113	mg/L	0.00002	0.0113	mg/L	0.00002	0.20%
Fe†	286.0	0.0228	mg/L	0.00005	0.0228	mg/L	0.00005	0.24%
K†	1590.2	1.20	mg/L	0.010	1.20	mg/L	0.010	0.85%
Mg†	2360.6	0.109	mg/L	0.0007	0.109	mg/L	0.0007	0.61%
Mn†	972.7	0.00205	mg/L	0.000022	0.00205	mg/L	0.000022	1.06%
Mo†	214.0	0.0215	mg/L	0.00049	0.0215	mg/L	0.00049	2.29%
Na†	7308.6	1.36	mg/L	0.023	1.36	mg/L	0.023	1.72%
Ni†	443.3	0.0239	mg/L	0.00018	0.0239	mg/L	0.00018	0.75%
Pb†	87.0	0.0230	mg/L	0.00040	0.0230	mg/L	0.00040	1.73%
Sb†	86.2	0.0534	mg/L	0.00071	0.0534	mg/L	0.00071	1.32%
Se†	103.8	0.104	mg/L	0.0020	0.104	mg/L	0.0020	1.93%
Tl†	267.1	0.121	mg/L	0.0009	0.121	mg/L	0.0009	0.74%
V†	333.7	0.00235	mg/L	0.000047	0.00235	mg/L	0.000047	2.00%
Zn†	972.0	0.0254	mg/L	0.00005	0.0254	mg/L	0.00005	0.18%

Sequence No.: 54
Sample ID: LCS2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 66
Date Collected: 5/18/2008 20:55:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS2007

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: LCS2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	393292.5	95.9	%	0.35				0.37%
Yr	443151.3	90.4	%	0.19				0.20%
Ag†	112816.7	0.468	mg/L	0.0013	0.468	mg/L	0.0013	0.26%
Al†	17194.5	2.05	mg/L	0.018	2.05	mg/L	0.018	0.87%
As†	1473.1	0.919	mg/L	0.0041	0.919	mg/L	0.0041	0.45%
B_†	12614.8	0.488	mg/L	0.0046	0.488	mg/L	0.0046	0.94%
Ba†	37754.9	0.946	mg/L	0.0007	0.946	mg/L	0.0007	0.08%
Be†	124276.5	0.0499	mg/L	0.00008	0.0499	mg/L	0.00008	0.15%
Ca†	1380945.9	44.7	mg/L	0.36	44.7	mg/L	0.36	0.81%
Cd†	4160.6	0.186	mg/L	0.0004	0.186	mg/L	0.0004	0.23%
Co†	14626.6	1.02	mg/L	0.003	1.02	mg/L	0.003	0.25%
Cr†	40206.0	0.981	mg/L	0.0028	0.981	mg/L	0.0028	0.28%
Cu†	286053.3	0.959	mg/L	0.0032	0.959	mg/L	0.0032	0.33%
Fe†	52864.3	4.22	mg/L	0.044	4.22	mg/L	0.044	1.04%
K†	27084.8	20.5	mg/L	0.11	20.5	mg/L	0.11	0.53%
Mg†	386302.8	17.9	mg/L	0.09	17.9	mg/L	0.09	0.52%
Mn†	233959.6	0.493	mg/L	0.0004	0.493	mg/L	0.0004	0.07%
Mo†	9505.8	0.954	mg/L	0.0002	0.954	mg/L	0.0002	0.02%
Na†	270801.1	50.3	mg/L	0.36	50.3	mg/L	0.36	0.72%
Ni†	9197.1	0.495	mg/L	0.0010	0.495	mg/L	0.0010	0.20%
Pb†	3750.5	0.991	mg/L	0.0019	0.991	mg/L	0.0019	0.19%
Sb†	744.2	0.465	mg/L	0.0023	0.465	mg/L	0.0023	0.50%
Se†	927.9	0.939	mg/L	0.0100	0.939	mg/L	0.0100	1.07%
Tl†	2233.7	1.01	mg/L	0.002	1.01	mg/L	0.002	0.21%
V†	140128.8	0.963	mg/L	0.0022	0.963	mg/L	0.0022	0.22%
Zn†	37856.1	0.992	mg/L	0.0020	0.992	mg/L	0.0020	0.20%

Sequence No.: 55
Sample ID: LCSD2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 67
Date Collected: 5/18/2008 20:59:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD2007

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: LCSD2007

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	394284.9	96.1	%	0.12				0.13%
Yr	436878.1	89.1	%	0.03				0.03%
Ag†	112557.6	0.467	mg/L	0.0020	0.467	mg/L	0.0020	0.44%
Al†	17112.0	2.04	mg/L	0.007	2.04	mg/L	0.007	0.34%
As†	1459.4	0.911	mg/L	0.0032	0.911	mg/L	0.0032	0.35%
B_†	12627.2	0.489	mg/L	0.0041	0.489	mg/L	0.0041	0.85%
Ba†	37717.7	0.945	mg/L	0.0039	0.945	mg/L	0.0039	0.41%
Be†	124254.8	0.0499	mg/L	0.00042	0.0499	mg/L	0.00042	0.85%
Ca†	1378464.4	44.6	mg/L	0.42	44.6	mg/L	0.42	0.95%
Cd†	4102.2	0.184	mg/L	0.0003	0.184	mg/L	0.0003	0.16%
Co†	14474.2	1.01	mg/L	0.006	1.01	mg/L	0.006	0.64%
Cr†	40424.4	0.987	mg/L	0.0119	0.987	mg/L	0.0119	1.21%
Cu†	284941.8	0.955	mg/L	0.0037	0.955	mg/L	0.0037	0.39%
Fe†	52707.9	4.21	mg/L	0.014	4.21	mg/L	0.014	0.33%
K†	26827.3	20.3	mg/L	0.11	20.3	mg/L	0.11	0.56%
Mg†	385418.3	17.9	mg/L	0.01	17.9	mg/L	0.01	0.06%
Mn†	233623.0	0.492	mg/L	0.0020	0.492	mg/L	0.0020	0.41%
Mo†	9378.0	0.941	mg/L	0.0020	0.941	mg/L	0.0020	0.21%
Na†	271512.9	50.4	mg/L	0.13	50.4	mg/L	0.13	0.26%
Ni†	9058.2	0.488	mg/L	0.0010	0.488	mg/L	0.0010	0.21%
Pb†	3715.0	0.982	mg/L	0.0048	0.982	mg/L	0.0048	0.49%
Sb†	729.2	0.456	mg/L	0.0085	0.456	mg/L	0.0085	1.87%
Se†	919.4	0.930	mg/L	0.0014	0.930	mg/L	0.0014	0.15%
Tl†	2213.2	1.01	mg/L	0.003	1.01	mg/L	0.003	0.34%
V†	139883.4	0.962	mg/L	0.0052	0.962	mg/L	0.0052	0.54%
Zn†	37792.4	0.991	mg/L	0.0076	0.991	mg/L	0.0076	0.77%

Sequence No.: 56
Sample ID: 2805070236_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 68
Date Collected: 5/18/2008 21:03:12
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070236_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805070236_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	354900.6	86.5	%	0.30				0.35%
Yr	411587.5	83.9	%	1.20				1.43%
Ag†	-14.0	-0.00006	mg/L	0.000144	-0.00011	mg/L	0.000288	251.01%
Al†	-23.4	-0.00338	mg/L	0.000103	-0.00677	mg/L	0.000205	3.03%
As†	64.6	0.0403	mg/L	0.00112	0.0806	mg/L	0.00225	2.78%
B_†	51511.9	2.03	mg/L	0.010	4.06	mg/L	0.021	0.51%
Ba†	716.2	0.0179	mg/L	0.00017	0.0359	mg/L	0.00033	0.93%
Be†	-1349.8	-0.00033	mg/L	0.000010	-0.00067	mg/L	0.000020	2.91%
Ca†	4211514.0	136	mg/L	0.2	272	mg/L	0.4	0.15%
Cd†	8.3	-0.00017	mg/L	0.000198	-0.00033	mg/L	0.000397	118.41%
Co†	-8.9	-0.00062	mg/L	0.000230	-0.00125	mg/L	0.000460	36.93%
Cr†	51134.1	1.25	mg/L	0.020	2.50	mg/L	0.040	1.59%
Cu†	564.0	0.00189	mg/L	0.000342	0.00379	mg/L	0.000684	18.05%
Fe†	12.9	0.00103	mg/L	0.000289	0.00207	mg/L	0.000578	27.98%
K†	20219.2	15.3	mg/L	0.09	30.6	mg/L	0.18	0.58%
Mg†	1481333.2	68.6	mg/L	0.02	137	mg/L	0.0	0.03%
Mn†	10515.8	0.0206	mg/L	0.00007	0.0413	mg/L	0.00013	0.32%
Mo†	150.6	0.0151	mg/L	0.00015	0.0302	mg/L	0.00031	1.01%
Na†	3338340.8	620	mg/L	1.0	1240	mg/L	2.0	0.16%
Ni†	-6.7	-0.00036	mg/L	0.000055	-0.00072	mg/L	0.000109	15.07%
Pb†	-37.0	-0.00977	mg/L	0.000152	-0.0195	mg/L	0.00030	1.56%
Sb†	44.9	0.0241	mg/L	0.00564	0.0482	mg/L	0.01129	23.43%
Se†	-25.7	-0.0257	mg/L	0.01292	-0.0513	mg/L	0.02584	50.34%
Tl†	31.3	0.0144	mg/L	0.00245	0.0288	mg/L	0.00491	17.06%
V†	2561.5	0.0236	mg/L	0.00014	0.0472	mg/L	0.00028	0.60%
Zn†	17.2	0.00042	mg/L	0.000002	0.00084	mg/L	0.000004	0.48%

Sequence No.: 57
Sample ID: 2805070236MS_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 69
Date Collected: 5/18/2008 21:07:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070236MS_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805070236MS_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	353976.3	86.3	%	1.01				1.17%
Yr	420884.0	85.8	%	0.15				0.17%
Ag†	64604.9	0.268	mg/L	0.0000	0.536	mg/L	0.0000	0.01%
Al†	9471.2	1.13	mg/L	0.017	2.25	mg/L	0.034	1.50%
As†	944.0	0.589	mg/L	0.0065	1.18	mg/L	0.013	1.11%
B_†	57873.1	2.28	mg/L	0.002	4.55	mg/L	0.003	0.07%
Ba†	21482.6	0.538	mg/L	0.0019	1.08	mg/L	0.004	0.36%
Be†	67497.9	0.0273	mg/L	0.00005	0.0546	mg/L	0.00010	0.18%
Ca†	4832035.2	156	mg/L	0.4	313	mg/L	0.9	0.28%
Cd†	2351.4	0.104	mg/L	0.0011	0.209	mg/L	0.0021	1.02%
Co†	7804.2	0.543	mg/L	0.0032	1.09	mg/L	0.006	0.59%
Cr†	72702.9	1.77	mg/L	0.010	3.55	mg/L	0.019	0.54%
Cu†	162833.6	0.546	mg/L	0.0040	1.09	mg/L	0.008	0.74%
Fe†	29591.6	2.36	mg/L	0.024	4.73	mg/L	0.048	1.02%
K†	35320.5	26.8	mg/L	0.24	53.5	mg/L	0.48	0.89%
Mg†	1654790.4	76.7	mg/L	0.08	153	mg/L	0.2	0.10%
Mn†	139446.8	0.292	mg/L	0.0011	0.585	mg/L	0.0022	0.38%
Mo†	5328.0	0.535	mg/L	0.0057	1.07	mg/L	0.011	1.06%
Na†	3338765.2	620	mg/L	0.9	1240	mg/L	1.8	0.14%
Ni†	4796.8	0.258	mg/L	0.0021	0.517	mg/L	0.0042	0.81%
Pb†	1938.3	0.512	mg/L	0.0018	1.02	mg/L	0.004	0.35%
Sb†	468.4	0.289	mg/L	0.0017	0.577	mg/L	0.0035	0.60%
Se†	513.6	0.520	mg/L	0.0068	1.04	mg/L	0.014	1.31%
Tl†	1137.0	0.517	mg/L	0.0093	1.03	mg/L	0.019	1.81%
V†	80551.6	0.560	mg/L	0.0005	1.12	mg/L	0.001	0.10%
Zn†	21583.6	0.566	mg/L	0.0013	1.13	mg/L	0.003	0.22%

Sequence No.: 58
Sample ID: 2805070236MSD_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 70
Date Collected: 5/18/2008 21:11:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070236MSD_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805070236MSD_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	356144.2	86.8	%	0.85				0.98%
Yr	417794.9	85.2	%	0.69				0.81%
Ag†	63452.8	0.263	mg/L	0.0004	0.526	mg/L	0.0009	0.17%
Al†	9289.8	1.10	mg/L	0.002	2.21	mg/L	0.004	0.18%
As†	920.3	0.574	mg/L	0.0078	1.15	mg/L	0.016	1.35%
B_†	56710.7	2.23	mg/L	0.016	4.46	mg/L	0.033	0.74%
Ba†	21247.6	0.532	mg/L	0.0023	1.06	mg/L	0.005	0.43%
Be†	66366.9	0.0268	mg/L	0.00001	0.0536	mg/L	0.00002	0.05%
Ca†	4710292.1	152	mg/L	0.2	305	mg/L	0.4	0.13%
Cd†	2318.2	0.103	mg/L	0.0010	0.206	mg/L	0.0019	0.93%
Co†	7717.5	0.537	mg/L	0.0068	1.07	mg/L	0.014	1.27%
Cr†	70788.2	1.73	mg/L	0.003	3.46	mg/L	0.007	0.19%
Cu†	159165.5	0.534	mg/L	0.0019	1.07	mg/L	0.004	0.36%
Fe†	28142.6	2.25	mg/L	0.021	4.49	mg/L	0.042	0.94%
K†	34251.9	25.9	mg/L	0.31	51.9	mg/L	0.62	1.19%
Mg†	1604163.3	74.3	mg/L	0.07	149	mg/L	0.1	0.09%
Mn†	137204.3	0.288	mg/L	0.0002	0.575	mg/L	0.0004	0.06%
Mo†	5249.9	0.527	mg/L	0.0034	1.05	mg/L	0.007	0.65%
Na†	3283424.5	610	mg/L	2.2	1220	mg/L	4.4	0.36%
Ni†	4731.2	0.255	mg/L	0.0029	0.510	mg/L	0.0058	1.14%
Pb†	1894.4	0.501	mg/L	0.0089	1.00	mg/L	0.018	1.77%
Sb†	465.8	0.287	mg/L	0.0013	0.574	mg/L	0.0027	0.47%
Se†	498.4	0.504	mg/L	0.0068	1.01	mg/L	0.014	1.36%
Tl†	1105.4	0.503	mg/L	0.0079	1.01	mg/L	0.016	1.58%
V†	79260.3	0.551	mg/L	0.0002	1.10	mg/L	0.000	0.03%
Zn†	21054.3	0.552	mg/L	0.0008	1.10	mg/L	0.002	0.14%

Sequence No.: 59
Sample ID: 2805070239_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 71
Date Collected: 5/18/2008 21:14:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070239_2X

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: 2805070239_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	357466.0	87.1	%	0.05				0.06%
Yr	412909.6	84.2	%	0.12				0.14%
Ag†	71.7	0.00030	mg/L	0.000260	0.00059	mg/L	0.000520	87.50%
Al†	17.9	0.00176	mg/L	0.000799	0.00353	mg/L	0.001598	45.28%
As†	66.2	0.0413	mg/L	0.00066	0.0827	mg/L	0.00131	1.59%
B_†	41066.1	1.62	mg/L	0.001	3.23	mg/L	0.001	0.04%
Ba†	523.7	0.0131	mg/L	0.00013	0.0262	mg/L	0.00026	1.00%
Be†	-960.1	-0.00036	mg/L	0.000009	-0.00071	mg/L	0.000017	2.44%
Ca†	4786977.8	155	mg/L	0.1	310	mg/L	0.2	0.07%
Cd†	1.4	-0.00051	mg/L	0.000005	-0.00101	mg/L	0.000010	0.95%
Co†	-4.1	-0.00029	mg/L	0.000349	-0.00057	mg/L	0.000697	121.79%
Cr†	7181.3	0.175	mg/L	0.0007	0.351	mg/L	0.0014	0.41%
Cu†	561.0	0.00188	mg/L	0.000068	0.00377	mg/L	0.000135	3.59%
Fe†	29.7	0.00237	mg/L	0.000424	0.00474	mg/L	0.000848	17.89%
K†	21911.3	16.6	mg/L	0.12	33.2	mg/L	0.24	0.74%
Mg†	1566709.5	72.6	mg/L	0.12	145	mg/L	0.2	0.16%
Mn†	3430.7	0.00560	mg/L	0.000015	0.0112	mg/L	0.00003	0.27%
Mo†	109.4	0.0110	mg/L	0.00011	0.0220	mg/L	0.00022	0.99%
Na†	2205286.9	410	mg/L	1.0	819	mg/L	1.9	0.24%
Ni†	-0.8	-0.00004	mg/L	0.000091	-0.00009	mg/L	0.000182	208.57%
Pb†	-36.2	-0.00957	mg/L	0.003014	-0.0191	mg/L	0.00603	31.48%
Sb†	13.8	0.00813	mg/L	0.002663	0.0163	mg/L	0.00533	32.77%
Se†	-28.5	-0.0285	mg/L	0.00973	-0.0571	mg/L	0.01946	34.10%
Tl†	22.9	0.0105	mg/L	0.00344	0.0209	mg/L	0.00689	32.88%
V†	2093.2	0.0152	mg/L	0.00009	0.0303	mg/L	0.00018	0.61%
Zn†	4.4	0.00009	mg/L	0.000093	0.00018	mg/L	0.000186	105.75%

Sequence No.: 60
Sample ID: 2805070239MS_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 72
Date Collected: 5/18/2008 21:19:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070239MS_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805070239MS_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	358762.9	87.4	%	0.14				0.16%
Yr	405009.0	82.6	%	2.95				3.57%
Ag†	62113.6	0.257	mg/L	0.0038	0.515	mg/L	0.0075	1.46%
Al†	9469.0	1.13	mg/L	0.060	2.25	mg/L	0.119	5.29%
As†	923.9	0.576	mg/L	0.0036	1.15	mg/L	0.007	0.63%
B_†	47802.9	1.88	mg/L	0.038	3.76	mg/L	0.077	2.04%
Ba†	20781.8	0.521	mg/L	0.0071	1.04	mg/L	0.014	1.37%
Be†	65667.6	0.0264	mg/L	0.00043	0.0527	mg/L	0.00085	1.62%
Ca†	5621482.2	182	mg/L	8.3	364	mg/L	16.6	4.56%
Cd†	2286.0	0.101	mg/L	0.0003	0.203	mg/L	0.0005	0.25%
Co†	7529.4	0.524	mg/L	0.0022	1.05	mg/L	0.004	0.42%
Cr†	28308.7	0.691	mg/L	0.0099	1.38	mg/L	0.020	1.43%
Cu†	155768.8	0.522	mg/L	0.0071	1.04	mg/L	0.014	1.35%
Fe†	28765.6	2.30	mg/L	0.124	4.59	mg/L	0.247	5.38%
K†	37738.9	28.6	mg/L	1.13	57.2	mg/L	2.26	3.96%
Mg†	1801733.4	83.5	mg/L	3.89	167	mg/L	7.8	4.67%
Mn†	129209.9	0.271	mg/L	0.0043	0.541	mg/L	0.0086	1.59%
Mo†	5182.7	0.520	mg/L	0.0030	1.04	mg/L	0.006	0.57%
Na†	2379403.4	442	mg/L	20.3	884	mg/L	40.6	4.60%
Ni†	4613.8	0.248	mg/L	0.0017	0.497	mg/L	0.0033	0.67%
Pb†	1899.9	0.502	mg/L	0.0072	1.00	mg/L	0.014	1.43%
Sb†	425.2	0.265	mg/L	0.0006	0.530	mg/L	0.0012	0.22%
Se†	496.1	0.502	mg/L	0.0031	1.00	mg/L	0.006	0.62%
Tl†	1112.2	0.506	mg/L	0.0028	1.01	mg/L	0.006	0.56%
V†	77792.0	0.536	mg/L	0.0094	1.07	mg/L	0.019	1.76%
Zn†	20605.8	0.540	mg/L	0.0090	1.08	mg/L	0.018	1.66%

Sequence No.: 61
Sample ID: 2805070239MSD_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 73
Date Collected: 5/18/2008 21:23:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805070239MSD_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805070239MSD_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	361557.9	88.1	%	0.25				0.29%
Yr	410083.5	83.6	%	0.59				0.71%
Agt	61957.0	0.257	mg/L	0.0006	0.514	mg/L	0.0011	0.22%
Alt	9287.9	1.10	mg/L	0.005	2.21	mg/L	0.010	0.46%
Ast	906.2	0.565	mg/L	0.0025	1.13	mg/L	0.005	0.45%
B_t	47331.2	1.86	mg/L	0.004	3.72	mg/L	0.008	0.22%
Bat	20770.2	0.521	mg/L	0.0021	1.04	mg/L	0.004	0.41%
Bet	65524.2	0.0263	mg/L	0.00008	0.0526	mg/L	0.00017	0.31%
Cat	5412767.3	175	mg/L	0.5	350	mg/L	1.1	0.30%
Cdt	2256.2	0.100	mg/L	0.0000	0.200	mg/L	0.0000	0.01%
Cot	7446.4	0.518	mg/L	0.0014	1.04	mg/L	0.003	0.28%
Crt	28280.1	0.690	mg/L	0.0001	1.38	mg/L	0.000	0.01%
Cut	154918.5	0.519	mg/L	0.0002	1.04	mg/L	0.000	0.04%
Fet	27940.3	2.23	mg/L	0.018	4.46	mg/L	0.036	0.81%
Kt	36863.4	27.9	mg/L	0.22	55.9	mg/L	0.45	0.80%
Mgt	1731668.2	80.2	mg/L	0.11	160	mg/L	0.2	0.14%
Mnt	128777.2	0.270	mg/L	0.0009	0.539	mg/L	0.0019	0.34%
Mot	5125.2	0.514	mg/L	0.0014	1.03	mg/L	0.003	0.27%
Nat	2269218.1	422	mg/L	0.3	843	mg/L	0.6	0.07%
Nit	4557.9	0.245	mg/L	0.0003	0.491	mg/L	0.0006	0.11%
Pbt	1876.0	0.496	mg/L	0.0004	0.992	mg/L	0.0009	0.09%
Sbt	423.4	0.264	mg/L	0.0019	0.528	mg/L	0.0037	0.70%
Set	498.5	0.504	mg/L	0.0105	1.01	mg/L	0.021	2.08%
Tlt	1103.5	0.502	mg/L	0.0020	1.00	mg/L	0.004	0.39%
Vt	77683.1	0.535	mg/L	0.0013	1.07	mg/L	0.003	0.25%
Znt	20568.1	0.539	mg/L	0.0014	1.08	mg/L	0.003	0.27%

Sequence No.: 62
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2008 21:26:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	380871.7	92.8	%	0.22				0.23%
Yr	422261.6	86.1	%	0.40				0.46%
Ag†	243921.3	1.01	mg/L	0.000	1.01	mg/L	0.000	0.05%
QC value within limits for Ag Recovery = 100.95%								
Al†	47797.9	5.60	mg/L	0.011	5.60	mg/L	0.011	0.20%
QC value greater than the upper limit for Al Recovery = 111.90%								
As†	7712.9	4.81	mg/L	0.018	4.81	mg/L	0.018	0.37%
QC value within limits for As Recovery = 96.24%								
B_†	66362.5	2.57	mg/L	0.012	2.57	mg/L	0.012	0.48%
QC value within limits for B_ Recovery = 102.70%								
Ba†	204159.1	5.12	mg/L	0.012	5.12	mg/L	0.012	0.24%
QC value within limits for Ba Recovery = 102.33%								
Be†	5363545.3	2.15	mg/L	0.011	2.15	mg/L	0.011	0.53%
QC value within limits for Be Recovery = 107.33%								
Ca†	1489716.7	48.2	mg/L	0.83	48.2	mg/L	0.83	1.71%
QC value within limits for Ca Recovery = 96.36%								
Cd†	43765.6	2.01	mg/L	0.001	2.01	mg/L	0.001	0.06%
QC value within limits for Cd Recovery = 100.58%								
Co†	77664.3	5.41	mg/L	0.004	5.41	mg/L	0.004	0.08%
QC value within limits for Co Recovery = 108.11%								
Cr†	218387.7	5.33	mg/L	0.023	5.33	mg/L	0.023	0.43%
QC value within limits for Cr Recovery = 106.62%								
Cu†	1519099.0	5.09	mg/L	0.005	5.09	mg/L	0.005	0.10%
QC value within limits for Cu Recovery = 101.85%								
Fe†	56107.4	4.48	mg/L	0.005	4.48	mg/L	0.005	0.11%
QC value less than the lower limit for Fe Recovery = 89.62%								
K†	73106.0	55.4	mg/L	0.34	55.4	mg/L	0.34	0.61%
QC value greater than the upper limit for K Recovery = 110.77%								
Mg†	1022623.3	47.4	mg/L	0.05	47.4	mg/L	0.05	0.12%
QC value within limits for Mg Recovery = 94.75%								
Mn†	2491854.5	5.25	mg/L	0.010	5.25	mg/L	0.010	0.19%
QC value within limits for Mn Recovery = 105.06%								
Mo†	51112.4	5.13	mg/L	0.012	5.13	mg/L	0.012	0.23%
QC value within limits for Mo Recovery = 102.62%								
Na†	274868.6	51.1	mg/L	0.07	51.1	mg/L	0.07	0.13%
QC value within limits for Na Recovery = 102.12%								
Ni†	97905.9	5.27	mg/L	0.013	5.27	mg/L	0.013	0.25%
QC value within limits for Ni Recovery = 105.45%								
Pb†	19918.5	5.27	mg/L	0.023	5.27	mg/L	0.023	0.44%
QC value within limits for Pb Recovery = 105.31%								
Sb†	7828.3	4.87	mg/L	0.020	4.87	mg/L	0.020	0.42%
QC value within limits for Sb Recovery = 97.44%								
Se†	4967.9	4.98	mg/L	0.010	4.98	mg/L	0.010	0.20%
QC value within limits for Se Recovery = 99.63%								
Tl†	11593.6	5.29	mg/L	0.005	5.29	mg/L	0.005	0.09%
QC value within limits for Tl Recovery = 105.74%								
V†	755552.9	5.19	mg/L	0.005	5.19	mg/L	0.005	0.10%
QC value within limits for V Recovery = 103.88%								
Zn†	200690.8	5.24	mg/L	0.002	5.24	mg/L	0.002	0.04%
QC value within limits for Zn Recovery = 104.86%								

QC Failed. Retry.

Sequence No.: 63
Sample ID: CCV

Autosampler Location: 4
Date Collected: 5/18/2008 21:28:56

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	378579.5	92.3	%	0.02				0.02%
Yr	420795.2	85.8	%	1.14				1.33%
Ag†	243840.9	1.01	mg/L	0.001	1.01	mg/L	0.001	0.09%
QC value within limits for Ag Recovery = 100.91%								
Al†	47858.4	5.60	mg/L	0.013	5.60	mg/L	0.013	0.24%
QC value greater than the upper limit for Al Recovery = 112.03%								
As†	7721.2	4.82	mg/L	0.017	4.82	mg/L	0.017	0.35%
QC value within limits for As Recovery = 96.35%								
B_†	67035.7	2.59	mg/L	0.001	2.59	mg/L	0.001	0.05%
QC value within limits for B_ Recovery = 103.77%								
Ba†	204955.7	5.14	mg/L	0.008	5.14	mg/L	0.008	0.15%
QC value within limits for Ba Recovery = 102.73%								
Be†	5327065.5	2.13	mg/L	0.001	2.13	mg/L	0.001	0.04%
QC value within limits for Be Recovery = 106.60%								
Ca†	1480657.8	47.9	mg/L	0.49	47.9	mg/L	0.49	1.02%
QC value within limits for Ca Recovery = 95.78%								
Cd†	43850.8	2.02	mg/L	0.003	2.02	mg/L	0.003	0.17%
QC value within limits for Cd Recovery = 100.78%								
Co†	77847.3	5.42	mg/L	0.008	5.42	mg/L	0.008	0.15%
QC value within limits for Co Recovery = 108.37%								
Cr†	218989.2	5.35	mg/L	0.023	5.35	mg/L	0.023	0.43%
QC value within limits for Cr Recovery = 106.91%								
Cu†	1516485.1	5.08	mg/L	0.007	5.08	mg/L	0.007	0.14%
QC value within limits for Cu Recovery = 101.67%								
Fe†	54657.6	4.37	mg/L	0.007	4.37	mg/L	0.007	0.17%
QC value less than the lower limit for Fe Recovery = 87.30%								
K†	72808.7	55.2	mg/L	0.24	55.2	mg/L	0.24	0.43%
QC value greater than the upper limit for K Recovery = 110.32%								
Mg†	1008016.8	46.7	mg/L	0.01	46.7	mg/L	0.01	0.03%
QC value within limits for Mg Recovery = 93.40%								
Mn†	2497875.7	5.27	mg/L	0.001	5.27	mg/L	0.001	0.02%
QC value within limits for Mn Recovery = 105.31%								
Mo†	51378.8	5.16	mg/L	0.008	5.16	mg/L	0.008	0.15%
QC value within limits for Mo Recovery = 103.15%								
Na†	270847.7	50.3	mg/L	0.27	50.3	mg/L	0.27	0.54%
QC value within limits for Na Recovery = 100.63%								
Ni†	98028.5	5.28	mg/L	0.010	5.28	mg/L	0.010	0.20%
QC value within limits for Ni Recovery = 105.58%								
Pb†	19890.5	5.26	mg/L	0.002	5.26	mg/L	0.002	0.04%
QC value within limits for Pb Recovery = 105.16%								
Sb†	7839.2	4.88	mg/L	0.008	4.88	mg/L	0.008	0.16%
QC value within limits for Sb Recovery = 97.58%								
Se†	4972.0	4.99	mg/L	0.016	4.99	mg/L	0.016	0.32%
QC value within limits for Se Recovery = 99.71%								
Tl†	11607.0	5.29	mg/L	0.012	5.29	mg/L	0.012	0.23%
QC value within limits for Tl Recovery = 105.87%								
V†	757123.9	5.20	mg/L	0.002	5.20	mg/L	0.002	0.04%
QC value within limits for V Recovery = 104.10%								
Zn†	200765.6	5.24	mg/L	0.001	5.24	mg/L	0.001	0.03%
QC value within limits for Zn Recovery = 104.90%								

QC Failed. Retry.

Sequence No.: 64
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 5/18/2008 21:31:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	214.0 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	382076.2	93.1	%	0.52				0.56%
Yr	421790.6	86.0	%	0.94				1.09%
Ag†	243258.0	1.01	mg/L	0.001	1.01	mg/L	0.001	0.05%
QC value within limits for Ag Recovery = 100.68%								
Al†	48113.8	5.63	mg/L	0.006	5.63	mg/L	0.006	0.11%
QC value greater than the upper limit for Al Recovery = 112.66%								
As†	7720.4	4.82	mg/L	0.040	4.82	mg/L	0.040	0.83%
QC value within limits for As Recovery = 96.34%								
B_†	67220.6	2.60	mg/L	0.001	2.60	mg/L	0.001	0.04%
QC value within limits for B_ Recovery = 104.06%								
Ba†	203505.0	5.10	mg/L	0.021	5.10	mg/L	0.021	0.42%
QC value within limits for Ba Recovery = 102.00%								
Be†	5347071.8	2.14	mg/L	0.019	2.14	mg/L	0.019	0.89%
QC value within limits for Be Recovery = 107.00%								
Ca†	1447428.8	46.8	mg/L	0.51	46.8	mg/L	0.51	1.09%
QC value within limits for Ca Recovery = 93.63%								
Cd†	43593.4	2.00	mg/L	0.005	2.00	mg/L	0.005	0.27%
QC value within limits for Cd Recovery = 100.17%								
Co†	77570.9	5.40	mg/L	0.026	5.40	mg/L	0.026	0.47%
QC value within limits for Co Recovery = 107.98%								
Cr†	218707.3	5.34	mg/L	0.020	5.34	mg/L	0.020	0.37%
QC value within limits for Cr Recovery = 106.77%								
Cu†	1510032.5	5.06	mg/L	0.006	5.06	mg/L	0.006	0.12%
QC value within limits for Cu Recovery = 101.24%								
Fe†	55210.8	4.41	mg/L	0.018	4.41	mg/L	0.018	0.42%
QC value less than the lower limit for Fe Recovery = 88.18%								
K†	73504.5	55.7	mg/L	0.07	55.7	mg/L	0.07	0.13%
QC value greater than the upper limit for K Recovery = 111.37%								
Mg†	1008815.8	46.7	mg/L	0.13	46.7	mg/L	0.13	0.28%
QC value within limits for Mg Recovery = 93.47%								
Mn†	2487387.5	5.24	mg/L	0.017	5.24	mg/L	0.017	0.33%
QC value within limits for Mn Recovery = 104.87%								
Mo†	51194.3	5.14	mg/L	0.012	5.14	mg/L	0.012	0.23%
QC value within limits for Mo Recovery = 102.78%								
Na†	269825.3	50.1	mg/L	0.00	50.1	mg/L	0.00	0.01%
QC value within limits for Na Recovery = 100.25%								
Ni†	97755.2	5.26	mg/L	0.006	5.26	mg/L	0.006	0.11%
QC value within limits for Ni Recovery = 105.29%								
Pb†	19926.8	5.27	mg/L	0.035	5.27	mg/L	0.035	0.66%
QC value within limits for Pb Recovery = 105.35%								
Sb†	7809.7	4.86	mg/L	0.018	4.86	mg/L	0.018	0.36%
QC value within limits for Sb Recovery = 97.21%								
Se†	4954.9	4.97	mg/L	0.026	4.97	mg/L	0.026	0.52%
QC value within limits for Se Recovery = 99.37%								
Tl†	11595.0	5.29	mg/L	0.025	5.29	mg/L	0.025	0.47%
QC value within limits for Tl Recovery = 105.75%								
V†	753857.7	5.18	mg/L	0.010	5.18	mg/L	0.010	0.20%
QC value within limits for V Recovery = 103.65%								
Zn†	200269.5	5.23	mg/L	0.005	5.23	mg/L	0.005	0.10%
QC value within limits for Zn Recovery = 104.64%								

QC Failed. Continue with analysis.

Sequence No.: 65
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 21:34:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	405916.0	98.9	%	0.69				0.70%
Yr	435931.1	88.9	%	0.07				0.08%
Ag†	61.8	0.00026	mg/L	0.000048	0.00026	mg/L	0.000048	18.74%
QC value within limits for Ag Recovery = Not calculated								
Al†	-4.6	-0.00061	mg/L	0.001108	-0.00061	mg/L	0.001108	181.57%
QC value within limits for Al Recovery = Not calculated								
As†	20.1	0.0126	mg/L	0.00044	0.0126	mg/L	0.00044	3.46%
QC value within limits for As Recovery = Not calculated								
B_†	1658.0	0.0653	mg/L	0.00138	0.0653	mg/L	0.00138	2.11%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	0.3	0.00001	mg/L	0.000030	0.00001	mg/L	0.000030	443.63%
QC value within limits for Ba Recovery = Not calculated								
Be†	112.7	0.00005	mg/L	0.000005	0.00005	mg/L	0.000005	11.09%
QC value within limits for Be Recovery = Not calculated								
Ca†	-82.2	-0.00266	mg/L	0.000778	-0.00266	mg/L	0.000778	29.28%
QC value within limits for Ca Recovery = Not calculated								
Cd†	6.9	0.00015	mg/L	0.000102	0.00015	mg/L	0.000102	67.20%
QC value within limits for Cd Recovery = Not calculated								
Co†	-2.2	-0.00016	mg/L	0.000186	-0.00016	mg/L	0.000186	119.42%
QC value within limits for Co Recovery = Not calculated								
Cr†	0.1	0.00000	mg/L	0.000023	0.00000	mg/L	0.000023	852.96%
QC value within limits for Cr Recovery = Not calculated								
Cu†	57.9	0.00019	mg/L	0.000078	0.00019	mg/L	0.000078	40.00%
QC value within limits for Cu Recovery = Not calculated								
Fe†	22.3	0.00178	mg/L	0.000391	0.00178	mg/L	0.000391	22.02%
QC value within limits for Fe Recovery = Not calculated								
K†	120.3	0.0911	mg/L	0.01444	0.0911	mg/L	0.01444	15.85%
QC value within limits for K Recovery = Not calculated								
Mg†	62.1	0.00288	mg/L	0.000199	0.00288	mg/L	0.000199	6.90%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-126.9	-0.00027	mg/L	0.000014	-0.00027	mg/L	0.000014	5.38%
QC value within limits for Mn Recovery = Not calculated								
Mo†	15.6	0.00156	mg/L	0.000382	0.00156	mg/L	0.000382	24.44%
QC value within limits for Mo Recovery = Not calculated								
Na†	721.4	0.134	mg/L	0.0003	0.134	mg/L	0.0003	0.25%
QC value within limits for Na Recovery = Not calculated								
Ni†	6.7	0.00036	mg/L	0.000146	0.00036	mg/L	0.000146	40.24%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-1.1	-0.00029	mg/L	0.000030	-0.00029	mg/L	0.000030	10.41%
QC value within limits for Pb Recovery = Not calculated								
Sb†	6.6	0.00406	mg/L	0.001906	0.00406	mg/L	0.001906	46.93%
QC value within limits for Sb Recovery = Not calculated								
Se†	2.8	0.00283	mg/L	0.003876	0.00283	mg/L	0.003876	136.89%
QC value within limits for Se Recovery = Not calculated								
Tl†	3.3	0.00147	mg/L	0.000048	0.00147	mg/L	0.000048	3.23%
QC value within limits for Tl Recovery = Not calculated								
V†	19.7	0.00014	mg/L	0.000031	0.00014	mg/L	0.000031	23.04%
QC value within limits for V Recovery = Not calculated								
Zn†	12.1	0.00032	mg/L	0.000109	0.00032	mg/L	0.000109	34.62%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 66
Sample ID: CCB

Autosampler Location: 0
Date Collected: 5/18/2008 21:37:17

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	407877.0	99.4	%	0.33				0.33%
Yr	436307.8	89.0	%	0.98				1.10%
Ag†	106.8	0.00044	mg/L	0.000069	0.00044	mg/L	0.000069	15.63%
QC value within limits for Ag	Recovery = Not calculated							
Al†	59.7	0.00718	mg/L	0.003082	0.00718	mg/L	0.003082	42.91%
QC value within limits for Al	Recovery = Not calculated							
As†	10.2	0.00637	mg/L	0.001400	0.00637	mg/L	0.001400	21.99%
QC value within limits for As	Recovery = Not calculated							
B_†	1326.2	0.0522	mg/L	0.00111	0.0522	mg/L	0.00111	2.13%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	3.2	0.00008	mg/L	0.000045	0.00008	mg/L	0.000045	55.63%
QC value within limits for Ba	Recovery = Not calculated							
Be†	130.6	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	21.39%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-84.3	-0.00272	mg/L	0.001757	-0.00272	mg/L	0.001757	64.48%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-1.2	-0.00014	mg/L	0.000014	-0.00014	mg/L	0.000014	9.50%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.9	0.00006	mg/L	0.000032	0.00006	mg/L	0.000032	52.13%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-3.1	-0.00008	mg/L	0.000020	-0.00008	mg/L	0.000020	26.70%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	0.5	0.00000	mg/L	0.000204	0.00000	mg/L	0.000204	>999.9%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	19.9	0.00159	mg/L	0.000037	0.00159	mg/L	0.000037	2.33%
QC value within limits for Fe	Recovery = Not calculated							
K†	80.4	0.0609	mg/L	0.02028	0.0609	mg/L	0.02028	33.32%
QC value within limits for K	Recovery = Not calculated							
Mg†	54.0	0.00250	mg/L	0.000483	0.00250	mg/L	0.000483	19.30%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-150.9	-0.00032	mg/L	0.000009	-0.00032	mg/L	0.000009	2.83%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	10.3	0.00103	mg/L	0.000222	0.00103	mg/L	0.000222	21.48%
QC value within limits for Mo	Recovery = Not calculated							
Na†	718.8	0.134	mg/L	0.0042	0.134	mg/L	0.0042	3.18%
QC value within limits for Na	Recovery = Not calculated							
Ni†	6.6	0.00036	mg/L	0.000191	0.00036	mg/L	0.000191	53.82%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-2.5	-0.00066	mg/L	0.000463	-0.00066	mg/L	0.000463	70.06%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	4.5	0.00279	mg/L	0.000418	0.00279	mg/L	0.000418	14.97%
QC value within limits for Sb	Recovery = Not calculated							
Se†	3.4	0.00344	mg/L	0.003059	0.00344	mg/L	0.003059	89.00%
QC value within limits for Se	Recovery = Not calculated							
Tl†	3.8	0.00173	mg/L	0.001470	0.00173	mg/L	0.001470	85.13%
QC value within limits for Tl	Recovery = Not calculated							
V†	19.1	0.00013	mg/L	0.000109	0.00013	mg/L	0.000109	83.28%
QC value within limits for V	Recovery = Not calculated							
Zn†	0.6	0.00001	mg/L	0.000104	0.00001	mg/L	0.000104	832.43%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

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

Autosampler Location: 0
Date Collected: 5/18/2008 21:39:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	405992.5	98.9	%	0.81				0.82%
Yr	435261.5	88.8	%	1.45				1.64%
Ag†	124.6	0.00052	mg/L	0.000139	0.00052	mg/L	0.000139	27.05%
QC value within limits for Ag Recovery = Not calculated								
Al†	53.2	0.00641	mg/L	0.000389	0.00641	mg/L	0.000389	6.06%
QC value within limits for Al Recovery = Not calculated								
As†	10.3	0.00645	mg/L	0.000446	0.00645	mg/L	0.000446	6.92%
QC value within limits for As Recovery = Not calculated								
B_†	1163.6	0.0458	mg/L	0.00048	0.0458	mg/L	0.00048	1.04%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.5	-0.00001	mg/L	0.000036	-0.00001	mg/L	0.000036	294.34%
QC value within limits for Ba Recovery = Not calculated								
Be†	177.7	0.00007	mg/L	0.000004	0.00007	mg/L	0.000004	6.15%
QC value within limits for Be Recovery = Not calculated								
Ca†	-123.2	-0.00398	mg/L	0.002079	-0.00398	mg/L	0.002079	52.19%
QC value within limits for Ca Recovery = Not calculated								
Cd†	1.1	-0.00004	mg/L	0.000137	-0.00004	mg/L	0.000137	383.97%
QC value within limits for Cd Recovery = Not calculated								
Co†	-0.2	-0.00002	mg/L	0.000276	-0.00002	mg/L	0.000276	>999.9%
QC value within limits for Co Recovery = Not calculated								
Cr†	-9.4	-0.00023	mg/L	0.000146	-0.00023	mg/L	0.000146	63.59%
QC value within limits for Cr Recovery = Not calculated								
Cu†	18.4	0.00006	mg/L	0.000268	0.00006	mg/L	0.000268	436.43%
QC value within limits for Cu Recovery = Not calculated								
Fe†	14.6	0.00117	mg/L	0.000412	0.00117	mg/L	0.000412	35.33%
QC value within limits for Fe Recovery = Not calculated								
K†	6.2	0.00467	mg/L	0.034591	0.00467	mg/L	0.034591	740.96%
QC value within limits for K Recovery = Not calculated								
Mg†	49.5	0.00230	mg/L	0.000649	0.00230	mg/L	0.000649	28.26%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-163.2	-0.00034	mg/L	0.000001	-0.00034	mg/L	0.000001	0.17%
QC value within limits for Mn Recovery = Not calculated								
Mo†	6.4	0.00064	mg/L	0.000027	0.00064	mg/L	0.000027	4.30%
QC value within limits for Mo Recovery = Not calculated								
Na†	710.3	0.132	mg/L	0.0015	0.132	mg/L	0.0015	1.17%
QC value within limits for Na Recovery = Not calculated								
Ni†	11.0	0.00059	mg/L	0.000228	0.00059	mg/L	0.000228	38.59%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-3.2	-0.00084	mg/L	0.000766	-0.00084	mg/L	0.000766	90.74%
QC value within limits for Pb Recovery = Not calculated								
Sb†	0.8	0.00051	mg/L	0.002055	0.00051	mg/L	0.002055	400.05%
QC value within limits for Sb Recovery = Not calculated								
Se†	3.2	0.00324	mg/L	0.005144	0.00324	mg/L	0.005144	158.57%
QC value within limits for Se Recovery = Not calculated								
Tl†	2.1	0.00094	mg/L	0.000079	0.00094	mg/L	0.000079	8.34%
QC value within limits for Tl Recovery = Not calculated								
V†	21.5	0.00015	mg/L	0.000134	0.00015	mg/L	0.000134	91.40%
QC value within limits for V Recovery = Not calculated								
Zn†	1.4	0.00003	mg/L	0.000116	0.00003	mg/L	0.000116	355.85%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Continue with analysis.

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

Autosampler Location: 5
Date Collected: 5/18/2008 21:43:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	214.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	389714.0	95.0	%	0.58				0.61%
Yr	419838.3	85.6	%	0.56				0.66%
Ag†	123028.9	0.509	mg/L	0.0010	0.509	mg/L	0.0010	0.19%
QC value within limits for Ag Recovery = 101.84%								
Al†	24226.9	2.84	mg/L	0.002	2.84	mg/L	0.002	0.08%
QC value greater than the upper limit for Al Recovery = 113.42%								
As†	3855.3	2.41	mg/L	0.018	2.41	mg/L	0.018	0.77%
QC value within limits for As Recovery = 96.22%								
B_†	33499.4	1.30	mg/L	0.004	1.30	mg/L	0.004	0.30%
QC value within limits for B_ Recovery = 103.67%								
Ba†	104284.4	2.61	mg/L	0.012	2.61	mg/L	0.012	0.47%
QC value within limits for Ba Recovery = 104.54%								
Be†	2709711.4	1.08	mg/L	0.004	1.08	mg/L	0.004	0.39%
QC value within limits for Be Recovery = 108.45%								
Ca†	752795.7	24.3	mg/L	0.01	24.3	mg/L	0.01	0.05%
QC value within limits for Ca Recovery = 97.39%								
Cd†	21961.5	1.01	mg/L	0.006	1.01	mg/L	0.006	0.55%
QC value within limits for Cd Recovery = 100.97%								
Co†	39789.1	2.77	mg/L	0.014	2.77	mg/L	0.014	0.49%
QC value greater than the upper limit for Co Recovery = 110.78%								
Cr†	111576.7	2.72	mg/L	0.000	2.72	mg/L	0.000	0.01%
QC value within limits for Cr Recovery = 108.94%								
Cu†	773944.1	2.59	mg/L	0.005	2.59	mg/L	0.005	0.18%
QC value within limits for Cu Recovery = 103.78%								
Fe†	28565.8	2.28	mg/L	0.001	2.28	mg/L	0.001	0.06%
QC value within limits for Fe Recovery = 91.25%								
K†	36290.1	27.5	mg/L	0.10	27.5	mg/L	0.10	0.35%
QC value within limits for K Recovery = 109.97%								
Mg†	521827.4	24.2	mg/L	0.03	24.2	mg/L	0.03	0.14%
QC value within limits for Mg Recovery = 96.70%								
Mn†	1286999.5	2.71	mg/L	0.005	2.71	mg/L	0.005	0.17%
QC value within limits for Mn Recovery = 108.52%								
Mo†	26042.4	2.61	mg/L	0.018	2.61	mg/L	0.018	0.68%
QC value within limits for Mo Recovery = 104.57%								
Na†	133532.0	24.8	mg/L	0.04	24.8	mg/L	0.04	0.15%
QC value within limits for Na Recovery = 99.22%								
Ni†	50330.2	2.71	mg/L	0.007	2.71	mg/L	0.007	0.26%
QC value within limits for Ni Recovery = 108.42%								
Pb†	10264.4	2.71	mg/L	0.017	2.71	mg/L	0.017	0.63%
QC value within limits for Pb Recovery = 108.53%								
Sb†	3965.1	2.47	mg/L	0.019	2.47	mg/L	0.019	0.77%
QC value within limits for Sb Recovery = 98.70%								
Se†	2494.9	2.50	mg/L	0.027	2.50	mg/L	0.027	1.08%
QC value within limits for Se Recovery = 100.08%								
Tl†	6004.5	2.74	mg/L	0.020	2.74	mg/L	0.020	0.72%
QC value within limits for Tl Recovery = 109.53%								
V†	380296.1	2.61	mg/L	0.005	2.61	mg/L	0.005	0.19%
QC value within limits for V Recovery = 104.58%								
Zn†	101983.3	2.66	mg/L	0.002	2.66	mg/L	0.002	0.09%
QC value within limits for Zn Recovery = 106.56%								

QC Failed. Retry.

Sequence No.: 69
Sample ID: MCV

Autosampler Location: 5
Date Collected: 5/18/2008 21:45:23

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	386873.0	94.3	%	0.10				0.11%
Yr	416584.5	85.0	%	1.07				1.26%
Ag†	122726.1	0.508	mg/L	0.0020	0.508	mg/L	0.0020	0.38%
QC value within limits for Ag Recovery = 101.59%								
Al†	24736.9	2.90	mg/L	0.068	2.90	mg/L	0.068	2.33%
QC value greater than the upper limit for Al Recovery = 115.87%								
As†	3879.6	2.42	mg/L	0.013	2.42	mg/L	0.013	0.54%
QC value within limits for As Recovery = 96.82%								
B_†	33830.7	1.31	mg/L	0.007	1.31	mg/L	0.007	0.51%
QC value within limits for B_ Recovery = 104.71%								
Ba†	104515.7	2.62	mg/L	0.003	2.62	mg/L	0.003	0.13%
QC value within limits for Ba Recovery = 104.77%								
Be†	2705471.6	1.08	mg/L	0.002	1.08	mg/L	0.002	0.15%
QC value within limits for Be Recovery = 108.28%								
Ca†	744164.4	24.1	mg/L	0.03	24.1	mg/L	0.03	0.14%
QC value within limits for Ca Recovery = 96.27%								
Cd†	22047.5	1.01	mg/L	0.004	1.01	mg/L	0.004	0.39%
QC value within limits for Cd Recovery = 101.35%								
Co†	39547.2	2.75	mg/L	0.011	2.75	mg/L	0.011	0.41%
QC value greater than the upper limit for Co Recovery = 110.10%								
Cr†	111181.2	2.71	mg/L	0.014	2.71	mg/L	0.014	0.51%
QC value within limits for Cr Recovery = 108.56%								
Cu†	775590.1	2.60	mg/L	0.013	2.60	mg/L	0.013	0.52%
QC value within limits for Cu Recovery = 104.00%								
Fe†	28191.5	2.25	mg/L	0.032	2.25	mg/L	0.032	1.42%
QC value within limits for Fe Recovery = 90.06%								
K†	37366.6	28.3	mg/L	0.58	28.3	mg/L	0.58	2.05%
QC value greater than the upper limit for K Recovery = 113.24%								
Mg†	516944.4	23.9	mg/L	0.49	23.9	mg/L	0.49	2.03%
QC value within limits for Mg Recovery = 95.79%								
Mn†	1286301.7	2.71	mg/L	0.007	2.71	mg/L	0.007	0.24%
QC value within limits for Mn Recovery = 108.46%								
Mo†	26126.3	2.62	mg/L	0.014	2.62	mg/L	0.014	0.53%
QC value within limits for Mo Recovery = 104.91%								
Na†	134608.9	25.0	mg/L	0.55	25.0	mg/L	0.55	2.20%
QC value within limits for Na Recovery = 100.02%								
Ni†	50173.7	2.70	mg/L	0.008	2.70	mg/L	0.008	0.29%
QC value within limits for Ni Recovery = 108.08%								
Pb†	10282.6	2.72	mg/L	0.012	2.72	mg/L	0.012	0.45%
QC value within limits for Pb Recovery = 108.73%								
Sb†	3973.6	2.47	mg/L	0.009	2.47	mg/L	0.009	0.37%
QC value within limits for Sb Recovery = 98.92%								
Se†	2509.8	2.52	mg/L	0.006	2.52	mg/L	0.006	0.26%
QC value within limits for Se Recovery = 100.67%								
Tl†	6044.0	2.76	mg/L	0.015	2.76	mg/L	0.015	0.56%
QC value greater than the upper limit for Tl Recovery = 110.24%								
V†	380186.4	2.61	mg/L	0.008	2.61	mg/L	0.008	0.29%
QC value within limits for V Recovery = 104.55%								
Zn†	101798.0	2.66	mg/L	0.003	2.66	mg/L	0.003	0.10%
QC value within limits for Zn Recovery = 106.37%								

QC Failed. Continue with analysis.

Sequence No.: 70
Sample ID: 2805060319_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 74
Date Collected: 5/18/2008 21:49:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060319_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805060319_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	348558.5	84.9	%	0.01				0.01%
Yr	395775.8	80.7	%	0.20				0.25%
Ag†	-71.9	-0.00029	mg/L	0.000487	-0.00059	mg/L	0.000975	165.63%
Al†	112.6	0.0131	mg/L	0.00031	0.0261	mg/L	0.00062	2.38%
As†	140.0	0.0874	mg/L	0.00016	0.175	mg/L	0.0003	0.18%
B_†	113563.0	4.47	mg/L	0.005	8.94	mg/L	0.010	0.12%
Ba†	242.5	0.00608	mg/L	0.000060	0.0122	mg/L	0.00012	0.99%
Be†	-1310.9	-0.00042	mg/L	0.000008	-0.00083	mg/L	0.000016	1.96%
Ca†	8243864.9	267	mg/L	2.1	533	mg/L	4.3	0.80%
Cd†	19.4	-0.00030	mg/L	0.000117	-0.00059	mg/L	0.000234	39.63%
Co†	-6.1	-0.00042	mg/L	0.000376	-0.00085	mg/L	0.000751	88.61%
Cr†	27335.9	0.667	mg/L	0.0020	1.33	mg/L	0.004	0.29%
Cu†	778.8	0.00262	mg/L	0.000180	0.00524	mg/L	0.000361	6.88%
Fe†	99.3	0.00793	mg/L	0.000415	0.0159	mg/L	0.00083	5.23%
K†	12437.4	9.42	mg/L	0.042	18.8	mg/L	0.08	0.45%
Mg†	1865549.6	86.4	mg/L	0.65	173	mg/L	1.3	0.76%
Mn†	8237.6	0.0154	mg/L	0.00000	0.0309	mg/L	0.00001	0.02%
Mo†	151.5	0.0152	mg/L	0.00005	0.0304	mg/L	0.00009	0.30%
Na†	3125332.0	581	mg/L	2.1	1160	mg/L	4.2	0.36%
Ni†	65.4	0.00352	mg/L	0.000973	0.00704	mg/L	0.001946	27.64%
Pb†	-37.0	-0.00979	mg/L	0.000346	-0.0196	mg/L	0.00069	3.53%
Sb†	30.2	0.0169	mg/L	0.00010	0.0338	mg/L	0.00020	0.59%
Se†	-20.3	-0.0203	mg/L	0.00732	-0.0406	mg/L	0.01465	36.08%
Tl†	38.8	0.0178	mg/L	0.00209	0.0356	mg/L	0.00419	11.75%
V†	5388.8	0.0401	mg/L	0.00002	0.0802	mg/L	0.00004	0.05%
Zn†	90.1	0.00234	mg/L	0.000040	0.00468	mg/L	0.000079	1.70%

Sequence No.: 71
Sample ID: 2805060320_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 75
Date Collected: 5/18/2008 21:53:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2805060320_2X

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: 2805060320_2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	350316.3	85.4	%	0.16				0.19%
Yr	394692.9	80.5	%	0.89				1.11%
Agt	-25.2	-0.00009	mg/L	0.000198	-0.00017	mg/L	0.000397	226.96%
Alt	839.8	0.101	mg/L	0.0040	0.202	mg/L	0.0081	3.98%
Ast	119.9	0.0748	mg/L	0.00025	0.150	mg/L	0.0005	0.33%
B_t	105582.2	4.16	mg/L	0.003	8.31	mg/L	0.006	0.07%
Bat	411.4	0.0103	mg/L	0.00002	0.0206	mg/L	0.00004	0.19%
Bet	-1329.7	-0.00043	mg/L	0.000053	-0.00086	mg/L	0.000106	12.37%
Cat	7866862.8	254	mg/L	1.0	509	mg/L	2.0	0.39%
Cdt	21.2	-0.00004	mg/L	0.000262	-0.00008	mg/L	0.000525	688.10%
Cot	-4.1	-0.00029	mg/L	0.000003	-0.00057	mg/L	0.000006	1.00%
Crt	26207.1	0.640	mg/L	0.0008	1.28	mg/L	0.002	0.13%
Cut	1087.2	0.00365	mg/L	0.000190	0.00731	mg/L	0.000381	5.21%
Fet	574.6	0.0459	mg/L	0.00014	0.0918	mg/L	0.00028	0.30%
Kt	13939.6	10.6	mg/L	0.10	21.1	mg/L	0.20	0.97%
Mgt	1795510.1	83.2	mg/L	0.26	166	mg/L	0.5	0.31%
Mnt	15197.2	0.0302	mg/L	0.00004	0.0603	mg/L	0.00008	0.14%
Mot	108.6	0.0109	mg/L	0.00030	0.0218	mg/L	0.00061	2.78%
Nat	2909552.2	540	mg/L	0.9	1080	mg/L	1.8	0.17%
Nit	18.4	0.00099	mg/L	0.000226	0.00198	mg/L	0.000453	22.83%
Pbt	-16.7	-0.00441	mg/L	0.002773	-0.00881	mg/L	0.005546	62.92%
Sbt	33.3	0.0190	mg/L	0.00304	0.0379	mg/L	0.00607	16.01%
Set	-38.6	-0.0385	mg/L	0.01285	-0.0769	mg/L	0.02569	33.40%
Tlt	29.7	0.0138	mg/L	0.00548	0.0277	mg/L	0.01096	39.59%
Vt	5998.5	0.0441	mg/L	0.00024	0.0883	mg/L	0.00049	0.55%
Znt	275.8	0.00724	mg/L	0.000048	0.0145	mg/L	0.00010	0.66%

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

Autosampler Location: 4
Date Collected: 5/18/2008 22:31:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	378551.3	92.3	%	0.14				0.15%
Yr	387396.0	79.0	%	1.07				1.35%
Ag†	243025.2	1.01	mg/L	0.003	1.01	mg/L	0.003	0.27%
QC value within limits for Ag Recovery = 100.57%								
Al†	50391.5	5.91	mg/L	0.011	5.91	mg/L	0.011	0.18%
QC value greater than the upper limit for Al Recovery = 118.19%								
As†	7621.5	4.76	mg/L	0.011	4.76	mg/L	0.011	0.24%
QC value within limits for As Recovery = 95.10%								
B_†	66200.3	2.56	mg/L	0.020	2.56	mg/L	0.020	0.79%
QC value within limits for B_ Recovery = 102.46%								
Ba†	204306.6	5.12	mg/L	0.009	5.12	mg/L	0.009	0.18%
QC value within limits for Ba Recovery = 102.40%								
Be†	5320430.4	2.13	mg/L	0.016	2.13	mg/L	0.016	0.74%
QC value within limits for Be Recovery = 106.47%								
Ca†	1426320.9	46.1	mg/L	0.72	46.1	mg/L	0.72	1.55%
QC value within limits for Ca Recovery = 92.26%								
Cd†	43475.4	2.00	mg/L	0.007	2.00	mg/L	0.007	0.37%
QC value within limits for Cd Recovery = 99.93%								
Co†	76823.5	5.35	mg/L	0.023	5.35	mg/L	0.023	0.43%
QC value within limits for Co Recovery = 106.94%								
Cr†	217639.2	5.31	mg/L	0.015	5.31	mg/L	0.015	0.28%
QC value within limits for Cr Recovery = 106.25%								
Cu†	1512962.9	5.07	mg/L	0.004	5.07	mg/L	0.004	0.08%
QC value within limits for Cu Recovery = 101.43%								
Fe†	51421.3	4.11	mg/L	0.012	4.11	mg/L	0.012	0.30%
QC value less than the lower limit for Fe Recovery = 82.13%								
K†	76270.6	57.8	mg/L	0.08	57.8	mg/L	0.08	0.14%
QC value greater than the upper limit for K Recovery = 115.57%								
Mg†	959503.4	44.5	mg/L	0.08	44.5	mg/L	0.08	0.19%
QC value less than the lower limit for Mg Recovery = 88.90%								
Mn†	2479545.8	5.23	mg/L	0.012	5.23	mg/L	0.012	0.22%
QC value within limits for Mn Recovery = 104.54%								
Mo†	51002.9	5.12	mg/L	0.020	5.12	mg/L	0.020	0.39%
QC value within limits for Mo Recovery = 102.40%								
Na†	258695.5	48.1	mg/L	0.10	48.1	mg/L	0.10	0.21%
QC value within limits for Na Recovery = 96.11%								
Ni†	97414.6	5.25	mg/L	0.019	5.25	mg/L	0.019	0.37%
QC value within limits for Ni Recovery = 104.92%								
Pb†	19717.0	5.21	mg/L	0.011	5.21	mg/L	0.011	0.20%
QC value within limits for Pb Recovery = 104.24%								
Sb†	7713.9	4.80	mg/L	0.017	4.80	mg/L	0.017	0.36%
QC value within limits for Sb Recovery = 96.02%								
Se†	4904.6	4.92	mg/L	0.019	4.92	mg/L	0.019	0.38%
QC value within limits for Se Recovery = 98.35%								
Tl†	11501.6	5.25	mg/L	0.018	5.25	mg/L	0.018	0.34%
QC value within limits for Tl Recovery = 104.91%								
V†	752376.4	5.17	mg/L	0.025	5.17	mg/L	0.025	0.47%
QC value within limits for V Recovery = 103.44%								
Zn†	199741.0	5.22	mg/L	0.023	5.22	mg/L	0.023	0.45%
QC value within limits for Zn Recovery = 104.36%								

QC Failed. Retry.

Sequence No.: 81
Sample ID: CCV

Autosampler Location: 4
Date Collected: 5/18/2008 22:33:50

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	373827.0	91.1	%	0.45				0.50%
Yr	391551.7	79.9	%	0.10				0.12%
Ag†	242888.3	1.01	mg/L	0.001	1.01	mg/L	0.001	0.15%
QC value within limits for Ag Recovery = 100.51%								
Al†	50410.8	5.91	mg/L	0.005	5.91	mg/L	0.005	0.09%
QC value greater than the upper limit for Al Recovery = 118.23%								
As†	7673.2	4.79	mg/L	0.022	4.79	mg/L	0.022	0.47%
QC value within limits for As Recovery = 95.75%								
B_†	66609.9	2.58	mg/L	0.004	2.58	mg/L	0.004	0.17%
QC value within limits for B_ Recovery = 103.10%								
Ba†	205361.2	5.15	mg/L	0.016	5.15	mg/L	0.016	0.30%
QC value within limits for Ba Recovery = 102.93%								
Be†	5353387.2	2.14	mg/L	0.032	2.14	mg/L	0.032	1.49%
QC value within limits for Be Recovery = 107.13%								
Ca†	1426521.7	46.1	mg/L	0.36	46.1	mg/L	0.36	0.78%
QC value within limits for Ca Recovery = 92.27%								
Cd†	43516.5	2.00	mg/L	0.005	2.00	mg/L	0.005	0.26%
QC value within limits for Cd Recovery = 100.00%								
Co†	76649.9	5.33	mg/L	0.007	5.33	mg/L	0.007	0.12%
QC value within limits for Co Recovery = 106.70%								
Cr†	217075.5	5.30	mg/L	0.000	5.30	mg/L	0.000	0.01%
QC value within limits for Cr Recovery = 105.97%								
Cu†	1515117.4	5.08	mg/L	0.019	5.08	mg/L	0.019	0.37%
QC value within limits for Cu Recovery = 101.58%								
Fe†	52584.7	4.20	mg/L	0.032	4.20	mg/L	0.032	0.75%
QC value less than the lower limit for Fe Recovery = 83.99%								
K†	75643.7	57.3	mg/L	0.09	57.3	mg/L	0.09	0.16%
QC value greater than the upper limit for K Recovery = 114.62%								
Mg†	976112.1	45.2	mg/L	0.09	45.2	mg/L	0.09	0.21%
QC value within limits for Mg Recovery = 90.44%								
Mn†	2484355.2	5.24	mg/L	0.007	5.24	mg/L	0.007	0.14%
QC value within limits for Mn Recovery = 104.74%								
Mo†	50990.4	5.12	mg/L	0.017	5.12	mg/L	0.017	0.33%
QC value within limits for Mo Recovery = 102.37%								
Na†	260110.2	48.3	mg/L	0.06	48.3	mg/L	0.06	0.12%
QC value within limits for Na Recovery = 96.64%								
Ni†	97462.9	5.25	mg/L	0.003	5.25	mg/L	0.003	0.06%
QC value within limits for Ni Recovery = 104.97%								
Pb†	19849.5	5.25	mg/L	0.030	5.25	mg/L	0.030	0.58%
QC value within limits for Pb Recovery = 104.94%								
Sb†	7781.8	4.84	mg/L	0.024	4.84	mg/L	0.024	0.50%
QC value within limits for Sb Recovery = 96.87%								
Se†	4935.9	4.95	mg/L	0.043	4.95	mg/L	0.043	0.87%
QC value within limits for Se Recovery = 98.98%								
Tl†	11627.2	5.30	mg/L	0.029	5.30	mg/L	0.029	0.54%
QC value within limits for Tl Recovery = 106.05%								
V†	752528.2	5.17	mg/L	0.012	5.17	mg/L	0.012	0.24%
QC value within limits for V Recovery = 103.46%								
Zn†	199539.3	5.21	mg/L	0.014	5.21	mg/L	0.014	0.26%
QC value within limits for Zn Recovery = 104.26%								

QC Failed. Retry.

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

Autosampler Location: 4
Date Collected: 5/18/2008 22:35:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	375528.5	91.5	%	0.10				0.11%
Yr	384280.4	78.4	%	0.24				0.30%
Ag†	243307.3	1.01	mg/L	0.001	1.01	mg/L	0.001	0.14%
QC value within limits for Ag Recovery = 100.68%								
Al†	50860.3	5.97	mg/L	0.001	5.97	mg/L	0.001	0.01%
QC value greater than the upper limit for Al Recovery = 119.32%								
As†	7662.4	4.78	mg/L	0.016	4.78	mg/L	0.016	0.34%
QC value within limits for As Recovery = 95.61%								
B_†	67265.6	2.60	mg/L	0.000	2.60	mg/L	0.000	0.00%
QC value within limits for B_ Recovery = 104.13%								
Ba†	205496.0	5.15	mg/L	0.003	5.15	mg/L	0.003	0.06%
QC value within limits for Ba Recovery = 103.00%								
Be†	5293410.1	2.12	mg/L	0.016	2.12	mg/L	0.016	0.74%
QC value within limits for Be Recovery = 105.93%								
Ca†	1415752.5	45.8	mg/L	0.01	45.8	mg/L	0.01	0.02%
QC value within limits for Ca Recovery = 91.58%								
Cd†	43577.6	2.00	mg/L	0.001	2.00	mg/L	0.001	0.04%
QC value within limits for Cd Recovery = 100.15%								
Co†	76835.3	5.35	mg/L	0.018	5.35	mg/L	0.018	0.34%
QC value within limits for Co Recovery = 106.96%								
Cr†	217248.8	5.30	mg/L	0.017	5.30	mg/L	0.017	0.33%
QC value within limits for Cr Recovery = 106.06%								
Cu†	1514865.9	5.08	mg/L	0.004	5.08	mg/L	0.004	0.08%
QC value within limits for Cu Recovery = 101.56%								
Fe†	51379.2	4.10	mg/L	0.024	4.10	mg/L	0.024	0.59%
QC value less than the lower limit for Fe Recovery = 82.06%								
K†	76738.1	58.1	mg/L	0.10	58.1	mg/L	0.10	0.17%
QC value greater than the upper limit for K Recovery = 116.27%								
Mg†	961199.5	44.5	mg/L	0.12	44.5	mg/L	0.12	0.27%
QC value less than the lower limit for Mg Recovery = 89.06%								
Mn†	2488627.1	5.25	mg/L	0.001	5.25	mg/L	0.001	0.01%
QC value within limits for Mn Recovery = 104.92%								
Mo†	51026.6	5.12	mg/L	0.004	5.12	mg/L	0.004	0.08%
QC value within limits for Mo Recovery = 102.44%								
Na†	259078.1	48.1	mg/L	0.03	48.1	mg/L	0.03	0.06%
QC value within limits for Na Recovery = 96.25%								
Ni†	97624.4	5.26	mg/L	0.009	5.26	mg/L	0.009	0.17%
QC value within limits for Ni Recovery = 105.15%								
Pb†	19849.7	5.25	mg/L	0.011	5.25	mg/L	0.011	0.21%
QC value within limits for Pb Recovery = 104.94%								
Sb†	7781.6	4.84	mg/L	0.022	4.84	mg/L	0.022	0.46%
QC value within limits for Sb Recovery = 96.87%								
Se†	4919.6	4.93	mg/L	0.012	4.93	mg/L	0.012	0.24%
QC value within limits for Se Recovery = 98.65%								
Tl†	11578.9	5.28	mg/L	0.019	5.28	mg/L	0.019	0.36%
QC value within limits for Tl Recovery = 105.61%								
V†	753957.0	5.18	mg/L	0.001	5.18	mg/L	0.001	0.01%
QC value within limits for V Recovery = 103.66%								
Zn†	200174.1	5.23	mg/L	0.004	5.23	mg/L	0.004	0.08%
QC value within limits for Zn Recovery = 104.59%								

QC Failed. Continue with analysis.

Sequence No.: 83
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 22:39:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	215.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	398624.3	97.2	%	0.56				0.57%
Yr	393534.9	80.3	%	0.90				1.12%
Ag†	36.3	0.00015	mg/L	0.000109	0.00015	mg/L	0.000109	72.17%
QC value within limits for Ag Recovery = Not calculated								
Al†	5.7	0.00063	mg/L	0.000520	0.00063	mg/L	0.000520	82.97%
QC value within limits for Al Recovery = Not calculated								
As†	12.5	0.00780	mg/L	0.000264	0.00780	mg/L	0.000264	3.39%
QC value within limits for As Recovery = Not calculated								
B_†	1784.4	0.0703	mg/L	0.00153	0.0703	mg/L	0.00153	2.17%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-1.2	-0.00003	mg/L	0.000023	-0.00003	mg/L	0.000023	74.42%
QC value within limits for Ba Recovery = Not calculated								
Be†	208.5	0.00008	mg/L	0.000001	0.00008	mg/L	0.000001	1.29%
QC value within limits for Be Recovery = Not calculated								
Ca†	-150.4	-0.00486	mg/L	0.000187	-0.00486	mg/L	0.000187	3.85%
QC value within limits for Ca Recovery = Not calculated								
Cd†	7.7	0.00025	mg/L	0.000085	0.00025	mg/L	0.000085	33.49%
QC value within limits for Cd Recovery = Not calculated								
Co†	-3.8	-0.00027	mg/L	0.000046	-0.00027	mg/L	0.000046	17.16%
QC value within limits for Co Recovery = Not calculated								
Cr†	112.3	0.00274	mg/L	0.000084	0.00274	mg/L	0.000084	3.08%
QC value within limits for Cr Recovery = Not calculated								
Cu†	45.1	0.00015	mg/L	0.000141	0.00015	mg/L	0.000141	93.47%
QC value within limits for Cu Recovery = Not calculated								
Fe†	30.3	0.00242	mg/L	0.000007	0.00242	mg/L	0.000007	0.29%
QC value within limits for Fe Recovery = Not calculated								
K†	96.6	0.0732	mg/L	0.04830	0.0732	mg/L	0.04830	65.98%
QC value within limits for K Recovery = Not calculated								
Mg†	58.1	0.00270	mg/L	0.000247	0.00270	mg/L	0.000247	9.17%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-127.4	-0.00027	mg/L	0.000007	-0.00027	mg/L	0.000007	2.53%
QC value within limits for Mn Recovery = Not calculated								
Mo†	16.1	0.00162	mg/L	0.000062	0.00162	mg/L	0.000062	3.84%
QC value within limits for Mo Recovery = Not calculated								
Na†	451.1	0.0838	mg/L	0.00200	0.0838	mg/L	0.00200	2.38%
QC value within limits for Na Recovery = Not calculated								
Ni†	12.2	0.00066	mg/L	0.000101	0.00066	mg/L	0.000101	15.41%
QC value within limits for Ni Recovery = Not calculated								
Pb†	7.6	0.00202	mg/L	0.001121	0.00202	mg/L	0.001121	55.56%
QC value within limits for Pb Recovery = Not calculated								
Sb†	7.1	0.00438	mg/L	0.001410	0.00438	mg/L	0.001410	32.18%
QC value within limits for Sb Recovery = Not calculated								
Se†	5.2	0.00520	mg/L	0.005843	0.00520	mg/L	0.005843	112.41%
QC value within limits for Se Recovery = Not calculated								
Tl†	10.3	0.00468	mg/L	0.003721	0.00468	mg/L	0.003721	79.51%
QC value within limits for Tl Recovery = Not calculated								
V†	18.8	0.00014	mg/L	0.000047	0.00014	mg/L	0.000047	32.76%
QC value within limits for V Recovery = Not calculated								
Zn†	7.0	0.00018	mg/L	0.000022	0.00018	mg/L	0.000022	12.17%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 84
Sample ID: CCB

Autosampler Location: 0
Date Collected: 5/18/2008 22:42:10

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	215.0 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	403093.2	98.2	%	0.41				0.42%
Yr	396352.6	80.8	%	0.76				0.94%
Ag†	53.6	0.00022	mg/L	0.000216	0.00022	mg/L	0.000216	97.16%
QC value within limits for Ag	Recovery = Not calculated							
Al†	55.2	0.00664	mg/L	0.000015	0.00664	mg/L	0.000015	0.23%
QC value within limits for Al	Recovery = Not calculated							
As†	4.9	0.00307	mg/L	0.000586	0.00307	mg/L	0.000586	19.10%
QC value within limits for As	Recovery = Not calculated							
B_†	1435.7	0.0565	mg/L	0.00132	0.0565	mg/L	0.00132	2.34%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	0.6	0.00002	mg/L	0.000085	0.00002	mg/L	0.000085	560.04%
QC value within limits for Ba	Recovery = Not calculated							
Be†	184.4	0.00007	mg/L	0.000031	0.00007	mg/L	0.000031	41.59%
QC value within limits for Be	Recovery = Not calculated							
Ca†	-176.7	-0.00571	mg/L	0.000051	-0.00571	mg/L	0.000051	0.90%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	0.5	-0.00002	mg/L	0.000249	-0.00002	mg/L	0.000249	>999.9%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.9	0.00007	mg/L	0.000159	0.00007	mg/L	0.000159	243.82%
QC value within limits for Co	Recovery = Not calculated							
Cr†	99.7	0.00243	mg/L	0.000164	0.00243	mg/L	0.000164	6.73%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-11.7	-0.00004	mg/L	0.000075	-0.00004	mg/L	0.000075	192.54%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	22.5	0.00180	mg/L	0.000274	0.00180	mg/L	0.000274	15.24%
QC value within limits for Fe	Recovery = Not calculated							
K†	-5.6	-0.00427	mg/L	0.017438	-0.00427	mg/L	0.017438	408.80%
QC value within limits for K	Recovery = Not calculated							
Mg†	55.9	0.00259	mg/L	0.000160	0.00259	mg/L	0.000160	6.18%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-161.7	-0.00034	mg/L	0.000022	-0.00034	mg/L	0.000022	6.39%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	10.4	0.00104	mg/L	0.000523	0.00104	mg/L	0.000523	50.27%
QC value within limits for Mo	Recovery = Not calculated							
Na†	416.1	0.0773	mg/L	0.00985	0.0773	mg/L	0.00985	12.74%
QC value within limits for Na	Recovery = Not calculated							
Ni†	8.5	0.00046	mg/L	0.000030	0.00046	mg/L	0.000030	6.50%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-2.1	-0.00056	mg/L	0.000362	-0.00056	mg/L	0.000362	64.76%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	4.0	0.00247	mg/L	0.001350	0.00247	mg/L	0.001350	54.65%
QC value within limits for Sb	Recovery = Not calculated							
Se†	3.0	0.00298	mg/L	0.002032	0.00298	mg/L	0.002032	68.18%
QC value within limits for Se	Recovery = Not calculated							
Tl†	6.2	0.00281	mg/L	0.000262	0.00281	mg/L	0.000262	9.31%
QC value within limits for Tl	Recovery = Not calculated							
V†	12.5	0.00010	mg/L	0.000051	0.00010	mg/L	0.000051	52.38%
QC value within limits for V	Recovery = Not calculated							
Zn†	-1.3	-0.00004	mg/L	0.000118	-0.00004	mg/L	0.000118	320.34%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 85
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 5/18/2008 22:44:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	215.0 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	400857.1	97.7	%	0.49				0.50%
Yr	396086.1	80.8	%	0.67				0.83%
Ag†	57.8	0.00024	mg/L	0.000167	0.00024	mg/L	0.000167	69.81%
QC value within limits for Ag Recovery = Not calculated								
Al†	37.2	0.00448	mg/L	0.000701	0.00448	mg/L	0.000701	15.64%
QC value within limits for Al Recovery = Not calculated								
As†	4.1	0.00256	mg/L	0.001101	0.00256	mg/L	0.001101	43.00%
QC value within limits for As Recovery = Not calculated								
B_†	1261.1	0.0497	mg/L	0.00112	0.0497	mg/L	0.00112	2.26%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	0.1	0.00000	mg/L	0.000070	0.00000	mg/L	0.000070	>999.9%
QC value within limits for Ba Recovery = Not calculated								
Be†	113.9	0.00005	mg/L	0.000019	0.00005	mg/L	0.000019	41.92%
QC value within limits for Be Recovery = Not calculated								
Ca†	-189.5	-0.00613	mg/L	0.001538	-0.00613	mg/L	0.001538	25.09%
QC value within limits for Ca Recovery = Not calculated								
Cd†	1.3	0.00002	mg/L	0.000081	0.00002	mg/L	0.000081	341.08%
QC value within limits for Cd Recovery = Not calculated								
Co†	-0.8	-0.00005	mg/L	0.000470	-0.00005	mg/L	0.000470	882.77%
QC value within limits for Co Recovery = Not calculated								
Cr†	84.9	0.00207	mg/L	0.000184	0.00207	mg/L	0.000184	8.87%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-62.2	-0.00021	mg/L	0.000051	-0.00021	mg/L	0.000051	24.70%
QC value within limits for Cu Recovery = Not calculated								
Fe†	24.8	0.00198	mg/L	0.000027	0.00198	mg/L	0.000027	1.36%
QC value within limits for Fe Recovery = Not calculated								
K†	-4.9	-0.00371	mg/L	0.017345	-0.00371	mg/L	0.017345	467.86%
QC value within limits for K Recovery = Not calculated								
Mg†	57.5	0.00267	mg/L	0.000024	0.00267	mg/L	0.000024	0.90%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-175.6	-0.00037	mg/L	0.000011	-0.00037	mg/L	0.000011	3.07%
QC value within limits for Mn Recovery = Not calculated								
Mo†	3.9	0.00039	mg/L	0.000098	0.00039	mg/L	0.000098	25.34%
QC value within limits for Mo Recovery = Not calculated								
Na†	382.5	0.0711	mg/L	0.00600	0.0711	mg/L	0.00600	8.44%
QC value within limits for Na Recovery = Not calculated								
Ni†	1.8	0.00010	mg/L	0.000241	0.00010	mg/L	0.000241	243.54%
QC value within limits for Ni Recovery = Not calculated								
Pb†	0.2	0.00006	mg/L	0.000598	0.00006	mg/L	0.000598	921.63%
QC value within limits for Pb Recovery = Not calculated								
Sb†	3.3	0.00203	mg/L	0.001052	0.00203	mg/L	0.001052	51.90%
QC value within limits for Sb Recovery = Not calculated								
Se†	1.7	0.00169	mg/L	0.000518	0.00169	mg/L	0.000518	30.63%
QC value within limits for Se Recovery = Not calculated								
Tl†	6.7	0.00303	mg/L	0.000501	0.00303	mg/L	0.000501	16.55%
QC value within limits for Tl Recovery = Not calculated								
V†	14.4	0.00011	mg/L	0.000001	0.00011	mg/L	0.000001	1.21%
QC value within limits for V Recovery = Not calculated								
Zn†	-0.0	0.00000	mg/L	0.000078	0.00000	mg/L	0.000078	>999.9%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Continue with analysis.

Project No.________

TITLE ________ Book No.________

From Page No.____

LOG#	CLIENT	SX ID	MIX	VOLUME	COMMENTS
	200.7	05-15-08	JRF		HNO_3 100452 1ml
BLANK	DIGEST				HCl 100442 2.5ml
LCS					LCS/SPIKE
LCSD					ME 0709009 > 0.5ul
2805060278	KERRMCGEE-MP	M-48	AQ	50ml ⇒ 50ml	ME 08030013 > 0.5ul
MS	↓	↓	↓	↓	ME 0802001 → 0.25ul
MSD					
2805060290		M-23			MRL
MS		↓			ME 0804005 → 0.5ul
MSD					
2805060277		PC-54			HOT BLOCK #1 TEMP.
0279		PC-37			INI: 110/96
0280		PC-71			FIN: OVERNITE
0281		PC 72			
0282		PC 73			
0291		M-44			
0293		FB-1			
0294		MD-1			
0303		MD-5			
0305		PC123			
0311		PC-124			
0312		PC 125			
0313		PC-126			
0314		PC-127			
0315		PC-128			
0316		PC-129			
0317		PC-131			
0318 ↓	↓	PC-132	↓	↓	
	200.7 DIGEST	05-15-08	JRF		

To Page No.________

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

Recorded by

From Page No.

LOG#	CLIENT	SX-ED	MIX	VOLUMES	COMMENTS
	200.7 DIGEST	05-15-08	JRF		HNO_3 100452 1ml HCl 100442 2.5ml LCS/SPIKE
BLANK					ME 0709009
LCS					ME 0803001B → 0.5ml
LCSD					ME 0802001 → 0.25ml
2805070236	KERRMCGEE-MP	I-S	AQ	50ml → 50ml	
MS	↓	↓	↓	↓	
MSD					
2805070239	KERRMCGEE MD	I-B			
MS		↓			
MSD					
2805060319		M-95			
0320		M-96			
2805070224		I-O			
2805070225		I-P			
0226		I-HI			
0227		I-U			
0228		I-T			
0229		I-Q			
0230		I-E			
0231		I-N			
0232		I-E			
0233		I-M			
0234		I-D			
0235		I-C			
0237		I-L			
0238		I-R			
0240		I-MR			
0241	↓	I-MA	↓	↓	
	200.7 DIGEST	05-15-08	JRF		

To Page No.

Witnessed & Understood by me. | Date | Invented by | Date | Recorded by

Standard Preparation Worksheet & Certificate of Analysis

Reagent Lot #

HNO3 R# 100450 HCL R# 100446
IS = Yttrium(ME0709008)0.75mL + Scandium (ME0710007)0.5mL to 1000mL w/ 2% HNO3

Standards	Lot #	Exp. Date	Dilution	
Calibration	ME0712001	(12/01/08)	1:10 ME0801001	
(Prepare daily)	ME0712001	(12/01/08)	1:10	
			CCV/ECV	MCV
CCV/MCV/ECV	ME0710008	(04/17/09)	1:20 ME0801002	1:40 ME0801003
(Prepare daily)				
Spike/LCS	ME0709009	(03/11/09)	1:100 ME0801005	
(Prepare daily).	ME0801004	(07/11/08)	1:100	
	ME0803001	(08/13/08)	1:50	
MRL	ME0801007	(07/11/08)	1:100 ME0801008	
(Prepare daily)				
ICSA	ME0712003	(06/01/08)		
ICSAB	ME0712004	(06/01/08)		
QCS	ME0610005	(04/10/08)		
1ppm Check	ME0801010	(07/11/08)		
Linearity	ME0805001	(11/05/08)		
Method Sr/Ti/Sn/SiO2				
Calibration	ME0801012	(07/11/08)		
CCV/ECV	ME0803011	(09/30/08)		
QCS	ME0801012	(07/11/08)		
Spike/LCS	ME0803012	(09/30/08)	1:100	
(Prepare daily)				
MRL	ME0801014	(07/11/08)	1:100	
(Prepare daily)				
Method Li				
Std/ICV/MRL	ME0801009	(07/11/08)	1:1000, 200, 40, 10	
(Prepare daily)				
QCS	ME0801011	(07/11/08)	1:10	
(Prepare daily)				
LCS/Spike	ME0801011	(07/11/08)	1:50	
(Prepare daily)				
ccv	ME0801011	(07/11/08)	1:40	
(Prepare daily)				

From May 2005: the calibration std for [illegible] should be ME0505010,011 not ME0408010

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

Intial: STE
Date: 12/3/07

METALS STANDARD DOCUMENTATION

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

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

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

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CERTIFICATE OF ANALYSIS

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

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB243151** ME 0712401

Matrix: 5% HNO3(abs)

1,000.00 µg/mL ea:
Ca, K, Mg, Na,

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

50.00 µg/mL ea:
Cd,

40.00 µg/mL ea:
Be,

30.00 µg/mL ea:
Sr,

20.00 µg/mL ea:
Ag

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

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

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

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

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

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

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

4.0 TRACEBILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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

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

4.1 ASSAY INFORMATION

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

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

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

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

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

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

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

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

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

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

10.0 QUALITY STANDARD DOCUMENTATION

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

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

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

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

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

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

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

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

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

Certification Date: November 19, 2007
Expiration Date:

EXPIRES
01 Dec 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Angela Sinclair, Product Documentation Administrator

Certificate Approved By: Katalin Le, QC Manager

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

Intial: STE
Date: 10/19/07

METALS STANDARD DOCUMENTATION

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

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

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

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Innovative Solutions in Analytical Science and Technology

Expiry: 4/17/2009

Certificate of Analysis

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

ME 0710008
recd : 10/19/07
STE

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

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

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

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

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

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

Intial: STE
Date: 9/13/07

METALS STANDARD DOCUMENTATION

Standard:	ICP CCV/MCV Stock Standard	**ME #:**	0709009
Date Received/Prepped:	9/13/2007	**By:**	STE
Date Expired:	3/11/2009	**Lot #:**	07I040
Manufacturer:	CPI International	**Certificate:**	
Matrix:	5% HNO3 AND 0.1% HF	**NIST SRM:**	
Amount:	100 mL	**Storage:**	Room Temp.

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

CPI INTERNATIONAL

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Expiry: 3/11/2009

Certificate of Analysis

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

ME C7 09 C09

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

Concentrations in ug/mL ± 0.5%

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

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

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

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

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

Intial: WBH
Date: 1/14/08

METALS STANDARD DOCUMENTATION

Standard: ICP Spike Solution
Date Received/Prepped: 1/11/2008
Date Expired: 7/11/2008
Manufacturer: MWH-wbh
Matrix: 2%HNO3
Amount: 100mL

ME #: 0801004
By: Wbh
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp

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

ME0709023

Intial: STE
Date: 9/24/07

METALS STANDARD DOCUMENTATION

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

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

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

INORGANIC VENTURES
195 Lehigh Avenue, Suite 4
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inorganicventures.com

CERTIFICATE OF ANALYSIS

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fax. 732 901 1903
info@inorganicventures.com

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

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

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

ME0709023

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1000 ± 6 µg/mL

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

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

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

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

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

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

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

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

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

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

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

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

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

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

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

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

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

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

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

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

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

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

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

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

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

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105

Recognized by:

Registrar Accreditation Board (ANSI-RAB)
Standards Council of Canada (SCC)
Dutch Council for Accreditation (RVA)
Entidad Mexicana de Acreditacion, a.c.(EMA)

Members of IQ Net International Certification Network:

Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter) , Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland(PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"

- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"

- Reference Materials Production - Accredited A2LA Certificate Number 883.02

A2LA Mutual Recognition Agreement Partners:

Australia (NATA), Austria (BmwA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS, Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission

- Domestic Licensing of Production and Utilization Facilities

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

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

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

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

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

Certification Date: February 13, 2007

Expiration Date:

EXPIRES
1ºF 2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product Documentation Administrator

Certificate Approved By: Katalin Le, QC Manager

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

Intial: WBH
Date: 4/16/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

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

120704013

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

Lot # 07A097

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

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

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

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

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

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

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

Intial: WJH
Date: 3/5/07

METALS STANDARD DOCUMENTATION

Standard:	Selenium Stock Standard
Date Received/Prepped:	3/5/2007
Date Expired:	8/22/2008
Manufacturer:	CPI
Matrix:	2% HNO3
Amount:	100 mL

ME #:	0703001
By:	wbh
Lot #:	6.00E+228
Certificate:	Y
NIST SRM:	3148
Storage:	Room Temp

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

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CERTIFICATE OF ANALYSIS

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

M70703001

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

Lot # 06E228

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

MF070206

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

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

Lot # 06H213

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

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

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

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

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

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

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

Intial: wbh
Date: 3/12/08

METALS STANDARD DOCUMENTATION

Standard:	ICP LCS/SPIKE Solution	**ME #:**	0803001
Date Received/Prepped:	3/12//2008	**By:**	wbh
Date Expired:	8/12/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	NO
Matrix:	2% HNO3 + 5% HCl	**NIST SRM:**	
Amount:	100mL	**Storage:**	Room Temp

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

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

'160702002

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

Lot # 07B065

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

M70702003

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

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

Lot # 07B057

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

4/30/2004

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

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

Lot # 07B058

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

M20703005

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

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

Lot # 07B056

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

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

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

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	0.39	0.1	Cu	0.16	0.1	Pb	ND	0.1	K	X	70	Tl	ND	0.1
Sb	0.34	0.1	Dy	ND	0.1	Li	ND	0.4	Pr	ND	0.1	Th	ND	0.1
As	ND	6	Er	ND	0.1	Lu	ND	1	Re	ND	0.1	Tm	ND	0.1
Ba	0.14	0.1	Eu	ND	0.1	Mg	2.6	0.2	Rh	ND	0.1	Sn	0.17	0.1
Be	ND	0.1	Gd	ND	0.1	Mn	0.93	1	Rb	9.5	0.1	Ti	ND	0.1
Bi	ND	0.1	Ga	ND	0.1	Hg	ND	0.2	Ru	ND	0.1	W	ND	0.1
B	ND	4	Ge	ND	0.1	Mo	ND	0.1	Sm	ND	0.1	U	ND	0.1
Br	ND	10	Au	ND	0.1	Nd	ND	0.1	Se	ND	6	V	ND	1
Cl^2	ND	0.1	Hf	ND	0.1	Ni	0.4	0.1	Si	50	20	Yb	ND	0.1
Ca	82	7	Ho	ND	0.1	Nb	ND	0.1	Ag	ND	0.1	Y	ND	0.1
Ce	ND	0.1	I	ND	0.2	Os	ND	0.1	Na	19	1	Zn	2.9	1
Cs	ND	0.1	Ir	ND	0.1	Pd	ND	0.1	Sr	1	0.1	Zr	ND	0.1
Cr	ND	1	Fe	ND	30	P	18	10	Ta	ND	0.1			
Co	ND	0.1	La	ND	0.1	Pt	ND	0.1	Te	ND	0.1			

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

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

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

Date: 1/11/08

METALS STANDARD DOCUMENTATION

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

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

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ME0709020

Expiry 9/18/2008

Certificate of Analysis

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

MWH
Custom Standard
2% HNO3 + tr HF

Concentrations in ug/mL ± 0.5%

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

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

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

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

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

Intial: STE
Date: 12/1/07

METALS STANDARD DOCUMENTATION

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

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

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

Intial: STE
Date: 12/01/07

METALS STANDARD DOCUMENTATION

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

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

Intial: WBH
Date: 10/17/06

METALS STANDARD DOCUMENTATION

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

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

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

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Expiry: 4/10/2008

Certificate of Analysis

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

M20610.025

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.

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Intial: WBH
Date: 1/11/08

METALS STANDARD DOCUMENTATION

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

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

ME070[illegible]011

Intial: STE
Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	QC Check Standard 7		**ME #:** 070[illegible]011
Date Received/Prepped:	8/27/2007		**By:** STE
Date Expired:	8/31/2007		**Lot #:** 074438I
Manufacturer:	Crescent Chemical Co. Inc.		**Certificate:**
Matrix:	5% HNO3		**NIST SRM:**
Amount:		100	**Storage:** Room Temp.

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

ME 07 08 011

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 7

CATALOG NO: QC-007.1

CONTENTS: See Below

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

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

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

Concentrations are given in µg/mL unless noted otherwise.

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

Crescent Chemical Co. Inc.

William MacIntosh

QA Manager

EXPIRES: August 2008

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

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

Intial: CSK
Date: 05/05/08

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped: 5/5/2008
Date Expired: 11/5/2008
Manufacturer: MWH-STE
Matrix: 5% HNO3
Amount: 500ML

ME #: 0805001
By: CSK
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
CA	15.0ML ME0702002/500ML	300 ppm
K	15.0ML ME0702005/500ML	300 ppm
MG	10.0ML ME0702004/500ML	200 ppm
NA	15.0ML ME0702003/500ML	300 ppm
FE	5.0ML ME0701008/500ML	100 ppm

Intial: WBH
Date: 1/27/07

METALS STANDARD DOCUMENTATION

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

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

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JUL 19 '06

CERTIFICATE OF ANALYSIS

HTE070100S

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

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

Lot # 06I143

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

MEO702005

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

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

Lot # 07B056

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

4/20/2004

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

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

Lot # 07B058

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

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

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

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

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

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

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

Intial: UBJ
Date: 2/29/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

M20702003

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

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

Lot # 07B057

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

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

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

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

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

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

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

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

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

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CERTIFICATE OF ANALYSIS

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

1F0702602

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

Lot # 07B065

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

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

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

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

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

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

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