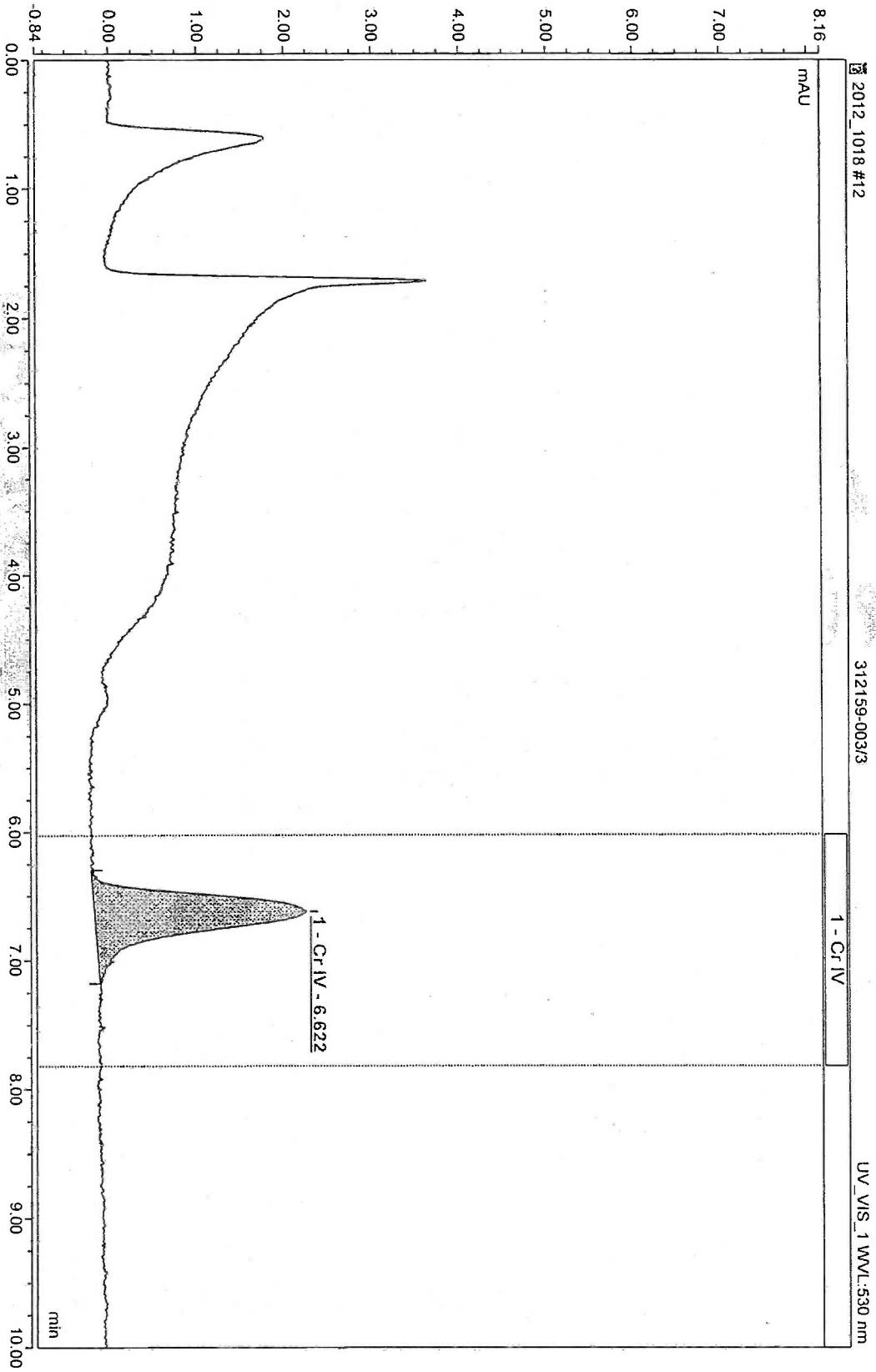


Sequence: 2012_1018
Injection #12: 312159-003/3

Chromatogram



ALAB: 000044

Sequence: 2012_1018
Injection #12: 312159-003/3

Peak Results

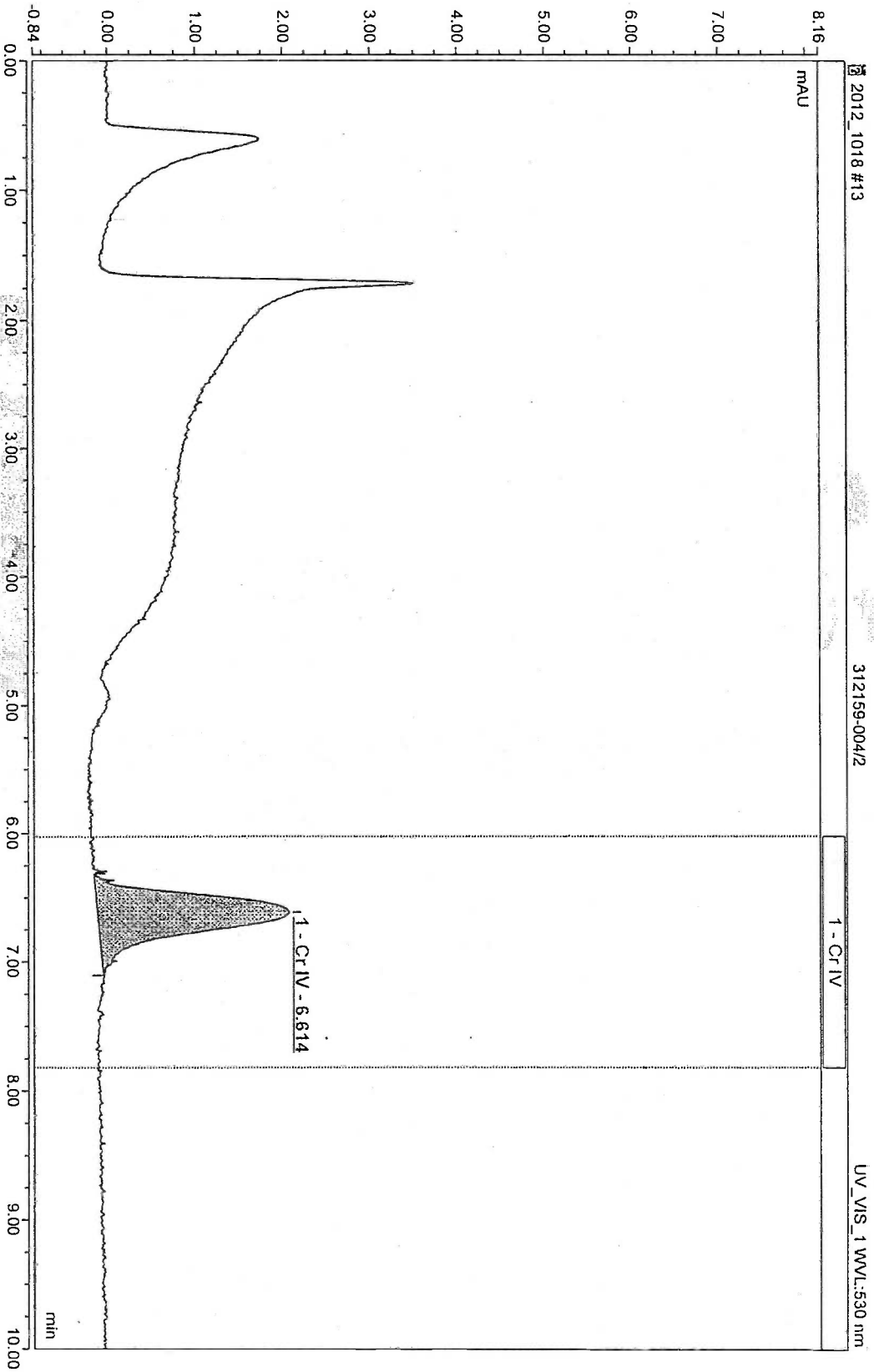
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr/V	6.622	1.6714	100.00	0.7510	2.43	M	0.289	1.39	n.d	2902
Maximum			1.6714	100.00	0.7510	2.43		0.289	1.39	0.00	2902
Minimum			1.6714	100.00	0.7510	2.43		0.289	1.39	0.00	2902
Sum			1.6714	100.00	0.7510	2.43					

ALAB : 000045

LMC-PET-00001650

Sequence: 2012_1018
Injection #13: 312159-004/2

Chromatogram



ALAB: 00046

LMC-PET-00001651

CONFIDENTIAL

Sequence: 2012_1018
Injection #13: 312159-004/2

Peak Results

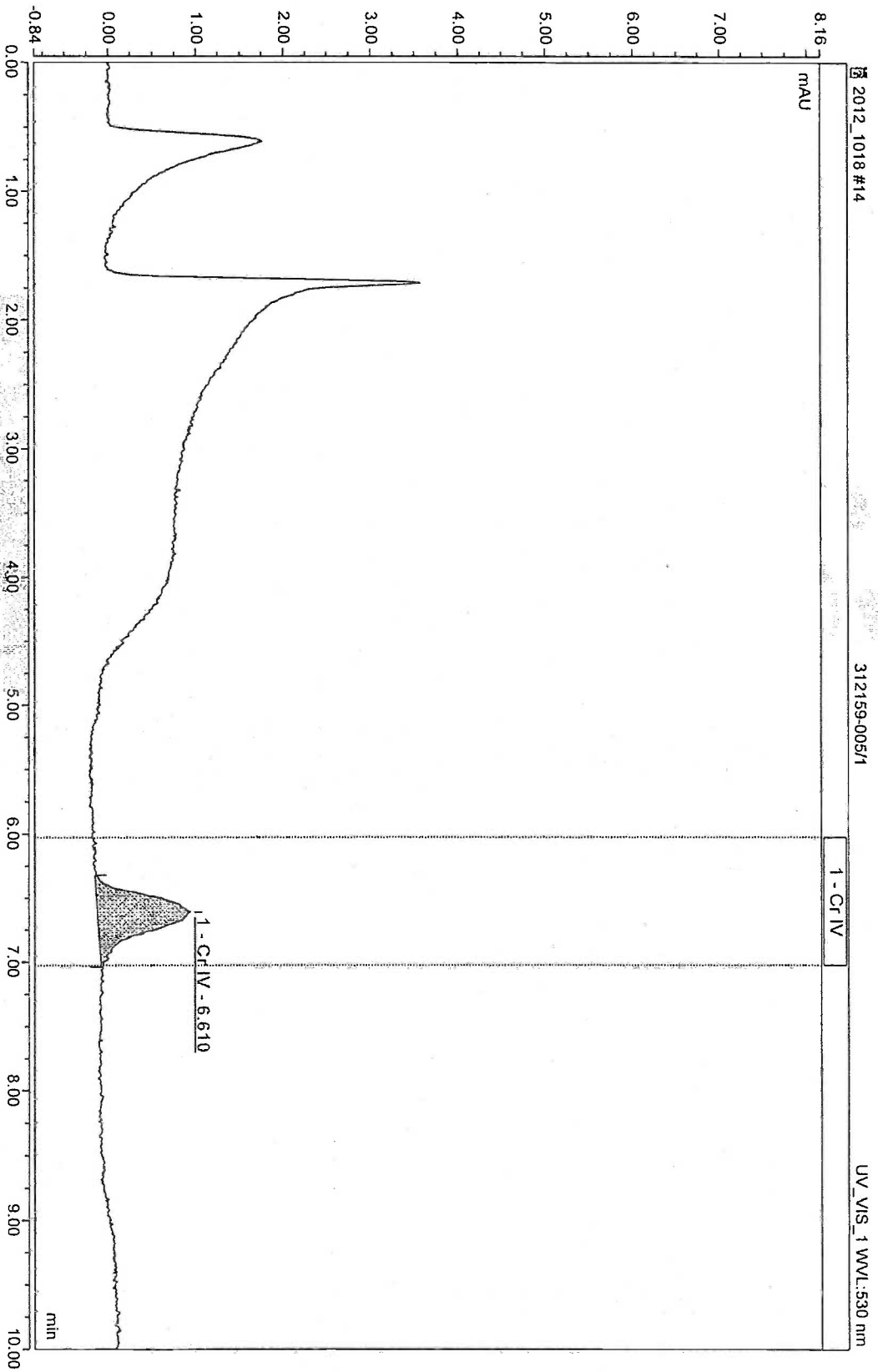
Peak No	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.614	1.5485	100.00	0.6958	2.19	M	0.301	1.23	n.a.	2677
Maximum			1.5485	100.00	0.6958	2.19		0.301	1.23	0.00	2677
Minimum			1.5485	100.00	0.6958	2.19		0.301	1.23	0.00	2677
Sum			1.5485	100.00	0.6958	2.19					



ALAB: 000017

Sequence: 2012_1018
Injection #14: 312159-005/1

Chromatogram



Sequence: 2012_1018
Injection #14: 312159-005/1

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym EP	Resol. EP	Plates EP
1	Cr IV	6.610	0.7332	100.00	0.3295	1.07	M	0.295	1.29	n.a.	2775
Maximum			0.7332	100.00	0.3295	1.07		0.295	1.29	0.00	2775
Minimum			0.7332	100.00	0.3295	1.07		0.295	1.29	0.00	2775
Sum			0.7332	100.00	0.3295	1.07					

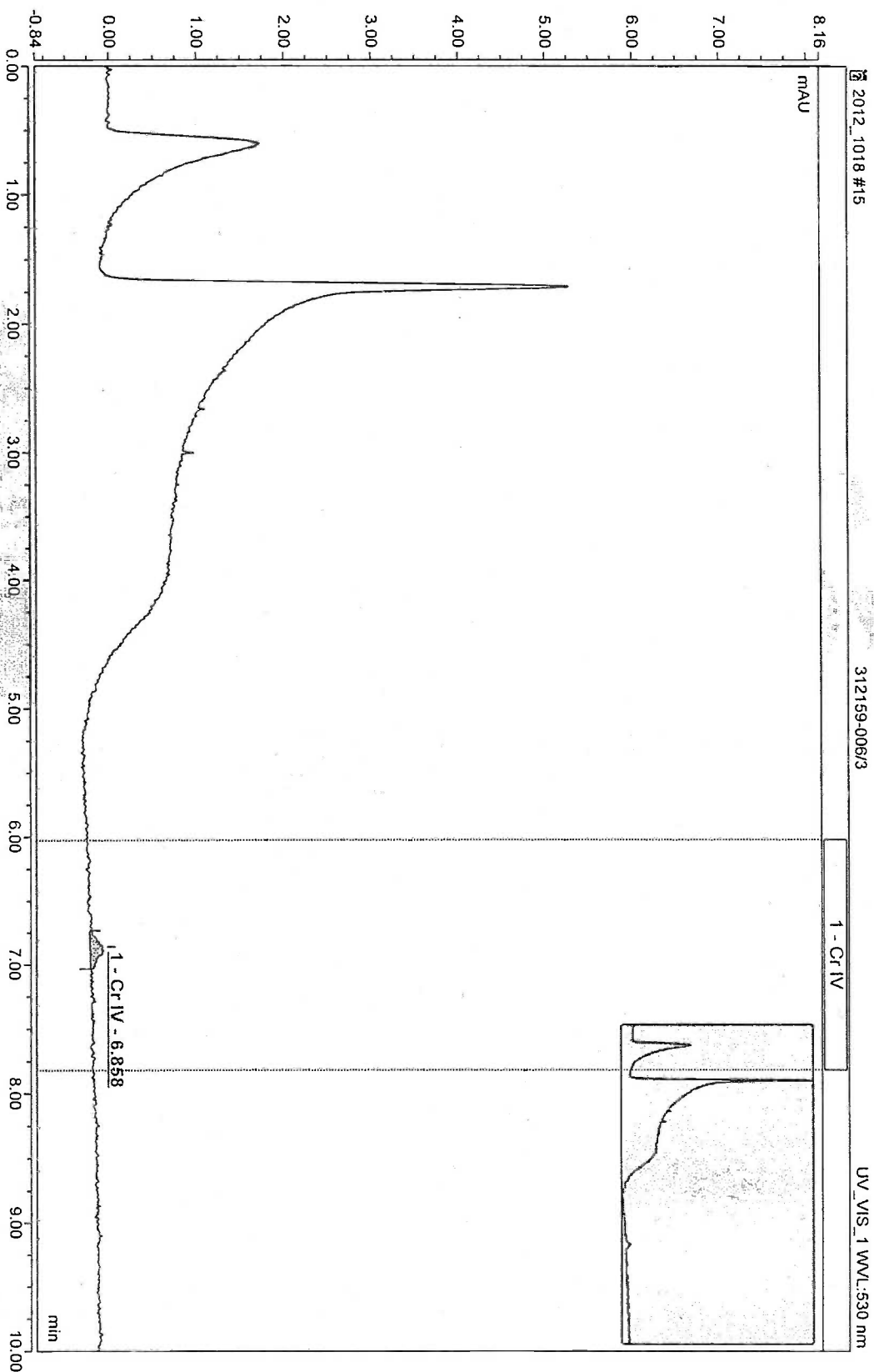


ALAB: 00048

LMC-PET-00001654

Sequence: 2012_1018
Injection #15: 312159-006/3

Chromatogram



ALAB : 00048

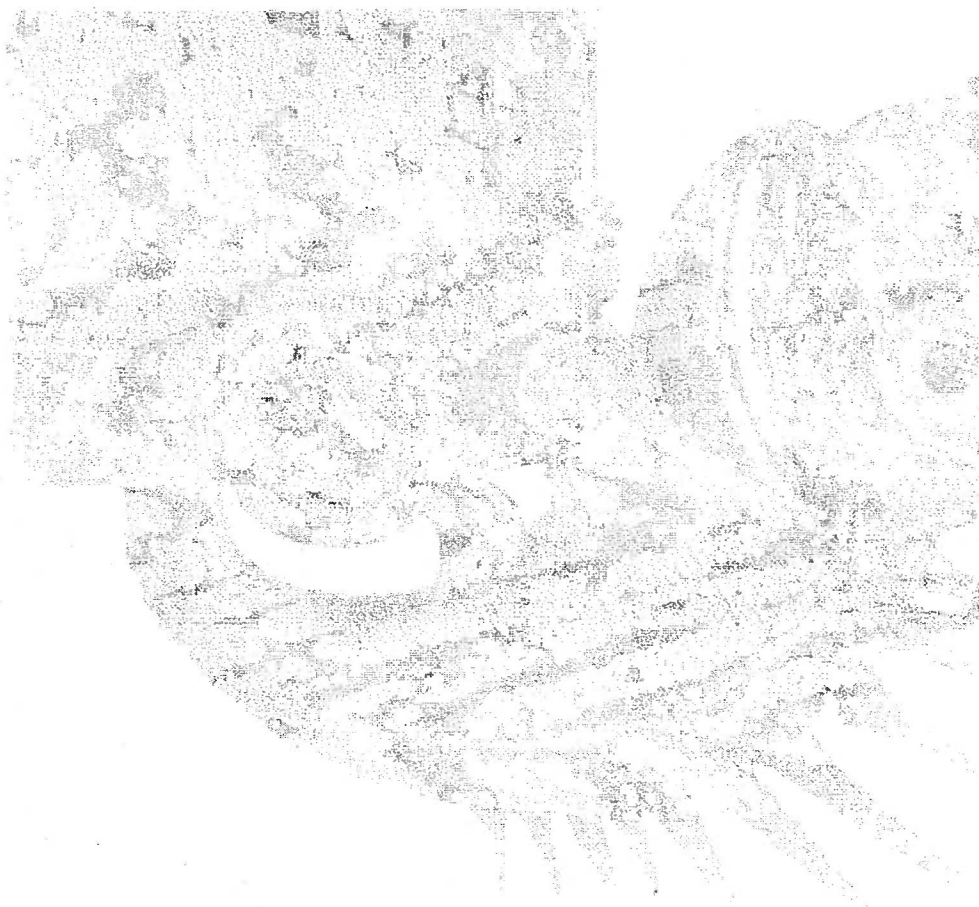
CONFIDENTIAL

LMC-PET-00001655

Sequence: 2012_1018
Injection #15: 312159-006/3

Peak Results

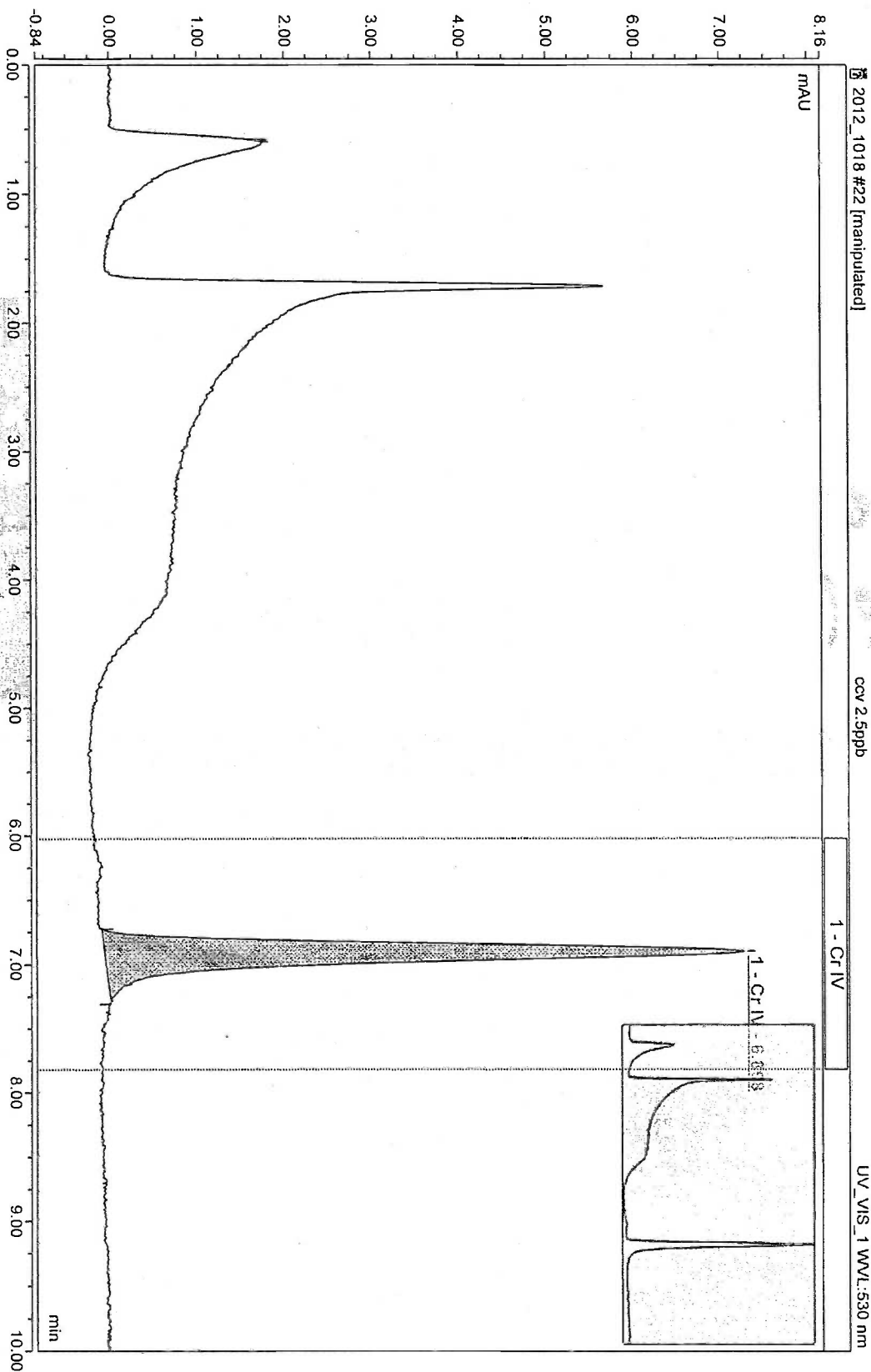
Peak No.	Peak Name	Ret Time min	Amount ppb	Rel Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.858	0.0573	100.00	0.0257	0.17	M	0.126	1.19	n.a.	16518
	Maximum		0.0573	100.00	0.0257	0.17		0.126	1.19	0.00	16518
	Minimum		0.0573	100.00	0.0257	0.17		0.126	1.19	0.00	16518
	Sum		0.0573	100.00	0.0257	0.17					



ALAB : 000000

Sequence: 2012_1018
Injection #22: ccv 2.5ppb

Chromatogram



ALAB: 00051

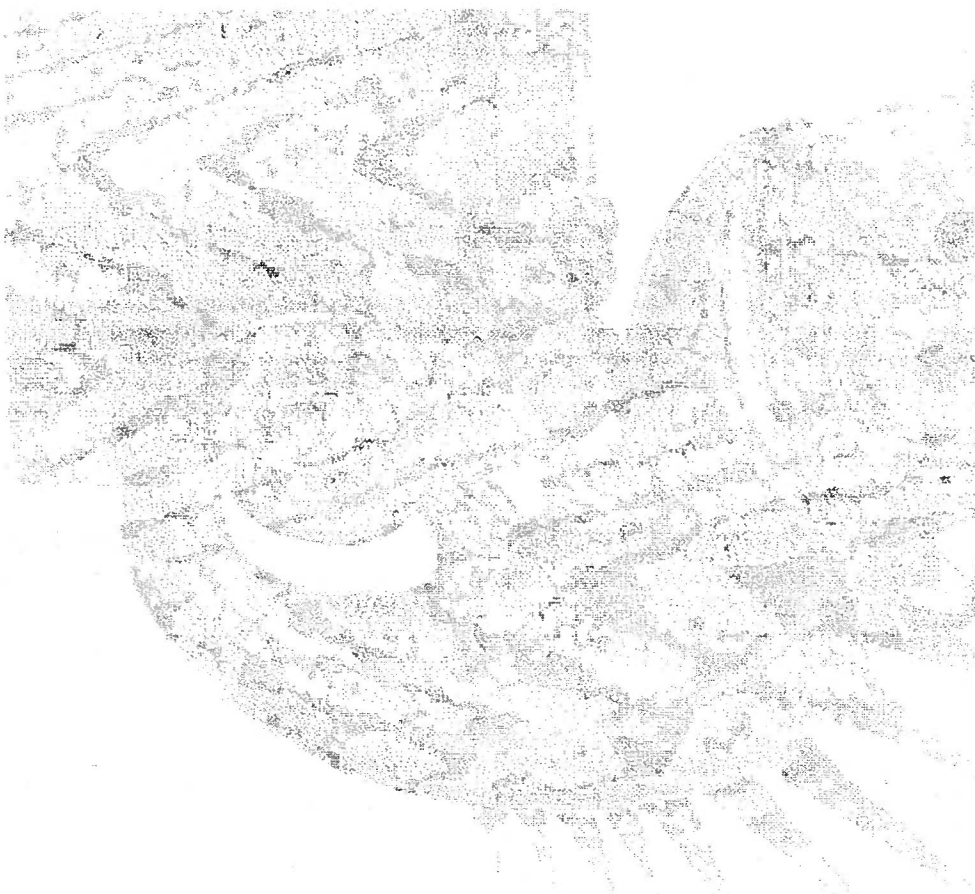
CONFIDENTIAL

LMC-PET-00001657

Sequence: 2012_1018
Injection #22: ccv

Peak Results

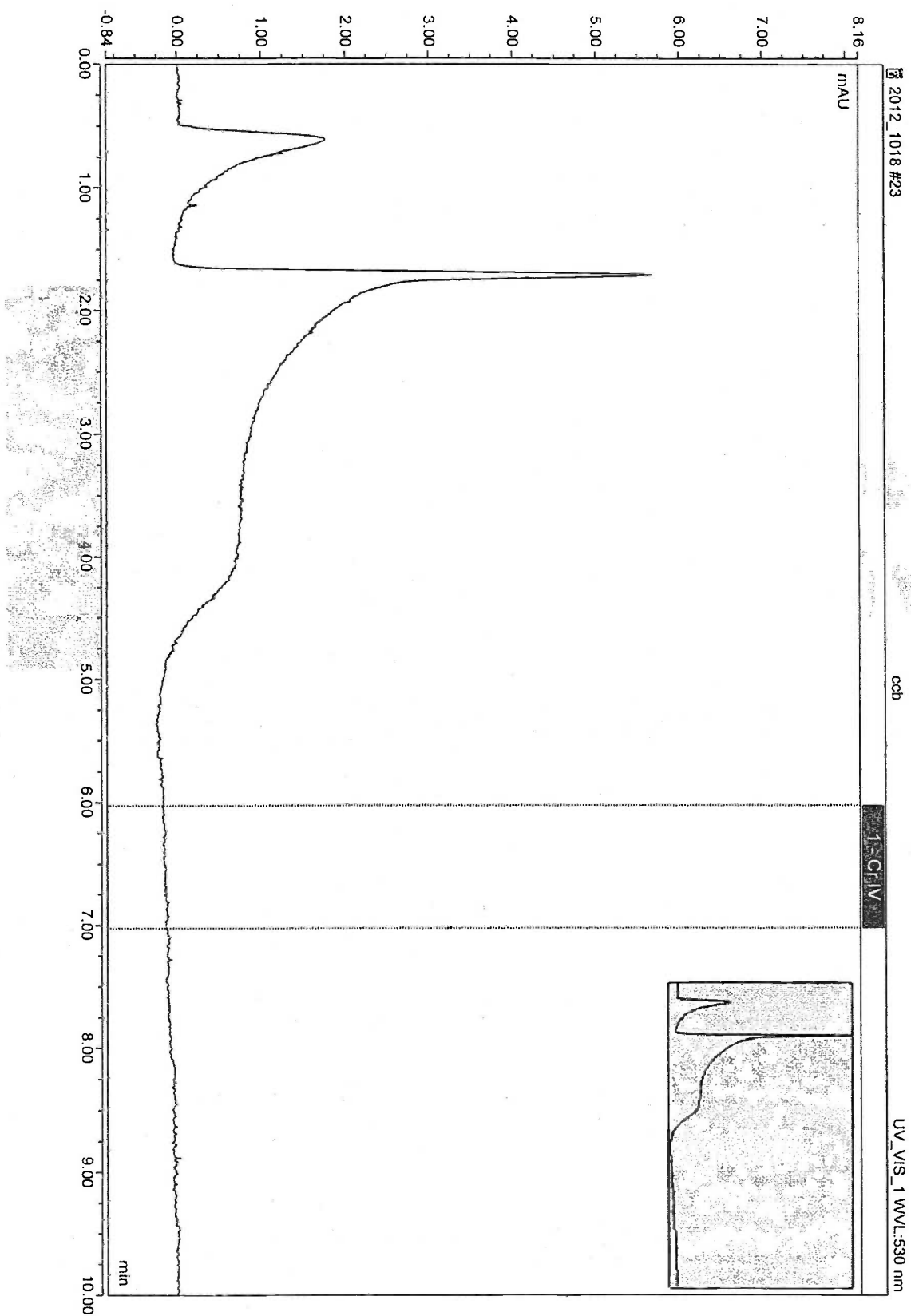
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.898	2.6302	100.00	1.1818	7.33	BMB*	0.145	1.34	n.a	12577
Maximum			2.6302	100.00	1.1818	7.33		0.145	1.34	0.00	12577
Minimum			2.6302	100.00	1.1818	7.33		0.145	1.34	0.00	12577
Sum			2.6302	100.00	1.1818	7.33					



ALAB : 00052

Sequence: 2012_1018
Injection #23: ccb

Chromatogram



Sequence: 2012_1018
Injection #23: ccb

Peak Results

Peak No.	Peak Name	Ret Time min	Amount	Rel Area %	Area mAU min	Height mAU	Type	Width (50%) min	Asym EP	Resol EP	Plates EP
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0



ALAB : 00053

LMC-PET-00001660

EPA 300.0

ANIONS by ION CHROMATOGRAPHY
DATA PACKAGE

ALAB : 00054

Sequence: 12-10-16
Operator: wei

Page 1 of 4
Printed: 10/20/2012 6:22:17 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assocated_lab
#Samples: 49

Created: 10/16/2012 9:09:45 AM by wei
Last Update: 10/20/2012 6:21:55 PM by wei

No.	Name	Type	Program	Method	Status
1	ccb	Unknown	anion_program	PERCHLORATE METHOD	Finished
2	std1	Standard	anion_program	PERCHLORATE METHOD	Finished
3	std2	Standard	anion_program	PERCHLORATE METHOD	Finished
4	std3	Standard	anion_program	PERCHLORATE METHOD	Finished
5	std4	Standard	anion_program	PERCHLORATE METHOD	Finished
6	std5	Standard	anion_program	PERCHLORATE METHOD	Finished
7	std6	Unknown	anion 16	PERCHLORATE METHOD	Finished
8	ccb1=mb1	Unknown	anion_program	PERCHLORATE METHOD	Finished
9	ccv1	Unknown	anion_program	PERCHLORATE METHOD	Finished
10	312125-008-1 ms4	Unknown	anion_program	PERCHLORATE METHOD	Finished
11	312159-003-4	Unknown	anion_program	PERCHLORATE METHOD	Finished
12	312159-004-3	Unknown	anion_program	PERCHLORATE METHOD	Finished
13	312159-006-2	Unknown	anion_program	PERCHLORATE METHOD	Finished
14	312145-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
15	312149-001-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
16	312159-003-4	Unknown	anion_program	PERCHLORATE METHOD	Finished
17	312159-004-3	Unknown	anion_program	PERCHLORATE METHOD	Finished
18	312158-002-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
19	312158-004-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
20	312158-002-1 ms1	Unknown	anion_program	PERCHLORATE METHOD	Finished
21	ccv2=lcs1	Unknown	anion_program	PERCHLORATE METHOD	Finished
22	ccb2	Unknown	anion_program	PERCHLORATE METHOD	Finished
23	312158-005-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
24	312158-006-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
25	312158-013-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
26	312158-008-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
27	312158-010-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
28	312158-011-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
29	312158-012-1	Unknown	anion_program	PERCHLORATE METHOD	Finished
30	312158-013-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
31	312158-002-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
32	312193-001-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
33	312193-001-1 ms2	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
34	ccv3	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
35	ccb3	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
36	312193-002-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
37	312193-003-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
38	312193-004-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
39	312193-005-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
40	312193-006-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
41	312193-007-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
42	312193-008-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted

Sequence: 12-10-16
Operator: wei

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Printed: 10/20/2012 6:22:17 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assciated_lab
#Samples: 49

Created: 10/16/2012 9:09:45 AM by wei
Last Update: 10/20/2012 6:21:55 PM by wei

No.	Name	Inj. Date/Time	Dil. Factor	Comment
1	ccb	8/6/2012 9:20:37 AM	1.0000	no guard separate014785 lot007-17-139
2	std1	8/6/2012 9:47:19 AM	1.0000	cs080612-1
3	std2	8/6/2012 10:09:13 AM	1.0000	cs080612-2
4	std3	8/6/2012 10:30:13 AM	1.0000	cs080612-3
5	std4	8/6/2012 10:51:45 AM	1.0000	cs080612-4
6	std5	8/6/2012 11:12:58 AM	1.0000	cs080612-5
7	std6	8/6/2012 11:34:43 AM	1.0000	cs080612-6
8	ccb1=mb1	10/16/2012 9:31:58 AM	1.0000	
9	ccv1	10/16/2012 9:54:04 AM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
10	312125-008-1 ms4	10/16/2012 10:15:01 AM	10.0000	ms4 fo4 10/15/12 batch
11	312159-003-4	10/16/2012 10:35:07 AM	1.0000	arcadis no3/no2
12	312159-004-3	10/16/2012 10:58:04 AM	1.0000	arcadis no3/no2
13	312159-006-2	10/16/2012 11:19:11 AM	1.0000	arcadis no3/no2 mb
14	312145-001-1	10/16/2012 11:40:04 AM	10.0000	rep for cl/no2
15	312149-001-1	10/16/2012 12:22:21 PM	10.0000	rep for cl/no2
16	312159-003-4	10/16/2012 12:38:02 PM	2.0000	rep for no2
17	312159-004-3	10/16/2012 12:59:27 PM	2.0000	rep for no2
18	312158-002-1	10/16/2012 1:19:37 PM	1.0000	cdm cl/so4/no3
19	312158-004-1	10/16/2012 1:41:49 PM	1.0000	cdm cl/so4/no3
20	312158-002-1 ms1	10/16/2012 2:02:25 PM	10.0000	ms1
21	ccv2=ics1	10/16/2012 2:25:03 PM	1.0000	f=8 cl=40 no2=10 no3=20 so4=40
22	ccb2	10/16/2012 2:45:56 PM	1.0000	
23	312158-005-1	10/16/2012 3:07:03 PM	1.0000	cdm cl/so4/no3
24	312158-006-1	10/16/2012 3:35:40 PM	1.0000	cdm cl/so4/no3 dup
25	312158-013-1	10/16/2012 3:57:20 PM	1.0000	312158-007-1
26	312158-008-1	10/16/2012 4:17:43 PM	1.0000	cdm cl/so4/no3
27	312158-010-1	10/16/2012 4:43:47 PM	1.0000	cdm cl/so4/no3
28	312158-011-1	10/16/2012 5:04:41 PM	1.0000	cdm cl/so4/no3
29	312158-012-1	10/16/2012 5:31:11 PM	1.0000	cdm cl/so4/no3
30	312158-013-1	10/16/2012 5:57:42 PM	1.0000	auto-sample not move
31	312158-002-1	10/16/2012 6:24:12 PM	5.0000	auto-sample not move
32	312193-001-1	10/16/2012 6:50:43 PM	1.0000	auto-sample not move
33	312193-001-1 ms2	10/16/2012 7:17:13 PM	10.0000	auto-sample not move
34	ccv3	10/16/2012 7:43:43 PM	1.0000	auto-sample not move
35	ccb3	10/16/2012 8:10:14 PM	1.0000	auto-sample not move
36	312193-002-1	10/16/2012 8:36:45 PM	1.0000	auto-sample not move
37	312193-003-1	10/16/2012 9:03:15 PM	1.0000	auto-sample not move
38	312193-004-1	10/16/2012 9:29:46 PM	1.0000	auto-sample not move
39	312193-005-1	10/16/2012 9:56:16 PM	1.0000	auto-sample not move
40	312193-006-1	10/16/2012 10:22:47 PM	1.0000	auto-sample not move
41	312193-007-1	10/16/2012 10:49:17 PM	1.0000	auto-sample not move
42	312193-008-1	10/16/2012 11:15:48 PM	1.0000	auto-sample not move

Sequence: 12-10-16
Operator: wei

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Printed: 10/20/2012 6:22:17 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Assocated_lab
#Samples: 49

Created: 10/16/2012 9:09:45 AM by wei
Last Update: 10/20/2012 6:21:55 PM by wei

No.	Name	Type	Program	Method	Status
43	 312193-009-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
44	 312210-001-1	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
45	 312193-009-1 ms3	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
46	 ccv4	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
47	 ccb4	Unknown	anion_program	PERCHLORATE METHOD	Interrupted
48	 end	Unknown	stop program	PERCHLORATE METHOD	Interrupted
49	 end	Unknown	stop program	PERCHLORATE METHOD	Interrupted

Sequence: 12-10-16
Operator: wei

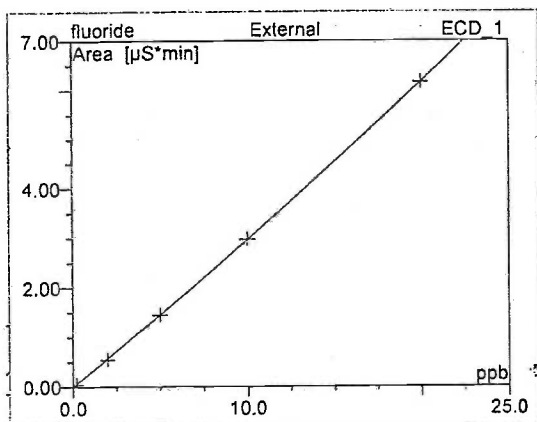
Page 4 of 4
Printed: 10/20/2012 6:22:17 PM

Title: CIO4
Datasource: AL10410_local
Location: clo4 2012\Anion 2012\10 Oct 2012
Timebase: Associated_lab
#Samples: 49

Created: 10/16/2012 9:09:45 AM by wei
Last Update: 10/20/2012 6:21:55 PM by wei

No.	Name	Inj. Date/Time	Dil. Factor	Comment
43	312193-009-1	10/16/2012 11:42:18 PM	1.0000	auto-sample not move
44	312210-001-1	10/17/2012 12:08:49 AM	1.0000	auto-sample not move
45	312193-009-1 ms3	10/17/2012 12:35:19 AM	10.0000	auto-sample not move
46	ccv4	10/17/2012 1:01:50 AM	1.0000	auto-sample not move
47	ccb4	10/17/2012 1:28:20 AM	1.0000	rerun arcadis msd on CD20 10/16/12 R2
48	end	10/17/2012 1:54:51 AM	1.0000	rerun arcadis msd on CD20 10/16/12 R2
49	end		1.0000	rerun arcadis msd on CD20 10/16/12 R2

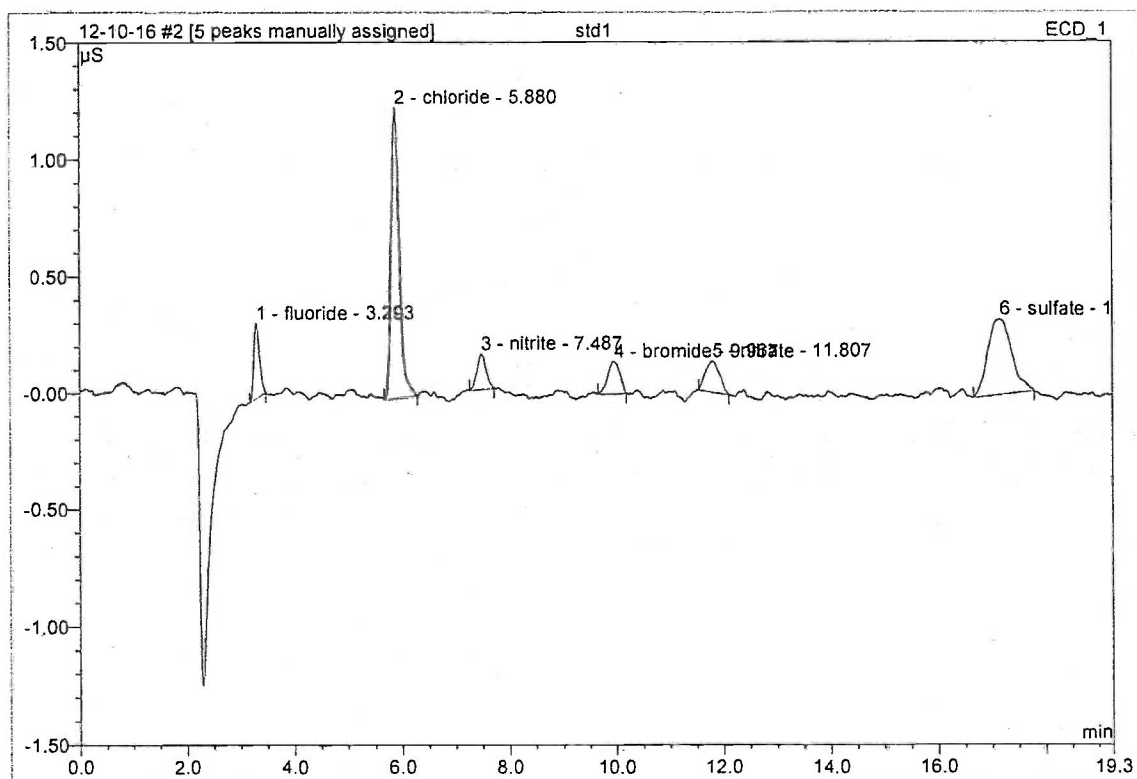
Sequence:	12-09-27	Inj. Vol.:	20.0
Program:	anion_program	Operator:	n.a.
Ini. Date/Time:	08/06/12 10:51	Run Time:	18.57



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff. Det. %
1	3.28	fluoride	Quad	5	0.000	0.285	0.001	99.9948
3	5.88	chloride	Quad	5	0.000	0.245	0.001	99.9653
4	7.45	nitrite	Quad	5	0.000	0.112	0.000	99.9851
5	9.90	bromide	Quad	5	0.000	0.087	0.000	99.9977
6	11.68	nitrate	Quad	5	0.000	0.111	0.000	99.9933
7	17.06	sulfate	Quad	5	0.000	0.170	0.000	99.9970
AVERAGE:					0.0000	0.1682	0.0005	99.9888

2 std1**cs080612-1**

Sample Name:	std1	Injection Volume:	20.0
Vial Number:	531	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	8/6/2012 9:47	Sample Weight:	1.0000
Run Time (min):	19.27	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	0.324	0.041	7.70	0.144	BMB
2	5.88	chloride	1.244	0.217	40.61	0.883	BMB [^]
3	7.49	nitrite	0.153	0.031	5.73	0.274	BMB [^]
4	9.97	bromide	0.139	0.036	6.83	0.418	BMB [^]
5	11.81	nitrate	0.135	0.040	7.59	0.365	BMB [^]
6	17.16	sulfate	0.327	0.168	31.54	0.987	BMB [^]
Total:			2.322	0.534	100.00	3.071	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

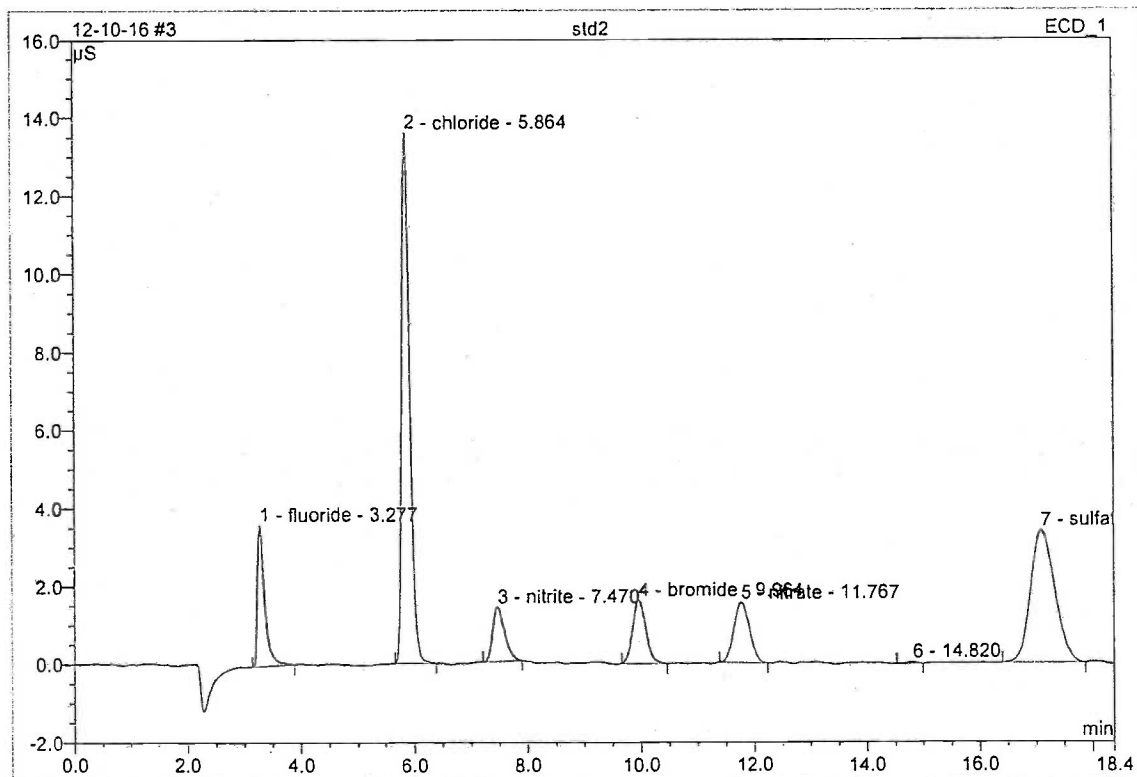
ALAB : 00050

CONFIDENTIAL

LMC-PET-00001668

3 std2**cs080612-2**

Sample Name:	std2	Injection Volume:	20.0
Vial Number:	509	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	8/6/2012 10:09	Sample Weight:	1.0000
Run Time (min):	18.38	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	3.635	0.545	9.49	1.897	BMB
2	5.86	chloride	13.597	2.214	38.56	8.859	BMB
3	7.47	nitrite	1.395	0.339	5.90	3.000	BMB
4	9.96	bromide	1.630	0.447	7.79	5.050	BMB
5	11.77	nitrate	1.548	0.494	8.60	4.380	BMB
6	14.82	n.a.	0.057	0.011	0.20	n.a.	BMB
7	17.10	sulfate	3.414	1.692	29.46	9.738	BMB
Total:			25.275	5.741	100.00	32.924	

Perchlorate/Integration

Chromleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00061

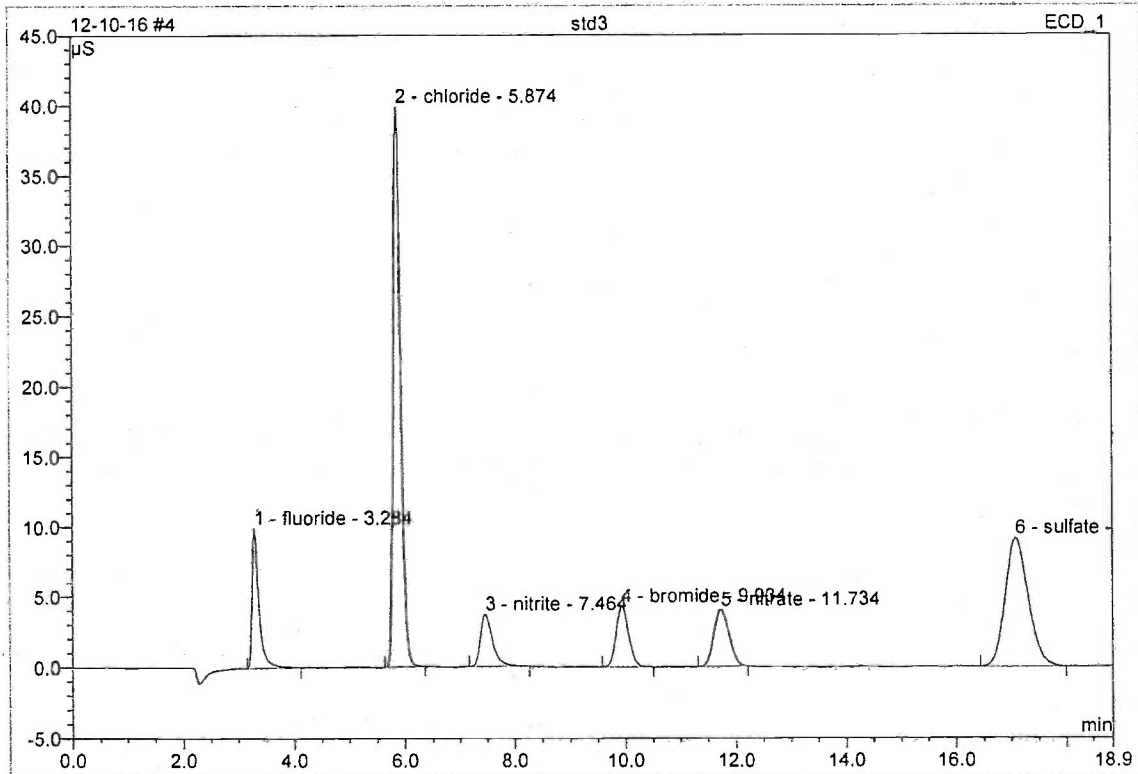
CONFIDENTIAL

LMC-PET-00001669

4 std3**cs080612-3**

Sample Name: **std3**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 10:30**
 Run Time (min): **18.86**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	9.962	1.454	9.37	5.001	BMB
2	5.87	chloride	39.886	6.264	40.40	24.217	BMB
3	7.46	nitrite	3.670	0.941	6.07	8.181	BMB
4	9.93	bromide	4.278	1.148	7.40	12.642	BMB
5	11.73	nitrate	4.002	1.270	8.19	10.970	BMB
6	17.08	sulfate	9.139	4.430	28.57	24.721	BMB
Total:			70.937	15.507	100.00	85.732	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

ALAB : 00062

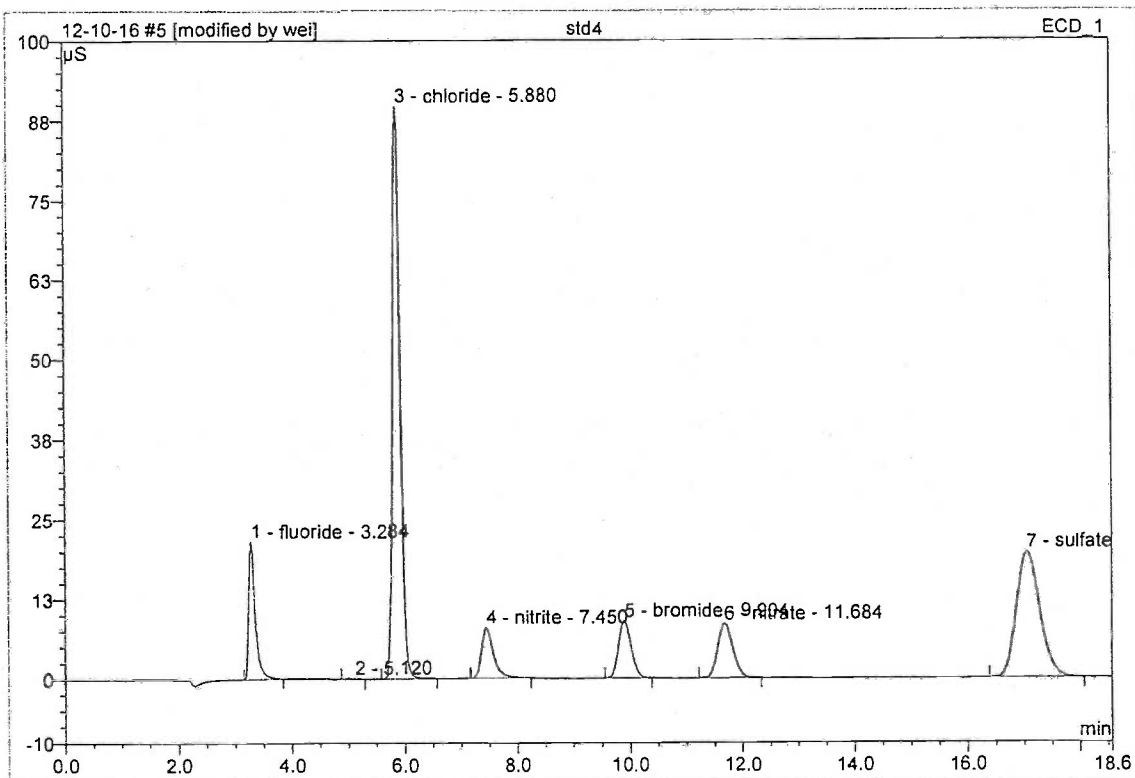
CONFIDENTIAL

LMC-PET-00001670

5 std4**cs080612-4**

Sample Name: **std4**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 10:51**
 Run Time (min): **18.57**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	21.596	2.975	8.90	10.036	BMB*
2	5.12	n.a.	0.057	0.014	0.04	n.a.	BMB
3	5.88	chloride	89.645	13.936	41.68	50.881	BMB
4	7.45	nitrite	7.877	1.975	5.91	16.649	BMB
5	9.90	bromide	9.004	2.348	7.02	24.888	BMB
6	11.68	nitrate	8.577	2.707	8.10	22.378	BMB
7	17.06	sulfate	19.781	9.478	28.35	50.272	BMB
Total:			156.538	33.433	100.00	175.105	

Perchlorate/Integration

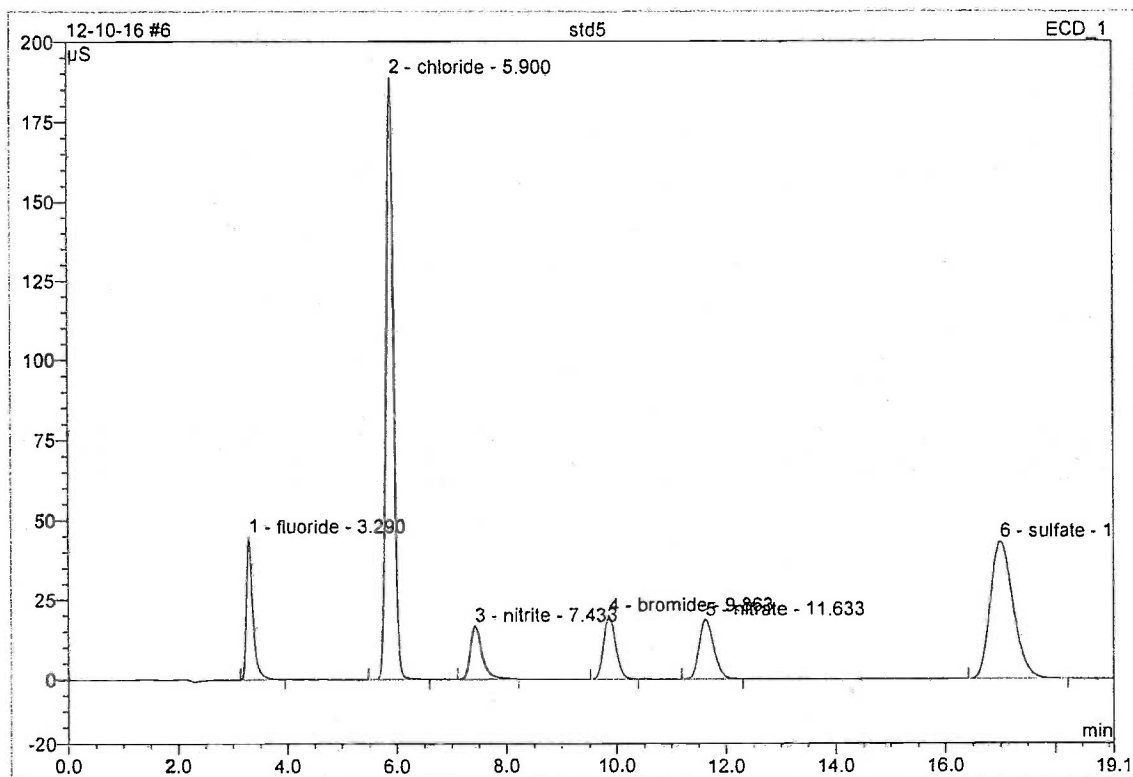
Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

ALAB : 00063

6 std5**cs080612-5**

Sample Name: **std5**
 Vial Number: **509**
 Sample Type: **standard**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **8/6/2012 11:12**
 Run Time (min): **19.09**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.29	fluoride	44.717	6.156	8.55	19.992	BMB
2	5.90	chloride	188.788	30.143	41.87	99.860	BMB
3	7.43	nitrite	16.670	4.139	5.75	32.973	BMB
4	9.86	bromide	19.857	5.085	7.06	50.017	BMB
5	11.63	nitrate	18.643	5.800	8.06	44.273	BMB
6	17.01	sulfate	43.073	20.662	28.70	99.958	BMB
Total:			331.747	71.985	100.00	347.073	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

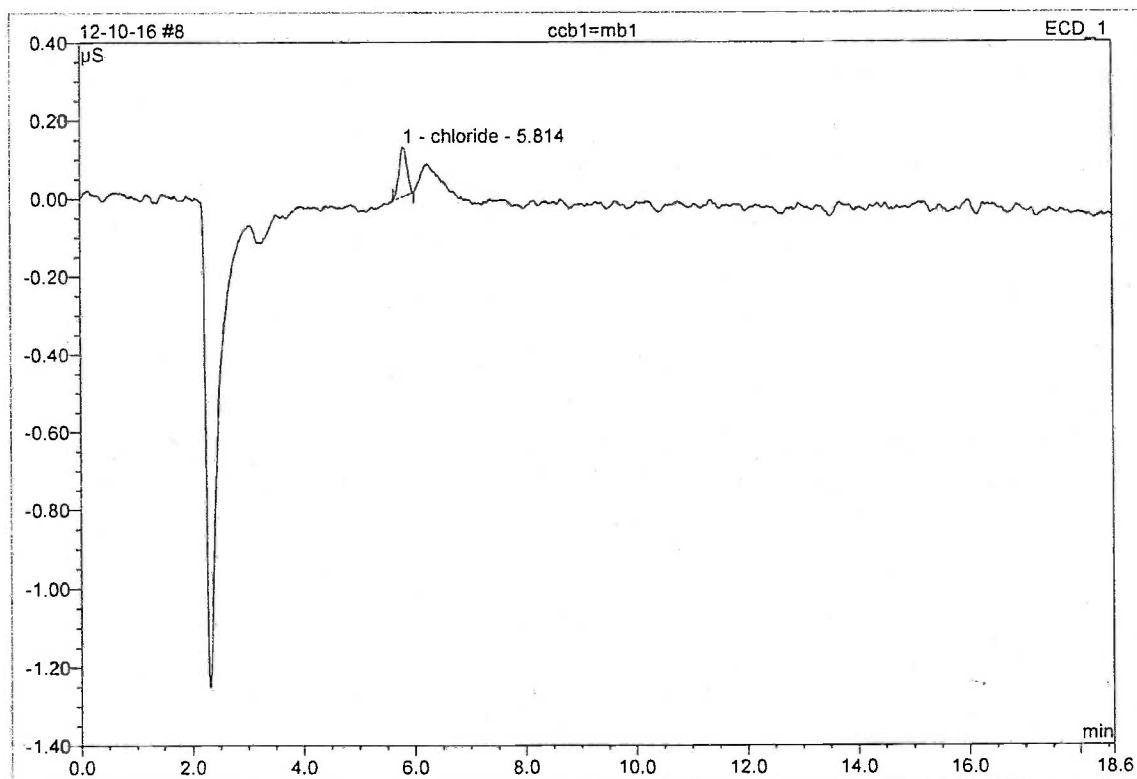
ALAB : 00064

CONFIDENTIAL

LMC-PET-00001672

8 ccb1=mb1

Sample Name:	ccb1=mb1	Injection Volume:	20.0
Vial Number:	536	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/16/2012 9:31	Sample Weight:	1.0000
Run Time (min):	18.61	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.81	chloride	0.127	0.021	100.00	0.084	BMB
Total:			0.127	0.021	100.00	0.084	

MB

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00065

CONFIDENTIAL

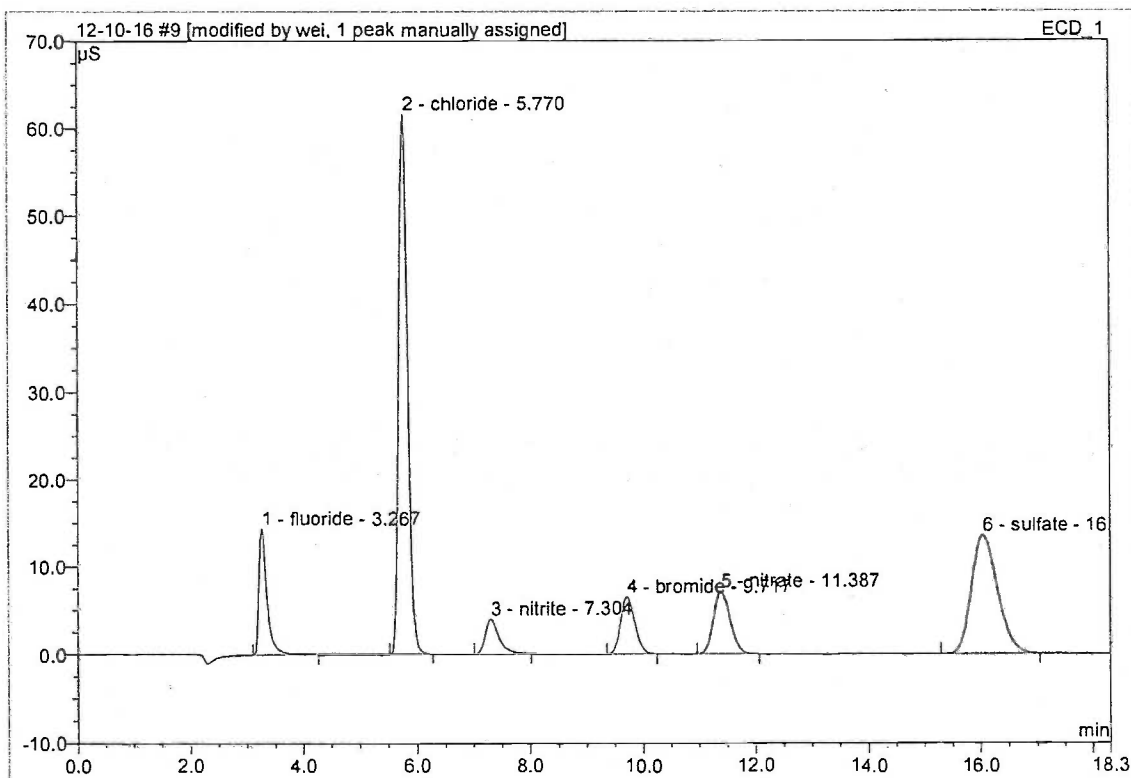
LMC-PET-00001673

9 ccv1

f=8 cl=40 no2=10 no3=20 so4=40

Sample Name: ccv1
 Vial Number: 601
 Sample Type: unknown
 Control Program: anion_program
 Quantif. Method: PERCHLORATE METHOD
 Recording Time: 10/16/2012 9:54
 Run Time (min): 18.31

Injection Volume: 20.0
 Channel: ECD_1
 Wavelength: n.a.
 Bandwidth: n.a.
 Dilution Factor: 1.0000
 Sample Weight: 1.0000
 Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.27	fluoride	14.369	2.406	9.27	8.175	BMB
2	5.77	chloride	61.548	10.864	41.85	40.538	BMB
3	7.30	nitrite	3.910	1.109	4.27	9.587	BMB
4	9.72	bromide	6.470	1.896	7.30	20.377	BMB
5	11.39	nitrate	7.098	2.437	9.39	20.304	BMB
6	16.05	sulfate	13.476	7.245	27.91	39.268	BMB^
Total:			106.873	25.957	100.00	138.249	

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

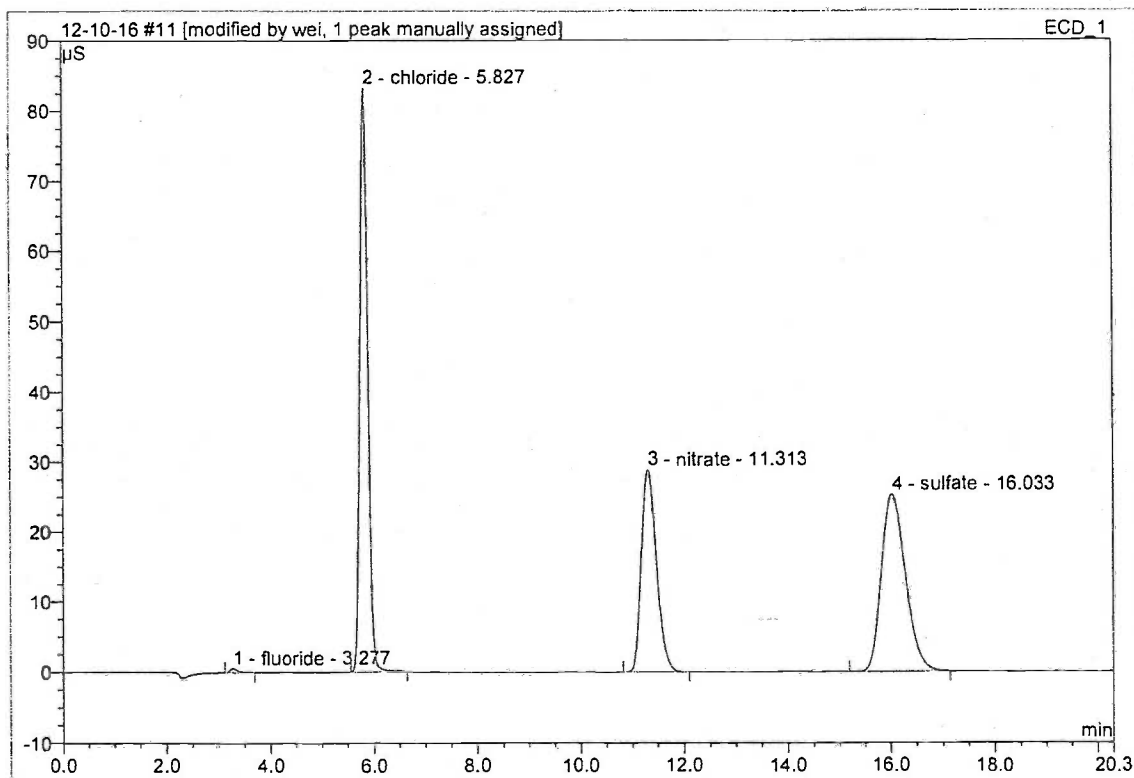
ALAB : 00066

CONFIDENTIAL

LMC-PET-00001674

11 312159-003-4**arcadis no3/no2**

Sample Name:	312159-003-4	Injection Volume:	20.0
Vial Number:	603	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/16/2012 10:35	Sample Weight:	1.0000
Run Time (min):	19.90	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.585	0.107	0.28	0.376	BMB
2	5.83	chloride	83.256	14.558	38.36	52.925	BMB
3	11.31	nitrate	28.807	9.798	25.81	68.871	BMB
4	16.03	sulfate	25.218	13.492	35.55	69.047	BMB^
Total:			137.866	37.955	100.00	191.220	

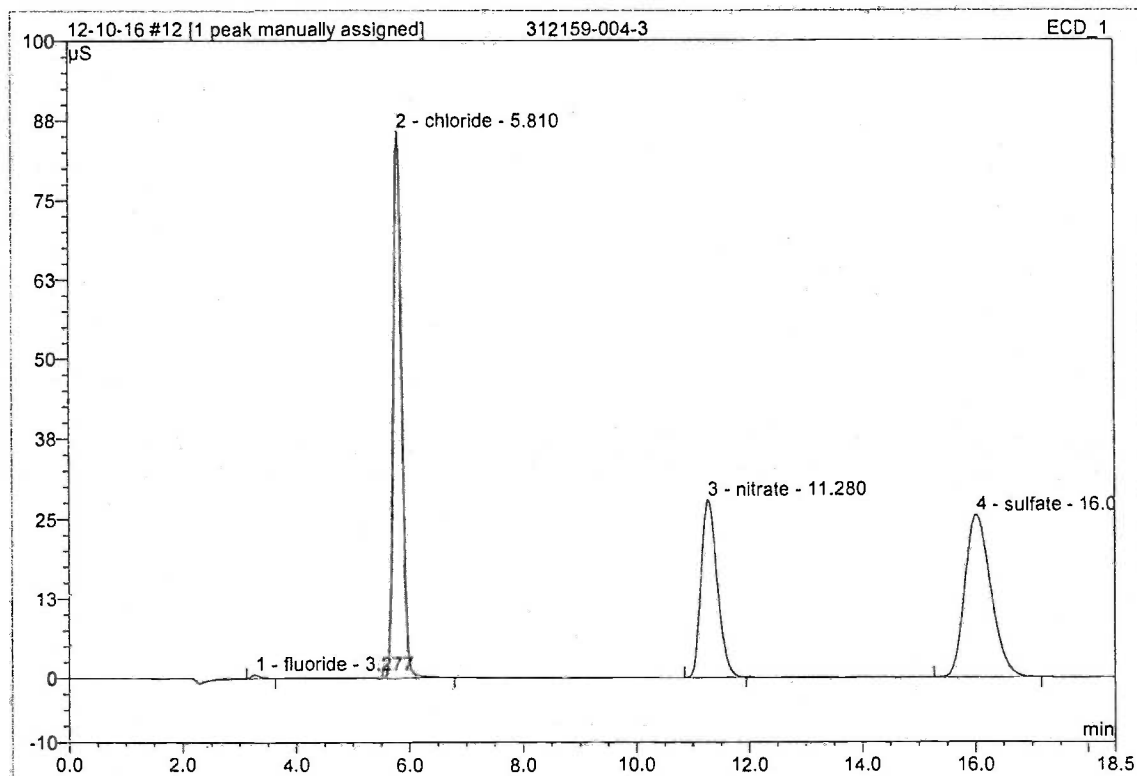
Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

12 312159-004-3**arcadis no3/no2**

Sample Name: 312159-004-3
Vial Number: 604
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/16/2012 10:58
Run Time (min): 18.48

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 1.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.597	0.106	0.28	0.370	BMB
2	5.81	chloride	85.766	14.876	39.16	53.967	BMB
3	11.28	nitrate	27.874	9.392	24.72	66.520	BMB
4	16.02	sulfate	25.476	13.619	35.85	69.624	BMB^
Total:			139.713	37.993	100.00	190.480	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00067

CONFIDENTIAL

LMC-PET-00001676

13 312159-006-2**arcadis no3/no2 mb**

Sample Name: 312159-006-2

Vial Number: 604

Sample Type: unknown

Control Program: anion_program

Quantif. Method: PERCHLORATE METHOD

Recording Time: 10/16/2012 11:19

Run Time (min): 18.26

Injection Volume: 20.0

Channel: ECD_1

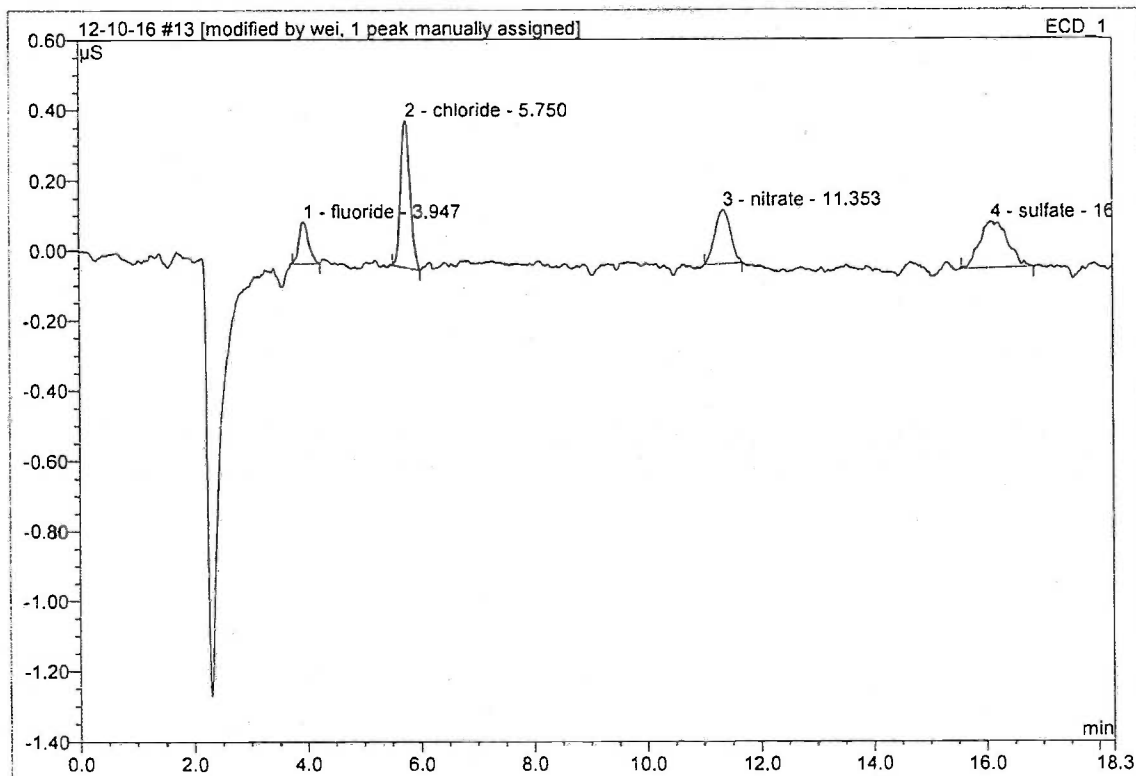
Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000

Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.95	fluoride	0.119	0.024	10.41	0.083	BMB
2	5.75	chloride	0.419	0.080	35.00	0.326	BMB
3	11.35	nitrate	0.155	0.048	20.97	0.431	BMB
4	16.11	sulfate	0.132	0.077	33.62	0.450	BMB*^
Total:			0.825	0.228	100.00	1.291	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00068

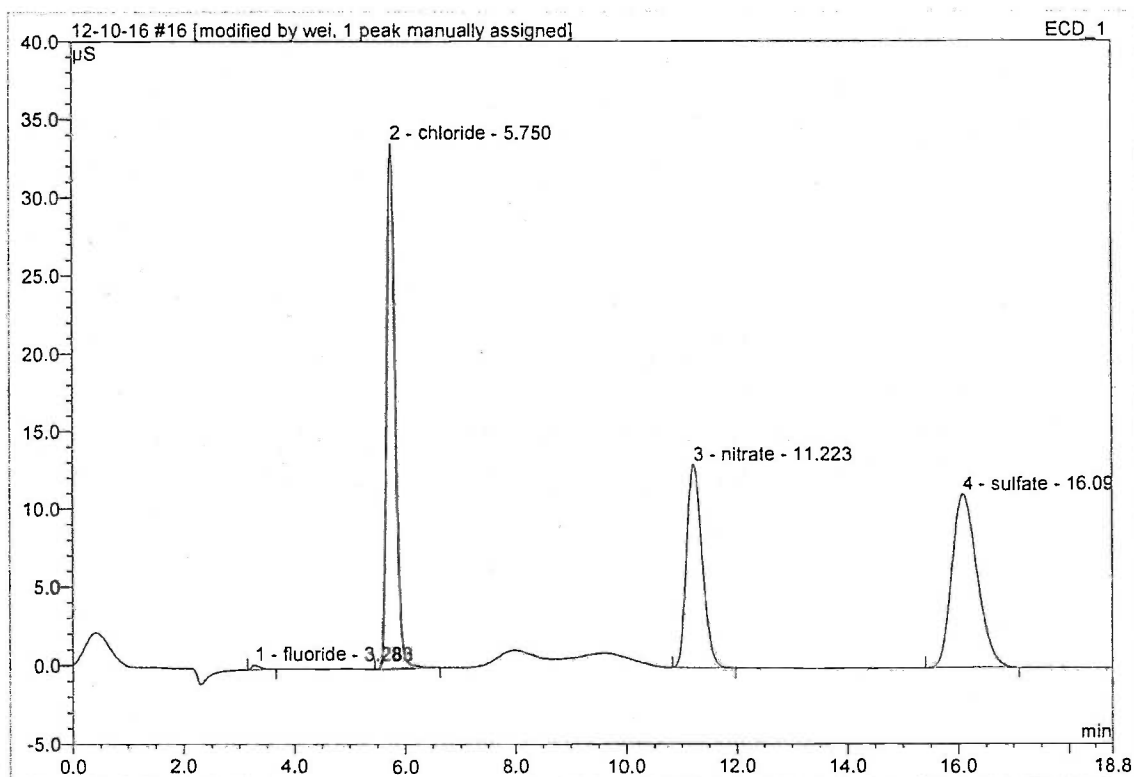
CONFIDENTIAL

LMC-PET-00001677

16 312159-003-4

rep for no2

Sample Name:	312159-003-4	Injection Volume:	20.0
Vial Number:	606	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	2.0000
Recording Time:	10/16/2012 12:38	Sample Weight:	1.0000
Run Time (min):	18.80	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.301	0.054	0.33	0.376	BMB
2	5.75	chloride	33.661	6.063	37.26	46.954	BMB
3	11.22	nitrate	12.981	4.263	26.19	67.557	BMB
4	16.09	sulfate	11.089	5.895	36.22	64.777	BMB^
Total:			58.032	16.274	100.00	179.664	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00069

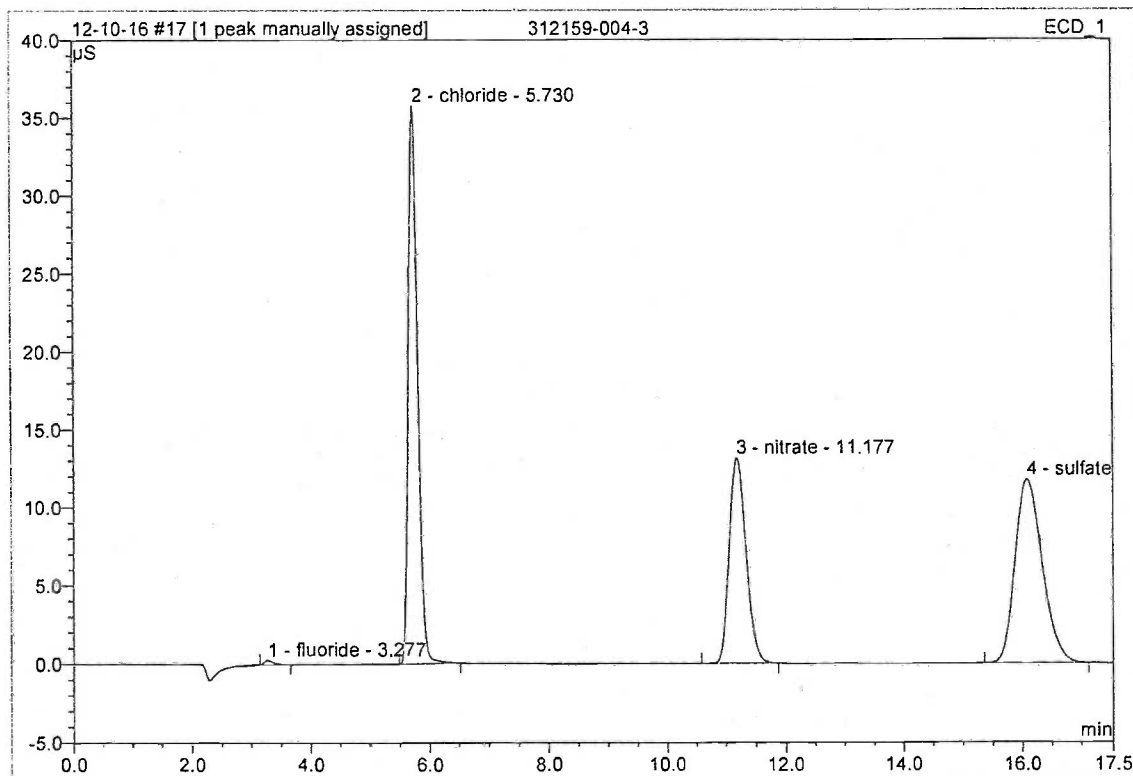
CONFIDENTIAL

LMC-PET-00001678

17 312159-004-3

rep for no2

Sample Name:	312159-004-3	Injection Volume:	20.0
Vial Number:	607	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	2.0000
Recording Time:	10/16/2012 12:59	Sample Weight:	1.0000
Run Time (min):	17.53	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.285	0.052	0.31	0.367	BMB
2	5.73	chloride	35.772	6.417	37.67	49.551	BMB
3	11.18	nitrate	13.138	4.307	25.29	68.185	BMB
4	16.09	sulfate	11.752	6.257	36.73	68.503	BMB^
Total:			60.946	17.033	100.00	186.606	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00070

CONFIDENTIAL

LMC-PET-00001679

18 312158-002-1**cdm cl/so4/no3**

Sample Name: 312158-002-1

Vial Number: 608

Sample Type: unknown

Control Program: anion_program

Quantif. Method: PERCHLORATE METHOD

Recording Time: 10/16/2012 13:19

Run Time (min): 19.59

Injection Volume: 20.0

Channel: ECD_1

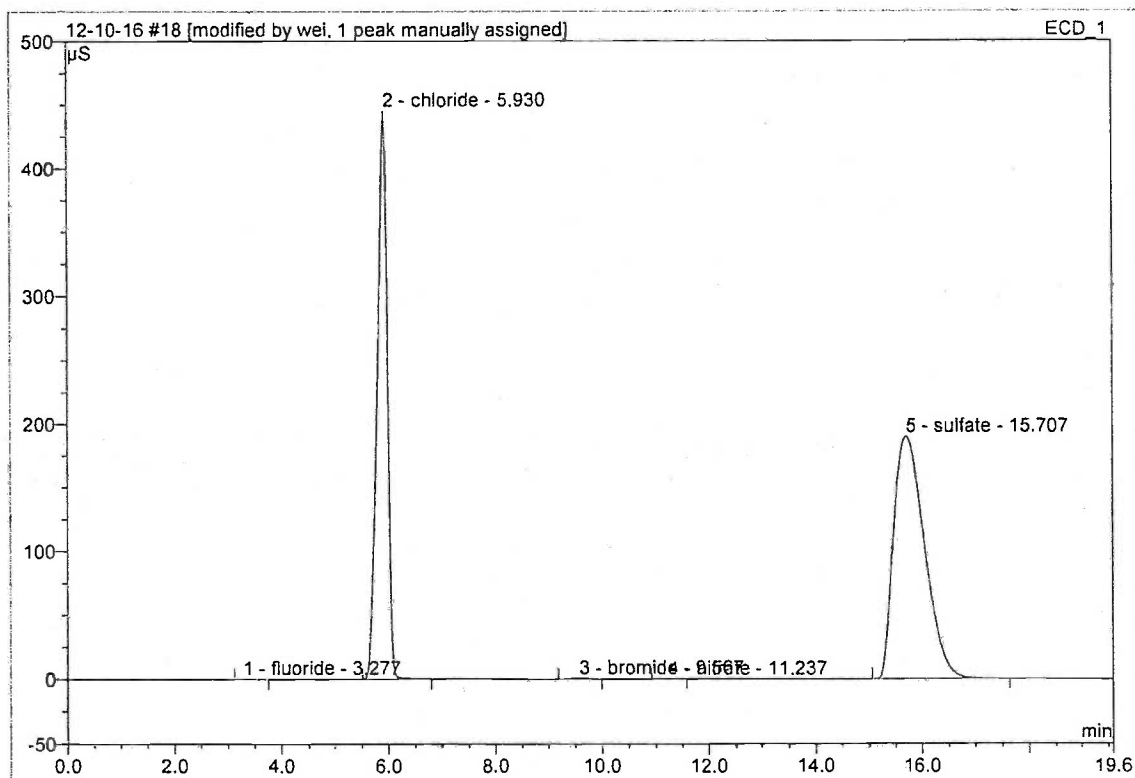
Wavelength: n.a.

Bandwidth: n.a.

Dilution Factor: 1.0000

Sample Weight: 1.0000

Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	0.417	0.084	0.04	0.295	BMB
2	5.93	chloride	445.009	97.780	43.32	251.673	BMB
3	9.57	bromide	0.646	0.187	0.08	2.136	BMB
4	11.24	nitrate	0.109	0.041	0.02	0.373	BMB*
5	15.71	sulfate	189.337	127.629	56.54	402.300	BMB^
Total:			635.517	225.722	100.00	656.777	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 00071

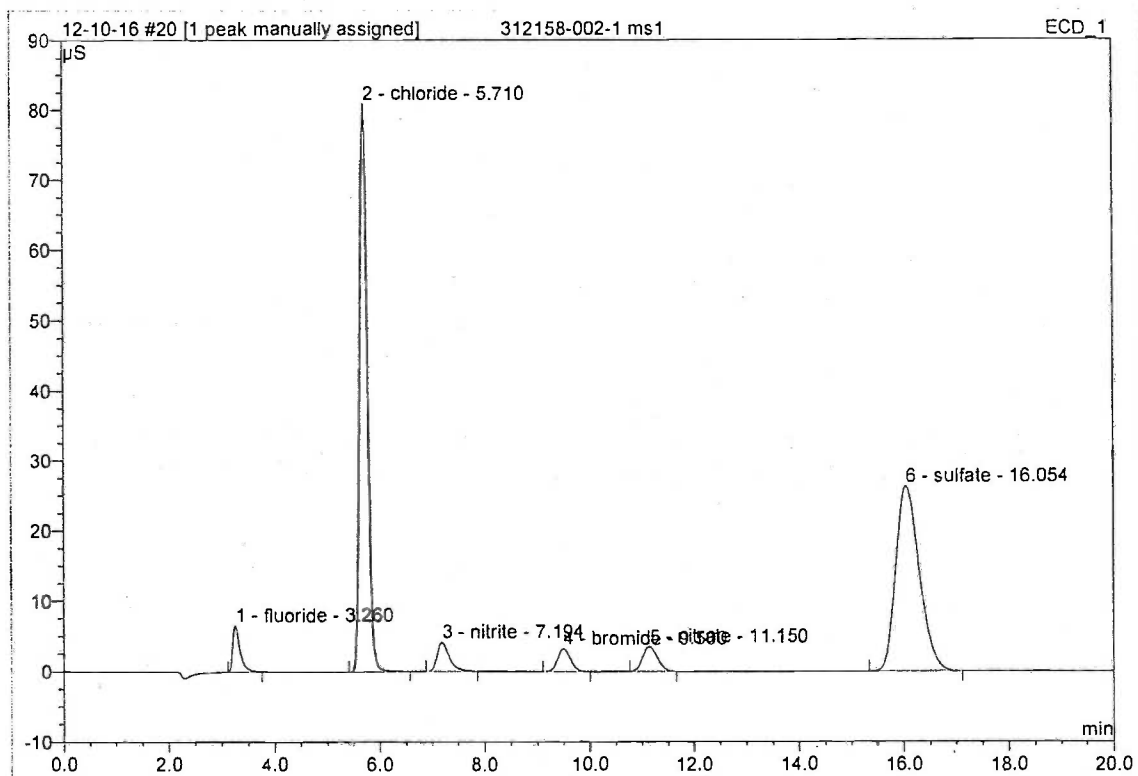
CONFIDENTIAL

LMC-PET-00001680

20 312158-002-1 ms1

ms1

Sample Name:	312158-002-1 ms1	Injection Volume:	20.0
Vial Number:	610	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	10.0000
Recording Time:	10/16/2012 14:02	Sample Weight:	1.0000
Run Time (min):	20.01	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	6.570	1.059	3.32	36.618	BMB
2	5.71	chloride	80.921	13.873	43.49	506.713	BMB
3	7.19	nitrite	4.081	1.109	3.48	95.935	BMB
4	9.50	bromide	3.210	0.919	2.88	102.027	BMB
5	11.15	nitrate	3.507	1.150	3.60	99.712	BMB
6	16.05	sulfate	26.247	13.786	43.22	703.751	BMB^
Total:			124.536	31.895	100.00	1544.755	

Perchlorate/Integration

MS

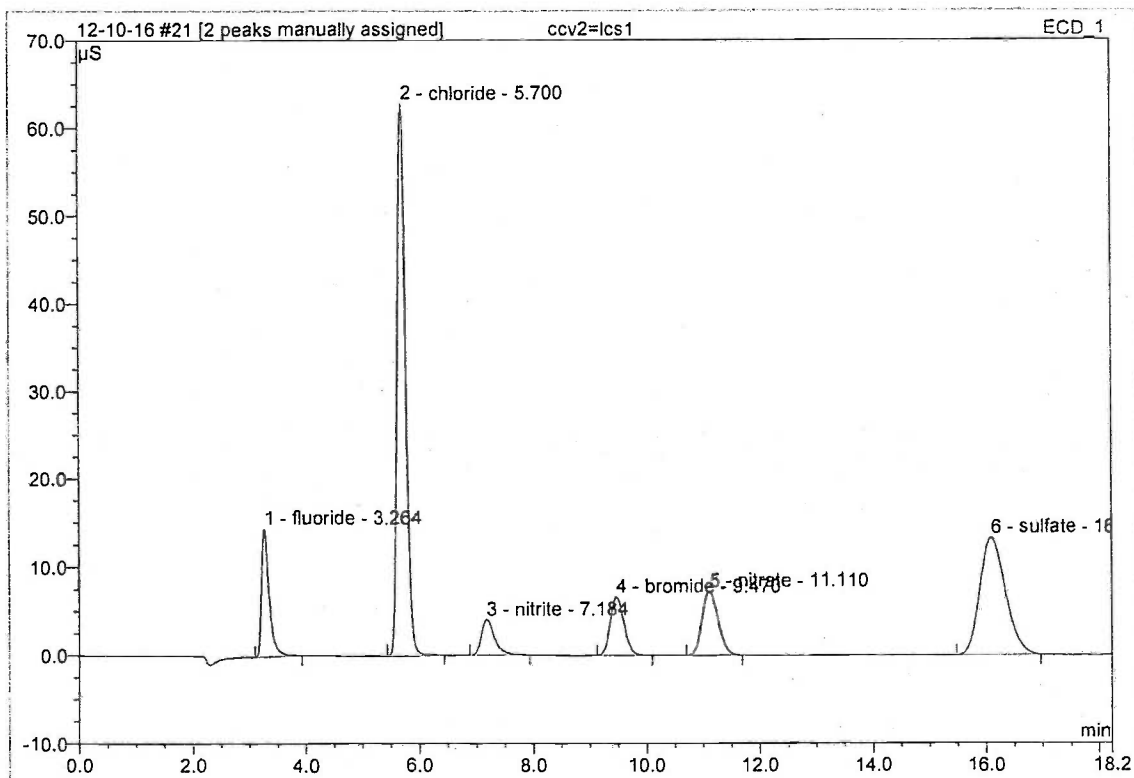
Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 00072

21 ccv2=lcs1**f=8 cl=40 no2=10 no3=20 so4=40**

Sample Name: **ccv2=lcs1**
 Vial Number: **611**
 Sample Type: **unknown**
 Control Program: **anion_program**
 Quantif. Method: **PERCHLORATE METHOD**
 Recording Time: **10/16/2012 14:25**
 Run Time (min): **18.23**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.26	fluoride	14.365	2.265	8.97	7.710	BMB
2	5.70	chloride	62.739	10.669	42.26	39.869	BMB
3	7.18	nitrite	4.043	1.097	4.34	9.488	BMB
4	9.47	bromide	6.642	1.860	7.37	20.013	BMB
5	11.11	nitrate	7.274	2.395	9.49	19.980	BMB [^]
6	16.10	sulfate	13.233	6.962	27.57	37.839	BMB [^]
Total:			108.296	25.248	100.00	134.899	

LCS

Perchlorate/Integration

 Chromeleon (c) Dionex 1996-2001
 Version 6.80 Build 2212

ALAB: 00073

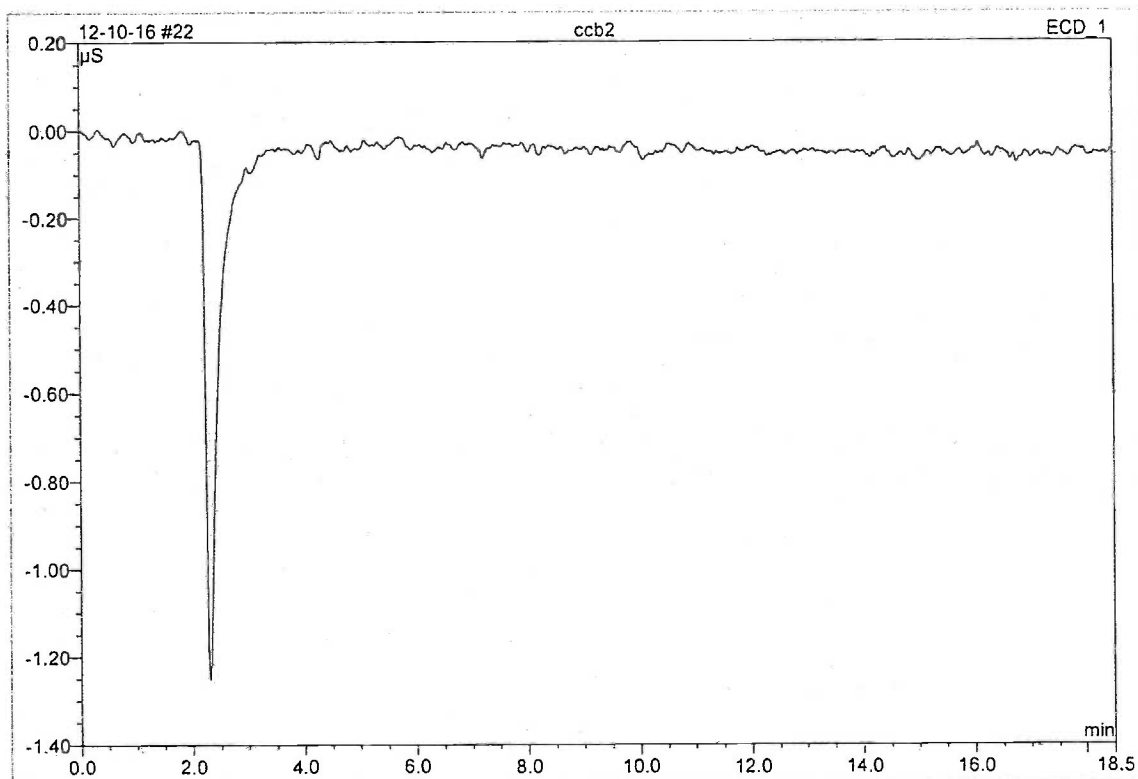
CONFIDENTIAL

LMC-PET-00001682

22 ccb2

Sample Name: ccb2
Vial Number: 612
Sample Type: unknown
Control Program: anion_program
Quantif. Method: PERCHLORATE METHOD
Recording Time: 10/16/2012 14:45
Run Time (min): 18.51

Injection Volume: 20.0
Channel: ECD_1
Wavelength: n.a.
Bandwidth: n.a.
Dilution Factor: 1.0000
Sample Weight: 1.0000
Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

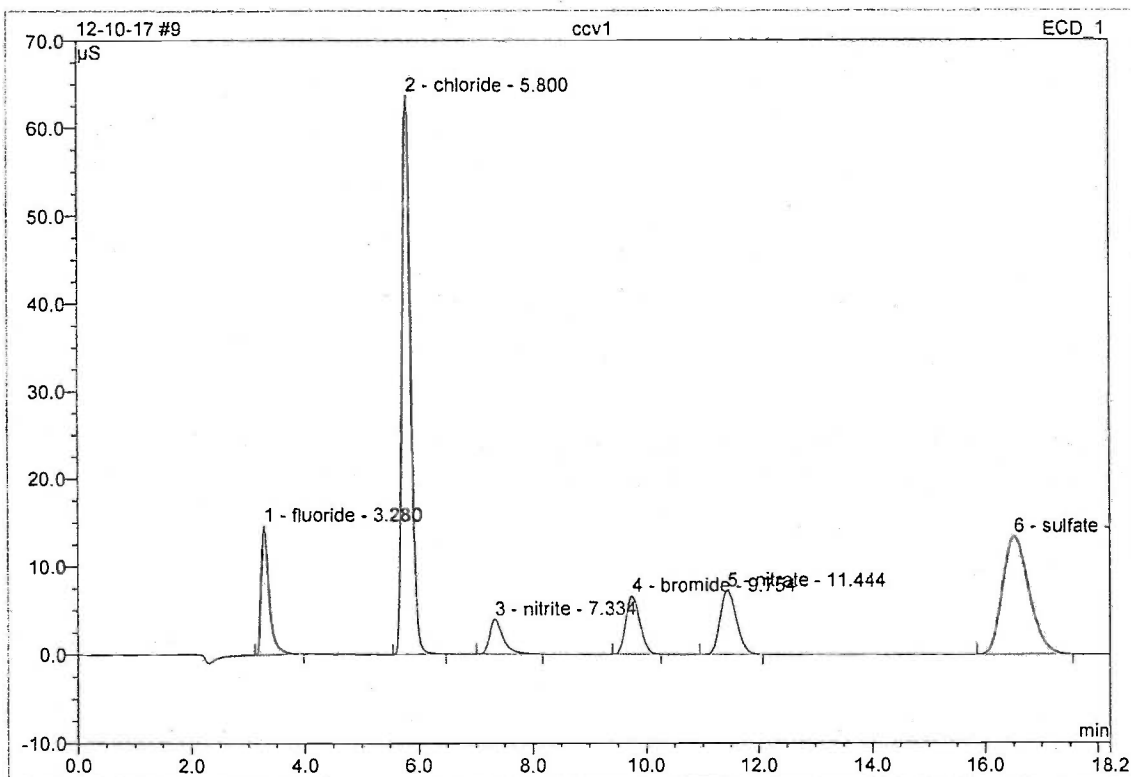
Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00074

9 ccv1**f=8 cl=40 no2=10 no3=20 so4=40**

Sample Name:	ccv1	Injection Volume:	20.0
Vial Number:	615	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	1.0000
Recording Time:	10/17/2012 10:08	Sample Weight:	1.0000
Run Time (min):	18.22	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppb	Type
1	3.28	fluoride	14.633	2.347	9.07	7.981	BMB
2	5.80	chloride	63.645	10.846	41.93	40.475	BMB
3	7.33	nitrite	3.923	1.103	4.26	9.537	BMB
4	9.75	bromide	6.579	1.876	7.25	20.178	BMB
5	11.44	nitrate	7.217	2.451	9.48	20.415	BMB
6	16.52	sulfate	13.311	7.245	28.01	39.264	BMB
Total:			109.309	25.867	100.00	137.849	

Perchlorate/Integration

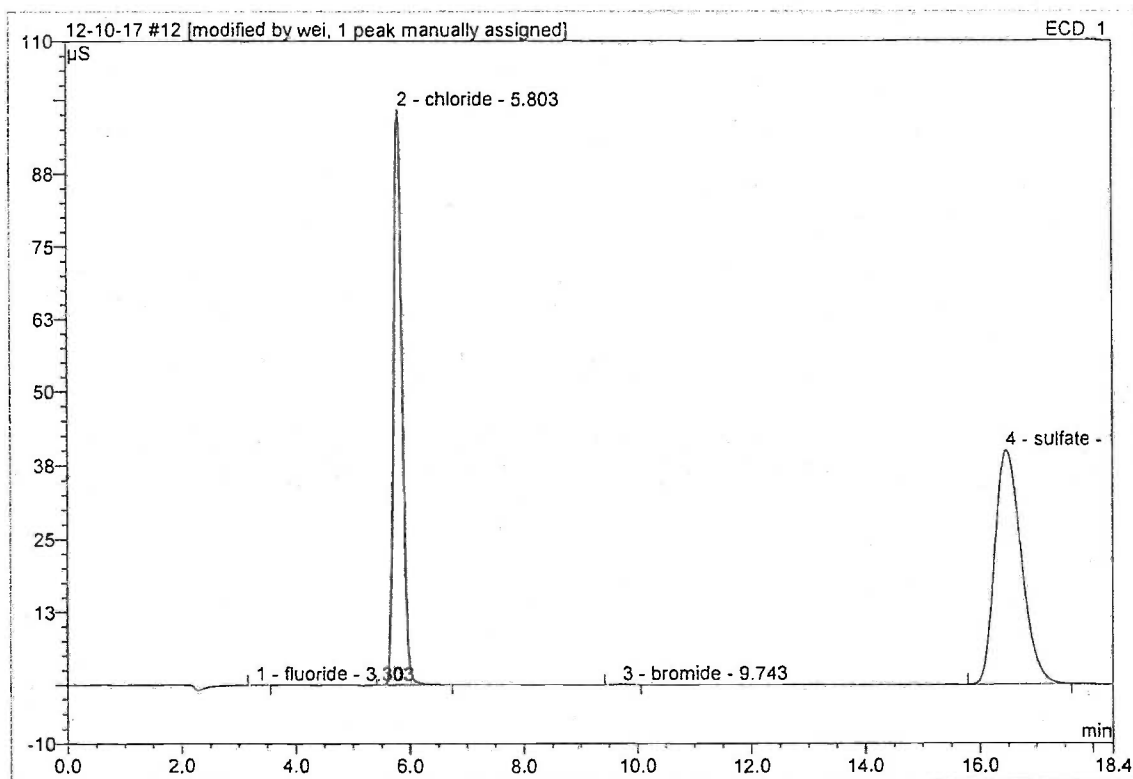
Chromleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB: 00075

12 312158-002-1

cdm rep

Sample Name:	312158-002-1	Injection Volume:	20.0
Vial Number:	617	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	anion_program	Bandwidth:	n.a.
Quantif. Method:	PERCHLORATE METHOD	Dilution Factor:	5.0000
Recording Time:	10/17/2012 10:51	Sample Weight:	1.0000
Run Time (min):	18.36	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppb	Type
1	3.30	fluoride	0.102	0.016	0.04	0.286	BMB
2	5.80	chloride	98.366	17.204	44.21	307.292	BMB
3	9.74	bromide	0.155	0.047	0.12	2.703	BMB
4	16.48	sulfate	39.876	21.650	55.63	519.986	BMB^
Total:			138.499	38.918	100.00	830.268	

Perchlorate/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.80 Build 2212

ALAB : 00076

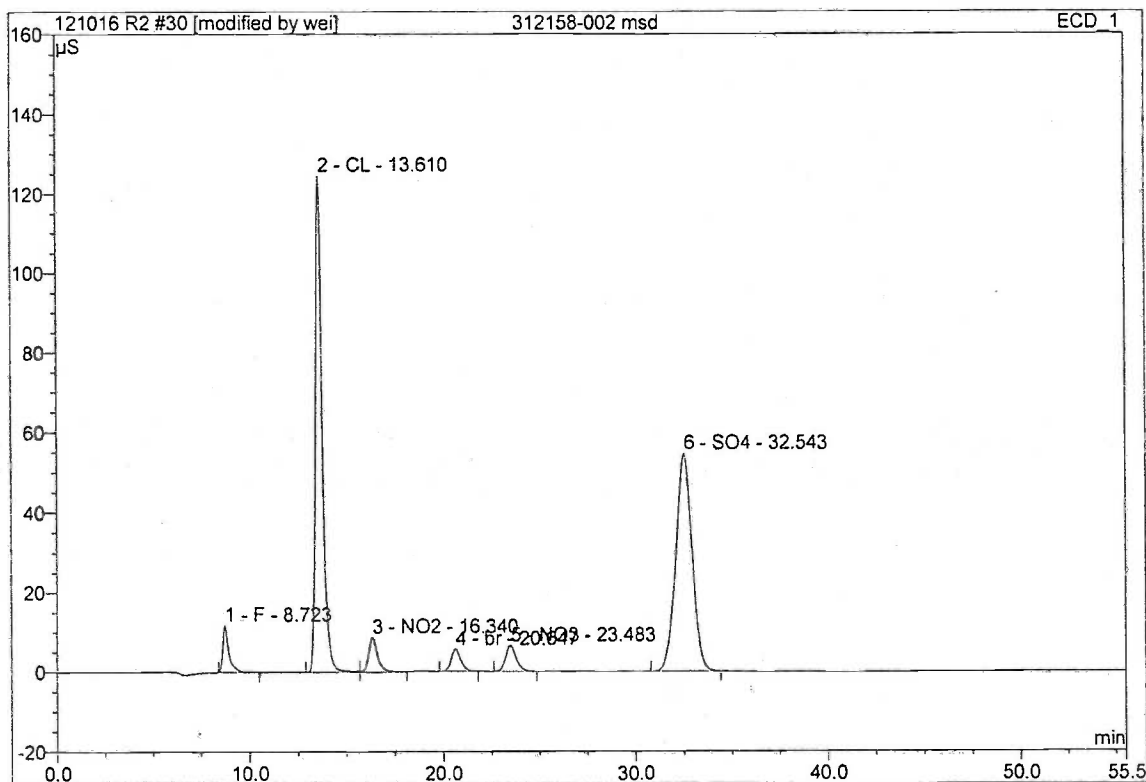
CONFIDENTIAL

LMC-PET-00001685

30 312158-002 msd**msd qc for ipc 10/16/12**

Sample Name: **312158-002 msd**
 Vial Number: **2675**
 Sample Type: **unknown**
 Control Program: **CD20 PROGRAM 55 min**
 Quantif. Method: **CD20 METHOD**
 Recording Time: **10/17/2012 7:13**
 Run Time (min): **55.50**

Injection Volume: **20.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **8.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	8.72	F	11.864	4.393	3.63	40.757	BMB
2	13.61	CL	124.558	50.855	42.03	532.286	BM
3	16.34	NO2	8.775	4.707	3.89	103.042	MB
4	20.65	br	5.641	3.265	2.70	104.392	BMB
5	23.48	NO3	6.579	4.232	3.50	102.245	BMB
6	32.54	SO4	54.403	53.556	44.26	741.670	BMB
Total:			211.819	121.007	100.00	1624.391	

MSD

EPA 6010B/200.7

ICP Metals

ALAB : 00076

CONFIDENTIAL

LMC-PET-00001687

Sequence No.: 42
 Sample ID: 312159-003
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 47
 Date Collected: 10/17/2012 1:14:42 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312159-003

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-14.6	-0.0001 mg/L	0.00189	-0.0001 mg/L	0.00189	>999.9%
Al 308.215	287.6	0.0084 mg/L	0.00379	0.0084 mg/L	0.00379	45.13%
As 188.979	82.3	0.0149 mg/L	0.00905	0.0149 mg/L	0.00905	60.91%
B 249.677	9272.1	0.1049 mg/L	0.00086	0.1049 mg/L	0.00086	0.82%
Ba 233.527	14900.3	0.1447 mg/L	0.01126	0.1447 mg/L	0.01126	7.79%
Be 313.107	134.5	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	22.56%
Bi 223.061	20.9	0.0096 mg/L	0.00013	0.0096 mg/L	0.00013	1.37%
Bi 190.171	14.0	0.0174 mg/L	0.00546	0.0174 mg/L	0.00546	31.45%
Ca 315.887	229117.3	113.0 mg/L	5.57	113.0 mg/L	5.57	4.93%
Ca 317.933	270118.8	112.7 mg/L	5.26	112.7 mg/L	5.26	4.67%
Cd 214.440	-177.3	-0.0040 mg/L	0.00011	-0.0040 mg/L	0.00011	2.74%
Co 228.616	17.8	0.0007 mg/L	0.00023	0.0007 mg/L	0.00023	33.00%
Cr 267.716	158.9	0.0041 mg/L	0.00002	0.0041 mg/L	0.00002	0.51%
Cu 324.752	531.6	0.0018 mg/L	0.00062	0.0018 mg/L	0.00062	34.67%
Fe 238.204	483.1	0.0123 mg/L	0.00004	0.0123 mg/L	0.00004	0.37%
Fe 273.955	208.5	0.0125 mg/L	0.00014	0.0125 mg/L	0.00014	1.11%
K 766.490	15686.9	5.939 mg/L	0.3127	5.939 mg/L	0.3127	5.27%
Mg 279.077	7897.6	35.29 mg/L	0.677	35.29 mg/L	0.677	1.92%
Mn 257.610	333.0	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	4.48%
Mo 202.031	36.3	0.0081 mg/L	0.00007	0.0081 mg/L	0.00007	0.85%
Na 589.592	259322.4	43.65 mg/L	1.908	43.65 mg/L	1.908	4.37%
Na 330.237	308.8	42.70 mg/L	0.165	42.70 mg/L	0.165	0.39%
Ni 231.604	3.8	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	63.42%
Pb 220.353	117.9	0.0060 mg/L	0.00508	0.0060 mg/L	0.00508	84.69%
Sb 206.836	-6.0	-0.0055 mg/L	0.00139	-0.0055 mg/L	0.00139	25.25%
Se 196.026	5.8	0.0007 mg/L	0.00420	0.0007 mg/L	0.00420	563.12%
Sn 189.927	-95.2	-0.0309 mg/L	0.00281	-0.0309 mg/L	0.00281	9.07%
Sr 407.771	314468.5	0.7311 mg/L	0.02378	0.7311 mg/L	0.02378	3.25%
Sr 421.552	176495.7	0.7341 mg/L	0.02932	0.7341 mg/L	0.02932	3.99%
Ti 334.940	1847.2	0.0050 mg/L	0.00045	0.0050 mg/L	0.00045	8.94%
Tl 190.801	-65.0	-0.0118 mg/L	0.00581	-0.0118 mg/L	0.00581	49.38%
V 290.880	127.9	0.0008 mg/L	0.00097	0.0008 mg/L	0.00097	117.16%
W 207.912	14.8	0.0060 mg/L	0.00039	0.0060 mg/L	0.00039	6.60%
Y 371.029	1504.7				42.04	2.79%
Zn 206.200	1437.8	0.0977 mg/L	0.00022	0.0977 mg/L	0.00022	0.23%
P 213.617	54.1	0.0398 mg/L	0.00104	0.0398 mg/L	0.00104	2.61%
Si 251.611	539683.5	13.76 mg/L	1.201	13.76 mg/L	1.201	8.73%
Li 670.784	-292.9	-0.0045 mg/L	0.01600	-0.0045 mg/L	0.01600	358.49%
Li 610.362	-2050.1	-0.2969 mg/L	0.11546	-0.2969 mg/L	0.11546	38.89%
S 181.975	5990.4	24.61 mg/L	0.315	24.61 mg/L	0.315	1.28%

ALAB: 00077

Sequence No.: 43
 Sample ID: 312159-004
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 48
 Date Collected: 10/17/2012 1:17:18 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312159-004

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Ag 328.068	-79.7	-0.0006 mg/L	0.00013	0.00013	-0.0006 mg/L	0.00013	21.54%
Al 308.215	503.7	0.0147 mg/L	0.00113	0.00113	0.0147 mg/L	0.00113	7.70%
As 188.979	118.6	0.0214 mg/L	0.00293	0.00293	0.0214 mg/L	0.00293	13.65%
B 249.677	9068.6	0.1026 mg/L	0.00013	0.00013	0.1026 mg/L	0.00013	0.13%
Ba 233.527	15309.5	0.1486 mg/L	0.00311	0.00311	0.1486 mg/L	0.00311	2.10%
Be 313.107	-334.0	-0.0002 mg/L	0.00013	0.00013	-0.0002 mg/L	0.00013	88.46%
Bi 223.061	13.3	0.0061 mg/L	0.00016	0.00016	0.0061 mg/L	0.00016	2.61%
Bi 190.171	19.5	0.0241 mg/L	0.00448	0.00448	0.0241 mg/L	0.00448	18.59%
Ca 315.887	238796.1	117.8 mg/L	4.37	4.37	117.8 mg/L	4.37	3.71%
Ca 317.933	282719.4	118.0 mg/L	4.71	4.71	118.0 mg/L	4.71	3.99%
Cd 214.440	-188.7	-0.0043 mg/L	0.00007	0.00007	-0.0043 mg/L	0.00007	1.69%
Co 228.616	23.1	0.0009 mg/L	0.00004	0.00004	0.0009 mg/L	0.00004	4.82%
Cr 267.716	141.5	0.0037 mg/L	0.00038	0.00038	0.0037 mg/L	0.00038	10.49%
Cu 324.752	227.8	0.0008 mg/L	0.00075	0.00075	0.0008 mg/L	0.00075	97.70%
Fe 238.204	656.7	0.0167 mg/L	0.00028	0.00028	0.0167 mg/L	0.00028	1.68%
Fe 273.955	280.3	0.0168 mg/L	0.00088	0.00088	0.0168 mg/L	0.00088	5.22%
K 766.490	16882.7	6.392 mg/L	0.2714	0.2714	6.392 mg/L	0.2714	4.25%
Mg 279.077	8383.3	37.46 mg/L	0.007	0.007	37.46 mg/L	0.007	0.02%
Mn 257.610	378.4	0.0009 mg/L	0.00003	0.00003	0.0009 mg/L	0.00003	3.06%
Mo 202.031	36.8	0.0083 mg/L	0.00073	0.00073	0.0083 mg/L	0.00073	8.83%
Na 589.592	277512.2	46.72 mg/L	2.293	2.293	46.72 mg/L	2.293	4.91%
Na 330.237	340.2	47.04 mg/L	0.830	0.830	47.04 mg/L	0.830	1.76%
Ni 231.604	18.3	0.0010 mg/L	0.00039	0.00039	0.0010 mg/L	0.00039	40.03%
Pb 220.353	55.8	0.0028 mg/L	0.00410	0.00410	0.0028 mg/L	0.00410	144.36%
Sb 206.836	-12.1	-0.0110 mg/L	0.00381	0.00381	-0.0110 mg/L	0.00381	34.57%
Se 196.026	-73.6	-0.0094 mg/L	0.00894	0.00894	-0.0094 mg/L	0.00894	95.10%
Sn 189.927	-96.9	-0.0315 mg/L	0.00186	0.00186	-0.0315 mg/L	0.00186	5.92%
Sr 407.771	329237.9	0.7654 mg/L	0.03032	0.03032	0.7654 mg/L	0.03032	3.96%
Sr 421.552	184939.0	0.7693 mg/L	0.03360	0.03360	0.7693 mg/L	0.03360	4.37%
Ti 334.940	2250.6	0.0061 mg/L	0.00082	0.00082	0.0061 mg/L	0.00082	13.37%
Tl 190.801	-60.9	-0.0110 mg/L	0.00332	0.00332	-0.0110 mg/L	0.00332	30.11%
V 290.880	-205.1	-0.0013 mg/L	0.00084	0.00084	-0.0013 mg/L	0.00084	63.55%
W 207.912	12.6	0.0051 mg/L	0.00075	0.00075	0.0051 mg/L	0.00075	14.72%
Y 371.029	1762.2					19.61	1.11%
Zn 206.200	1601.5	0.1088 mg/L	0.00090	0.00090	0.1088 mg/L	0.00090	0.83%
P 213.617	49.1	0.0361 mg/L	0.00348	0.00348	0.0361 mg/L	0.00348	9.64%
Si 251.611	526829.7	13.43 mg/L	0.347	0.347	13.43 mg/L	0.347	2.58%
Li 670.784	320.1	0.0049 mg/L	0.00975	0.00975	0.0049 mg/L	0.00975	199.74%
Li 610.362	-1832.8	-0.2654 mg/L	0.08961	0.08961	-0.2654 mg/L	0.08961	33.76%
S 181.975	6375.4	26.19 mg/L	0.079	0.079	26.19 mg/L	0.079	0.30%

ALAB: 00078

Sequence No.: 44
 Sample ID: 312159-005
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 49
 Date Collected: 10/17/2012 1:19:54 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312159-005

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	39.2	0.0003 mg/L	0.00076	0.0003 mg/L	0.00076	252.94%
Al 308.215	123.7	0.0036 mg/L	0.00238	0.0036 mg/L	0.00238	65.86%
As 188.979	124.2	0.0224 mg/L	0.00128	0.0224 mg/L	0.00128	5.71%
B 249.677	25317.7	0.2864 mg/L	0.00459	0.2864 mg/L	0.00459	1.60%
Ba 233.527	12073.4	0.1172 mg/L	0.00002	0.1172 mg/L	0.00002	0.01%
Be 313.107	316.0	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	140.68%
Bi 223.061	25.6	0.0118 mg/L	0.00567	0.0118 mg/L	0.00567	48.15%
Bi 190.171	12.9	0.0159 mg/L	0.00991	0.0159 mg/L	0.00991	62.15%
Ca 315.887	226486.2	111.7 mg/L	5.31	111.7 mg/L	5.31	4.75%
Ca 317.933	268031.6	111.9 mg/L	5.29	111.9 mg/L	5.29	4.73%
Cd 214.440	-185.8	-0.0042 mg/L	0.00011	-0.0042 mg/L	0.00011	2.59%
Co 228.616	17.1	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	15.30%
Cr 267.716	323.1	0.0084 mg/L	0.00018	0.0084 mg/L	0.00018	2.12%
Cu 324.752	266.4	0.0009 mg/L	0.00103	0.0009 mg/L	0.00103	115.64%
Fe 238.204	1804.6	0.0458 mg/L	0.00008	0.0458 mg/L	0.00008	0.18%
Fe 273.955	768.8	0.0462 mg/L	0.00042	0.0462 mg/L	0.00042	0.90%
K 766.490	16179.4	6.126 mg/L	0.2517	6.126 mg/L	0.2517	4.11%
Mg 279.077	6943.3	31.03 mg/L	0.161	31.03 mg/L	0.161	0.52%
Mn 257.610	1378.0	0.0032 mg/L	0.00001	0.0032 mg/L	0.00001	0.37%
Mo 202.031	26.4	0.0059 mg/L	0.00040	0.0059 mg/L	0.00040	6.78%
Na 589.592	224149.7	37.73 mg/L	1.517	37.73 mg/L	1.517	4.02%
Na 330.237	285.1	39.43 mg/L	0.693	39.43 mg/L	0.693	1.76%
Ni 231.604	54.0	0.0029 mg/L	0.00018	0.0029 mg/L	0.00018	6.19%
Pb 220.353	82.1	0.0042 mg/L	0.00228	0.0042 mg/L	0.00228	54.60%
Sb 206.836	-5.9	-0.0054 mg/L	0.00056	-0.0054 mg/L	0.00056	10.37%
Se 196.026	72.9	0.0093 mg/L	0.01060	0.0093 mg/L	0.01060	113.91%
Sn 189.927	-93.0	-0.0302 mg/L	0.00007	-0.0302 mg/L	0.00007	0.25%
Sr 407.771	347941.7	0.8089 mg/L	0.03339	0.8089 mg/L	0.03339	4.13%
Sr 421.552	195789.1	0.8144 mg/L	0.03605	0.8144 mg/L	0.03605	4.43%
Ti 334.940	1812.8	0.0049 mg/L	0.00115	0.0049 mg/L	0.00115	23.34%
Tl 190.801	-67.3	-0.0122 mg/L	0.00775	-0.0122 mg/L	0.00775	63.63%
V 290.880	-268.2	-0.0017 mg/L	0.00255	-0.0017 mg/L	0.00255	146.41%
W 207.912	11.1	0.0045 mg/L	0.00133	0.0045 mg/L	0.00133	29.61%
Y 371.029	1392.3				282.05	20.26%
Zn 206.200	1157.8	0.0787 mg/L	0.00003	0.0787 mg/L	0.00003	0.03%
P 213.617	32.4	0.0238 mg/L	0.00263	0.0238 mg/L	0.00263	11.04%
Si 251.611	551582.1	14.06 mg/L	0.325	14.06 mg/L	0.325	2.31%
Li 670.784	924.9	0.0141 mg/L	0.01041	0.0141 mg/L	0.01041	73.80%
Li 610.362	-1731.1	-0.2507 mg/L	0.03794	-0.2507 mg/L	0.03794	15.13%
S 181.975	5696.0	23.40 mg/L	0.017	23.40 mg/L	0.017	0.07%

ALAB: 00079

Sequence No.: 45
 Sample ID: 312159-006
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 10/17/2012 1:22:32 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 312159-006

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-34.3	-0.0003 mg/L	0.00073	-0.0003 mg/L	0.00073	275.56%
Al 308.215	103.1	0.0030 mg/L	0.00226	0.0030 mg/L	0.00226	75.01%
As 188.979	4.4	0.0008 mg/L	0.00369	0.0008 mg/L	0.00369	464.17%
B 249.677	-2754.5	-0.0312 mg/L	0.00008	-0.0312 mg/L	0.00008	0.26%
Ba 233.527	35.9	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	17.26%
Be 313.107	67.3	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	177.47%
Bi 223.061	1.4	0.0007 mg/L	0.00105	0.0007 mg/L	0.00105	158.31%
Bi 190.171	-0.9	-0.0012 mg/L	0.00288	-0.0012 mg/L	0.00288	246.48%
Ca 315.887	273.0	0.1347 mg/L	0.01170	0.1347 mg/L	0.01170	8.69%
Ca 317.933	317.1	0.1324 mg/L	0.02021	0.1324 mg/L	0.02021	15.27%
Cd 214.440	-0.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	54.56%
Co 228.616	0.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	133.61%
Cr 267.716	32.0	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	20.37%
Cu 324.752	347.8	0.0012 mg/L	0.00014	0.0012 mg/L	0.00014	11.86%
Fe 238.204	329.7	0.0084 mg/L	0.00002	0.0084 mg/L	0.00002	0.28%
Fe 273.955	202.7	0.0122 mg/L	0.00012	0.0122 mg/L	0.00012	0.99%
K 766.490	55.4	0.0210 mg/L	0.13508	0.0210 mg/L	0.13508	643.60%
Mg 279.077	7.0	0.0314 mg/L	0.03469	0.0314 mg/L	0.03469	110.51%
Mn 257.610	322.9	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.31%
Mo 202.031	-6.0	-0.0013 mg/L	0.00069	-0.0013 mg/L	0.00069	51.18%
Na 589.592	798.1	0.1344 mg/L	0.01451	0.1344 mg/L	0.01451	10.80%
Na 330.237	4.1	0.5647 mg/L	0.30103	0.5647 mg/L	0.30103	53.31%
Ni 231.604	3.0	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	49.15%
Pb 220.353	59.9	0.0030 mg/L	0.00030	0.0030 mg/L	0.00030	9.91%
Sb 206.836	10.5	0.0096 mg/L	0.00384	0.0096 mg/L	0.00384	40.07%
Se 196.026	-79.2	-0.0101 mg/L	0.00153	-0.0101 mg/L	0.00153	15.17%
Sn 189.927	5.7	0.0019 mg/L	0.00072	0.0019 mg/L	0.00072	38.69%
Sr 407.771	510.3	0.0012 mg/L	0.00002	0.0012 mg/L	0.00002	1.64%
Sr 421.552	200.9	0.0008 mg/L	0.00031	0.0008 mg/L	0.00031	36.68%
Ti 334.940	-110.3	-0.0003 mg/L	0.00022	-0.0003 mg/L	0.00022	71.78%
Tl 190.801	-20.7	-0.0037 mg/L	0.00361	-0.0037 mg/L	0.00361	96.50%
V 290.880	84.5	0.0005 mg/L	0.00073	0.0005 mg/L	0.00073	134.41%
W 207.912	0.8	0.0003 mg/L	0.00100	0.0003 mg/L	0.00100	296.07%
Y 371.029	1633.0				67.36	4.12%
Zn 206.200	424.5	0.0288 mg/L	0.00040	0.0288 mg/L	0.00040	1.38%
P 213.617	-1.0	-0.0007 mg/L	0.00346	-0.0007 mg/L	0.00346	476.28%
Si 251.611	623.5	0.0159 mg/L	0.00116	0.0159 mg/L	0.00116	7.27%
Li 670.784	196.3	0.0030 mg/L	0.00195	0.0030 mg/L	0.00195	65.08%
Li 610.362	329.4	0.0477 mg/L	0.02043	0.0477 mg/L	0.02043	42.84%
S 181.975	16.3	0.0671 mg/L	0.01591	0.0671 mg/L	0.01591	23.70%

ALAB: 000000

Associated Labs QCBatch Bench Sheet

QCBatchID: QC1130580

Created Date: 10/17/2012 09:35
Created By: metha
Matrix: Water

Instrument: AACP (group)
Prep Method: EPA 3010A/Filtered
Prep Date: metha

Test: 6010 Dissolved Metals
Method: EPA 6010B
Analysis Date: 10/17/2012 00:00
Analyst:

Seq #	Sample ID	QC	Customer Sample ID	QC Source	Surf	Spk	Int	Final	Extraction	Comments
					Added	Added	Wt/Vol	Vol	Date	Time
0	Method Blank	1								
1	LCS	1								
2	311995-007		C-1-CW05							
3	MS	1								
4	MSD	1								
5	311995-002		Equipment Blank							
6	311995-009		3851M							
7	311995-010		B1CW17							
8	311995-011		B-1-CW17 Duplicate							
9	312159-003		MMW-4							
10	312159-004		MMW-7							
11	312159-005		A-1-CW07							
12	312159-006		EB101512 Equip Blank							

PH APP

95 mL 25 mL 10/16/12 - 12:30 pm - 4 pm

Initial Call STD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
Calib Check STD: Sn(1115117)_Jan2013, W(1103408)_Jan2013
Internal STD: K(210125007)-Dec2015, Na(211025031)_Feb2016
Surrogate STD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCSS STD: QC2(11201016)-Feb.2013, QC7(1204808)Feb.201
MSS STD: 50PPM(6-15-12) 0.5 mL of 50 ppm

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate and Lot:
Spike Lot:
Prep By Signature:

file # 411060
HNO3 # 112040

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 12:42:25 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 30

Autosampler Location: 38

Sample ID: Method Blank

Date Collected: 10/17/2012 12:42:25 PM

Analyst: nina

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

=====

Mean Data: Method Blank

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Ag 328.068	-27.2	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	25.13%
Al 308.215	-164.5	-0.0048	mg/L	0.00204	-0.0048	mg/L	0.00204	42.61%
As 188.979	12.8	0.0023	mg/L	0.00161	0.0023	mg/L	0.00161	69.54%
B 249.677	-616.3	-0.0070	mg/L	0.00000	-0.0070	mg/L	0.00000	0.01%
Ba 233.527	4.1	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	124.58%
Be 313.107	-118.7	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	74.76%
Bi 223.061	6.7	0.0031	mg/L	0.00050	0.0031	mg/L	0.00050	16.15%
Bi 190.171	-2.3	-0.0028	mg/L	0.00176	-0.0028	mg/L	0.00176	63.15%
Ca 315.887	-17.9	-0.0088	mg/L	0.00105	-0.0088	mg/L	0.00105	11.95%
Ca 317.933	-15.0	-0.0063	mg/L	0.00171	-0.0063	mg/L	0.00171	27.31%
Cd 214.440	11.4	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	23.38%
Co 228.616	-1.4	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	70.97%
Cr 267.716	8.9	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	58.37%
Cu 324.752	-125.7	-0.0004	mg/L	0.00036	-0.0004	mg/L	0.00036	86.38%
Fe 238.204	-33.4	-0.0008	mg/L	0.00010	-0.0008	mg/L	0.00010	11.57%
Fe 273.955	40.4	0.0024	mg/L	0.00010	0.0024	mg/L	0.00010	4.19%
K 766.490	-99.7	-0.0378	mg/L	0.07158	-0.0378	mg/L	0.07158	189.58%
Mg 279.077	4.5	0.0201	mg/L	0.00675	0.0201	mg/L	0.00675	33.49%
Mn 257.610	-6.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	71.22%
Mo 202.031	-2.6	-0.0006	mg/L	0.00005	-0.0006	mg/L	0.00005	8.72%
Na 589.592	253.2	0.0426	mg/L	0.03742	0.0426	mg/L	0.03742	87.78%
Na 330.237	1.9	0.2681	mg/L	0.29723	0.2681	mg/L	0.29723	110.85%
Ni 231.604	2.4	0.0001	mg/L	0.00032	0.0001	mg/L	0.00032	251.49%
Pb 220.353	61.0	0.0031	mg/L	0.00412	0.0031	mg/L	0.00412	132.81%
Sb 206.836	-11.1	-0.0101	mg/L	0.00227	-0.0101	mg/L	0.00227	22.39%
Se 196.026	-5.0	-0.0006	mg/L	0.00477	-0.0006	mg/L	0.00477	749.16%
Sn 189.927	-0.3	-0.0001	mg/L	0.00207	-0.0001	mg/L	0.00207	>999.9%
Sr 407.771	-12.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	27.57%
Sr 421.552	-55.1	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	72.69%
Ti 334.940	-112.1	-0.0003	mg/L	0.00041	-0.0003	mg/L	0.00041	134.35%
Tl 190.801	-0.1	0.0000	mg/L	0.00090	0.0000	mg/L	0.00090	>999.9%
V 290.880	233.8	0.0015	mg/L	0.00062	0.0015	mg/L	0.00062	40.75%
W 207.912	-0.0	0.0000	mg/L	0.00164	0.0000	mg/L	0.00164	>999.9%
Y 371.029	1611.3						61.33	3.81%
Zn 206.200	3.3	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	28.25%
P 213.617	-2.8	-0.0020	mg/L	0.00242	-0.0020	mg/L	0.00242	119.53%
Si 251.611	-108.2	-0.0028	mg/L	0.00003	-0.0028	mg/L	0.00003	0.91%
Li 670.784	546.2	0.0083	mg/L	0.00109	0.0083	mg/L	0.00109	13.14%
Li 610.362	95.4	0.0138	mg/L	0.06870	0.0138	mg/L	0.06870	497.46%
S 181.975	-1.7	-0.0072	mg/L	0.03263	-0.0072	mg/L	0.03263	454.74%

ALAB: 000082

Sequence No.: 31
 Sample ID: LCS
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 39
 Date Collected: 10/17/2012 12:45:03 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	136023.1	1.048 mg/L	0.0028	1.048 mg/L	0.0028	0.26%
Al 308.215	73947.9	2.157 mg/L	0.0006	2.157 mg/L	0.0006	0.03%
As 188.979	11566.4	2.089 mg/L	0.0080	2.089 mg/L	0.0080	0.38%
B 249.677	187357.0	2.119 mg/L	0.0051	2.119 mg/L	0.0051	0.24%
Ba 233.527	233102.2	2.263 mg/L	0.0102	2.263 mg/L	0.0102	0.45%
Be 313.107	4704071.6	2.125 mg/L	0.0261	2.125 mg/L	0.0261	1.23%
Bi 223.061	-109.9	-0.0506 mg/L	0.00208	-0.0506 mg/L	0.00208	4.11%
Bi 190.171	16.4	0.0202 mg/L	0.00202	0.0202 mg/L	0.00202	10.00%
Ca 315.887	4824.1	2.380 mg/L	0.0166	2.380 mg/L	0.0166	0.70%
Ca 317.933	5676.2	2.369 mg/L	0.0100	2.369 mg/L	0.0100	0.42%
Cd 214.440	94131.7	2.124 mg/L	0.0160	2.124 mg/L	0.0160	0.75%
Co 228.616	55633.2	2.179 mg/L	0.0202	2.179 mg/L	0.0202	0.93%
Cr 267.716	86234.3	2.234 mg/L	0.0044	2.234 mg/L	0.0044	0.19%
Cu 324.752	646989.4	2.172 mg/L	0.0625	2.172 mg/L	0.0625	2.88%
Fe 238.204	89313.6	2.266 mg/L	0.0149	2.266 mg/L	0.0149	0.66%
Fe 273.955	36577.2	2.197 mg/L	0.0265	2.197 mg/L	0.0265	1.21%
K 766.490	55821.2	21.13 mg/L	0.268	21.13 mg/L	0.268	1.27%
Mg 279.077	528.4	2.361 mg/L	0.0200	2.361 mg/L	0.0200	0.85%
Mn 257.610	958510.3	2.231 mg/L	0.0222	2.231 mg/L	0.0222	0.99%
Mo 202.031	8959.7	2.009 mg/L	0.0009	2.009 mg/L	0.0009	0.04%
Na 589.592	13790.3	2.321 mg/L	0.0907	2.321 mg/L	0.0907	3.91%
Na 330.237	-30.5	-4.224 mg/L	0.3640	-4.224 mg/L	0.3640	8.62%
Ni 231.604	41553.5	2.217 mg/L	0.0149	2.217 mg/L	0.0149	0.67%
Pb 220.353	43626.1	2.219 mg/L	0.0203	2.219 mg/L	0.0203	0.91%
Sb 206.836	2258.5	2.056 mg/L	0.0143	2.056 mg/L	0.0143	0.70%
Se 196.026	15478.2	1.976 mg/L	0.0066	1.976 mg/L	0.0066	0.34%
Sn 189.927	10.7	0.0035 mg/L	0.00062	0.0035 mg/L	0.00062	17.82%
Sr 407.771	822054.6	1.911 mg/L	0.0088	1.911 mg/L	0.0088	0.46%
Sr 421.552	463676.9	1.929 mg/L	0.0006	1.929 mg/L	0.0006	0.03%
Ti 334.940	831980.1	2.260 mg/L	0.0299	2.260 mg/L	0.0299	1.32%
Tl 190.801	11905.1	2.153 mg/L	0.0304	2.153 mg/L	0.0304	1.41%
V 290.880	341562.6	2.211 mg/L	0.0287	2.211 mg/L	0.0287	1.30%
W 207.912	50.6	0.0204 mg/L	0.00008	0.0204 mg/L	0.00008	0.38%
Y 371.029	1450.4				244.76	16.88%
Zn 206.200	32558.2	2.212 mg/L	0.0027	2.212 mg/L	0.0027	0.12%
P 213.617	-3864.0	-2.842 mg/L	0.1011	-2.842 mg/L	0.1011	3.56%
Si 251.611	84569.4	2.156 mg/L	0.0090	2.156 mg/L	0.0090	0.42%
Li 670.784	130030.2	1.982 mg/L	0.0314	1.982 mg/L	0.0314	1.59%
Li 610.362	13428.0	1.945 mg/L	0.0308	1.945 mg/L	0.0308	1.58%
S 181.975	15.5	0.0637 mg/L	0.01280	0.0637 mg/L	0.01280	20.09%

ALAB: 00003

Sequence No.: 32
 Sample ID: 311995-007
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 40
 Date Collected: 10/17/2012 12:47:39 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: 311995-007

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	443.1	0.0034 mg/L	0.00143	0.0034 mg/L	0.00143	41.78%
Al 308.215	1659.8	0.0484 mg/L	0.00407	0.0484 mg/L	0.00407	8.41%
As 188.979	81.7	0.0148 mg/L	0.01107	0.0148 mg/L	0.01107	75.01%
B 249.677	14218.6	0.1608 mg/L	0.00126	0.1608 mg/L	0.00126	0.78%
Ba 233.527	9160.8	0.0889 mg/L	0.00092	0.0889 mg/L	0.00092	1.04%
Be 313.107	53.2	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	177.04%
Bi 223.061	13.8	0.0064 mg/L	0.00641	0.0064 mg/L	0.00641	100.54%
Bi 190.171	14.2	0.0175 mg/L	0.00911	0.0175 mg/L	0.00911	52.00%
Ca 315.887	180763.5	89.19 mg/L	4.131	89.19 mg/L	4.131	4.63%
Ca 317.933	212559.6	88.72 mg/L	3.114	88.72 mg/L	3.114	3.51%
Cd 214.440	-123.8	-0.0028 mg/L	0.00002	-0.0028 mg/L	0.00002	0.79%
Co 228.616	11.7	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	24.58%
Cr 267.716	162.3	0.0042 mg/L	0.00026	0.0042 mg/L	0.00026	6.14%
Cu 324.752	284.2	0.0010 mg/L	0.00021	0.0010 mg/L	0.00021	22.28%
Fe 238.204	3694.4	0.0937 mg/L	0.00096	0.0937 mg/L	0.00096	1.03%
Fe 273.955	1548.4	0.0930 mg/L	0.00098	0.0930 mg/L	0.00098	1.05%
K 766.490	11901.7	4.506 mg/L	0.2788	4.506 mg/L	0.2788	6.19%
Mg 279.077	4733.5	21.15 mg/L	0.219	21.15 mg/L	0.219	1.03%
Mn 257.610	4472.1	0.0104 mg/L	0.00004	0.0104 mg/L	0.00004	0.38%
Mo 202.031	58.4	0.0131 mg/L	0.00022	0.0131 mg/L	0.00022	1.65%
Na 589.592	199477.9	33.58 mg/L	1.356	33.58 mg/L	1.356	4.04%
Na 330.237	224.7	31.07 mg/L	0.089	31.07 mg/L	0.089	0.29%
Ni 231.604	5.1	0.0003 mg/L	0.00031	0.0003 mg/L	0.00031	115.02%
Pb 220.353	150.0	0.0076 mg/L	0.00116	0.0076 mg/L	0.00116	15.15%
Sb 206.836	39.8	0.0362 mg/L	0.00139	0.0362 mg/L	0.00139	3.85%
Se 196.026	-7.4	-0.0009 mg/L	0.01582	-0.0009 mg/L	0.01582	>999.9%
Sn 189.927	-65.3	-0.0212 mg/L	0.00083	-0.0212 mg/L	0.00083	3.90%
Sr 407.771	259955.0	0.6043 mg/L	0.02776	0.6043 mg/L	0.02776	4.59%
Sr 421.552	146086.0	0.6076 mg/L	0.02330	0.6076 mg/L	0.02330	3.83%
Ti 334.940	2260.2	0.0061 mg/L	0.00046	0.0061 mg/L	0.00046	7.48%
Tl 190.801	-29.3	-0.0053 mg/L	0.00334	-0.0053 mg/L	0.00334	62.99%
V 290.880	108.7	0.0007 mg/L	0.00109	0.0007 mg/L	0.00109	156.93%
W 207.912	26.0	0.0105 mg/L	0.00088	0.0105 mg/L	0.00088	8.36%
Y 371.029	1672.9				117.58	7.03%
Zn 206.200	1382.7	0.0939 mg/L	0.00104	0.0939 mg/L	0.00104	1.10%
P 213.617	36.9	0.0272 mg/L	0.00433	0.0272 mg/L	0.00433	15.94%
Si 251.611	437859.9	11.16 mg/L	0.321	11.16 mg/L	0.321	2.87%
Li 670.784	578.7	0.0088 mg/L	0.01334	0.0088 mg/L	0.01334	151.26%
Li 610.362	-1458.9	-0.2113 mg/L	0.02389	-0.2113 mg/L	0.02389	11.31%
S 181.975	4649.8	19.10 mg/L	0.138	19.10 mg/L	0.138	0.72%

ALAB: 000004

Sequence No.: 33
 Sample ID: MS
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 41
 Date Collected: 10/17/2012 12:50:14 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	64797.1	0.4990 mg/L	0.00710	0.4990 mg/L	0.00710	1.42%
Al 308.215	34742.6	1.013 mg/L	0.0117	1.013 mg/L	0.0117	1.15%
As 188.979	5626.1	1.016 mg/L	0.0055	1.016 mg/L	0.0055	0.54%
B 249.677	101975.8	1.154 mg/L	0.0228	1.154 mg/L	0.0228	1.98%
Ba 233.527	115682.7	1.123 mg/L	0.0186	1.123 mg/L	0.0186	1.65%
Be 313.107	2201168.3	0.9945 mg/L	0.02904	0.9945 mg/L	0.02904	2.92%
Bi 223.061	-50.8	-0.0234 mg/L	0.00122	-0.0234 mg/L	0.00122	5.23%
Bi 190.171	24.9	0.0307 mg/L	0.00809	0.0307 mg/L	0.00809	26.31%
Ca 315.887	174506.2	86.10 mg/L	1.784	86.10 mg/L	1.784	2.07%
Ca 317.933	206097.2	86.02 mg/L	2.016	86.02 mg/L	2.016	2.34%
Cd 214.440	41613.1	0.9388 mg/L	0.01606	0.9388 mg/L	0.01606	1.71%
Co 228.616	24017.5	0.9406 mg/L	0.02249	0.9406 mg/L	0.02249	2.39%
Cr 267.716	39477.1	1.023 mg/L	0.0212	1.023 mg/L	0.0212	2.07%
Cu 324.752	284453.8	0.9549 mg/L	0.00839	0.9549 mg/L	0.00839	0.88%
Fe 238.204	43925.8	1.114 mg/L	0.0185	1.114 mg/L	0.0185	1.66%
Fe 273.955	18012.9	1.082 mg/L	0.0172	1.082 mg/L	0.0172	1.59%
K 766.490	41364.7	15.66 mg/L	0.297	15.66 mg/L	0.297	1.90%
Mg 279.077	5015.5	22.41 mg/L	0.010	22.41 mg/L	0.010	0.04%
Mn 257.610	434573.7	1.012 mg/L	0.0212	1.012 mg/L	0.0212	2.09%
Mo 202.031	4136.7	0.9275 mg/L	0.00431	0.9275 mg/L	0.00431	0.46%
Na 589.592	198832.2	33.47 mg/L	0.312	33.47 mg/L	0.312	0.93%
Na 330.237	211.0	29.17 mg/L	0.783	29.17 mg/L	0.783	2.68%
Ni 231.604	17803.7	0.9500 mg/L	0.01494	0.9500 mg/L	0.01494	1.57%
Pb 220.353	18585.3	0.9453 mg/L	0.00032	0.9453 mg/L	0.00032	0.03%
Sb 206.836	1081.8	0.9849 mg/L	0.00464	0.9849 mg/L	0.00464	0.47%
Se 196.026	7301.6	0.9321 mg/L	0.00319	0.9321 mg/L	0.00319	0.34%
Sn 189.927	7.1	0.0023 mg/L	0.00090	0.0023 mg/L	0.00090	39.11%
Sr 407.771	655275.8	1.523 mg/L	0.0140	1.523 mg/L	0.0140	0.92%
Sr 421.552	369816.7	1.538 mg/L	0.0155	1.538 mg/L	0.0155	1.01%
Ti 334.940	382825.2	1.040 mg/L	0.0261	1.040 mg/L	0.0261	2.51%
Tl 190.801	5294.1	0.9575 mg/L	0.00460	0.9575 mg/L	0.00460	0.48%
V 290.880	154692.0	1.001 mg/L	0.0155	1.001 mg/L	0.0155	1.55%
W 207.912	35.7	0.0144 mg/L	0.00290	0.0144 mg/L	0.00290	20.12%
Y 371.029	1371.3				13.23	0.96%
Zn 206.200	15401.3	1.046 mg/L	0.0163	1.046 mg/L	0.0163	1.56%
P 213.617	-1641.8	-1.208 mg/L	0.0052	-1.208 mg/L	0.0052	0.43%
Si 251.611	484853.2	12.36 mg/L	0.256	12.36 mg/L	0.256	2.07%
Li 670.784	66138.1	1.008 mg/L	0.0165	1.008 mg/L	0.0165	1.64%
Li 610.362	6354.8	0.9203 mg/L	0.02120	0.9203 mg/L	0.02120	2.30%
S 181.975	4665.2	19.16 mg/L	0.132	19.16 mg/L	0.132	0.69%

ALAB: 00085

Sequence No.: 34
 Sample ID: MSD
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 42
 Date Collected: 10/17/2012 12:52:50 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: MSD

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	66016.7	0.5084 mg/L	0.01195	0.5084 mg/L	0.01195	2.35%
Al 308.215	35833.8	1.045 mg/L	0.0306	1.045 mg/L	0.0306	2.92%
As 188.979	5627.0	1.016 mg/L	0.0062	1.016 mg/L	0.0062	0.61%
B 249.677	103633.0	1.172 mg/L	0.0176	1.172 mg/L	0.0176	1.50%
Ba 233.527	117737.1	1.143 mg/L	0.0235	1.143 mg/L	0.0235	2.06%
Be 313.107	2192036.2	0.9904 mg/L	0.07812	0.9904 mg/L	0.07812	7.89%
Bi 223.061	-52.0	-0.0239 mg/L	0.00809	-0.0239 mg/L	0.00809	33.84%
Bi 190.171	24.8	0.0307 mg/L	0.00617	0.0307 mg/L	0.00617	20.14%
Ca 315.887	166355.1	82.08 mg/L	6.859	82.08 mg/L	6.859	8.36%
Ca 317.933	196793.2	82.14 mg/L	7.078	82.14 mg/L	7.078	8.62%
Cd 214.440	42246.3	0.9531 mg/L	0.02645	0.9531 mg/L	0.02645	2.77%
Co 228.616	24508.1	0.9599 mg/L	0.03051	0.9599 mg/L	0.03051	3.18%
Cr 267.716	39927.7	1.034 mg/L	0.0194	1.034 mg/L	0.0194	1.87%
Cu 324.752	291438.1	0.9784 mg/L	0.02814	0.9784 mg/L	0.02814	2.88%
Fe 238.204	44475.8	1.128 mg/L	0.0272	1.128 mg/L	0.0272	2.41%
Fe 273.955	18142.2	1.090 mg/L	0.0416	1.090 mg/L	0.0416	3.82%
K 766.490	40193.6	15.22 mg/L	1.297	15.22 mg/L	1.297	8.52%
Mg 279.077	5042.9	22.53 mg/L	0.174	22.53 mg/L	0.174	0.77%
Mn 257.610	435443.2	1.014 mg/L	0.0838	1.014 mg/L	0.0838	8.27%
Mo 202.031	4161.1	0.9330 mg/L	0.00400	0.9330 mg/L	0.00400	0.43%
Na 589.592	189375.8	31.88 mg/L	2.604	31.88 mg/L	2.604	8.17%
Na 330.237	203.8	28.18 mg/L	0.447	28.18 mg/L	0.447	1.59%
Ni 231.604	17916.4	0.9560 mg/L	0.01739	0.9560 mg/L	0.01739	1.82%
Pb 220.353	18457.7	0.9388 mg/L	0.00485	0.9388 mg/L	0.00485	0.52%
Sb 206.836	1064.9	0.9695 mg/L	0.00920	0.9695 mg/L	0.00920	0.95%
Se 196.026	7253.1	0.9259 mg/L	0.03021	0.9259 mg/L	0.03021	3.26%
Sn 189.927	-7.1	-0.0023 mg/L	0.00109	-0.0023 mg/L	0.00109	47.66%
Sr 407.771	627078.6	1.458 mg/L	0.1301	1.458 mg/L	0.1301	8.92%
Sr 421.552	354543.5	1.475 mg/L	0.1301	1.475 mg/L	0.1301	8.82%
Ti 334.940	384706.7	1.045 mg/L	0.0836	1.045 mg/L	0.0836	8.00%
Tl 190.801	5294.2	0.9575 mg/L	0.00748	0.9575 mg/L	0.00748	0.78%
V 290.880	157556.0	1.020 mg/L	0.0289	1.020 mg/L	0.0289	2.83%
W 207.912	34.0	0.0137 mg/L	0.00105	0.0137 mg/L	0.00105	7.63%
Y 371.029	1393.6				264.06	18.95%
Zn 206.200	15637.9	1.063 mg/L	0.0429	1.063 mg/L	0.0429	4.04%
P 213.617	-1639.4	-1.206 mg/L	0.0013	-1.206 mg/L	0.0013	0.11%
Si 251.611	484956.0	12.36 mg/L	1.051	12.36 mg/L	1.051	8.50%
Li 670.784	62940.5	0.9595 mg/L	0.09145	0.9595 mg/L	0.09145	9.53%
Li 610.362	5862.9	0.8490 mg/L	0.02285	0.8490 mg/L	0.02285	2.69%
S 181.975	4650.0	19.10 mg/L	0.050	19.10 mg/L	0.050	0.26%

ALAB: 00086

Sample Information Detail Report
Document Name: 10-17-12a

File Description
Default Sample Information File

Parameters Common to All Samples

Batch ID	10-17-12
Analyst Name	nina
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Wt.
1	11	CCV10ppm- Sn(3-22-1	
2	12	ICSA(3-22-12)	
3	13	ICSAB(3-22-12)	
4	14	50ppm(6-15-12)	
5	1	BLK	
6	1	BLK	
7	1	BLK	
8	1	BLK	
9	1	BLK	
10	1	BLK	
11	21	0.005ppm Ag(daily)	
12	22	0.005ppm CAM(daily)	
13	23	0.010ppm CAM(daily)	
14	24	0.020ppm CAM(daily)	
15	25	0.050ppm CAM(daily)	
16	26	0.5 ppm CAM(daily)	
17	1	CCB(daily)	
18	38	Method Blank	
19	39	LCS	
20	40	311995-007	
21	41	MS	
22	42	MSD	
23	43	311995-002	
24	44	311995-009	
25	45	311995-010	
26	46	311995-011	
27	47	312159-003	
28	48	312159-004	
29	49	312159-005	
30	50	312159-006	
31	72	Method Blank	
32	73	LCS	
33	74	311877-003	
34	75	MS	
35	76	MSD	
36	77	312080-003	
37	78	312080-004	
38	79	312080-005	
39	80	312080-006	
40	81	312080-008	
41	82	312080-009	
42	83	312080-010	
43	84	312080-013	
44	85	312080-015	
45	86	312094-003	
46	87	312094-004	
47	88	312094-005	
48	89	312094-006	
49	90	312094-007	
50	91	Method Blank	
51	92	LCS	
52	93	312205-002	
53	94	MS	
54	95	MSD	
55	96	312205-004	
56	97	312205-005	
57	98	312205-006	
58	99	312205-007	
59	100	311995-002	

10/17/2012 2:27:29 PM

ALAB : 000087

Sample Information Detail Report
Document Name: 10-17-12a

63	104	MS
64	105	312080-008
65	106	312080-013
66	107	312080-014
67	108	312094-002

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
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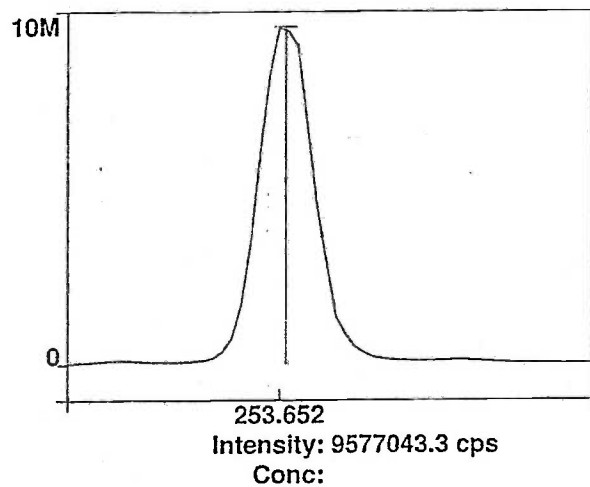
Sample Information Detail Report
Document Name: 10-17-12a

Sample No	Sample Units *	Test	QC Batch
1	mg/L		
2	mg/L		
3	mg/L		
4	mg/L		
5	mg/L		
6	mg/L		
7	mg/L		
8	mg/L		
9	mg/L		
10	mg/L		
11	mg/L		
12	mg/L		
13	mg/L		
14	mg/L		
15	mg/L		
16	mg/L		
17	mg/L		
18	mg/L	6010 Dissolved Meta	QC1130580
19	mg/L	6010 Dissolved Meta	QC1130580
20	mg/L	6010 Dissolved Meta	
21	mg/L	6010 Dissolved Meta	QC1130580
22	mg/L	6010 Dissolved Meta	QC1130580
23	mg/L	6010 Dissolved Meta	
24	mg/L	6010 Dissolved Meta	
25	mg/L	6010 Dissolved Meta	
26	mg/L	6010 Dissolved Meta	
27	mg/L	6010 Dissolved Meta	
28	mg/L	6010 Dissolved Meta	
29	mg/L	6010 Dissolved Meta	
30	mg/L	6010 Dissolved Meta	
31	mg/L	6010 Alab	QC1130591
32	mg/L	6010 Alab	QC1130591
33	mg/L	6010 Alab	
34	mg/L	6010 Alab	QC1130591
35	mg/L	6010 Alab	QC1130591
36	mg/L	6010 Dissolved Meta	
37	mg/L	6010 Dissolved Meta	
38	mg/L	6010 Dissolved Meta	
39	mg/L	6010 Dissolved Meta	
40	mg/L	6010 Dissolved Meta	
41	mg/L	6010 Dissolved Meta	
42	mg/L	6010 Dissolved Meta	
43	mg/L	6010 Dissolved Meta	
44	mg/L	6010 Dissolved Meta	
45	mg/L	6010 Dissolved Meta	
46	mg/L	6010 Dissolved Meta	
47	mg/L	6010 Dissolved Meta	
48	mg/L	6010 Dissolved Meta	
49	mg/L	6010 Dissolved Meta	
50	mg/L	6010 Dissolved Meta	QC1130594
51	mg/L	6010 Dissolved Meta	QC1130594
52	mg/L	6010 Dissolved Meta	
53	mg/L	6010 Dissolved Meta	QC1130594
54	mg/L	6010 Dissolved Meta	QC1130594
55	mg/L	6010 Dissolved Meta	
56	mg/L	6010 Dissolved Meta	
57	mg/L	6010 Dissolved Meta	
58	mg/L	6010 Dissolved Meta	
59	mg/L	6010 Alab	
60	mg/L	200.7 Alab	QC1130599
61	mg/L	200.7 Alab	QC1130599
62	mg/L	200.7 Alab	
63	mg/L	200.7 Alab	QC1130599
64	mg/L	200.7 Alab	
65	mg/L	200.7 Alab	
66	mg/L	200.7 Alab	
67	mg/L	200.7 Alab	

Result:

Hg 253.652

Rep: 1



1

ALAB : 00050

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10/17/2012 8:15:51 AM Hg ReAlign... Actual peak offset (nm): -0.006
Drift (nm): 0.000 Slit adjustment: 0

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	160.3
-1.6	15.0	149.1
-1.2	15.0	209.8
-0.8	15.0	97.1
-0.4	15.0	618921.6
0.0	15.0	901747.1
0.4	15.0	938700.4
0.8	15.0	873229.8
1.2	15.0	744922.2
1.6	15.0	594167.7
2.0	15.0	475173.3
0.4	10.0	4604.5
0.4	10.5	28601.6
0.4	11.0	61638.0
0.4	11.5	106566.7
0.4	12.0	173426.4
0.4	12.5	364407.1
0.4	13.0	474763.4
0.4	13.5	636718.1
0.4	14.0	773993.2
0.4	14.5	992801.2
0.4	15.0	993083.5
0.4	15.5	942589.0
0.4	16.0	849535.1
0.4	16.5	575639.6
0.4	17.0	423265.7
0.4	17.5	304642.7
0.4	18.0	209120.3
0.4	18.5	139639.3
0.4	19.0	56728.2
0.4	19.5	33164.0
0.4	20.0	16327.3
-0.4	15.0	992100.1
0.0	15.0	1019719.7
0.4	15.0	1004944.1
0.8	15.0	900803.1
1.2	15.0	777884.4
0.0	13.0	505808.6
0.0	13.5	630851.1
0.0	14.0	789997.9
0.0	14.5	1028928.4
0.0	15.0	1019252.9
0.0	15.5	1012406.6
0.0	16.0	870832.3
0.0	16.5	580504.7
0.0	17.0	431567.2

10/17/2012 8:18:25 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 1028928.4 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 1028928.4 for Axial viewing

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	358623.6
-1.6	15.0	514834.7
-1.2	15.0	671904.8
-0.8	15.0	839485.3
-0.4	15.0	976671.3
0.0	15.0	1007761.0
0.4	15.0	990446.0
0.8	15.0	883608.2
1.2	15.0	757614.2
1.6	15.0	632761.0
2.0	15.0	472101.9
0.0	10.0	2374.9
0.0	10.5	9933.7
0.0	11.0	27997.3
0.0	11.5	59741.0

ALAB: 02091

0.0	13.5	485282.2
0.0	14.0	625537.9
0.0	14.5	930046.1
0.0	15.0	1004271.8
0.0	15.5	1031028.2
0.0	16.0	968308.9
0.0	16.5	720124.0
0.0	17.0	574059.1
0.0	17.5	428336.3
0.0	18.0	312674.3
0.0	18.5	209004.3
0.0	19.0	93697.1
0.0	19.5	58780.4
0.0	20.0	34964.0
-0.8	15.5	865725.7
-0.4	15.5	984043.9
0.0	15.5	1023644.5
0.4	15.5	997313.5
0.8	15.5	908512.8
0.0	13.5	499694.2
0.0	14.0	626409.7
0.0	14.5	936608.5
0.0	15.0	1030748.6
0.0	15.5	1051600.6
0.0	16.0	995810.9
0.0	16.5	729034.5
0.0	17.0	582674.2
0.0	17.5	423274.1

10/17/2012 8:20:19 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 1051600.6 for Axial viewing
Y viewing position set to 15.5 mm having Peak intensity 1051600.6 for Axial viewing
=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	368802.2
-1.6	15.0	535573.2
-1.2	15.0	685042.5
-0.8	15.0	855615.5
-0.4	15.0	1005174.4
0.0	15.0	1049877.5
0.4	15.0	990614.3
0.8	15.0	911173.8
1.2	15.0	786076.8
1.6	15.0	627470.5
2.0	15.0	478863.8
0.0	10.0	4537.2
0.0	10.5	28733.6
0.0	11.0	61585.4
0.0	11.5	108605.8
0.0	12.0	170531.1
0.0	12.5	361889.6
0.0	13.0	493176.5
0.0	13.5	636984.8
0.0	14.0	799097.6
0.0	14.5	1023369.4
0.0	15.0	1056977.8
0.0	15.5	973559.3
0.0	16.0	869238.6
0.0	16.5	574307.1
0.0	17.0	434194.0
0.0	17.5	309803.2
0.0	18.0	217458.8
0.0	18.5	146652.2
0.0	19.0	58908.1
0.0	19.5	35375.4
0.0	20.0	17445.5
-0.8	15.0	856368.5
-0.4	15.0	1001864.2
0.0	15.0	1039405.9
0.4	15.0	1019266.0
0.8	15.0	909367.1
0.0	13.0	509236.6
0.0	13.5	642453.9
0.0	14.0	812658.1

ALAB: 00092

0.0	16.0	855235.5
0.0	16.5	565411.3
0.0	17.0	429223.9

10/17/2012 8:22:16 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 1027925.0 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 1027925.0 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	25.2
-6.5	15.0	27.7
-6.0	15.0	20.8
-5.5	15.0	21.0
-5.0	15.0	25.4
-4.5	15.0	32.4
-4.0	15.0	35.1
-3.5	15.0	41.6
-3.0	15.0	56.5
-2.5	15.0	125.0
-2.0	15.0	233.5
-1.5	15.0	292.1
-1.0	15.0	474.7
-0.5	15.0	591.5
0.0	15.0	729.5
0.5	15.0	647.2
1.0	15.0	487.5

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	748.8
-6.5	15.0	813.0
-6.0	15.0	893.0
-5.5	15.0	1023.4
-5.0	15.0	1302.8
-4.5	15.0	1794.9
-4.0	15.0	2480.6
-3.5	15.0	3563.6
-3.0	15.0	4443.8
-2.5	15.0	6702.5
-2.0	15.0	11723.3
-1.5	15.0	22710.5
-1.0	15.0	37396.1
-0.5	15.0	54710.6
0.0	15.0	60671.3
0.5	15.0	51962.3
1.0	15.0	34359.0
1.5	15.0	21189.7
2.0	15.0	11591.1
2.5	15.0	8657.8
3.0	15.0	7853.1
3.5	15.0	5742.0
4.0	15.0	3663.7
4.5	15.0	2127.6
5.0	15.0	1222.0
5.5	15.0	813.1
6.0	15.0	745.4
6.5	15.0	822.3
7.0	15.0	849.2

10/17/2012 8:30:28 AM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 60671.3 for Radial viewing

ALAB: 000003

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Analysis Begun

Start Time: 10/17/2012 8:54:09 AM

Plasma On Time: 10/17/2012 7:49:05 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sid

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 10/17/2012 8:54:09 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
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Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Ag 328.068	614.6	43.21	7.03%	[0.00] mg/L
Al 308.215	3016.3	79.38	2.63%	[0.00] mg/L
As 188.979	23.9	17.43	73.07%	[0.00] mg/L
B 249.677	167.9	15.16	9.03%	[0.00] mg/L
Ba 233.527	-72.0	3.97	5.51%	[0.00] mg/L
Be 313.107	-3501.9	120.01	3.43%	[0.00] mg/L
Bi 223.061	-44.0	6.08	13.82%	[0.00] mg/L
Bi 190.171	10.2	2.17	21.36%	[0.00] mg/L
Ca 315.887	38.4	2.27	5.92%	[0.00] mg/L
Ca 317.933	140.6	3.85	2.74%	[0.00] mg/L
Cd 214.440	20.8	0.96	4.64%	[0.00] mg/L
Co 228.616	-35.9	3.30	9.19%	[0.00] mg/L
Cr 267.716	-65.7	5.79	8.81%	[0.00] mg/L
Cu 324.752	2240.7	82.03	3.66%	[0.00] mg/L
Fe 238.204	106.6	1.38	1.30%	[0.00] mg/L
Fe 273.955	-368.5	1.73	0.47%	[0.00] mg/L
K 766.490	-473.5	80.16	16.93%	[0.00] mg/L
Mg 279.077	-37.3	0.34	0.92%	[0.00] mg/L
Mn 257.610	312.0	2.98	0.95%	[0.00] mg/L
Mo 202.031	-3.0	0.64	20.93%	[0.00] mg/L
Na 589.592	706.2	136.06	19.27%	[0.00] mg/L
Na 330.237	29.0	9.82	33.87%	[0.00] mg/L
Ni 231.604	-9.4	9.35	99.39%	[0.00] mg/L
Pb 220.353	-85.3	7.32	8.58%	[0.00] mg/L
Sb 206.836	-12.8	5.57	43.67%	[0.00] mg/L
Se 196.026	19.2	92.48	482.76%	[0.00] mg/L
Sn 189.927	-10.7	5.91	55.17%	[0.00] mg/L
Sr 407.771	59.9	1.28	2.14%	[0.00] mg/L
Sr 421.552	149.4	68.91	46.13%	[0.00] mg/L
Ti 334.940	-1227.7	276.62	22.53%	[0.00] mg/L
Tl 190.801	21.7	21.80	100.27%	[0.00] mg/L
V 290.880	3597.4	48.58	1.35%	[0.00] mg/L
W 207.912	19.0	0.40	2.11%	[0.00] mg/L
Zn 206.200	3.6	2.23	62.33%	[0.00] mg/L
P 213.617	-4.4	5.82	132.85%	[0.00] mg/L
Si 251.611	476.6	101.18	21.23%	[0.00] mg/L
Li 670.784	342.7	226.12	65.98%	[0.00] mg/L
Li 610.362	-3034.9	306.71	10.11%	[0.00] mg/L
S 181.975	6.7	0.44	6.53%	[0.00] mg/L

ALAB: 00094

Sequence No.: 2
Sample ID: ICP STD1-0.05PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/17/2012 8:56:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	1277.2	290.87	22.77%	[0.05]	mg/L
As 188.979	298.9	5.88	1.97%	[0.05]	mg/L
B 249.677	4524.8	11.31	0.25%	[0.05]	mg/L
Ba 233.527	5800.4	200.91	3.46%	[0.05]	mg/L
Be 313.107	113036.3	4185.41	3.70%	[0.05]	mg/L
Cd 214.440	2411.9	10.23	0.42%	[0.05]	mg/L
Co 228.616	1403.0	3.23	0.23%	[0.05]	mg/L
Cr 267.716	2057.9	4.14	0.20%	[0.05]	mg/L
Cu 324.752	16152.7	816.33	5.05%	[0.05]	mg/L
Fe 238.204	2155.5	16.35	0.76%	[0.05]	mg/L
Fe 273.955	935.5	11.03	1.18%	[0.05]	mg/L
Mn 257.610	25431.5	796.36	3.13%	[0.05]	mg/L
Mo 202.031	230.7	4.00	1.73%	[0.05]	mg/L
Ni 231.604	1007.4	0.10	0.01%	[0.05]	mg/L
Pb 220.353	1070.7	15.22	1.42%	[0.05]	mg/L
Sb 206.836	64.2	4.79	7.46%	[0.05]	mg/L
Se 196.026	358.4	13.01	3.63%	[0.05]	mg/L
Ti 334.940	19946.1	880.41	4.41%	[0.05]	mg/L
Tl 190.801	284.4	18.40	6.47%	[0.05]	mg/L
V 290.880	8266.1	416.88	5.04%	[0.05]	mg/L
Zn 206.200	799.3	10.00	1.25%	[0.05]	mg/L

ALAB: 00005

Sequence No.: 3

Sample ID: ICP STD2-1PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/17/2012 8:58:57 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	37538.5	196.05	0.52%	[1.00]	mg/L
As 188.979	5874.3	31.62	0.54%	[1.00]	mg/L
B 249.677	93150.5	3289.28	3.53%	[1.00]	mg/L
Ba 233.527	115651.8	2380.41	2.06%	[1.00]	mg/L
Be 313.107	2297449.5	35599.88	1.55%	[1.00]	mg/L
Cd 214.440	50266.8	1239.62	2.47%	[1.00]	mg/L
Co 228.616	28681.5	552.55	1.93%	[1.00]	mg/L
Cr 267.716	42076.9	1284.16	3.05%	[1.00]	mg/L
Cu 324.752	326226.1	5124.26	1.57%	[1.00]	mg/L
Fe 238.204	44107.8	896.64	2.03%	[1.00]	mg/L
Fe 273.955	18719.7	398.58	2.13%	[1.00]	mg/L
Mn 257.610	496397.4	9455.68	1.90%	[1.00]	mg/L
Mo 202.031	4794.5	46.79	0.98%	[1.00]	mg/L
Ni 231.604	20872.2	323.87	1.55%	[1.00]	mg/L
Pb 220.353	22324.8	476.52	2.13%	[1.00]	mg/L
Sb 206.836	1114.5	4.75	0.43%	[1.00]	mg/L
Se 196.026	8266.7	121.49	1.47%	[1.00]	mg/L
Sr 407.771	422913.3	27154.22	6.42%	[1.00]	mg/L
Sr 421.552	236845.3	15732.94	6.64%	[1.00]	mg/L
Ti 334.940	394021.1	4744.00	1.20%	[1.00]	mg/L
Tl 190.801	6390.0	9.31	0.15%	[1.00]	mg/L
V 290.880	164880.2	3118.49	1.89%	[1.00]	mg/L
Zn 206.200	16033.1	411.57	2.57%	[1.00]	mg/L

ALAB: 000095

Sequence No.: 4
Sample ID: ICP STD3-20PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/17/2012 9:01:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	692853.0	8533.46	1.23%	[20.00]	mg/L
As 188.979	112345.6	406.92	0.36%	[20.00]	mg/L
B 249.677	1789964.4	80065.04	4.47%	[20.00]	mg/L
Ba 233.527	2063411.5	81299.54	3.94%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	22395.4	7.46	0.03%	[10]	mg/L
Bi 190.171	8243.1	22.86	0.28%	[10]	mg/L
Ca 315.887	22411.6	366.31	1.63%	[10.00]	mg/L
Ca 317.933	26268.3	356.16	1.36%	[10.00]	mg/L
Cd 214.440	871581.7	42700.33	4.90%	[20.00]	mg/L
Co 228.616	523688.4	19062.46	3.64%	[20.00]	mg/L
Cr 267.716	769861.9	32114.49	4.17%	[20.00]	mg/L
Cu 324.752	6116031.3	253597.15	4.15%	[20.00]	mg/L
Fe 238.204	789483.2	37038.53	4.69%	[20.00]	mg/L
Fe 273.955	343734.0	13211.47	3.84%	[20.00]	mg/L
K 766.490	28824.7	22.42	0.08%	[10.00]	mg/L
Mg 279.077	2466.8	48.63	1.97%	[10.00]	mg/L
Mn 257.610	8766007.8	108767.34	1.24%	[20.00]	mg/L
Mo 202.031	92090.6	3251.85	3.53%	[20.00]	mg/L
Na 589.592	69742.9	943.22	1.35%	[10.00]	mg/L
Ni 231.604	378156.4	15148.36	4.01%	[20.00]	mg/L
Pb 220.353	408171.5	17079.20	4.18%	[20.00]	mg/L
Se 196.026	157342.4	778.83	0.49%	[20.00]	mg/L
Sn 189.927	30746.6	181.46	0.59%	[10.00]	mg/L
Ti 334.940	7600225.0	155551.52	2.05%	[20.00]	mg/L
Tl 190.801	110824.9	439.65	0.40%	[20.00]	mg/L
V 290.880	3164300.7	137797.18	4.35%	[20.00]	mg/L
W 207.912	12518.4	74.28	0.59%	[5]	mg/L
Zn 206.200	297987.9	13700.13	4.60%	[20.00]	mg/L
Li 670.784	138060.0	1238.30	0.90%	[2.0]	mg/L
Li 610.362	14061.5	382.82	2.72%	[2.0]	mg/L
S 181.975	2441.2	24.64	1.01%	[10.00]	mg/L

ALAB: 00096

Sequence No.: 5
Sample ID: ICP STD4-2PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/17/2012 9:03:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Ag 328.068	261303.6	602.03	0.23%	[2.00] mg/L

ALAB: 00097

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 9:05:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ca 315.887	217855.3	1157.66	0.53%	[100.00]	mg/L
Ca 317.933	254890.3	2037.44	0.80%	[100.00]	mg/L
K 766.490	281378.0	2548.71	0.91%	[100.00]	mg/L
Mg 279.077	23267.6	27.16	0.12%	[100.00]	mg/L
Na 589.592	645890.4	7975.40	1.23%	[100.00]	mg/L
Na 330.237	776.8	8.61	1.11%	[100.00]	mg/L

Sequence No.: 7

Sample ID: ICP STD6-10PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 10/17/2012 9:07:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
P 213.617	13372.2	152.45	1.14%	[10.00] mg/L	
Si 251.611	405090.8	9598.75	2.37%	[10.00] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	130700	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34650	0.00000	0.999991	
As 188.979	3	Lin Thru 0	0.0	5618	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	89510	0.00000	0.999998	
Ba 233.527	3	Lin Thru 0	0.0	103200	0.00000	0.999982	
Be 313.107	2	Lin Thru 0	0.0	2297000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2240	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	824.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2179	0.00000	0.999996	
Ca 317.933	2	Lin Thru 0	0.0	2550	0.00000	0.999995	
Cd 214.440	3	Lin Thru 0	0.0	43600	0.00000	0.999971	
Co 228.616	3	Lin Thru 0	0.0	26190	0.00000	0.999989	
Cr 267.716	3	Lin Thru 0	0.0	38500	0.00000	0.999989	
Cu 324.752	3	Lin Thru 0	0.0	305900	0.00000	0.999994	
Fe 238.204	3	Lin Thru 0	0.0	39490	0.00000	0.999983	
Fe 273.955	3	Lin Thru 0	0.0	17190	0.00000	0.999990	
K 766.490	2	Lin Thru 0	0.0	2814	0.00000	0.999997	
Mg 279.077	2	Lin Thru 0	0.0	232.8	0.00000	0.999982	
Mn 257.610	3	Lin Thru 0	0.0	438400	0.00000	0.999978	
Mo 202.031	3	Lin Thru 0	0.0	4605	0.00000	0.999998	
Na 589.592	2	Lin Thru 0	0.0	6464	0.00000	0.999969	
Na 330.237	1	Lin Thru 0	0.0	7.768	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18910	0.00000	0.999987	
Pb 220.353	3	Lin Thru 0	0.0	20410	0.00000	0.999989	
Sb 206.836	2	Lin Thru 0	0.0	1115	0.00000	0.999971	
Se 196.026	3	Lin Thru 0	0.0	7868	0.00000	0.999997	
Sn 189.927	1	Lin Thru 0	0.0	3075	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	422900	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	236800	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	380000	0.00000	0.999998	
Tl 190.801	3	Lin Thru 0	0.0	5543	0.00000	0.999971	
V 290.880	3	Lin Thru 0	0.0	158200	0.00000	0.999998	
W 207.912	1	Lin Thru 0	0.0	2504	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14900	0.00000	0.999993	
P 213.617	1	Lin Thru 0	0.0	1337	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	40510	0.00000	1.000000	
Li 670.784	1	Lin Thru 0	0.0	69030	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	7031	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	244.1	0.00000	1.000000	

ALAS: 00097

Sequence No.: 8

Sample ID: ICP_ICV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 9:09:52 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_ICV(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	67592.1	0.5173 mg/L	0.00766	0.5173 mg/L	0.00766	1.48%
QC value within limits for Ag	328.068	Recovery = 103.47%				
Al 308.215	35904.8	1.036 mg/L	0.0134	1.036 mg/L	0.0134	1.29%
QC value within limits for Al	308.215	Recovery = 103.62%				
As 188.979	5617.7	1.0000 mg/L	0.01491	1.0000 mg/L	0.01491	1.49%
QC value within limits for As	188.979	Recovery = 100.00%				
B 249.677	91772.5	1.025 mg/L	0.0185	1.025 mg/L	0.0185	1.81%
QC value within limits for B	249.677	Recovery = 102.53%				
Ba 233.527	111962.8	1.085 mg/L	0.0190	1.085 mg/L	0.0190	1.75%
QC value within limits for Ba	233.527	Recovery = 108.49%				
Be 313.107	2306657.5	1.004 mg/L	0.0573	1.004 mg/L	0.0573	5.70%
QC value within limits for Be	313.107	Recovery = 100.40%				
Bi 223.061	-66.9	-0.0299 mg/L	0.00209	-0.0299 mg/L	0.00209	7.01%
Bi 190.171	10.9	0.0132 mg/L	0.00541	0.0132 mg/L	0.00541	41.07%
Ca 315.887	2344.2	1.076 mg/L	0.0012	1.076 mg/L	0.0012	0.11%
Ca 317.933	2755.3	1.081 mg/L	0.0010	1.081 mg/L	0.0010	0.10%
Cd 214.440	44839.3	1.029 mg/L	0.0178	1.029 mg/L	0.0178	1.73%
QC value within limits for Cd	214.440	Recovery = 102.85%				
Co 228.616	26937.1	1.028 mg/L	0.0182	1.028 mg/L	0.0182	1.77%
QC value within limits for Co	228.616	Recovery = 102.85%				
Cr 267.716	41632.0	1.081 mg/L	0.0177	1.081 mg/L	0.0177	1.64%
QC value within limits for Cr	267.716	Recovery = 108.13%				
Cu 324.752	304580.2	0.9958 mg/L	0.04320	0.9958 mg/L	0.04320	4.34%
QC value within limits for Cu	324.752	Recovery = 99.58%				
Fe 238.204	42462.6	1.075 mg/L	0.0181	1.075 mg/L	0.0181	1.68%
QC value within limits for Fe	238.204	Recovery = 107.54%				
Fe 273.955	17980.5	1.046 mg/L	0.0152	1.046 mg/L	0.0152	1.45%
QC value within limits for Fe	273.955	Recovery = 104.60%				
K 766.490	28470.5	10.12 mg/L	0.397	10.12 mg/L	0.397	3.92%
Mg 279.077	258.9	1.112 mg/L	0.0214	1.112 mg/L	0.0214	1.93%
Mn 257.610	452754.1	1.033 mg/L	0.0576	1.033 mg/L	0.0576	5.58%
QC value within limits for Mn	257.610	Recovery = 103.26%				
Mo 202.031	4666.8	1.013 mg/L	0.0161	1.013 mg/L	0.0161	1.59%
QC value within limits for Mo	202.031	Recovery = 101.34%				
Na 589.592	7078.0	1.095 mg/L	0.0842	1.095 mg/L	0.0842	7.69%
Na 330.237	-16.9	-2.173 mg/L	0.5043	-2.173 mg/L	0.5043	23.21%
Ni 231.604	19911.7	1.053 mg/L	0.0144	1.053 mg/L	0.0144	1.37%
QC value within limits for Ni	231.604	Recovery = 105.28%				
Pb 220.353	20882.8	1.023 mg/L	0.0309	1.023 mg/L	0.0309	3.03%
QC value within limits for Pb	220.353	Recovery = 102.30%				
Sb 206.836	1103.6	0.9898 mg/L	0.00042	0.9898 mg/L	0.00042	0.04%
QC value within limits for Sb	206.836	Recovery = 98.98%				
Se 196.026	8086.8	1.028 mg/L	0.0031	1.028 mg/L	0.0031	0.30%
QC value within limits for Se	196.026	Recovery = 102.78%				
Sn 189.927	-1.5	-0.0005 mg/L	0.00130	-0.0005 mg/L	0.00130	262.54%
Sr 407.771	413563.7	0.9779 mg/L	0.05327	0.9779 mg/L	0.05327	5.45%
QC value within limits for Sr	407.771	Recovery = 97.79%				
Sr 421.552	232850.0	0.9831 mg/L	0.04635	0.9831 mg/L	0.04635	4.71%
QC value within limits for Sr	421.552	Recovery = 98.31%				
Ti 334.940	395941.0	1.042 mg/L	0.0535	1.042 mg/L	0.0535	5.14%
QC value within limits for Ti	334.940	Recovery = 104.18%				
Tl 190.801	5844.7	1.054 mg/L	0.0110	1.054 mg/L	0.0110	1.04%
QC value within limits for Tl	190.801	Recovery = 105.44%				
V 290.880	162269.6	1.025 mg/L	0.0594	1.025 mg/L	0.0594	5.79%
QC value within limits for V	290.880	Recovery = 102.54%				
W 207.912	44.1	0.0176 mg/L	0.00065	0.0176 mg/L	0.00065	3.70%
Y 371.029	1447.0				105.15	7.27%
Zn 206.200	15230.7	1.022 mg/L	0.0193	1.022 mg/L	0.0193	1.88%
QC value within limits for Zn	206.200	Recovery = 102.20%				
P 213.617	-1791.4	-1.340 mg/L	0.0282	-1.340 mg/L	0.0282	2.10%
Si 251.611	40356.4	0.9962 mg/L	0.01025	0.9962 mg/L	0.01025	1.03%
QC value within limits for Si	251.611	Recovery = 99.62%				
Li 670.784	65949.8	0.9554 mg/L	0.05723	0.9554 mg/L	0.05723	5.99%
Li 610.362	7192.6	1.023 mg/L	0.1809	1.023 mg/L	0.1809	18.09%

CONFIDENTIAL

LMC-PET-00001712

Sequence No.: 9

Sample ID: ICP_ICB(Daily)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 10/17/2012 9:18:59 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ag 328.068	10.0	0.0001 mg/L		0.00021	0.0001 mg/L	0.00021	277.04%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 308.215	-89.7	-0.0026 mg/L		0.00007	-0.0026 mg/L	0.00007	2.52%
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979	-1.9	-0.0003 mg/L		0.00116	-0.0003 mg/L	0.00116	337.86%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677	3640.5	0.0407 mg/L		0.00116	0.0407 mg/L	0.00116	2.84%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated							
Ba 233.527	68.3	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	7.99%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107	1108.2	0.0005 mg/L		0.00009	0.0005 mg/L	0.00009	19.25%
QC value within limits for Be 313.107 Recovery = Not calculated							
Bi 223.061	-9.1	-0.0041 mg/L		0.00083	-0.0041 mg/L	0.00083	20.26%
QC value within limits for Bi 223.061 Recovery = Not calculated							
Bi 190.171	6.9	0.0083 mg/L		0.00090	0.0083 mg/L	0.00090	10.85%
QC value within limits for Bi 190.171 Recovery = Not calculated							
Ca 315.887	-0.5	-0.0002 mg/L		0.00330	-0.0002 mg/L	0.00330	>999.9%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Ca 317.933	5.1	0.0020 mg/L		0.00147	0.0020 mg/L	0.00147	74.23%
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 214.440	41.0	0.0009 mg/L		0.00007	0.0009 mg/L	0.00007	7.78%
QC value within limits for Cd 214.440 Recovery = Not calculated							
Co 228.616	9.7	0.0004 mg/L		0.00012	0.0004 mg/L	0.00012	32.67%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716	13.5	0.0004 mg/L		0.00022	0.0004 mg/L	0.00022	63.32%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752	161.8	0.0005 mg/L		0.00064	0.0005 mg/L	0.00064	120.45%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204	59.1	0.0015 mg/L		0.00084	0.0015 mg/L	0.00084	56.45%
QC value within limits for Fe 238.204 Recovery = Not calculated							
Fe 273.955	12.2	0.0007 mg/L		0.00126	0.0007 mg/L	0.00126	176.54%
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490	-235.3	-0.0836 mg/L		0.05194	-0.0836 mg/L	0.05194	62.14%
QC value less than the lower limit for K 766.490 Recovery = Not calculated							
Mg 279.077	3.6	0.0156 mg/L		0.01982	0.0156 mg/L	0.01982	127.21%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated							
Mn 257.610	215.0	0.0005 mg/L		0.00003	0.0005 mg/L	0.00003	5.75%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031	15.6	0.0034 mg/L		0.00051	0.0034 mg/L	0.00051	14.93%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592	-135.0	-0.0209 mg/L		0.01311	-0.0209 mg/L	0.01311	62.80%
QC value less than the lower limit for Na 589.592 Recovery = Not calculated							
Na 330.237	-1.3	-0.1653 mg/L		0.22270	-0.1653 mg/L	0.22270	134.71%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated							
Ni 231.604	8.6	0.0005 mg/L		0.00016	0.0005 mg/L	0.00016	34.66%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353	-0.4	0.0000 mg/L		0.00077	0.0000 mg/L	0.00077	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836	23.2	0.0208 mg/L		0.00091	0.0208 mg/L	0.00091	4.38%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated							
Se 196.026	73.1	0.0093 mg/L		0.01087	0.0093 mg/L	0.01087	117.02%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927	-0.1	0.0000 mg/L		0.00087	0.0000 mg/L	0.00087	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771	1028.8	0.0024 mg/L		0.00178	0.0024 mg/L	0.00178	73.22%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Sr 421.552	603.3	0.0025 mg/L		0.00199	0.0025 mg/L	0.00199	78.08%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940	467.7	0.0012 mg/L		0.00021	0.0012 mg/L	0.00021	17.38%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801	-3.9	-0.0007 mg/L		0.00374	-0.0007 mg/L	0.00374	527.00%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 290.880	121.9	0.0008 mg/L		0.00040	0.0008 mg/L	0.00040	52.53%
QC value within limits for V 290.880 Recovery = Not calculated							

ALAB 000033

Zn 206.200	10.8	0.0007 mg/L	0.00013	0.0007 mg/L	0.00013	18.01%
QC value within limits for Zn 206.200 Recovery = Not calculated						
P 213.617	3.6	0.0027 mg/L	0.01009	0.0027 mg/L	0.01009	378.23%
Si 251.611	-10.4	-0.0003 mg/L	0.00230	-0.0003 mg/L	0.00230	898.09%
Li 670.784	-219.5	-0.0032 mg/L	0.00526	-0.0032 mg/L	0.00526	165.51%
Li 610.362	84.1	0.0120 mg/L	0.01221	0.0120 mg/L	0.01221	102.09%
S 181.975	-4.3	-0.0175 mg/L	0.00556	-0.0175 mg/L	0.00556	31.72%

QC Failed. Continue with analysis.

ALAS: 00100

Sequence No.: 10
 Sample ID: ICP_CCVGM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 10/17/2012 9:21:37 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-22.8	-0.0002 mg/L		0.00058	-0.0002 mg/L	0.00058	329.75%
Al 308.215	-607.5	-0.0175 mg/L		0.00027	-0.0175 mg/L	0.00027	1.56%
As 188.979	18.6	0.0033 mg/L		0.00008	0.0033 mg/L	0.00008	2.46%
B 249.677	3420.1	0.0382 mg/L		0.00026	0.0382 mg/L	0.00026	0.69%
Ba 233.527	67.1	0.0007 mg/L		0.00002	0.0007 mg/L	0.00002	3.05%
Be 313.107	76.3	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	21.10%
Bi 223.061	6.4	0.0028 mg/L		0.00451	0.0028 mg/L	0.00451	158.33%
Bi 190.171	20.8	0.0252 mg/L		0.00005	0.0252 mg/L	0.00005	0.19%
Ca 315.887	210994.4	96.82 mg/L		0.080	96.82 mg/L	0.080	0.08%
QC value within limits for Ca 315.887 Recovery = 96.82%							
Ca 317.933	249241.3	97.75 mg/L		0.138	97.75 mg/L	0.138	0.14%
QC value within limits for Ca 317.933 Recovery = 97.75%							
Cd 214.440	-14.3	-0.0003 mg/L		0.00003	-0.0003 mg/L	0.00003	7.92%
Co 228.616	5.2	0.0002 mg/L		0.00011	0.0002 mg/L	0.00011	56.78%
Cr 267.716	79.0	0.0021 mg/L		0.00023	0.0021 mg/L	0.00023	11.18%
Cu 324.752	831.3	0.0027 mg/L		0.00025	0.0027 mg/L	0.00025	9.06%
Fe 238.204	175.8	0.0045 mg/L		0.00016	0.0045 mg/L	0.00016	3.63%
Fe 273.955	-42.0	-0.0024 mg/L		0.00001	-0.0024 mg/L	0.00001	0.55%
K 766.490	275858.3	98.01 mg/L		0.460	98.01 mg/L	0.460	0.47%
QC value within limits for K 766.490 Recovery = 98.01%							
Mg 279.077	23251.0	99.87 mg/L		0.598	99.87 mg/L	0.598	0.60%
QC value within limits for Mg 279.077 Recovery = 99.87%							
Mn 257.610	1453.7	0.0033 mg/L		0.00002	0.0033 mg/L	0.00002	0.55%
Mo 202.031	30.1	0.0065 mg/L		0.00037	0.0065 mg/L	0.00037	5.72%
Na 589.592	633485.8	98.00 mg/L		0.720	98.00 mg/L	0.720	0.73%
QC value within limits for Na 589.592 Recovery = 98.00%							
Na 330.237	781.5	100.6 mg/L		0.03	100.6 mg/L	0.03	0.03%
QC value within limits for Na 330.237 Recovery = 100.61%							
Ni 231.604	10.3	0.0005 mg/L		0.00044	0.0005 mg/L	0.00044	79.93%
Pb 220.353	-6.8	-0.0003 mg/L		0.00404	-0.0003 mg/L	0.00404	>999.9%
Sb 206.836	-5.9	-0.0053 mg/L		0.00084	-0.0053 mg/L	0.00084	15.72%
Se 196.026	-63.2	-0.0080 mg/L		0.02935	-0.0080 mg/L	0.02935	365.18%
Sn 189.927	-92.1	-0.0300 mg/L		0.00344	-0.0300 mg/L	0.00344	11.49%
Sr 407.771	231.9	0.0005 mg/L		0.00000	0.0005 mg/L	0.00000	0.35%
Sr 421.552	92.5	0.0004 mg/L		0.00002	0.0004 mg/L	0.00002	6.14%
Ti 334.940	3532.2	0.0093 mg/L		0.00044	0.0093 mg/L	0.00044	4.73%
Tl 190.801	-62.5	-0.0113 mg/L		0.00503	-0.0113 mg/L	0.00503	44.59%
V 290.880	-309.9	-0.0020 mg/L		0.00036	-0.0020 mg/L	0.00036	18.40%
W 207.912	25.7	0.0103 mg/L		0.00101	0.0103 mg/L	0.00101	9.81%
Y 371.029	1530.0					65.33	4.27%
Zn 206.200	6.8	0.0005 mg/L		0.00024	0.0005 mg/L	0.00024	51.36%
P 213.617	-8.8	-0.0066 mg/L		0.00602	-0.0066 mg/L	0.00602	91.44%
Si 251.611	455.7	0.0112 mg/L		0.00013	0.0112 mg/L	0.00013	1.18%
Li 670.784	-1132.3	-0.0164 mg/L		0.00008	-0.0164 mg/L	0.00008	0.50%
Li 610.362	-2698.6	-0.3838 mg/L		0.11840	-0.3838 mg/L	0.11840	30.85%
S 181.975	4.0	0.0162 mg/L		0.01895	0.0162 mg/L	0.01895	116.71%

All analyte(s) passed QC.

ALAB: 00101

Sequence No.: 11

Sample ID: ICP_CCB(Daily)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 10/17/2012 9:24:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

	Mean Corrected	Calib		Sample	
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev. RSD
Ag 328.068	65.0	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027 53.44%
Al 308.215	-131.6	-0.0038 mg/L	0.00022	-0.0038 mg/L	0.00022 5.66%
As 188.979	-15.1	-0.0027 mg/L	0.00107	-0.0027 mg/L	0.00107 39.89%
B 249.677	2744.6	0.0307 mg/L	0.00018	0.0307 mg/L	0.00018 0.60%
Ba 233.527	11.8	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005 40.18%
Be 313.107	-3.3	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005 >999.9%
Bi 223.061	-3.8	-0.0017 mg/L	0.00315	-0.0017 mg/L	0.00315 183.46%
Bi 190.171	5.3	0.0065 mg/L	0.00297	0.0065 mg/L	0.00297 45.95%
Ca 315.887	81.0	0.0372 mg/L	0.00745	0.0372 mg/L	0.00745 20.05%
Ca 317.933	101.5	0.0398 mg/L	0.00412	0.0398 mg/L	0.00412 10.35%
Cd 214.440	19.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002 4.84%
Co 228.616	-2.1	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004 52.79%
Cr 267.716	5.5	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026 184.01%
Cu 324.752	44.4	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008 52.25%
Fe 238.204	-6.8	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006 37.12%
Fe 273.955	-8.0	-0.0005 mg/L	0.00021	-0.0005 mg/L	0.00021 44.83%
K 766.490	163.5	0.0581 mg/L	0.00226	0.0581 mg/L	0.00226 3.89%
Mg 279.077	15.3	0.0655 mg/L	0.00578	0.0655 mg/L	0.00578 8.81%
Mn 257.610	17.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001 16.90%
Mo 202.031	4.1	0.0009 mg/L	0.00032	0.0009 mg/L	0.00032 35.96%
QC value less than the lower limit for Mo 202.031			Recovery = 0.09%		
Na 589.592	379.6	0.0587 mg/L	0.01016	0.0587 mg/L	0.01016 17.30%
Na 330.237	6.4	0.8254 mg/L	0.52452	0.8254 mg/L	0.52452 63.55%
Ni 231.604	7.7	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014 33.55%
Pb 220.353	-21.1	-0.0010 mg/L	0.00290	-0.0010 mg/L	0.00290 279.63%
Sb 206.836	7.2	0.0064 mg/L	0.00288	0.0064 mg/L	0.00288 44.85%
QC value less than the lower limit for Sb 206.836			Recovery = 0.64%		
Se 196.026	124.0	0.0158 mg/L	0.01744	0.0158 mg/L	0.01744 110.68%
Sn 189.927	4.4	0.0014 mg/L	0.00074	0.0014 mg/L	0.00074 51.37%
Sr 407.771	0.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002 >999.9%
Sr 421.552	9.0	0.0000 mg/L	0.00038	0.0000 mg/L	0.00038 990.61%
Ti 334.940	134.3	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008 22.57%
Tl 190.801	-17.4	-0.0031 mg/L	0.00102	-0.0031 mg/L	0.00102 32.43%
V 290.880	149.6	0.0009 mg/L	0.00013	0.0009 mg/L	0.00013 13.30%
W 207.912	2.9	0.0012 mg/L	0.00012	0.0012 mg/L	0.00012 10.60%
Y 371.029	1577.4				101.55 6.44%
Zn 206.200	3.8	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007 28.42%
P 213.617	-3.6	-0.0027 mg/L	0.00083	-0.0027 mg/L	0.00083 30.76%
Si 251.611	-97.5	-0.0024 mg/L	0.00044	-0.0024 mg/L	0.00044 18.17%
Li 670.784	-619.5	-0.0090 mg/L	0.00474	-0.0090 mg/L	0.00474 52.77%
Li 610.362	-14.6	-0.0021 mg/L	0.05364	-0.0021 mg/L	0.05364 >999.9%
S 181.975	-8.6	-0.0353 mg/L	0.02734	-0.0353 mg/L	0.02734 77.39%

QC Failed. Continue with analysis.

ALAB: 00102

Sequence No.: 13
 Sample ID: ICSA(3-22-12)
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 10/17/2012 9:35:01 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICSA(3-22-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	356.7	0.0027 mg/L		0.00071	0.0027 mg/L	0.00071	25.99%
Al 308.215	11923870.5	344.1 mg/L		9.25	344.1 mg/L	9.25	2.69%
As 188.979	-89.8	-0.0160 mg/L		0.01190	-0.0160 mg/L	0.01190	74.49%
B 249.677	-1663.1	-0.0186 mg/L		0.00259	-0.0186 mg/L	0.00259	13.95%
Ba 233.527	659.2	0.0064 mg/L		0.00063	0.0064 mg/L	0.00063	9.84%
Be 313.107	-640.2	-0.0003 mg/L		0.00007	-0.0003 mg/L	0.00007	26.38%
Bi 223.061	98.0	0.0438 mg/L		0.00294	0.0438 mg/L	0.00294	6.71%
Bi 190.171	87.4	0.1060 mg/L		0.00070	0.1060 mg/L	0.00070	0.66%
Ca 315.887	897645.4	411.9 mg/L		12.85	411.9 mg/L	12.85	3.12%
Ca 317.933	1053240.1	413.1 mg/L		12.60	413.1 mg/L	12.60	3.05%
Cd 214.440	180.3	0.0041 mg/L		0.00028	0.0041 mg/L	0.00028	6.79%
Co 228.616	36.6	0.0014 mg/L		0.00004	0.0014 mg/L	0.00004	2.81%
Cr 267.716	242.7	0.0063 mg/L		0.00039	0.0063 mg/L	0.00039	6.11%
Cu 324.752	-2334.9	-0.0076 mg/L		0.00046	-0.0076 mg/L	0.00046	5.99%
Fe 238.204	4976541.2	126.0 mg/L		1.95	126.0 mg/L	1.95	1.55%
Fe 273.955	2394387.4	139.3 mg/L		0.75	139.3 mg/L	0.75	0.54%
K 766.490	790.8	0.2810 mg/L		0.06462	0.2810 mg/L	0.06462	23.00%
Mg 279.077	100308.5	430.9 mg/L		15.77	430.9 mg/L	15.77	3.66%
Mn 257.610	654.4	0.0015 mg/L		0.00036	0.0015 mg/L	0.00036	24.13%
Mo 202.031	44.7	0.0097 mg/L		0.00186	0.0097 mg/L	0.00186	19.19%
Na 589.592	1047.7	0.1621 mg/L		0.00486	0.1621 mg/L	0.00486	3.00%
Na 330.237	18.8	2.419 mg/L		0.2233	2.419 mg/L	0.2233	9.23%
Ni 231.604	19.4	0.0010 mg/L		0.00049	0.0010 mg/L	0.00049	47.55%
Pb 220.353	-35.5	-0.0017 mg/L		0.00368	-0.0017 mg/L	0.00368	211.77%
Sb 206.836	-36.2	-0.0325 mg/L		0.00785	-0.0325 mg/L	0.00785	24.14%
Se 196.026	-642.9	-0.0817 mg/L		0.04929	-0.0817 mg/L	0.04929	60.32%
Sn 189.927	-58.1	-0.0189 mg/L		0.00815	-0.0189 mg/L	0.00815	43.07%
Sr 407.771	3494.8	0.0083 mg/L		0.00001	0.0083 mg/L	0.00001	0.10%
Sr 421.552	1958.9	0.0083 mg/L		0.00001	0.0083 mg/L	0.00001	0.14%
Ti 334.940	4029.5	0.0106 mg/L		0.00020	0.0106 mg/L	0.00020	1.90%
Tl 190.801	-119.2	-0.0215 mg/L		0.00133	-0.0215 mg/L	0.00133	6.21%
V 290.880	328.4	-0.0075 mg/L		0.00133	-0.0075 mg/L	0.00133	17.66%
W 207.912	169.8	0.0678 mg/L		0.00203	0.0678 mg/L	0.00203	2.99%
Y 371.029	1382.3					6.76	0.49%
Zn 206.200	69.2	0.0046 mg/L		0.00042	0.0046 mg/L	0.00042	9.00%
P 213.617	-93.2	-0.0697 mg/L		0.00930	-0.0697 mg/L	0.00930	13.34%
Si 251.611	694.8	0.0172 mg/L		0.01161	0.0172 mg/L	0.01161	67.70%
Li 670.784	-233.3	-0.0034 mg/L		0.01119	-0.0034 mg/L	0.01119	331.08%
Li 610.362	-7930.2	-1.128 mg/L		0.0063	-1.128 mg/L	0.0063	0.56%
S 181.975	-59.4	-0.2434 mg/L		0.02289	-0.2434 mg/L	0.02289	9.41%

ALAB: 00103

Sequence No.: 14
 Sample ID: ICSAB(3-22-12)
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 10/17/2012 9:37:39 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICSAB(3-22-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	142176.5	1.088 mg/L	0.0092	1.088 mg/L	0.0092	0.85%
Al 308.215	12523670.3	361.4 mg/L	14.88	361.4 mg/L	14.88	4.12%
As 188.979	-167.3	-0.0298 mg/L	0.00033	-0.0298 mg/L	0.00033	1.10%
B 249.677	-216.9	-0.0024 mg/L	0.00285	-0.0024 mg/L	0.00285	117.83%
Ba 233.527	53486.1	0.5183 mg/L	0.01261	0.5183 mg/L	0.01261	2.43%
Be 313.107	1138424.4	0.4955 mg/L	0.00721	0.4955 mg/L	0.00721	1.46%
Bi 223.061	21.5	0.0096 mg/L	0.00922	0.0096 mg/L	0.00922	95.92%
Bi 190.171	59.9	0.0726 mg/L	0.00708	0.0726 mg/L	0.00708	9.74%
Ca 315.887	945789.4	434.0 mg/L	16.59	434.0 mg/L	16.59	3.82%
Ca 317.933	1104407.8	433.2 mg/L	16.91	433.2 mg/L	16.91	3.90%
Cd 214.440	41046.8	0.9415 mg/L	0.01490	0.9415 mg/L	0.01490	1.58%
Co 228.616	11496.9	0.4390 mg/L	0.00168	0.4390 mg/L	0.00168	0.38%
Cr 267.716	19162.6	0.4977 mg/L	0.01616	0.4977 mg/L	0.01616	3.25%
Cu 324.752	152732.1	0.4994 mg/L	0.00646	0.4994 mg/L	0.00646	1.29%
Fe 238.204	5161788.4	130.7 mg/L	2.31	130.7 mg/L	2.31	1.76%
Fe 273.955	2490452.9	144.9 mg/L	3.22	144.9 mg/L	3.22	2.22%
K 766.490	922.9	0.3279 mg/L	0.26416	0.3279 mg/L	0.26416	80.56%
Mg 279.077	105378.5	452.6 mg/L	17.40	452.6 mg/L	17.40	3.84%
Mn 257.610	208237.3	0.4749 mg/L	0.00878	0.4749 mg/L	0.00878	1.85%
Mo 202.031	37.9	0.0082 mg/L	0.00224	0.0082 mg/L	0.00224	27.27%
Na 589.592	1254.6	0.1941 mg/L	0.00345	0.1941 mg/L	0.00345	1.78%
Na 330.237	10.3	1.325 mg/L	0.3114	1.325 mg/L	0.3114	23.50%
Ni 231.604	16478.2	0.8713 mg/L	0.00412	0.8713 mg/L	0.00412	0.47%
Pb 220.353	17792.8	0.8716 mg/L	0.00768	0.8716 mg/L	0.00768	0.88%
Sb 206.836	-36.4	-0.0327 mg/L	0.00841	-0.0327 mg/L	0.00841	25.74%
Se 196.026	-448.2	-0.0570 mg/L	0.02446	-0.0570 mg/L	0.02446	42.95%
Sn 189.927	-142.9	-0.0465 mg/L	0.00282	-0.0465 mg/L	0.00282	6.06%
Sr 407.771	3952.5	0.0093 mg/L	0.00003	0.0093 mg/L	0.00003	0.33%
Sr 421.552	2218.4	0.0094 mg/L	0.00005	0.0094 mg/L	0.00005	0.53%
Ti 334.940	3949.7	0.0104 mg/L	0.00126	0.0104 mg/L	0.00126	12.13%
Tl 190.801	-127.3	-0.0230 mg/L	0.01012	-0.0230 mg/L	0.01012	44.05%
V 290.880	80161.8	0.4966 mg/L	0.00748	0.4966 mg/L	0.00748	1.51%
W 207.912	131.4	0.0525 mg/L	0.00178	0.0525 mg/L	0.00178	3.39%
Y 371.029	1510.8				125.47	8.31%
Zn 206.200	13371.2	0.8973 mg/L	0.00317	0.8973 mg/L	0.00317	0.35%
P 213.617	-818.7	-0.6123 mg/L	0.01665	-0.6123 mg/L	0.01665	2.72%
Si 251.611	464.0	0.0115 mg/L	0.00061	0.0115 mg/L	0.00061	5.36%
Li 670.784	19.6	0.0003 mg/L	0.00544	0.0003 mg/L	0.00544	>999.9%
Li 610.362	-8046.3	-1.144 mg/L	0.1145	-1.144 mg/L	0.1145	10.01%
S 181.975	-55.3	-0.2267 mg/L	0.03595	-0.2267 mg/L	0.03595	15.86%

ALAB: 00104

Sequence No.: 22

Sample ID: ICP_CCV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 10:08:26 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	70130.1	0.5368 mg/L	0.01902	0.5368 mg/L	0.01902	3.54%
QC value within limits for Ag 328.068 Recovery = 107.35%						
Al 308.215	35733.8	1.031 mg/L	0.0202	1.031 mg/L	0.0202	1.96%
QC value within limits for Al 308.215 Recovery = 103.13%						
As 188.979	5897.0	1.050 mg/L	0.0086	1.050 mg/L	0.0086	0.82%
QC value within limits for As 188.979 Recovery = 104.97%						
B 249.677	102150.8	1.141 mg/L	0.0397	1.141 mg/L	0.0397	3.48%
QC value greater than the upper limit for B 249.677 Recovery = 114.13%						
Ba 233.527	112863.4	1.094 mg/L	0.0333	1.094 mg/L	0.0333	3.04%
QC value within limits for Ba 233.527 Recovery = 109.36%						
Be 313.107	2395443.9	1.043 mg/L	0.0339	1.043 mg/L	0.0339	3.25%
QC value within limits for Be 313.107 Recovery = 104.27%						
Bi 223.061	-75.4	-0.0337 mg/L	0.00149	-0.0337 mg/L	0.00149	4.44%
Bi 190.171	11.1	0.0134 mg/L	0.00234	0.0134 mg/L	0.00234	17.42%
Ca 315.887	2394.6	1.099 mg/L	0.0090	1.099 mg/L	0.0090	0.82%
Ca 317.933	2829.2	1.110 mg/L	0.0072	1.110 mg/L	0.0072	0.65%
Cd 214.440	45574.6	1.045 mg/L	0.0336	1.045 mg/L	0.0336	3.21%
QC value within limits for Cd 214.440 Recovery = 104.54%						
Co 228.616	27145.5	1.036 mg/L	0.0375	1.036 mg/L	0.0375	3.62%
QC value within limits for Co 228.616 Recovery = 103.65%						
Cr 267.716	41931.5	1.089 mg/L	0.0341	1.089 mg/L	0.0341	3.13%
QC value within limits for Cr 267.716 Recovery = 108.91%						
Cu 324.752	308506.7	1.009 mg/L	0.0295	1.009 mg/L	0.0295	2.92%
QC value within limits for Cu 324.752 Recovery = 100.87%						
Fe 238.204	42666.5	1.081 mg/L	0.0386	1.081 mg/L	0.0386	3.58%
QC value within limits for Fe 238.204 Recovery = 108.06%						
Fe 273.955	18106.1	1.053 mg/L	0.0189	1.053 mg/L	0.0189	1.80%
QC value within limits for Fe 273.955 Recovery = 105.33%						
K 766.490	26233.5	9.321 mg/L	0.5659	9.321 mg/L	0.5659	6.07%
kg 279.077	268.5	1.153 mg/L	0.0125	1.153 mg/L	0.0125	1.08%
Mn 257.610	467225.2	1.066 mg/L	0.0359	1.066 mg/L	0.0359	3.37%
QC value within limits for Mn 257.610 Recovery = 106.56%						
Mo 202.031	4692.6	1.019 mg/L	0.0441	1.019 mg/L	0.0441	4.32%
QC value within limits for Mo 202.031 Recovery = 101.90%						
Na 589.592	5898.7	0.9126 mg/L	0.04297	0.9126 mg/L	0.04297	4.71%
Na 330.237	-8.1	-1.042 mg/L	0.6518	-1.042 mg/L	0.6518	62.57%
Ni 231.604	19907.7	1.053 mg/L	0.0422	1.053 mg/L	0.0422	4.01%
QC value within limits for Ni 231.604 Recovery = 105.26%						
Pb 220.353	21052.6	1.031 mg/L	0.0339	1.031 mg/L	0.0339	3.28%
QC value within limits for Pb 220.353 Recovery = 103.13%						
Sb 206.836	1146.8	1.029 mg/L	0.0006	1.029 mg/L	0.0006	0.06%
QC value within limits for Sb 206.836 Recovery = 102.86%						
Se 196.026	8490.9	1.079 mg/L	0.0080	1.079 mg/L	0.0080	0.74%
QC value within limits for Se 196.026 Recovery = 107.92%						
Sn 189.927	-9.2	-0.0030 mg/L	0.00004	-0.0030 mg/L	0.00004	1.48%
Sr 407.771	374961.6	0.8866 mg/L	0.04960	0.8866 mg/L	0.04960	5.59%
QC value less than the lower limit for Sr 407.771 Recovery = 88.66%						
Sr 421.552	211340.2	0.8923 mg/L	0.04544	0.8923 mg/L	0.04544	5.09%
QC value less than the lower limit for Sr 421.552 Recovery = 89.23%						
Ti 334.940	409307.2	1.077 mg/L	0.0405	1.077 mg/L	0.0405	3.76%
QC value within limits for Ti 334.940 Recovery = 107.70%						
Tl 190.801	6031.5	1.088 mg/L	0.0081	1.088 mg/L	0.0081	0.75%
QC value within limits for Tl 190.801 Recovery = 108.81%						
V 290.880	164704.7	1.041 mg/L	0.0309	1.041 mg/L	0.0309	2.97%
QC value within limits for V 290.880 Recovery = 104.08%						
V 207.912	44.3	0.0177 mg/L	0.00040	0.0177 mg/L	0.00040	2.24%
Zr 371.029	1813.2				300.86	16.59%
Zn 206.200	15366.0	1.031 mg/L	0.0401	1.031 mg/L	0.0401	3.89%
QC value within limits for Zn 206.200 Recovery = 103.11%						
Zr 213.617	-1878.4	-1.405 mg/L	0.0839	-1.405 mg/L	0.0839	5.97%
Si 251.611	40282.3	0.9944 mg/L	0.02863	0.9944 mg/L	0.02863	2.88%
QC value within limits for Si 251.611 Recovery = 99.44%						
Zr 670.784	58337.7	0.8451 mg/L	0.04019	0.8451 mg/L	0.04019	4.76%
Zr 610.362	5754.0	0.8184 mg/L	0.00450	0.8184 mg/L	0.00450	0.55%

Sequence No.: 23
 Sample ID: ICP_CCVGM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 10/17/2012 10:11:00 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Ag 328.068	181.9	0.0014 mg/L		0.00039	0.0014 mg/L		0.00039	27.72%
Al 308.215	-486.9	-0.0141 mg/L		0.00188	-0.0141 mg/L		0.00188	13.36%
As 188.979	21.6	0.0038 mg/L		0.00289	0.0038 mg/L		0.00289	75.03%
B 249.677	12459.4	0.1392 mg/L		0.00118	0.1392 mg/L		0.00118	0.84%
Ba 233.527	94.0	0.0009 mg/L		0.00020	0.0009 mg/L		0.00020	21.69%
Be 313.107	556.2	0.0002 mg/L		0.00005	0.0002 mg/L		0.00005	20.67%
Bi 223.061	-4.2	-0.0019 mg/L		0.00275	-0.0019 mg/L		0.00275	147.46%
Bi 190.171	19.2	0.0233 mg/L		0.00600	0.0233 mg/L		0.00600	25.74%
Ca 315.887	229150.4	105.2 mg/L		9.48	105.2 mg/L		9.48	9.01%
QC value within limits for Ca 315.887 Recovery = 105.15%								
Ca 317.933	267748.7	105.0 mg/L		9.42	105.0 mg/L		9.42	8.97%
QC value within limits for Ca 317.933 Recovery = 105.01%								
Cd 214.440	56.9	0.0013 mg/L		0.00003	0.0013 mg/L		0.00003	1.93%
Co 228.616	19.5	0.0007 mg/L		0.00024	0.0007 mg/L		0.00024	31.96%
Cr 267.716	92.1	0.0024 mg/L		0.00027	0.0024 mg/L		0.00027	11.24%
Cu 324.752	974.9	0.0032 mg/L		0.00012	0.0032 mg/L		0.00012	3.84%
Fe 238.204	251.1	0.0064 mg/L		0.00031	0.0064 mg/L		0.00031	4.95%
Fe 273.955	-25.0	-0.0015 mg/L		0.00025	-0.0015 mg/L		0.00025	17.39%
K 766.490	295062.5	104.8 mg/L		9.51	104.8 mg/L		9.51	9.07%
QC value within limits for K 766.490 Recovery = 104.84%								
Mg 279.077	24820.7	106.6 mg/L		0.72	106.6 mg/L		0.72	0.68%
QC value within limits for Mg 279.077 Recovery = 106.61%								
Mn 257.610	1646.2	0.0038 mg/L		0.00006	0.0038 mg/L		0.00006	1.65%
Mo 202.031	35.7	0.0077 mg/L		0.00159	0.0077 mg/L		0.00159	20.51%
Na 589.592	682736.0	105.6 mg/L		9.80	105.6 mg/L		9.80	9.28%
QC value within limits for Na 589.592 Recovery = 105.62%								
Na 330.237	809.8	104.2 mg/L		1.13	104.2 mg/L		1.13	1.08%
QC value within limits for Na 330.237 Recovery = 104.25%								
Ni 231.604	16.3	0.0009 mg/L		0.00005	0.0009 mg/L		0.00005	6.31%
Pb 220.353	43.2	0.0021 mg/L		0.00148	0.0021 mg/L		0.00148	69.75%
Sb 206.836	11.0	0.0099 mg/L		0.00080	0.0099 mg/L		0.00080	8.06%
Se 196.026	33.5	0.0043 mg/L		0.02523	0.0043 mg/L		0.02523	592.73%
Sn 189.927	-90.9	-0.0296 mg/L		0.00141	-0.0296 mg/L		0.00141	4.76%
Sr 407.771	366.8	0.0009 mg/L		0.00009	0.0009 mg/L		0.00009	9.87%
Sr 421.552	180.1	0.0008 mg/L		0.00007	0.0008 mg/L		0.00007	8.64%
Ti 334.940	3812.6	0.0100 mg/L		0.00011	0.0100 mg/L		0.00011	1.14%
Tl 190.801	-50.5	-0.0091 mg/L		0.00269	-0.0091 mg/L		0.00269	29.53%
Tl 290.880	-170.4	-0.0011 mg/L		0.00058	-0.0011 mg/L		0.00058	53.97%
V 207.912	30.2	0.0120 mg/L		0.00284	0.0120 mg/L		0.00284	23.61%
V 371.029	1534.6						43.98	2.87%
Zn 206.200	15.7	0.0011 mg/L		0.00022	0.0011 mg/L		0.00022	20.83%
Zn 213.617	-9.3	-0.0069 mg/L		0.00179	-0.0069 mg/L		0.00179	25.91%
Zi 251.611	482.9	0.0119 mg/L		0.00036	0.0119 mg/L		0.00036	3.01%
Zi 670.784	-236.6	-0.0034 mg/L		0.00044	-0.0034 mg/L		0.00044	12.79%
Zi 610.362	-1624.9	-0.2311 mg/L		0.04871	-0.2311 mg/L		0.04871	21.08%
Zi 181.975	6.8	0.0278 mg/L		0.03137	0.0278 mg/L		0.03137	112.95%

All analyte(s) passed QC.

ALAB: 00106

Sequence No.: 24
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 10:13:35 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	1533.6	0.0117 mg/L	0.00075	0.0117 mg/L	0.00075	6.37%
Al 308.215	-136.7	-0.0039 mg/L	0.00088	-0.0039 mg/L	0.00088	22.37%
As 188.979	12.6	0.0022 mg/L	0.00001	0.0022 mg/L	0.00001	0.59%
B 249.677	11495.6	0.1284 mg/L	0.00007	0.1284 mg/L	0.00007	0.06%
Ba 233.527	33.4	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	34.63%
Be 313.107	184.0	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	33.12%
Bi 223.061	-11.4	-0.0051 mg/L	0.00527	-0.0051 mg/L	0.00527	103.54%
Bi 190.171	4.3	0.0052 mg/L	0.00818	0.0052 mg/L	0.00818	156.36%
Ca 315.887	92.3	0.0424 mg/L	0.00903	0.0424 mg/L	0.00903	21.32%
Ca 317.933	115.6	0.0453 mg/L	0.00278	0.0453 mg/L	0.00278	6.13%
Cd 214.440	64.0	0.0015 mg/L	0.00004	0.0015 mg/L	0.00004	2.85%
Co 228.616	13.7	0.0005 mg/L	0.00031	0.0005 mg/L	0.00031	58.20%
Cr 267.716	15.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	6.39%
Cu 324.752	94.5	0.0003 mg/L	0.00024	0.0003 mg/L	0.00024	77.63%
Fe 238.204	36.1	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.85%
Fe 273.955	9.2	0.0005 mg/L	0.00065	0.0005 mg/L	0.00065	121.81%
K 766.490	158.4	0.0563 mg/L	0.00948	0.0563 mg/L	0.00948	16.85%
Mg 279.077	19.3	0.0828 mg/L	0.00585	0.0828 mg/L	0.00585	7.06%
Mn 257.610	79.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.15%
Mo 202.031	7.8	0.0017 mg/L	0.00040	0.0017 mg/L	0.00040	23.90%
QC value less than the lower limit for Mo 202.031 Recovery = 0.17%						
Na 589.592	-1.7	-0.0003 mg/L	0.02340	-0.0003 mg/L	0.02340	>999.9%
Na 330.237	1.7	0.2224 mg/L	0.60320	0.2224 mg/L	0.60320	271.20%
Ni 231.604	6.8	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	53.78%
Pb 220.353	21.4	0.0010 mg/L	0.00095	0.0010 mg/L	0.00095	90.61%
Sb 206.836	9.0	0.0081 mg/L	0.00127	0.0081 mg/L	0.00127	15.66%
QC value less than the lower limit for Sb 206.836 Recovery = 0.81%						
Se 196.026	-114.6	-0.0146 mg/L	0.01037	-0.0146 mg/L	0.01037	71.25%
Sn 189.927	5.6	0.0018 mg/L	0.00100	0.0018 mg/L	0.00100	55.42%
Sr 407.771	83.0	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	68.93%
Sr 421.552	-6.6	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	396.36%
Ti 334.940	138.2	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	37.22%
Tl 190.801	5.3	0.0010 mg/L	0.00356	0.0010 mg/L	0.00356	371.58%
V 290.880	70.9	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.02%
W 207.912	4.5	0.0018 mg/L	0.00040	0.0018 mg/L	0.00040	21.81%
Y 371.029	1526.8				93.07	6.10%
Zn 206.200	7.3	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	30.43%
P 213.617	6.6	0.0049 mg/L	0.00278	0.0049 mg/L	0.00278	56.12%
Si 251.611	-149.2	-0.0037 mg/L	0.00012	-0.0037 mg/L	0.00012	3.15%
Li 670.784	-16.6	-0.0002 mg/L	0.00349	-0.0002 mg/L	0.00349	>999.9%
Li 610.362	3.5	0.0005 mg/L	0.01478	0.0005 mg/L	0.01478	>999.9%
S 181.975	-6.8	-0.0277 mg/L	0.01447	-0.0277 mg/L	0.01447	52.29%
QC Failed. Continue with analysis.						

ALAB: 00107

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Analysis Begun

Start Time: 10/17/2012 10:35:35 AM Plasma On Time: 10/17/2012 7:49:05 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 30

Sample ID: 0.5 ppm CAM(daily)

Analyst: nina

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 10/17/2012 10:35:35 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 0.5 ppm CAM(daily)							
Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Ag 328.068	34714.7	0.2657 mg/L	0.00017	0.2657 mg/L	0.00017	0.06%	
Al 308.215	17908.1	0.5168 mg/L	0.00288	0.5168 mg/L	0.00288	0.56%	
As 188.979	2913.5	0.5186 mg/L	0.00327	0.5186 mg/L	0.00327	0.63%	
B 249.677	50767.4	0.5672 mg/L	0.00025	0.5672 mg/L	0.00025	0.04%	
Ba 233.527	56142.2	0.5440 mg/L	0.00002	0.5440 mg/L	0.00002	0.00%	
Be 313.107	1110629.7	0.4834 mg/L	0.01059	0.4834 mg/L	0.01059	2.19%	
Bi 223.061	-35.1	-0.0157 mg/L	0.00260	-0.0157 mg/L	0.00260	16.58%	
Bi 190.171	9.5	0.0115 mg/L	0.00243	0.0115 mg/L	0.00243	21.15%	
Ca 315.887	1124.5	0.5160 mg/L	0.00740	0.5160 mg/L	0.00740	1.43%	
Ca 317.933	1333.3	0.5229 mg/L	0.00904	0.5229 mg/L	0.00904	1.73%	
Cd 214.440	22508.9	0.5163 mg/L	0.00323	0.5163 mg/L	0.00323	0.63%	
Co 228.616	13532.2	0.5167 mg/L	0.00459	0.5167 mg/L	0.00459	0.89%	
Cr 267.716	20418.5	0.5303 mg/L	0.00410	0.5303 mg/L	0.00410	0.77%	
Cu 324.752	158852.1	0.5194 mg/L	0.00019	0.5194 mg/L	0.00019	0.04%	
Fe 238.204	21248.5	0.5381 mg/L	0.00030	0.5381 mg/L	0.00030	0.06%	
Fe 273.955	8983.6	0.5226 mg/L	0.00635	0.5226 mg/L	0.00635	1.22%	
K 766.490	13772.1	4.893 mg/L	0.1033	4.893 mg/L	0.1033	2.11%	
Mg 279.077	134.7	0.5785 mg/L	0.03680	0.5785 mg/L	0.03680	6.36%	
Mn 257.610	229503.5	0.5234 mg/L	0.00973	0.5234 mg/L	0.00973	1.86%	
Mo 202.031	2119.7	0.4603 mg/L	0.00010	0.4603 mg/L	0.00010	0.02%	
Na 589.592	3163.8	0.4894 mg/L	0.02015	0.4894 mg/L	0.02015	4.12%	
Na 330.237	-12.2	-1.565 mg/L	0.0903	-1.565 mg/L	0.0903	5.77%	
Ni 231.604	9973.5	0.5273 mg/L	0.00085	0.5273 mg/L	0.00085	0.16%	
Pb 220.353	10458.8	0.5124 mg/L	0.00512	0.5124 mg/L	0.00512	1.00%	
Sb 206.836	546.9	0.4905 mg/L	0.00999	0.4905 mg/L	0.00999	2.04%	
Se 196.026	3882.7	0.4935 mg/L	0.00776	0.4935 mg/L	0.00776	1.57%	
Sn 189.927	-5.6	-0.0018 mg/L	0.00055	-0.0018 mg/L	0.00055	30.51%	
Sr 407.771	222386.2	0.5258 mg/L	0.02296	0.5258 mg/L	0.02296	4.37%	
Sr 421.552	125181.4	0.5285 mg/L	0.02081	0.5285 mg/L	0.02081	3.94%	
Ti 334.940	199157.4	0.5240 mg/L	0.01057	0.5240 mg/L	0.01057	2.02%	
Tl 190.801	3059.5	0.5519 mg/L	0.00554	0.5519 mg/L	0.00554	1.00%	
V 290.880	79687.8	0.5036 mg/L	0.00014	0.5036 mg/L	0.00014	0.03%	
W 207.912	12.9	0.0052 mg/L	0.00273	0.0052 mg/L	0.00273	52.99%	
Y 371.029	1520.9				11.56	0.76%	
Zn 206.200	7595.8	0.5097 mg/L	0.00656	0.5097 mg/L	0.00656	1.29%	
P 213.617	-914.4	-0.6838 mg/L	0.00489	-0.6838 mg/L	0.00489	0.72%	
Si 251.611	20297.9	0.5011 mg/L	0.01390	0.5011 mg/L	0.01390	2.77%	
Li 670.784	32175.9	0.4661 mg/L	0.01474	0.4661 mg/L	0.01474	3.16%	
Li 610.362	4075.9	0.5797 mg/L	0.20055	0.5797 mg/L	0.20055	34.59%	
S 181.975	-3.0	-0.0122 mg/L	0.01155	-0.0122 mg/L	0.01155	94.27%	

ALAB: 00108

Sequence No.: 31
 Sample ID: CCB(daily)
 Analyst: nina
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 10/17/2012 10:38:12 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: CCB(daily)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Ag 328.068	4799.7	0.0367 mg/L		0.00359	0.0367 mg/L		0.00359	9.79%
Al 308.215	18.6	0.0005 mg/L		0.00062	0.0005 mg/L		0.00062	116.33%
As 188.979	-5.0	-0.0009 mg/L		0.00049	-0.0009 mg/L		0.00049	54.44%
B 249.677	6468.5	0.0723 mg/L		0.00205	0.0723 mg/L		0.00205	2.84%
Ba 233.527	53.4	0.0005 mg/L		0.00005	0.0005 mg/L		0.00005	8.84%
Be 313.107	429.3	0.0002 mg/L		0.00004	0.0002 mg/L		0.00004	23.93%
Bi 223.061	-3.3	-0.0015 mg/L		0.00061	-0.0015 mg/L		0.00061	41.30%
Bi 190.171	7.8	0.0095 mg/L		0.01024	0.0095 mg/L		0.01024	108.07%
Ca 315.887	-3.3	-0.0015 mg/L		0.00568	-0.0015 mg/L		0.00568	379.45%
Ca 317.933	14.4	0.0056 mg/L		0.00258	0.0056 mg/L		0.00258	45.68%
Cd 214.440	34.2	0.0008 mg/L		0.00005	0.0008 mg/L		0.00005	6.07%
Co 228.616	4.9	0.0002 mg/L		0.00010	0.0002 mg/L		0.00010	55.41%
Cr 267.716	10.4	0.0003 mg/L		0.00002	0.0003 mg/L		0.00002	6.89%
Cu 324.752	207.6	0.0007 mg/L		0.00009	0.0007 mg/L		0.00009	13.18%
Fe 238.204	87.5	0.0022 mg/L		0.00026	0.0022 mg/L		0.00026	11.56%
Fe 273.955	27.8	0.0016 mg/L		0.00033	0.0016 mg/L		0.00033	20.48%
K 766.490	-246.5	-0.0876 mg/L		0.04660	-0.0876 mg/L		0.04660	53.21%
Mg 279.077	6.6	0.0282 mg/L		0.00774	0.0282 mg/L		0.00774	27.49%
Mn 257.610	118.8	0.0003 mg/L		0.00002	0.0003 mg/L		0.00002	8.11%
Mo 202.031	12.9	0.0028 mg/L		0.00073	0.0028 mg/L		0.00073	26.02%
Na 589.592	-347.2	-0.0537 mg/L		0.02200	-0.0537 mg/L		0.02200	40.96%
Na 330.237	3.3	0.4195 mg/L		0.71473	0.4195 mg/L		0.71473	170.37%
Ni 231.604	2.8	0.0002 mg/L		0.00003	0.0002 mg/L		0.00003	19.87%
Pb 220.353	75.1	0.0037 mg/L		0.00076	0.0037 mg/L		0.00076	20.68%
Sb 206.836	26.5	0.0238 mg/L		0.00509	0.0238 mg/L		0.00509	21.39%
Se 196.026	38.6	0.0049 mg/L		0.00684	0.0049 mg/L		0.00684	139.63%
Sn 189.927	-0.8	-0.0003 mg/L		0.00075	-0.0003 mg/L		0.00075	277.12%
Sr 407.771	215.1	0.0005 mg/L		0.00023	0.0005 mg/L		0.00023	45.05%
Sr 421.552	102.3	0.0004 mg/L		0.00008	0.0004 mg/L		0.00008	17.59%
Ti 334.940	288.5	0.0008 mg/L		0.00021	0.0008 mg/L		0.00021	27.35%
Tl 190.801	-2.4	-0.0004 mg/L		0.00748	-0.0004 mg/L		0.00748	>999.9%
V 290.880	174.7	0.0011 mg/L		0.00079	0.0011 mg/L		0.00079	71.49%
W 207.912	2.8	0.0011 mg/L		0.00059	0.0011 mg/L		0.00059	52.63%
Y 371.029	1675.8						109.65	6.54%
Zn 206.200	9.7	0.0007 mg/L		0.00007	0.0007 mg/L		0.00007	10.07%
P 213.617	9.0	0.0067 mg/L		0.00167	0.0067 mg/L		0.00167	24.88%
Si 251.611	-126.6	-0.0031 mg/L		0.00030	-0.0031 mg/L		0.00030	9.67%
Li 670.784	-230.8	-0.0033 mg/L		0.00433	-0.0033 mg/L		0.00433	129.44%
Li 610.362	-138.6	-0.0197 mg/L		0.00762	-0.0197 mg/L		0.00762	38.65%
S 181.975	-7.8	-0.0318 mg/L		0.01376	-0.0318 mg/L		0.01376	43.33%

ALAB: 00109

=====
Analysis Begun

Start Time: 10/17/2012 12:15:41 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 10/17/2012 12:15:41 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
Ag 328.068	669.3	11.67	1.74%	[0.00] mg/L
Al 308.215	2798.0	83.98	3.00%	[0.00] mg/L
As 188.979	24.7	4.39	17.73%	[0.00] mg/L
B 249.677	5923.2	170.51	2.88%	[0.00] mg/L
Ba 233.527	-67.8	8.88	13.09%	[0.00] mg/L
Be 313.107	-3419.2	32.32	0.95%	[0.00] mg/L
Bi 223.061	-66.2	3.73	5.63%	[0.00] mg/L
Bi 190.171	15.5	5.44	35.18%	[0.00] mg/L
Ca 315.887	17.3	9.25	53.59%	[0.00] mg/L
Ca 317.933	120.2	0.82	0.69%	[0.00] mg/L
Cd 214.440	43.8	0.49	1.13%	[0.00] mg/L
Co 228.616	-38.8	8.25	21.26%	[0.00] mg/L
Cr 267.716	-70.7	2.66	3.76%	[0.00] mg/L
Cu 324.752	2135.6	60.12	2.82%	[0.00] mg/L
Fe 238.204	121.8	7.23	5.94%	[0.00] mg/L
Fe 273.955	-448.1	6.26	1.40%	[0.00] mg/L
K 766.490	-775.4	222.66	28.72%	[0.00] mg/L
Mg 279.077	-41.3	0.25	0.61%	[0.00] mg/L
Mn 257.610	366.4	10.25	2.80%	[0.00] mg/L
Mo 202.031	0.5	0.06	12.66%	[0.00] mg/L
Na 589.592	221.4	163.51	73.85%	[0.00] mg/L
Na 330.237	34.2	6.46	18.86%	[0.00] mg/L
Ni 231.604	2.1	1.56	75.75%	[0.00] mg/L
Pb 220.353	-117.2	19.04	16.25%	[0.00] mg/L
Sb 206.836	0.5	7.86	>999.9%	[0.00] mg/L
Se 196.026	86.6	67.82	78.30%	[0.00] mg/L
Sn 189.927	-8.6	1.71	20.02%	[0.00] mg/L
Sr 407.771	24.6	32.38	131.54%	[0.00] mg/L
Sr 421.552	153.5	69.86	45.50%	[0.00] mg/L
Ti 334.940	-969.0	33.05	3.41%	[0.00] mg/L
Tl 190.801	16.5	21.69	131.38%	[0.00] mg/L
V 290.880	3597.1	21.91	0.61%	[0.00] mg/L
W 207.912	22.6	3.67	16.24%	[0.00] mg/L
Zn 206.200	9.1	0.96	10.60%	[0.00] mg/L
P 213.617	-7.1	5.29	74.60%	[0.00] mg/L
Si 251.611	190.1	14.26	7.50%	[0.00] mg/L
Li 670.784	-250.2	20.46	8.18%	[0.00] mg/L
Li 610.362	-3302.0	104.01	3.15%	[0.00] mg/L
S 181.975	2.1	7.75	371.68%	[0.00] mg/L

ALAB: 00110

Sequence No.: 2

Sample ID: ICP STD1-0.05PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 10/17/2012 12:18:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD1-0.05PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	1766.3	68.74	3.89%	[0.05]	mg/L
As 188.979	285.3	1.57	0.55%	[0.05]	mg/L
B 249.677	6247.8	32.98	0.53%	[0.05]	mg/L
Ba 233.527	5583.5	49.43	0.89%	[0.05]	mg/L
Be 313.107	109008.1	59.76	0.05%	[0.05]	mg/L
Cd 214.440	2478.6	11.63	0.47%	[0.05]	mg/L
Co 228.616	1399.2	7.93	0.57%	[0.05]	mg/L
Cr 267.716	2052.2	7.26	0.35%	[0.05]	mg/L
Cu 324.752	15474.2	50.24	0.32%	[0.05]	mg/L
Fe 238.204	2191.7	4.02	0.18%	[0.05]	mg/L
Fe 273.955	1020.3	134.05	13.14%	[0.05]	mg/L
Mn 257.610	25052.4	94.52	0.38%	[0.05]	mg/L
Mo 202.031	231.1	0.17	0.07%	[0.05]	mg/L
Ni 231.604	1015.4	5.04	0.50%	[0.05]	mg/L
Pb 220.353	1138.6	22.99	2.02%	[0.05]	mg/L
Sb 206.836	111.0	6.87	6.19%	[0.05]	mg/L
Se 196.026	298.6	35.75	11.97%	[0.05]	mg/L
Ti 334.940	18963.2	192.81	1.02%	[0.05]	mg/L
Tl 190.801	326.4	12.75	3.91%	[0.05]	mg/L
V 290.880	7974.1	52.25	0.66%	[0.05]	mg/L
Zn 206.200	905.9	11.47	1.27%	[0.05]	mg/L

ALAB: 00111

CONFIDENTIAL

LMC-PET-00001725

Sequence No.: 3

Sample ID: ICP STD2-1PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/17/2012 12:20:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD2-1PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Al 308.215	36708.7	203.50	0.55%	[1.00]	mg/L
As 188.979	5719.9	39.17	0.68%	[1.00]	mg/L
B 249.677	90322.5	56.88	0.06%	[1.00]	mg/L
Ba 233.527	111132.9	1366.57	1.23%	[1.00]	mg/L
Be 313.107	2213382.5	101719.91	4.60%	[1.00]	mg/L
Cd 214.440	48803.5	584.18	1.20%	[1.00]	mg/L
Co 228.616	27214.3	18.97	0.07%	[1.00]	mg/L
Cr 267.716	40170.8	163.22	0.41%	[1.00]	mg/L
Cu 324.752	305177.7	816.33	0.27%	[1.00]	mg/L
Fe 238.204	42341.2	60.96	0.14%	[1.00]	mg/L
Fe 273.955	17770.3	407.45	2.29%	[1.00]	mg/L
Mn 257.610	489613.3	26307.78	5.37%	[1.00]	mg/L
Mo 202.031	4474.9	20.01	0.45%	[1.00]	mg/L
Ni 231.604	20264.6	175.02	0.86%	[1.00]	mg/L
Pb 220.353	21081.0	380.86	1.81%	[1.00]	mg/L
Sb 206.836	1095.6	14.61	1.33%	[1.00]	mg/L
Se 196.026	8089.2	14.98	0.19%	[1.00]	mg/L
Sr 407.771	430156.2	2397.81	0.56%	[1.00]	mg/L
Sr 421.552	240414.4	558.01	0.23%	[1.00]	mg/L
Ti 334.940	380278.0	17559.27	4.62%	[1.00]	mg/L
Tl 190.801	6278.4	55.53	0.88%	[1.00]	mg/L
V 290.880	154015.8	1737.06	1.13%	[1.00]	mg/L
Zn 206.200	15713.3	459.29	2.92%	[1.00]	mg/L

ALAB: 00112

Sequence No.: 4

Sample ID: ICP STD3-20PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 10/17/2012 12:22:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD3-20PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Al 308.215	685677.1	3005.46	0.44%	[20.00]	mg/L
As 188.979	110735.3	583.23	0.53%	[20.00]	mg/L
B 249.677	1767999.8	80262.25	4.54%	[20.00]	mg/L
Ba 233.527	2059742.8	63619.69	3.09%	[20.00]	mg/L
Be 313.107	Saturated2				
Bi 223.061	21721.0	78.44	0.36%	[10]	mg/L
Bi 190.171	8092.9	42.62	0.53%	[10]	mg/L
Ca 315.887	21747.8	142.97	0.66%	[10.00]	mg/L
Ca 317.933	25491.9	159.36	0.63%	[10.00]	mg/L
Cd 214.440	886303.0	26181.96	2.95%	[20.00]	mg/L
Co 228.616	510573.1	9483.68	1.86%	[20.00]	mg/L
Cr 267.716	771980.1	25246.77	3.27%	[20.00]	mg/L
Cu 324.752	5957156.8	216731.82	3.64%	[20.00]	mg/L
Fe 238.204	788171.7	27817.23	3.53%	[20.00]	mg/L
Fe 273.955	332940.2	5114.72	1.54%	[20.00]	mg/L
K 766.490	28445.2	425.29	1.50%	[10.00]	mg/L
Mg 279.077	2386.1	10.10	0.42%	[10.00]	mg/L
Mn 257.610	8589517.6	63859.20	0.74%	[20.00]	mg/L
Mo 202.031	89202.8	1147.73	1.29%	[20.00]	mg/L
Na 589.592	66984.6	1317.54	1.97%	[10.00]	mg/L
Ni 231.604	374739.1	6694.18	1.79%	[20.00]	mg/L
Pb 220.353	393157.9	7721.45	1.96%	[20.00]	mg/L
Se 196.026	156659.9	835.56	0.53%	[20.00]	mg/L
Sn 189.927	30767.2	80.02	0.26%	[10.00]	mg/L
Ti 334.940	7361543.4	80075.20	1.09%	[20.00]	mg/L
Tl 190.801	110548.1	541.54	0.49%	[20.00]	mg/L
V 290.880	3089760.6	85755.09	2.78%	[20.00]	mg/L
W 207.912	12384.2	0.91	0.01%	[5]	mg/L
Zn 206.200	294296.0	7905.17	2.69%	[20.00]	mg/L
Li 670.784	131197.3	1989.07	1.52%	[2.0]	mg/L
Li 610.362	13810.7	469.47	3.40%	[2.0]	mg/L
S 181.975	2434.3	16.47	0.68%	[10.00]	mg/L

ALAB: 00113

Sequence No.: 5

Sample ID: ICP STD4-2PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 10/17/2012 12:25:20 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD4-2PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Ag 328.068	259689.3	15891.87	6.12%	[2.00] mg/L

ALAB: 00114

Sequence No.: 6
Sample ID: ICP STD5-100PPM(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/17/2012 12:27:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP STD5-100PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ca 315.887	202527.0	5956.02	2.94%	[100.00]	mg/L
Ca 317.933	239440.8	4475.55	1.87%	[100.00]	mg/L
K 766.490	263921.1	6122.09	2.32%	[100.00]	mg/L
Mg 279.077	22363.6	101.80	0.46%	[100.00]	mg/L
Na 589.592	593286.9	14853.78	2.50%	[100.00]	mg/L
Na 330.237	723.2	1.45	0.20%	[100.00]	mg/L

Sequence No.: 7

Sample ID: ICP STD6-10PPM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 10/17/2012 12:29:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP STD6-10PPM(7-6-12)

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
P 213.617	13594.3	404.21	2.97%	[10.00] mg/L	
Si 251.611	392259.8	12732.95	3.25%	[10.00] mg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	129800	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	34290	0.00000	0.999994	
As 188.979	3	Lin Thru 0	0.0	5537	0.00000	0.999999	
B 249.677	3	Lin Thru 0	0.0	88410	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	103000	0.00000	0.999992	
Be 313.107	2	Lin Thru 0	0.0	2213000	0.00000	1.000000	
Bi 223.061	1	Lin Thru 0	0.0	2172	0.00000	1.000000	
Bi 190.171	1	Lin Thru 0	0.0	809.3	0.00000	1.000000	
Ca 315.887	2	Lin Thru 0	0.0	2027	0.00000	0.999973	
Ca 317.933	2	Lin Thru 0	0.0	2396	0.00000	0.999980	
Cd 214.440	3	Lin Thru 0	0.0	44330	0.00000	0.999987	
Co 228.616	3	Lin Thru 0	0.0	25530	0.00000	0.999995	
Cr 267.716	3	Lin Thru 0	0.0	38600	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	297900	0.00000	0.999999	
Fe 238.204	3	Lin Thru 0	0.0	39420	0.00000	0.999993	
Fe 273.955	3	Lin Thru 0	0.0	16650	0.00000	0.999994	
K 766.490	2	Lin Thru 0	0.0	2641	0.00000	0.999970	
Mg 279.077	2	Lin Thru 0	0.0	223.8	0.00000	0.999978	
Mn 257.610	3	Lin Thru 0	0.0	429600	0.00000	0.999976	
Mo 202.031	3	Lin Thru 0	0.0	4460	0.00000	1.000000	
Na 589.592	2	Lin Thru 0	0.0	5940	0.00000	0.999919	
Na 330.237	1	Lin Thru 0	0.0	7.232	0.00000	1.000000	
Ni 231.604	3	Lin Thru 0	0.0	18740	0.00000	0.999992	
Pb 220.353	3	Lin Thru 0	0.0	19660	0.00000	0.999993	
Sb 206.836	2	Lin Thru 0	0.0	1098	0.00000	0.998701	
Se 196.026	3	Lin Thru 0	0.0	7834	0.00000	0.999998	
Sn 189.927	1	Lin Thru 0	0.0	3077	0.00000	1.000000	
Sr 407.771	1	Lin Thru 0	0.0	430200	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	240400	0.00000	1.000000	
Ti 334.940	3	Lin Thru 0	0.0	368100	0.00000	0.999999	
Tl 190.801	3	Lin Thru 0	0.0	5529	0.00000	0.999977	
V 290.880	3	Lin Thru 0	0.0	154500	0.00000	1.000000	
W 207.912	1	Lin Thru 0	0.0	2477	0.00000	1.000000	
Zn 206.200	3	Lin Thru 0	0.0	14720	0.00000	0.999994	
P 213.617	1	Lin Thru 0	0.0	1359	0.00000	1.000000	
Si 251.611	1	Lin Thru 0	0.0	39230	0.00000	1.000000	
Li 670.784	1	Lin Thru 0	0.0	65600	0.00000	1.000000	
Li 610.362	1	Lin Thru 0	0.0	6905	0.00000	1.000000	
S 181.975	1	Lin Thru 0	0.0	243.4	0.00000	1.000000	

ALAB: 00115

Analytical Sequence

Method: 10-02-12

Seq.	Loc.	ID	Status
1	1	Calib Blank 1	Applied
2	2	ICP STD1-0.05PPM(7-6-12)	Applied
3	3	ICP STD2-1PPM(7-6-12)	Applied
4	4	ICP STD3-20PPM(7-6-12)	Applied
5	5	ICP STD4-2PPM(7-6-12)	Applied
6	9	ICP STD5-100PPM(7-6-12)	Applied
7	10	ICP STD6-10PPM(7-6-12)	Applied

ALAB: 00116

Start Time: 10/17/2012 12:34:57 PM Plasma On Time: 10/17/2012 11:56:53 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8	Autosampler Location: 7
Sample ID: ICP_ICV(7-6-12)	Date Collected: 10/17/2012 12:34:57 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Mean Data: ICP_ICV(7-6-12)									
			Mean Corrected		Calib		Sample		
Analyte			Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD	
Ag	328.068		65463.5	0.5042 mg/L	0.00877	0.5042 mg/L	0.00877	1.74%	
	QC value within limits for Ag	328.068		Recovery = 100.83%					
Al	308.215		36124.9	1.054 mg/L	0.0159	1.054 mg/L	0.0159	1.50%	
	QC value within limits for Al	308.215		Recovery = 105.35%					
As	188.979		5423.8	0.9795 mg/L	0.00415	0.9795 mg/L	0.00415	0.42%	
	QC value within limits for As	188.979		Recovery = 97.95%					
B	249.677		87152.2	0.9858 mg/L	0.02102	0.9858 mg/L	0.02102	2.13%	
	QC value within limits for B	249.677		Recovery = 98.58%					
Ba	233.527		110275.5	1.071 mg/L	0.0217	1.071 mg/L	0.0217	2.03%	
	QC value within limits for Ba	233.527		Recovery = 107.06%					
Be	313.107		2181482.7	0.9856 mg/L	0.07949	0.9856 mg/L	0.07949	8.07%	
	QC value within limits for Be	313.107		Recovery = 98.56%					
Bi	223.061		-57.7	-0.0266 mg/L	0.00087	-0.0266 mg/L	0.00087	3.29%	
Bi	190.171		4.9	0.0060 mg/L	0.00777	0.0060 mg/L	0.00777	129.48%	
Ca	315.887		2197.7	1.084 mg/L	0.0043	1.084 mg/L	0.0043	0.39%	
Ca	317.933		2593.7	1.083 mg/L	0.0034	1.083 mg/L	0.0034	0.31%	
Cd	214.440		44590.8	1.006 mg/L	0.0264	1.006 mg/L	0.0264	2.62%	
	QC value within limits for Cd	214.440		Recovery = 100.60%					
Co	228.616		26422.3	1.035 mg/L	0.0271	1.035 mg/L	0.0271	2.62%	
	QC value within limits for Co	228.616		Recovery = 103.48%					
Cr	267.716		40980.8	1.062 mg/L	0.0257	1.062 mg/L	0.0257	2.42%	
	QC value within limits for Cr	267.716		Recovery = 106.16%					
Cu	324.752		290447.4	0.9751 mg/L	0.08825	0.9751 mg/L	0.08825	9.05%	
	QC value within limits for Cu	324.752		Recovery = 97.51%					
Fe	238.204		41688.7	1.058 mg/L	0.0251	1.058 mg/L	0.0251	2.38%	
	QC value within limits for Fe	238.204		Recovery = 105.77%					
Fe	273.955		17373.4	1.043 mg/L	0.0143	1.043 mg/L	0.0143	1.37%	
	QC value within limits for Fe	273.955		Recovery = 104.35%					
K	766.490		27439.6	10.39 mg/L	0.975	10.39 mg/L	0.975	9.39%	
Mg	279.077		243.4	1.088 mg/L	0.0090	1.088 mg/L	0.0090	0.83%	
Mn	257.610		436865.1	1.017 mg/L	0.0783	1.017 mg/L	0.0783	7.70%	
	QC value within limits for Mn	257.610		Recovery = 101.68%					
Mo	202.031		4451.4	0.9980 mg/L	0.00137	0.9980 mg/L	0.00137	0.14%	
	QC value within limits for Mo	202.031		Recovery = 99.80%					
Na	589.592		6325.6	1.065 mg/L	0.0990	1.065 mg/L	0.0990	9.30%	
Na	330.237		-22.1	-3.057 mg/L	0.5386	-3.057 mg/L	0.5386	17.62%	
Ni	231.604		19600.6	1.046 mg/L	0.0226	1.046 mg/L	0.0226	2.16%	
	QC value within limits for Ni	231.604		Recovery = 104.59%					
Pb	220.353		20541.8	1.045 mg/L	0.0009	1.045 mg/L	0.0009	0.09%	
	QC value within limits for Pb	220.353		Recovery = 104.48%					
Sb	206.836		1044.4	0.9508 mg/L	0.00087	0.9508 mg/L	0.00087	0.09%	
	QC value within limits for Sb	206.836		Recovery = 95.08%					
Se	196.026		7738.5	0.9879 mg/L	0.00216	0.9879 mg/L	0.00216	0.22%	
	QC value within limits for Se	196.026		Recovery = 98.79%					
Sr	189.927		-10.2	-0.0033 mg/L	0.00000	-0.0033 mg/L	0.00000	0.04%	
Sr	407.771		397059.2	0.9231 mg/L	0.07827	0.9231 mg/L	0.07827	8.48%	
	QC value within limits for Sr	407.771		Recovery = 92.31%					
Sr	421.552		222613.0	0.9260 mg/L	0.07660	0.9260 mg/L	0.07660	8.27%	
	QC value within limits for Sr	421.552		Recovery = 92.60%					
Ti	334.940		373826.9	1.016 mg/L	0.0797	1.016 mg/L	0.0797	7.85%	
	QC value within limits for Ti	334.940		Recovery = 101.55%					
					0.0050	1.041 mg/L	0.0050	0.48%	

W 207.912	32.6	0.0132 mg/L	0.00007	0.0132 mg/L	0.00007	0.50%
Y 371.029	1722.3				79.86	4.64%
Zn 206.200	15178.0	1.031 mg/L	0.0227	1.031 mg/L	0.0227	2.20%
QC value within limits for Zn 206.200 Recovery = 103.13%						
P 213.617	-1917.2	-1.410 mg/L	0.0652	-1.410 mg/L	0.0652	4.62%
Si 251.611	39526.6	1.008 mg/L	0.0152	1.008 mg/L	0.0152	1.50%
QC value within limits for Si 251.611 Recovery = 100.77%						
Li 670.784	61865.3	0.9431 mg/L	0.06770	0.9431 mg/L	0.06770	7.18%
Li 610.362	6083.7	0.8810 mg/L	0.14183	0.8810 mg/L	0.14183	16.10%
S 181.975	4.8	0.0198 mg/L	0.01106	0.0198 mg/L	0.01106	55.84%

All analyte(s) passed QC.

ALAB: 00118

Sequence No.: 9
 Sample ID: ICP_ICB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 12:37:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2414.4	0.0186 mg/L	0.00021	0.0186 mg/L	0.00021	1.15%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated						
Al 308.215	277.8	0.0081 mg/L	0.00156	0.0081 mg/L	0.00156	19.30%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979	13.6	0.0025 mg/L	0.00178	0.0025 mg/L	0.00178	72.23%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677	1436.9	0.0163 mg/L	0.00077	0.0163 mg/L	0.00077	4.73%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated						
Ba 233.527	36.4	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	11.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107	323.7	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	30.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Bi 223.061	17.8	0.0082 mg/L	0.00656	0.0082 mg/L	0.00656	80.09%
QC value within limits for Bi 223.061 Recovery = Not calculated						
Bi 190.171	-2.6	-0.0032 mg/L	0.00160	-0.0032 mg/L	0.00160	50.25%
QC value within limits for Bi 190.171 Recovery = Not calculated						
Ca 315.887	14.8	0.0073 mg/L	0.00335	0.0073 mg/L	0.00335	45.90%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933	28.9	0.0121 mg/L	0.00204	0.0121 mg/L	0.00204	16.92%
QC value greater than the upper limit for Ca 317.933 Recovery = Not calculated						
Cd 214.440	25.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.03%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Co 228.616	2.8	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	3.08%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716	20.0	0.0005 mg/L	0.00020	0.0005 mg/L	0.00020	38.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752	166.5	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	4.53%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204	68.2	0.0017 mg/L	0.00013	0.0017 mg/L	0.00013	7.69%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 273.955	86.9	0.0052 mg/L	0.00010	0.0052 mg/L	0.00010	1.91%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490	-110.4	-0.0418 mg/L	0.06583	-0.0418 mg/L	0.06583	157.54%
QC value less than the lower limit for K 766.490 Recovery = Not calculated						
Mg 279.077	2.6	0.0118 mg/L	0.02472	0.0118 mg/L	0.02472	209.78%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610	197.8	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.27%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031	11.1	0.0025 mg/L	0.00070	0.0025 mg/L	0.00070	28.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	169.8	0.0286 mg/L	0.04612	0.0286 mg/L	0.04612	161.35%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Na 330.237	-3.7	-0.5136 mg/L	0.19393	-0.5136 mg/L	0.19393	37.76%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated						
Ni 231.604	-1.7	-0.0001 mg/L	0.00029	-0.0001 mg/L	0.00029	319.21%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353	36.5	0.0019 mg/L	0.00074	0.0019 mg/L	0.00074	39.97%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836	10.5	0.0095 mg/L	0.00074	0.0095 mg/L	0.00074	7.72%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026	-15.2	-0.0019 mg/L	0.01213	-0.0019 mg/L	0.01213	626.17%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927	-4.9	-0.0016 mg/L	0.00157	-0.0016 mg/L	0.00157	99.24%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771	151.9	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	57.48%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552	46.1	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	42.89%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940	-213.9	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	25.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801	6.2	0.0011 mg/L	0.00012	0.0011 mg/L	0.00012	10.31%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 290.880	196.9	0.0013 mg/L	0.00016	0.0013 mg/L	0.00016	12.52%

Zn 206.200	6.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.03%
QC value within limits for Zn 206.200 Recovery = Not calculated						
P 213.617	11.9	0.0087 mg/L	0.00033	0.0087 mg/L	0.00033	3.77%
Si 251.611	112.3	0.0029 mg/L	0.00019	0.0029 mg/L	0.00019	6.58%
Li 670.784	115.2	0.0018 mg/L	0.00687	0.0018 mg/L	0.00687	391.47%
Li 610.362	-104.1	-0.0151 mg/L	0.01447	-0.0151 mg/L	0.01447	95.97%
S 181.975	0.7	0.0028 mg/L	0.01498	0.0028 mg/L	0.01498	537.55%

QC Failed. Continue with analysis.

=====
Analysis Begun

Start Time: 10/17/2012 12:58:54 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 35

Autosampler Location: 7

Sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 12:58:54 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Ag 328.068	65106.0	0.5014 mg/L	0.01294		0.5014 mg/L		0.01294	2.58%
QC value within limits for Ag 328.068 Recovery = 100.28%								
Al 308.215	36056.4	1.052 mg/L	0.0419		1.052 mg/L		0.0419	3.98%
QC value within limits for Al 308.215 Recovery = 105.15%								
As 188.979	5482.9	0.9902 mg/L	0.00574		0.9902 mg/L		0.00574	0.58%
QC value within limits for As 188.979 Recovery = 99.02%								
B 249.677	82509.1	0.9333 mg/L	0.03590		0.9333 mg/L		0.03590	3.85%
QC value within limits for B 249.677 Recovery = 93.33%								
Ba 233.527	109831.9	1.066 mg/L	0.0330		1.066 mg/L		0.0330	3.09%
QC value within limits for Ba 233.527 Recovery = 106.63%								
Be 313.107	2270287.1	1.026 mg/L	0.0217		1.026 mg/L		0.0217	2.12%
QC value within limits for Be 313.107 Recovery = 102.57%								
Bi 223.061	-57.3	-0.0264 mg/L	0.00241		-0.0264 mg/L		0.00241	9.12%
Bi 190.171	5.7	0.0071 mg/L	0.00156		0.0071 mg/L		0.00156	22.07%
Ca 315.887	2307.1	1.138 mg/L	0.0001		1.138 mg/L		0.0001	0.01%
Ca 317.933	2732.7	1.141 mg/L	0.0035		1.141 mg/L		0.0035	0.30%
Cd 214.440	44123.9	0.9954 mg/L	0.03829		0.9954 mg/L		0.03829	3.85%
QC value within limits for Cd 214.440 Recovery = 99.54%								
Co 228.616	26352.0	1.032 mg/L	0.0360		1.032 mg/L		0.0360	3.49%
QC value within limits for Co 228.616 Recovery = 103.21%								
Cr 267.716	40541.5	1.050 mg/L	0.0291		1.050 mg/L		0.0291	2.77%
QC value within limits for Cr 267.716 Recovery = 105.02%								
Cu 324.752	299201.3	1.004 mg/L	0.0344		1.004 mg/L		0.0344	3.43%
QC value within limits for Cu 324.752 Recovery = 100.44%								
Fe 238.204	41675.2	1.057 mg/L	0.0443		1.057 mg/L		0.0443	4.19%
QC value within limits for Fe 238.204 Recovery = 105.73%								
Fe 273.955	17237.6	1.035 mg/L	0.0278		1.035 mg/L		0.0278	2.68%
QC value within limits for Fe 273.955 Recovery = 103.53%								
K 766.490	28617.2	10.83 mg/L	0.153		10.83 mg/L		0.153	1.41%
Mg 279.077	251.8	1.125 mg/L	0.0049		1.125 mg/L		0.0049	0.44%
Mn 257.610	453360.6	1.055 mg/L	0.0280		1.055 mg/L		0.0280	2.65%
QC value within limits for Mn 257.610 Recovery = 105.52%								
Mo 202.031	4560.0	1.022 mg/L	0.0339		1.022 mg/L		0.0339	3.31%
QC value within limits for Mo 202.031 Recovery = 102.24%								
Na 589.592	7114.5	1.198 mg/L	0.0333		1.198 mg/L		0.0333	2.78%
Na 330.237	-23.9	-3.308 mg/L	0.4379		-3.308 mg/L		0.4379	13.24%
Ni 231.604	19546.6	1.043 mg/L	0.0424		1.043 mg/L		0.0424	4.06%
QC value within limits for Ni 231.604 Recovery = 104.30%								
Pb 220.353	20174.4	1.026 mg/L	0.0520		1.026 mg/L		0.0520	5.07%
QC value within limits for Pb 220.353 Recovery = 102.61%								
Sb 206.836	1045.8	0.9521 mg/L	0.00361		0.9521 mg/L		0.00361	0.38%
QC value within limits for Sb 206.836 Recovery = 95.21%								
Se 196.026	7906.0	1.009 mg/L	0.0053		1.009 mg/L		0.0053	0.52%
QC value within limits for Se 196.026 Recovery = 100.92%								
Sn 189.927	-9.9	-0.0032 mg/L	0.00141		-0.0032 mg/L		0.00141	43.69%
Sr 407.771	413225.5	0.9606 mg/L	0.01199		0.9606 mg/L		0.01199	1.25%
QC value within limits for Sr 407.771 Recovery = 96.06%								
Sr 421.552	233075.7	0.9695 mg/L	0.00478		0.9695 mg/L		0.00478	0.49%
QC value within limits for Sr 421.552 Recovery = 96.95%								
Ti 334.940	390240.5	1.060 mg/L	0.0248		1.060 mg/L		0.0248	2.33%
QC value within limits for Ti 334.940 Recovery = 106.01%								
---	5779.0	1.045 mg/L	0.0081		1.045 mg/L		0.0081	0.78%

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W 207.912	19.5	0.0079 mg/L	0.00211	0.0079 mg/L	0.00211	26.85%
Y 371.029	1592.7				17.94	1.13%
Zn 206.200	14999.0	1.019 mg/L	0.0460	1.019 mg/L	0.0460	4.51%
QC value within limits for Zn 206.200 Recovery = 101.91%						
P 213.617	-1875.6	-1.380 mg/L	0.0857	-1.380 mg/L	0.0857	6.21%
Si 251.611	39389.5	1.004 mg/L	0.0321	1.004 mg/L	0.0321	3.20%
QC value within limits for Si 251.611 Recovery = 100.42%						
Li 670.784	66363.6	1.012 mg/L	0.0302	1.012 mg/L	0.0302	2.98%
Li 610.362	7284.4	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%
S 181.975	4.5	0.0184 mg/L	0.00602	0.0184 mg/L	0.00602	32.64%

All analyte(s) passed QC.

ALAB: 00121

User canceled analysis.

=====
Analysis Begun

Start Time: 10/17/2012 1:01:42 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 37

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 1:01:42 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2507.4	0.0193 mg/L	0.00066	0.0193 mg/L	0.00066	3.44%
Al 308.215	216.3	0.0063 mg/L	0.00037	0.0063 mg/L	0.00037	5.81%
As 188.979	22.5	0.0041 mg/L	0.00002	0.0041 mg/L	0.00002	0.39%
B 249.677	-1994.0	-0.0226 mg/L	0.00000	-0.0226 mg/L	0.00000	0.02%
Ba 233.527	72.9	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	12.14%
Be 313.107	1099.7	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	14.81%
Bi 223.061	-2.9	-0.0013 mg/L	0.00222	-0.0013 mg/L	0.00222	165.43%
Bi 190.171	-2.1	-0.0026 mg/L	0.00763	-0.0026 mg/L	0.00763	298.80%
Ca 315.887	28.7	0.0142 mg/L	0.00317	0.0142 mg/L	0.00317	22.34%
Ca 317.933	42.5	0.0177 mg/L	0.00401	0.0177 mg/L	0.00401	22.64%
Cd 214.440	26.6	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.87%
Co 228.616	19.9	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	13.21%
Cr 267.716	28.5	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	4.68%
Cu 324.752	235.1	0.0008 mg/L	0.00022	0.0008 mg/L	0.00022	27.73%
Fe 238.204	90.3	0.0023 mg/L	0.00018	0.0023 mg/L	0.00018	8.01%
Fe 273.955	92.0	0.0055 mg/L	0.00016	0.0055 mg/L	0.00016	2.84%
K 766.490	-154.4	-0.0585 mg/L	0.06209	-0.0585 mg/L	0.06209	106.20%
Mg 279.077	5.7	0.0253 mg/L	0.00075	0.0253 mg/L	0.00075	2.98%
Mn 257.610	336.1	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	3.51%
Mo 202.031	11.8	0.0026 mg/L	0.00073	0.0026 mg/L	0.00073	27.60%
QC value less than the lower limit for Mo 202.031				Recovery = 0.26%		
Na 589.592	249.5	0.0420 mg/L	0.04270	0.0420 mg/L	0.04270	101.67%
Na 330.237	-6.6	-0.9144 mg/L	1.74551	-0.9144 mg/L	1.74551	190.89%
Ni 231.604	2.4	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	27.15%
Pb 220.353	57.4	0.0029 mg/L	0.00060	0.0029 mg/L	0.00060	20.43%
Sb 206.836	2.6	0.0024 mg/L	0.00433	0.0024 mg/L	0.00433	180.88%
QC value less than the lower limit for Sb 206.836				Recovery = 0.24%		
Se 196.026	-29.0	-0.0037 mg/L	0.00632	-0.0037 mg/L	0.00632	170.44%
Sn 189.927	2.0	0.0007 mg/L	0.00052	0.0007 mg/L	0.00052	79.16%
Sr 407.771	359.0	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	25.17%
Sr 421.552	154.1	0.0006 mg/L	0.00057	0.0006 mg/L	0.00057	89.22%
Ti 334.940	85.9	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.99%
Tl 190.801	17.3	0.0031 mg/L	0.00253	0.0031 mg/L	0.00253	80.87%
V 290.880	51.5	0.0003 mg/L	0.00035	0.0003 mg/L	0.00035	104.66%
W 207.912	-4.2	-0.0017 mg/L	0.00051	-0.0017 mg/L	0.00051	30.38%
Y 371.029	1709.5				81.60	4.77%
Zn 206.200	10.6	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.37%
P 213.617	3.6	0.0027 mg/L	0.00032	0.0027 mg/L	0.00032	12.16%
Si 251.611	169.1	0.0043 mg/L	0.00084	0.0043 mg/L	0.00084	19.46%
Li 670.784	440.2	0.0067 mg/L	0.00509	0.0067 mg/L	0.00509	75.86%
Li 610.362	-347.8	-0.0504 mg/L	0.01684	-0.0504 mg/L	0.01684	33.45%
S 181.975	-3.6	-0.0149 mg/L	0.02558	-0.0149 mg/L	0.02558	171.16%

QC Failed. Continue with analysis.

ALAB: 00122

Sequence No.: 48
 Sample ID: ICP_CCV(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 10/17/2012 1:30:19 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	65257.0	0.5026 mg/L	0.00165	0.5026 mg/L	0.00165	0.33%
QC value within limits for Ag		328.068 Recovery = 100.52%				
Al 308.215	35665.9	1.040 mg/L	0.0015	1.040 mg/L	0.0015	0.15%
QC value within limits for Al		308.215 Recovery = 104.01%				
As 188.979	5423.1	0.9794 mg/L	0.00948	0.9794 mg/L	0.00948	0.97%
QC value within limits for As		188.979 Recovery = 97.94%				
B 249.677	79606.2	0.9005 mg/L	0.00687	0.9005 mg/L	0.00687	0.76%
QC value within limits for B		249.677 Recovery = 90.05%				
Ba 233.527	109601.7	1.064 mg/L	0.0064	1.064 mg/L	0.0064	0.60%
QC value within limits for Ba		233.527 Recovery = 106.40%				
Be 313.107	2176666.2	0.9834 mg/L	0.03389	0.9834 mg/L	0.03389	3.45%
QC value within limits for Be		313.107 Recovery = 98.34%				
Bi 223.061	-45.0	-0.0207 mg/L	0.00497	-0.0207 mg/L	0.00497	23.99%
Bi 190.171	5.8	0.0072 mg/L	0.00327	0.0072 mg/L	0.00327	45.51%
Ca 315.887	2401.4	1.185 mg/L	0.0229	1.185 mg/L	0.0229	1.93%
Ca 317.933	2848.8	1.189 mg/L	0.0160	1.189 mg/L	0.0160	1.34%
Cd 214.440	43993.4	0.9925 mg/L	0.01041	0.9925 mg/L	0.01041	1.05%
QC value within limits for Cd		214.440 Recovery = 99.25%				
Co 228.616	25912.6	1.015 mg/L	0.0083	1.015 mg/L	0.0083	0.82%
QC value within limits for Co		228.616 Recovery = 101.49%				
Cr 267.716	40299.4	1.044 mg/L	0.0049	1.044 mg/L	0.0049	0.47%
QC value within limits for Cr		267.716 Recovery = 104.39%				
Cu 324.752	296078.3	0.9940 mg/L	0.00376	0.9940 mg/L	0.00376	0.38%
QC value within limits for Cu		324.752 Recovery = 99.40%				
Fe 238.204	41517.3	1.053 mg/L	0.0038	1.053 mg/L	0.0038	0.36%
QC value within limits for Fe		238.204 Recovery = 105.33%				
Fe 273.955	17052.2	1.024 mg/L	0.0052	1.024 mg/L	0.0052	0.51%
QC value within limits for Fe		273.955 Recovery = 102.42%				
K 766.490	29674.0	11.23 mg/L	0.203	11.23 mg/L	0.203	1.81%
Mg 279.077	261.0	1.166 mg/L	0.0172	1.166 mg/L	0.0172	1.47%
Mn 257.610	430640.0	1.002 mg/L	0.0356	1.002 mg/L	0.0356	3.55%
QC value within limits for Mn		257.610 Recovery = 100.24%				
Mo 202.031	4473.9	1.003 mg/L	0.0007	1.003 mg/L	0.0007	0.07%
QC value within limits for Mo		202.031 Recovery = 100.31%				
Na 589.592	7021.5	1.182 mg/L	0.0575	1.182 mg/L	0.0575	4.86%
Na 330.237	-13.6	-1.885 mg/L	1.7518	-1.885 mg/L	1.7518	92.95%
Ni 231.604	19361.8	1.033 mg/L	0.0022	1.033 mg/L	0.0022	0.21%
QC value within limits for Ni		231.604 Recovery = 103.31%				
Pb 220.353	20445.2	1.040 mg/L	0.0383	1.040 mg/L	0.0383	3.69%
QC value within limits for Pb		220.353 Recovery = 103.99%				
Sb 206.836	1033.7	0.9411 mg/L	0.00776	0.9411 mg/L	0.00776	0.82%
QC value within limits for Sb		206.836 Recovery = 94.11%				
Se 196.026	7917.5	1.011 mg/L	0.0142	1.011 mg/L	0.0142	1.41%
QC value within limits for Se		196.026 Recovery = 101.07%				
Sn 189.927	-9.4	-0.0031 mg/L	0.00020	-0.0031 mg/L	0.00020	6.45%
Sr 407.771	427036.4	0.9927 mg/L	0.01420	0.9927 mg/L	0.01420	1.43%
QC value within limits for Sr		407.771 Recovery = 99.27%				
Sr 421.552	240545.4	1.001 mg/L	0.0011	1.001 mg/L	0.0011	0.11%
QC value within limits for Sr		421.552 Recovery = 100.05%				
Ti 334.940	372014.6	1.011 mg/L	0.0406	1.011 mg/L	0.0406	4.02%
QC value within limits for Ti		334.940 Recovery = 101.06%				
Tl 190.801	5751.2	1.040 mg/L	0.0078	1.040 mg/L	0.0078	0.75%
QC value within limits for Tl		190.801 Recovery = 104.01%				
V 290.880	156198.4	1.011 mg/L	0.0076	1.011 mg/L	0.0076	0.75%
QC value within limits for V		290.880 Recovery = 101.10%				
W 207.912	17.2	0.0070 mg/L	0.00069	0.0070 mg/L	0.00069	9.86%
Y 371.029	1336.0				139.49	10.44%
Zn 206.200	14697.2	0.9986 mg/L	0.00221	0.9986 mg/L	0.00221	0.22%
QC value within limits for Zn		206.200 Recovery = 99.86%				
P 213.617	-1849.1	-1.360 mg/L	0.1221	-1.360 mg/L	0.1221	8.98%
Si 251.611	39014.3	0.9946 mg/L	0.00687	0.9946 mg/L	0.00687	0.69%
QC value within limits for Si		251.611 Recovery = 99.46%				
As 270.784	67805.7	1.034 mg/L	0.0002	1.034 mg/L	0.0002	0.01%

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 1:32:15 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
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Sequence No.: 50

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 1:32:15 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
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Mean Data: ICP_CCB(Daily)

	Mean Corrected	Calib		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ag 328.068	2655.8	0.0205 mg/L	0.00002	0.0205 mg/L	0.00002	0.11%
Al 308.215	50.5	0.0015 mg/L	0.00387	0.0015 mg/L	0.00387	262.82%
As 188.979	10.6	0.0019 mg/L	0.00103	0.0019 mg/L	0.00103	53.79%
B 249.677	-3474.0	-0.0393 mg/L	0.00046	-0.0393 mg/L	0.00046	1.17%
Ba 233.527	115.2	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.04%
Be 313.107	1687.6	0.0008 mg/L	0.00005	0.0008 mg/L	0.00005	5.99%
Bi 223.061	5.8	0.0027 mg/L	0.00201	0.0027 mg/L	0.00201	74.89%
Bi 190.171	-0.7	-0.0009 mg/L	0.00373	-0.0009 mg/L	0.00373	416.10%
Ca 315.887	30.5	0.0151 mg/L	0.00049	0.0151 mg/L	0.00049	3.25%
Ca 317.933	35.5	0.0148 mg/L	0.00104	0.0148 mg/L	0.00104	7.04%
Cd 214.440	39.0	0.0009 mg/L	0.00019	0.0009 mg/L	0.00019	21.46%
Co 228.616	33.4	0.0013 mg/L	0.00028	0.0013 mg/L	0.00028	21.50%
Cr 267.716	42.9	0.0011 mg/L	0.00018	0.0011 mg/L	0.00018	16.23%
Cu 324.752	277.9	0.0009 mg/L	0.00010	0.0009 mg/L	0.00010	10.88%
Fe 238.204	86.5	0.0022 mg/L	0.00029	0.0022 mg/L	0.00029	13.04%
Fe 273.955	101.3	0.0061 mg/L	0.00029	0.0061 mg/L	0.00029	4.80%
K 766.490	239.9	0.0908 mg/L	0.06441	0.0908 mg/L	0.06441	70.92%
Ag 279.077	1.8	0.0080 mg/L	0.00383	0.0080 mg/L	0.00383	48.13%
Mn 257.610	475.8	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.43%
Mo 202.031	12.6	0.0028 mg/L	0.00095	0.0028 mg/L	0.00095	33.73%
QC value less than the lower limit for Mo 202.031				Recovery = 0.28%		
Na 589.592	313.9	0.0528 mg/L	0.02854	0.0528 mg/L	0.02854	54.02%
Na 330.237	1.4	0.1951 mg/L	0.69941	0.1951 mg/L	0.69941	358.47%
Ni 231.604	6.1	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	63.73%
Pb 220.353	62.5	0.0032 mg/L	0.00019	0.0032 mg/L	0.00019	6.01%
Sb 206.836	8.3	0.0075 mg/L	0.00547	0.0075 mg/L	0.00547	72.42%
QC value less than the lower limit for Sb 206.836				Recovery = 0.75%		
Se 196.026	-6.5	-0.0008 mg/L	0.00614	-0.0008 mg/L	0.00614	745.69%
Sn 189.927	-1.9	-0.0006 mg/L	0.00103	-0.0006 mg/L	0.00103	170.34%
Sr 407.771	466.8	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	39.27%
Sr 421.552	176.0	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	16.11%
Ti 334.940	94.3	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	139.80%
Tl 190.801	-8.4	-0.0015 mg/L	0.00488	-0.0015 mg/L	0.00488	322.13%
V 290.880	177.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.04%
V 207.912	-2.8	-0.0011 mg/L	0.00028	-0.0011 mg/L	0.00028	25.13%
Zr 371.029	1684.0				43.42	2.58%
Zn 206.200	16.5	0.0011 mg/L	0.00020	0.0011 mg/L	0.00020	18.06%
P 213.617	8.9	0.0065 mg/L	0.00337	0.0065 mg/L	0.00337	51.66%
Bi 251.611	133.0	0.0034 mg/L	0.00019	0.0034 mg/L	0.00019	5.63%
Li 670.784	210.4	0.0032 mg/L	0.00113	0.0032 mg/L	0.00113	35.09%
Li 610.362	166.6	0.0241 mg/L	0.01882	0.0241 mg/L	0.01882	77.99%
S 181.975	1.4	0.0057 mg/L	0.00998	0.0057 mg/L	0.00998	175.96%

QC Failed. Continue with analysis.

ALAB: 00124

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Analysis Begun

Start Time: 10/17/2012 2:34:29 PM Plasma On Time: 10/17/2012 11:56:53 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 61 Autosampler Location: 7
 Sample ID: ICP_CCV(7-6-12) Date Collected: 10/17/2012 2:34:29 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	67825.3	0.5224 mg/L	0.00307	0.5224 mg/L	0.00307	0.59%
QC value within limits for Ag 328.068		Recovery = 104.47%				
Al 308.215	36774.4	1.072 mg/L	0.0037	1.072 mg/L	0.0037	0.34%
QC value within limits for Al 308.215		Recovery = 107.25%				
As 188.979	5633.0	1.017 mg/L	0.0054	1.017 mg/L	0.0054	0.53%
QC value within limits for As 188.979		Recovery = 101.73%				
B 249.677	85356.3	0.9655 mg/L	0.00574	0.9655 mg/L	0.00574	0.59%
QC value within limits for B 249.677		Recovery = 96.55%				
Ba 233.527	115422.9	1.121 mg/L	0.0117	1.121 mg/L	0.0117	1.05%
QC value greater than the upper limit for Ba 233.527		Recovery = 112.05%				
Be 313.107	2357517.3	1.065 mg/L	0.0298	1.065 mg/L	0.0298	2.80%
QC value within limits for Be 313.107		Recovery = 106.52%				
Bi 223.061	-41.4	-0.0191 mg/L	0.00087	-0.0191 mg/L	0.00087	4.58%
Bi 190.171	5.3	0.0065 mg/L	0.00037	0.0065 mg/L	0.00037	5.69%
Ca 315.887	2432.6	1.200 mg/L	0.0020	1.200 mg/L	0.0020	0.16%
Ca 317.933	2893.6	1.208 mg/L	0.0108	1.208 mg/L	0.0108	0.89%
Cd 214.440	47162.1	1.064 mg/L	0.0151	1.064 mg/L	0.0151	1.42%
QC value within limits for Cd 214.440		Recovery = 106.40%				
Co 228.616	27502.3	1.077 mg/L	0.0118	1.077 mg/L	0.0118	1.10%
QC value within limits for Co 228.616		Recovery = 107.71%				
Cr 267.716	42555.3	1.102 mg/L	0.0064	1.102 mg/L	0.0064	0.58%
QC value greater than the upper limit for Cr 267.716		Recovery = 110.24%				
Cu 324.752	308088.0	1.034 mg/L	0.0085	1.034 mg/L	0.0085	0.83%
QC value within limits for Cu 324.752		Recovery = 103.43%				
Fe 238.204	44124.6	1.119 mg/L	0.0246	1.119 mg/L	0.0246	2.20%
QC value greater than the upper limit for Fe 238.204		Recovery = 111.95%				
Fe 273.955	18005.7	1.081 mg/L	0.0175	1.081 mg/L	0.0175	1.62%
QC value within limits for Fe 273.955		Recovery = 108.14%				
K 766.490	29124.7	11.03 mg/L	0.245	11.03 mg/L	0.245	2.22%
Mg 279.077	276.3	1.235 mg/L	0.0007	1.235 mg/L	0.0007	0.06%
Mn 257.610	462791.2	1.077 mg/L	0.0356	1.077 mg/L	0.0356	3.30%
QC value within limits for Mn 257.610		Recovery = 107.72%				
Mo 202.031	4604.7	1.032 mg/L	0.0013	1.032 mg/L	0.0013	0.13%
QC value within limits for Mo 202.031		Recovery = 103.24%				
Na 589.592	6964.2	1.172 mg/L	0.0953	1.172 mg/L	0.0953	8.13%
Na 330.237	-17.1	-2.363 mg/L	0.6812	-2.363 mg/L	0.6812	28.82%
Ni 231.604	20594.1	1.099 mg/L	0.0233	1.099 mg/L	0.0233	2.12%
QC value within limits for Ni 231.604		Recovery = 109.89%				
Pb 220.353	22081.1	1.123 mg/L	0.0220	1.123 mg/L	0.0220	1.96%
QC value greater than the upper limit for Pb 220.353		Recovery = 112.31%				
Sb 206.836	1069.1	0.9733 mg/L	0.00216	0.9733 mg/L	0.00216	0.22%
QC value within limits for Sb 206.836		Recovery = 97.33%				
Se 196.026	8157.4	1.041 mg/L	0.0058	1.041 mg/L	0.0058	0.55%
QC value within limits for Se 196.026		Recovery = 104.13%				
Sn 189.927	-10.2	-0.0033 mg/L	0.00124	-0.0033 mg/L	0.00124	37.39%
Sr 407.771	410328.0	0.9539 mg/L	0.01546	0.9539 mg/L	0.01546	1.62%
QC value within limits for Sr 407.771		Recovery = 95.39%				
Sr 421.552	231630.6	0.9635 mg/L	0.00868	0.9635 mg/L	0.00868	0.90%
QC value within limits for Sr 421.552		Recovery = 96.35%				
Ti 334.940	399633.0	1.086 mg/L	0.0335	1.086 mg/L	0.0335	3.09%
QC value within limits for Ti 334.940		Recovery = 108.56%				
Tl 190.801	5946.6	1.075 mg/L	0.0024	1.075 mg/L	0.0024	0.22%
QC value within limits for Tl 190.801		Recovery = 107.55%				

ALAB: 00125

W 207.912	19.7	0.0080 mg/L	0.00032	0.0080 mg/L	0.00032	3.96%
Y 371.029	1794.3				14.94	0.83%
Zn 206.200	15823.2	1.075 mg/L	0.0248	1.075 mg/L	0.0248	2.31%
QC value within limits for Zn 206.200 Recovery = 107.51%						
P 213.617	-1810.3	-1.332 mg/L	0.0905	-1.332 mg/L	0.0905	6.80%
Si 251.611	41215.6	1.051 mg/L	0.0107	1.051 mg/L	0.0107	1.02%
QC value within limits for Si 251.611 Recovery = 105.07%						
Li 670.784	64379.1	0.9814 mg/L	0.03268	0.9814 mg/L	0.03268	3.33%
Li 610.362	6616.2	0.9581 mg/L	0.05873	0.9581 mg/L	0.05873	6.13%
S 181.975	5.0	0.0205 mg/L	0.00097	0.0205 mg/L	0.00097	4.72%

QC Failed. Continue with analysis.

ALAB: 00126

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 2:37:59 PM Plasma On Time: 10/17/2012 11:56:53 AM
 Logged In Analyst: kedy Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
 Batch ID: 10-17-12
 Results Data Set: 10-17-12
 Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 63 Autosampler Location: 8
 Sample ID: ICP_CCB (Daily) Date Collected: 10/17/2012 2:37:59 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

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Mean Data: ICP_CCB (Daily)				Sample			
Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD	
Ag 328.068	2702.3	0.0208 mg/L	0.00048	0.0208 mg/L	0.00048	2.29%	
Al 308.215	99.7	0.0029 mg/L	0.00169	0.0029 mg/L	0.00169	57.99%	
As 188.979	21.4	0.0039 mg/L	0.00044	0.0039 mg/L	0.00044	11.35%	
B 249.677	-3391.7	-0.0384 mg/L	0.00004	-0.0384 mg/L	0.00004	0.10%	
Ba 233.527	69.5	0.0007 mg/L	0.00000	0.0007 mg/L	0.00000	0.43%	
Be 313.107	816.3	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	17.67%	
Bi 223.061	5.6	0.0026 mg/L	0.00061	0.0026 mg/L	0.00061	23.67%	
Bi 190.171	1.0	0.0012 mg/L	0.00447	0.0012 mg/L	0.00447	359.21%	
Ca 315.887	16.9	0.0084 mg/L	0.00455	0.0084 mg/L	0.00455	54.50%	
Ca 317.933	36.9	0.0154 mg/L	0.00199	0.0154 mg/L	0.00199	12.90%	
Cd 214.440	7.7	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.10%	
Co 228.616	22.0	0.0009 mg/L	0.00040	0.0009 mg/L	0.00040	46.87%	
Cr 267.716	22.6	0.0006 mg/L	0.00031	0.0006 mg/L	0.00031	52.95%	
Cu 324.752	151.1	0.0005 mg/L	0.00042	0.0005 mg/L	0.00042	83.67%	
Fe 238.204	94.7	0.0024 mg/L	0.00012	0.0024 mg/L	0.00012	5.01%	
Fe 273.955	102.0	0.0061 mg/L	0.00003	0.0061 mg/L	0.00003	0.42%	
K 766.490	94.7	0.0359 mg/L	0.03041	0.0359 mg/L	0.03041	84.80%	
Mg 279.077	2.1	0.0094 mg/L	0.00988	0.0094 mg/L	0.00988	105.60%	
Mn 257.610	280.0	0.0007 mg/L	0.00002	0.0007 mg/L	0.00002	2.52%	
Mo 202.031	12.7	0.0029 mg/L	0.00096	0.0029 mg/L	0.00096	33.79%	
QC value less than the lower limit for Mo 202.031				Recovery = 0.29%			
Na 589.592	251.3	0.0423 mg/L	0.00146	0.0423 mg/L	0.00146	3.45%	
Na 330.237	1.8	0.2554 mg/L	0.28161	0.2554 mg/L	0.28161	110.26%	
Ni 231.604	4.2	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	62.72%	
Pb 220.353	49.1	0.0025 mg/L	0.00288	0.0025 mg/L	0.00288	115.15%	
Sb 206.836	5.4	0.0049 mg/L	0.00408	0.0049 mg/L	0.00408	82.72%	
QC value less than the lower limit for Sb 206.836				Recovery = 0.49%			
Se 196.026	-93.9	-0.0120 mg/L	0.01042	-0.0120 mg/L	0.01042	86.89%	
Sn 189.927	-2.4	-0.0008 mg/L	0.00023	-0.0008 mg/L	0.00023	29.73%	
Sr 407.771	263.0	0.0006 mg/L	0.00014	0.0006 mg/L	0.00014	22.55%	
Sr 421.552	110.2	0.0005 mg/L	0.00033	0.0005 mg/L	0.00033	71.56%	
Ti 334.940	46.4	0.0001 mg/L	0.00027	0.0001 mg/L	0.00027	214.31%	
Tl 190.801	8.9	0.0016 mg/L	0.00196	0.0016 mg/L	0.00196	122.31%	
V 290.880	201.0	0.0013 mg/L	0.00012	0.0013 mg/L	0.00012	9.48%	
W 207.912	-2.2	-0.0009 mg/L	0.00008	-0.0009 mg/L	0.00008	8.55%	
Y 371.029	1643.5				99.15	6.03%	
Zn 206.200	6.0	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	68.95%	
P 213.617	4.9	0.0036 mg/L	0.00199	0.0036 mg/L	0.00199	55.86%	
Si 251.611	114.7	0.0029 mg/L	0.00027	0.0029 mg/L	0.00027	9.17%	
Li 670.784	421.7	0.0064 mg/L	0.00063	0.0064 mg/L	0.00063	9.78%	
Li 610.362	200.8	0.0291 mg/L	0.01499	0.0291 mg/L	0.01499	51.52%	
S 181.975	5.5	0.0226 mg/L	0.01293	0.0226 mg/L	0.01293	57.19%	

QC Failed. Continue with analysis.

ALAB: 00127

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Analysis Begun

Start Time: 10/17/2012 3:12:17 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 74

Autosampler Location: 7

Sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 3:12:17 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	64922.5	0.5000 mg/L	0.00339	0.5000 mg/L	0.00339	0.68%
QC value within limits for Ag 328.068 Recovery = 100.00%						
Al 308.215	35157.7	1.025 mg/L	0.0047	1.025 mg/L	0.0047	0.46%
QC value within limits for Al 308.215 Recovery = 102.53%						
As 188.979	5583.3	1.008 mg/L	0.0019	1.008 mg/L	0.0019	0.19%
QC value within limits for As 188.979 Recovery = 100.83%						
B 249.677	80498.8	0.9106 mg/L	0.01190	0.9106 mg/L	0.01190	1.31%
QC value within limits for B 249.677 Recovery = 91.06%						
Ba 233.527	109735.5	1.065 mg/L	0.0092	1.065 mg/L	0.0092	0.87%
QC value within limits for Ba 233.527 Recovery = 106.53%						
Be 313.107	2221028.4	1.003 mg/L	0.0631	1.003 mg/L	0.0631	6.28%
QC value within limits for Be 313.107 Recovery = 100.35%						
Bi 223.061	-46.6	-0.0215 mg/L	0.00119	-0.0215 mg/L	0.00119	5.53%
Bi 190.171	3.6	0.0044 mg/L	0.00155	0.0044 mg/L	0.00155	35.12%
Ca 315.887	2473.8	1.221 mg/L	0.0050	1.221 mg/L	0.0050	0.41%
Ca 317.933	2938.3	1.226 mg/L	0.0063	1.226 mg/L	0.0063	0.51%
Cd 214.440	44753.3	1.010 mg/L	0.0157	1.010 mg/L	0.0157	1.56%
QC value within limits for Cd 214.440 Recovery = 100.96%						
Co 228.616	26394.4	1.034 mg/L	0.0081	1.034 mg/L	0.0081	0.78%
QC value within limits for Co 228.616 Recovery = 103.37%						
Cr 267.716	40773.2	1.056 mg/L	0.0147	1.056 mg/L	0.0147	1.39%
QC value within limits for Cr 267.716 Recovery = 105.62%						
Cu 324.752	287416.2	0.9649 mg/L	0.06340	0.9649 mg/L	0.06340	6.57%
QC value within limits for Cu 324.752 Recovery = 96.49%						
Fe 238.204	41945.7	1.064 mg/L	0.0093	1.064 mg/L	0.0093	0.88%
QC value within limits for Fe 238.204 Recovery = 106.42%						
Fe 273.955	17350.5	1.042 mg/L	0.0069	1.042 mg/L	0.0069	0.66%
QC value within limits for Fe 273.955 Recovery = 104.21%						
K 766.490	28588.4	10.82 mg/L	0.280	10.82 mg/L	0.280	2.59%
Mg 279.077	272.2	1.216 mg/L	0.0282	1.216 mg/L	0.0282	2.32%
Mn 257.610	441814.5	1.028 mg/L	0.0633	1.028 mg/L	0.0633	6.16%
QC value within limits for Mn 257.610 Recovery = 102.84%						
Mo 202.031	4527.0	1.015 mg/L	0.0027	1.015 mg/L	0.0027	0.27%
QC value within limits for Mo 202.031 Recovery = 101.50%						
Na 589.592	7034.6	1.184 mg/L	0.0378	1.184 mg/L	0.0378	3.19%
Na 330.237	-17.9	-2.471 mg/L	0.7663	-2.471 mg/L	0.7663	31.01%
Ni 231.604	19533.7	1.042 mg/L	0.0146	1.042 mg/L	0.0146	1.40%
QC value within limits for Ni 231.604 Recovery = 104.23%						
Pb 220.353	20452.4	1.040 mg/L	0.0070	1.040 mg/L	0.0070	0.67%
QC value within limits for Pb 220.353 Recovery = 104.02%						
Sb 206.836	1051.9	0.9577 mg/L	0.00666	0.9577 mg/L	0.00666	0.70%
QC value within limits for Sb 206.836 Recovery = 95.77%						
Se 196.026	8001.5	1.021 mg/L	0.0077	1.021 mg/L	0.0077	0.76%
QC value within limits for Se 196.026 Recovery = 102.14%						
Sn 189.927	-6.9	-0.0022 mg/L	0.00165	-0.0022 mg/L	0.00165	73.22%
Sr 407.771	418111.6	0.9720 mg/L	0.02597	0.9720 mg/L	0.02597	2.67%
QC value within limits for Sr 407.771 Recovery = 97.20%						
Sr 421.552	235597.8	0.9800 mg/L	0.02684	0.9800 mg/L	0.02684	2.74%
QC value within limits for Sr 421.552 Recovery = 98.00%						
Ti 334.940	378369.7	1.028 mg/L	0.0622	1.028 mg/L	0.0622	6.05%
QC value within limits for Ti 334.940 Recovery = 102.79%						
Ti 334.940	5050.2	1.058 mg/L	0.0084	1.058 mg/L	0.0084	0.79%

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W 207.912	22.6	0.0091 mg/L	0.00279	0.0091 mg/L	0.00279	30.51%
Y 371.029	1634.4				105.53	6.46%
Zn 206.200	15079.1	1.025 mg/L	0.0067	1.025 mg/L	0.0067	0.65%
QC value within limits for Zn 206.200 Recovery = 102.46%						
P 213.617	-1860.0	-1.368 mg/L	0.0613	-1.368 mg/L	0.0613	4.48%
Si 251.611	39296.9	1.002 mg/L	0.0051	1.002 mg/L	0.0051	0.51%
QC value within limits for Si 251.611 Recovery = 100.18%						
Li 670.784	66089.0	1.007 mg/L	0.0332	1.007 mg/L	0.0332	3.30%
Li 610.362	6671.0	0.9661 mg/L	0.10413	0.9661 mg/L	0.10413	10.78%
S 181.975	6.8	0.0278 mg/L	0.03769	0.0278 mg/L	0.03769	135.52%

All analyte(s) passed QC.

ALAB: 00129

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 3:14:18 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb
=====

Sequence No.: 76

Autosampler Location: 8

Sample ID: ICP_CCB(Daily)

Date Collected: 10/17/2012 3:14:18 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2454.7	0.0189 mg/L	0.00008	0.0189 mg/L	0.00008	0.42%
Al 308.215	28.4	0.0008 mg/L	0.00032	0.0008 mg/L	0.00032	38.25%
As 188.979	14.3	0.0026 mg/L	0.00257	0.0026 mg/L	0.00257	99.18%
B 249.677	-3843.8	-0.0435 mg/L	0.00040	-0.0435 mg/L	0.00040	0.92%
Ba 233.527	141.2	0.0014 mg/L	0.00016	0.0014 mg/L	0.00016	11.97%
Be 313.107	2306.9	0.0010 mg/L	0.00013	0.0010 mg/L	0.00013	12.48%
Bi 223.061	0.5	0.0002 mg/L	0.00092	0.0002 mg/L	0.00092	378.21%
Bi 190.171	1.9	0.0024 mg/L	0.00503	0.0024 mg/L	0.00503	210.73%
Ca 315.887	29.6	0.0146 mg/L	0.00111	0.0146 mg/L	0.00111	7.56%
Ca 317.933	31.3	0.0130 mg/L	0.00401	0.0130 mg/L	0.00401	30.72%
Cd 214.440	50.4	0.0011 mg/L	0.00027	0.0011 mg/L	0.00027	24.17%
Co 228.616	34.2	0.0013 mg/L	0.00007	0.0013 mg/L	0.00007	5.54%
Cr 267.716	56.6	0.0015 mg/L	0.00015	0.0015 mg/L	0.00015	10.46%
Cu 324.752	346.3	0.0012 mg/L	0.00050	0.0012 mg/L	0.00050	43.01%
Fe 238.204	89.5	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	1.02%
Fe 273.955	101.3	0.0061 mg/L	0.00026	0.0061 mg/L	0.00026	4.21%
K 766.490	63.5	0.0241 mg/L	0.02343	0.0241 mg/L	0.02343	97.40%
Mg 279.077	10.1	0.0450 mg/L	0.00247	0.0450 mg/L	0.00247	5.49%
Mn 257.610	543.3	0.0013 mg/L	0.00012	0.0013 mg/L	0.00012	9.79%
Mo 202.031	17.1	0.0038 mg/L	0.00027	0.0038 mg/L	0.00027	6.96%
QC value less than the lower limit for Mo 202.031 Recovery = 0.38%						
Na 589.592	393.9	0.0663 mg/L	0.00057	0.0663 mg/L	0.00057	0.86%
Na 330.237	-2.8	-0.3832 mg/L	0.95136	-0.3832 mg/L	0.95136	248.26%
Ni 231.604	15.4	0.0008 mg/L	0.00049	0.0008 mg/L	0.00049	59.30%
Pb 220.353	67.9	0.0035 mg/L	0.00159	0.0035 mg/L	0.00159	45.95%
Sb 206.836	4.7	0.0043 mg/L	0.00107	0.0043 mg/L	0.00107	24.97%
QC value less than the lower limit for Sb 206.836 Recovery = 0.43%						
Se 196.026	23.1	0.0030 mg/L	0.00340	0.0030 mg/L	0.00340	115.36%
Sn 189.927	-0.4	-0.0001 mg/L	0.00176	-0.0001 mg/L	0.00176	>999.9%
Sr 407.771	837.5	0.0019 mg/L	0.00008	0.0019 mg/L	0.00008	3.99%
Sr 421.552	395.8	0.0016 mg/L	0.00036	0.0016 mg/L	0.00036	21.82%
Ti 334.940	418.1	0.0011 mg/L	0.00011	0.0011 mg/L	0.00011	10.02%
Tl 190.801	15.2	0.0027 mg/L	0.00175	0.0027 mg/L	0.00175	63.92%
V 290.880	311.7	0.0020 mg/L	0.00021	0.0020 mg/L	0.00021	10.29%
W 207.912	-2.4	-0.0010 mg/L	0.00081	-0.0010 mg/L	0.00081	83.72%
Y 371.029	1600.6				121.85	7.61%
Zn 206.200	17.9	0.0012 mg/L	0.00026	0.0012 mg/L	0.00026	21.22%
P 213.617	-0.8	-0.0006 mg/L	0.00042	-0.0006 mg/L	0.00042	70.67%
Si 251.611	363.3	0.0093 mg/L	0.00025	0.0093 mg/L	0.00025	2.67%
Li 670.784	287.2	0.0044 mg/L	0.00504	0.0044 mg/L	0.00504	115.11%
Li 610.362	10.8	0.0016 mg/L	0.01382	0.0016 mg/L	0.01382	881.00%
S 181.975	-2.3	-0.0093 mg/L	0.00783	-0.0093 mg/L	0.00783	84.47%

QC Failed. Continue with analysis.

ALAB: 00130

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analysis Begun

Start Time: 10/17/2012 3:46:40 PM

Plasma On Time: 10/17/2012 11:56:53 AM

Logged In Analyst: kedy

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1091901 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif

Batch ID: 10-17-12

Results Data Set: 10-17-12

Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 87

Autosampler Location: 7

Sample ID: ICP_CCV(7-6-12)

Date Collected: 10/17/2012 3:46:40 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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lean Data: ICP_CCV(7-6-12)

Element	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	63944.0	0.4925 mg/L	0.00440	0.4925 mg/L	0.00440	0.89%
QC value within limits for Ag 328.068 Recovery = 98.49%						
Al 308.215	34703.1	1.012 mg/L	0.0243	1.012 mg/L	0.0243	2.40%
QC value within limits for Al 308.215 Recovery = 101.20%						
As 188.979	5318.6	0.9605 mg/L	0.01825	0.9605 mg/L	0.01825	1.90%
QC value within limits for As 188.979 Recovery = 96.05%						
B 249.677	78840.0	0.8918 mg/L	0.01138	0.8918 mg/L	0.01138	1.28%
QC value less than the lower limit for B 249.677 Recovery = 89.18%						
Ba 233.527	107629.6	1.045 mg/L	0.0068	1.045 mg/L	0.0068	0.65%
QC value within limits for Ba 233.527 Recovery = 104.49%						
Be 313.107	2186146.0	0.9877 mg/L	0.01789	0.9877 mg/L	0.01789	1.81%
QC value within limits for Be 313.107 Recovery = 98.77%						
Bi 223.061	-44.1	-0.0203 mg/L	0.00363	-0.0203 mg/L	0.00363	17.89%
Bi 190.171	1.7	0.0022 mg/L	0.00304	0.0022 mg/L	0.00304	141.10%
Ca 315.887	2431.2	1.075 mg/L	0.0002	1.075 mg/L	0.0002	0.02%
Ca 317.933	2894.5	1.078 mg/L	0.0058	1.078 mg/L	0.0058	0.53%
Cd 214.440	43125.8	0.9729 mg/L	0.00176	0.9729 mg/L	0.00176	0.18%
QC value within limits for Cd 214.440 Recovery = 97.29%						
Co 228.616	25947.5	1.016 mg/L	0.0092	1.016 mg/L	0.0092	0.91%
QC value within limits for Co 228.616 Recovery = 101.62%						
Cr 267.716	39969.6	1.035 mg/L	0.0051	1.035 mg/L	0.0051	0.49%
QC value within limits for Cr 267.716 Recovery = 103.54%						
Cu 324.752	287461.6	0.9650 mg/L	0.02541	0.9650 mg/L	0.02541	2.63%
QC value within limits for Cu 324.752 Recovery = 96.50%						
Fe 238.204	40624.0	1.031 mg/L	0.0100	1.031 mg/L	0.0100	0.97%
QC value within limits for Fe 238.204 Recovery = 103.06%						
Fe 273.955	17064.2	1.025 mg/L	0.0023	1.025 mg/L	0.0023	0.23%
QC value within limits for Fe 273.955 Recovery = 102.49%						
Ga 766.490	28082.1	9.582 mg/L	0.1460	9.582 mg/L	0.1460	1.52%
Hg 279.077	265.1	1.101 mg/L	0.0051	1.101 mg/L	0.0051	0.46%
Mn 257.610	427387.3	0.9948 mg/L	0.01581	0.9948 mg/L	0.01581	1.59%
QC value within limits for Mn 257.610 Recovery = 99.48%						
Mo 202.031	4355.4	0.9765 mg/L	0.01119	0.9765 mg/L	0.01119	1.15%
QC value within limits for Mo 202.031 Recovery = 97.65%						
Ni 589.592	7394.4	1.120 mg/L	0.0481	1.120 mg/L	0.0481	4.29%
Ni 330.237	-19.3	-2.503 mg/L	0.3345	-2.503 mg/L	0.3345	13.36%
Ni 231.604	19220.7	1.026 mg/L	0.0030	1.026 mg/L	0.0030	0.29%
QC value within limits for Ni 231.604 Recovery = 102.56%						
Pb 220.353	19663.5	1.000 mg/L	0.0032	1.000 mg/L	0.0032	0.32%
QC value within limits for Pb 220.353 Recovery = 100.01%						
Sb 206.836	1007.6	0.9174 mg/L	0.00673	0.9174 mg/L	0.00673	0.73%
QC value within limits for Sb 206.836 Recovery = 91.74%						
Se 196.026	7703.5	0.9834 mg/L	0.02644	0.9834 mg/L	0.02644	2.69%
QC value within limits for Se 196.026 Recovery = 98.34%						
Sr 189.927	-10.3	-0.0033 mg/L	0.00134	-0.0033 mg/L	0.00134	40.09%
Sr 407.771	408181.4	0.9489 mg/L	0.01401	0.9489 mg/L	0.01401	1.48%
QC value within limits for Sr 407.771 Recovery = 94.89%						
Sr 421.552	232139.7	0.9656 mg/L	0.00282	0.9656 mg/L	0.00282	0.29%
QC value within limits for Sr 421.552 Recovery = 96.56%						
Ti 334.940	371889.7	1.010 mg/L	0.0219	1.010 mg/L	0.0219	2.17%
QC value within limits for Ti 334.940 Recovery = 101.03%						

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7 207.912	20.8	0.0084 mg/L	0.00209	0.0084 mg/L	0.00209	24.83%
7 371.029	1725.1				25.46	1.48%
in 206.200	14625.1	0.9937 mg/L	0.00048	0.9937 mg/L	0.00048	0.05%
QC value within limits for Zn 206.200 Recovery = 99.37%						
7 213.617	-1768.2	-1.301 mg/L	0.0209	-1.301 mg/L	0.0209	1.60%
si 251.611	38687.4	0.9863 mg/L	0.01002	0.9863 mg/L	0.01002	1.02%
QC value within limits for Si 251.611 Recovery = 98.63%						
si 670.784	65266.4	0.9949 mg/L	0.01639	0.9949 mg/L	0.01639	1.65%
si 610.362	6837.0	0.9901 mg/L	0.06638	0.9901 mg/L	0.06638	6.70%
si 181.975	10.3	0.0423 mg/L	0.00069	0.0423 mg/L	0.00069	1.62%

QC Failed. Continue with analysis.

ALAB: 00132

Sequence No.: 88

Sample ID: ICP_CCVGM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/17/2012 3:49:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Std.Dev.	
Ag 328.068	69.7	0.0005	mg/L	0.00035	0.0005 mg/L	0.00035	64.86%
Al 308.215	53.9	0.0016	mg/L	0.00084	0.0016 mg/L	0.00084	53.67%
As 188.979	-32.6	-0.0059	mg/L	0.00675	-0.0059 mg/L	0.00675	114.90%
B 249.677	-3600.0	-0.0407	mg/L	0.00052	-0.0407 mg/L	0.00052	1.26%
Ba 233.527	93.4	0.0009	mg/L	0.00000	0.0009 mg/L	0.00000	0.27%
Be 313.107	690.1	0.0003	mg/L	0.00005	0.0003 mg/L	0.00005	14.92%
Bi 223.061	16.0	0.0074	mg/L	0.00496	0.0074 mg/L	0.00496	67.28%
Bi 190.171	17.1	0.0211	mg/L	0.00149	0.0211 mg/L	0.00149	7.03%
Ca 315.887	224772.5	99.42	mg/L	2.398	99.42 mg/L	2.398	2.41%
QC value within limits for Ca 315.887 Recovery = 99.42%							
Ca 317.933	266034.9	99.08	mg/L	2.496	99.08 mg/L	2.496	2.52%
QC value within limits for Ca 317.933 Recovery = 99.08%							
Cd 214.440	-31.7	-0.0007	mg/L	0.00005	-0.0007 mg/L	0.00005	7.37%
Co 228.616	27.6	0.0011	mg/L	0.00016	0.0011 mg/L	0.00016	15.06%
Cr 267.716	103.0	0.0027	mg/L	0.00005	0.0027 mg/L	0.00005	1.97%
Cu 324.752	1079.4	0.0036	mg/L	0.00031	0.0036 mg/L	0.00031	8.43%
Fe 238.204	182.2	0.0046	mg/L	0.00006	0.0046 mg/L	0.00006	1.31%
Fe 273.955	12.7	0.0008	mg/L	0.00074	0.0008 mg/L	0.00074	97.07%
K 766.490	292640.3	99.85	mg/L	1.461	99.85 mg/L	1.461	1.46%
QC value within limits for K 766.490 Recovery = 99.85%							
Mg 279.077	24362.0	101.2	mg/L	0.67	101.2 mg/L	0.67	0.66%
QC value within limits for Mg 279.077 Recovery = 101.21%							
Mn 257.610	1578.6	0.0037	mg/L	0.00002	0.0037 mg/L	0.00002	0.47%
Mo 202.031	36.1	0.0081	mg/L	0.00011	0.0081 mg/L	0.00011	1.37%
Na 589.592	653415.9	98.97	mg/L	1.076	98.97 mg/L	1.076	1.09%
QC value within limits for Na 589.592 Recovery = 98.97%							
Na 330.237	782.0	101.6	mg/L	0.84	101.6 mg/L	0.84	0.83%
QC value within limits for Na 330.237 Recovery = 101.64%							
Ni 231.604	13.6	0.0007	mg/L	0.00016	0.0007 mg/L	0.00016	22.56%
Pb 220.353	91.9	0.0047	mg/L	0.00130	0.0047 mg/L	0.00130	27.86%
Pb 206.836	-14.4	-0.0131	mg/L	0.00204	-0.0131 mg/L	0.00204	15.59%
Se 196.026	-211.7	-0.0270	mg/L	0.00629	-0.0270 mg/L	0.00629	23.29%
Sn 189.927	-103.8	-0.0337	mg/L	0.00023	-0.0337 mg/L	0.00023	0.69%
Ti 407.771	468.8	0.0011	mg/L	0.00006	0.0011 mg/L	0.00006	5.13%
Ti 421.552	229.0	0.0010	mg/L	0.00012	0.0010 mg/L	0.00012	12.35%
Ti 334.940	3443.7	0.0094	mg/L	0.00009	0.0094 mg/L	0.00009	0.97%
Tl 190.801	-76.0	-0.0137	mg/L	0.00172	-0.0137 mg/L	0.00172	12.53%
Tl 290.880	-722.8	-0.0047	mg/L	0.00071	-0.0047 mg/L	0.00071	15.21%
Tl 207.912	7.8	0.0032	mg/L	0.00201	0.0032 mg/L	0.00201	63.59%
Tl 371.029	1450.8					35.63	2.46%
U 206.200	3.5	0.0002	mg/L	0.00064	0.0002 mg/L	0.00064	268.61%
U 213.617	-12.2	-0.0090	mg/L	0.00948	-0.0090 mg/L	0.00948	105.65%
U 251.611	739.9	0.0189	mg/L	0.00050	0.0189 mg/L	0.00050	2.63%
U 670.784	88.5	0.0013	mg/L	0.00449	0.0013 mg/L	0.00449	333.00%
U 610.362	-1781.3	-0.2580	mg/L	0.06984	-0.2580 mg/L	0.06984	27.07%
U 181.975	6.0	0.0245	mg/L	0.02265	0.0245 mg/L	0.02265	92.45%

All analyte(s) passed QC.

ALAB: 00133

Sequence No.: 89
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 3:51:49 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2302.5	0.0177 mg/L	0.00013	0.0177 mg/L	0.00013	0.71%
Al 308.215	13.3	0.0004 mg/L	0.00044	0.0004 mg/L	0.00044	114.02%
As 188.979	25.8	0.0047 mg/L	0.00002	0.0047 mg/L	0.00002	0.39%
B 249.677	-4360.9	-0.0493 mg/L	0.00010	-0.0493 mg/L	0.00010	0.21%
Ba 233.527	37.3	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	19.54%
Be 313.107	448.6	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	7.70%
Bi 223.061	8.0	0.0037 mg/L	0.00355	0.0037 mg/L	0.00355	95.99%
Bi 190.171	1.3	0.0015 mg/L	0.00309	0.0015 mg/L	0.00309	199.49%
Ca 315.887	141.7	0.0627 mg/L	0.00263	0.0627 mg/L	0.00263	4.20%
Ca 317.933	169.1	0.0630 mg/L	0.00791	0.0630 mg/L	0.00791	12.56%
Cd 214.440	4.5	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	60.23%
Co 228.616	9.9	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	30.57%
Cr 267.716	21.0	0.0005 mg/L	0.00019	0.0005 mg/L	0.00019	34.79%
Cu 324.752	154.5	0.0005 mg/L	0.00019	0.0005 mg/L	0.00019	36.86%
Fe 238.204	43.6	0.0011 mg/L	0.00007	0.0011 mg/L	0.00007	5.97%
Fe 273.955	95.4	0.0057 mg/L	0.00072	0.0057 mg/L	0.00072	12.53%
K 766.490	692.8	0.2364 mg/L	0.03518	0.2364 mg/L	0.03518	14.88%
Mg 279.077	18.4	0.0765 mg/L	0.00890	0.0765 mg/L	0.00890	11.63%
Mn 257.610	166.0	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	9.91%
Mo 202.031	5.7	0.0013 mg/L	0.00006	0.0013 mg/L	0.00006	4.82%
QC value less than the lower limit for Mo 202.031 Recovery = 0.13%						
Na 589.592	1054.0	0.1596 mg/L	0.01119	0.1596 mg/L	0.01119	7.01%
Na 330.237	0.5	0.0593 mg/L	0.33603	0.0593 mg/L	0.33603	566.31%
Ni 231.604	-1.4	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	222.16%
Pb 220.353	65.6	0.0033 mg/L	0.00266	0.0033 mg/L	0.00266	79.86%
Sb 206.836	-3.0	-0.0028 mg/L	0.00500	-0.0028 mg/L	0.00500	180.81%
QC value less than the lower limit for Sb 206.836 Recovery = -0.28%						
Se 196.026	-113.9	-0.0145 mg/L	0.00319	-0.0145 mg/L	0.00319	21.91%
Sn 189.927	0.5	0.0002 mg/L	0.00040	0.0002 mg/L	0.00040	250.27%
Sr 407.771	138.0	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	29.70%
Sr 421.552	99.8	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	35.46%
Ti 334.940	-12.3	0.0000 mg/L	0.00015	0.0000 mg/L	0.00015	462.02%
Tl 190.801	13.2	0.0024 mg/L	0.00378	0.0024 mg/L	0.00378	157.80%
V 290.880	70.9	0.0005 mg/L	0.00053	0.0005 mg/L	0.00053	116.48%
W 207.912	-6.7	-0.0027 mg/L	0.00028	-0.0027 mg/L	0.00028	10.51%
Y 371.029	1624.9				80.83	4.97%
Zn 206.200	7.5	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.86%
Zr 213.617	6.2	0.0045 mg/L	0.00220	0.0045 mg/L	0.00220	48.33%
Si 251.611	377.0	0.0096 mg/L	0.00004	0.0096 mg/L	0.00004	0.37%
Li 670.784	106.0	0.0016 mg/L	0.00453	0.0016 mg/L	0.00453	280.33%
Li 610.362	12.6	0.0018 mg/L	0.14910	0.0018 mg/L	0.14910	>999.9%
S 181.975	2.3	0.0093 mg/L	0.01115	0.0093 mg/L	0.01115	120.42%

QC Failed. Continue with analysis.

ALAB: 00134

Sequence No.: 100

Sample ID: ICP_CCV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 4:20:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	67974.1	0.5235 mg/L	0.00980	0.5235 mg/L	0.00980	1.87%
QC value within limits for Ag 328.068 Recovery = 104.70%						
Al 308.215	36456.7	1.063 mg/L	0.0192	1.063 mg/L	0.0192	1.81%
QC value within limits for Al 308.215 Recovery = 106.32%						
As 188.979	5459.5	0.9860 mg/L	0.00106	0.9860 mg/L	0.00106	0.11%
QC value within limits for As 188.979 Recovery = 98.60%						
B 249.677	84777.8	0.9590 mg/L	0.01007	0.9590 mg/L	0.01007	1.05%
QC value within limits for B 249.677 Recovery = 95.90%						
Ba 233.527	114022.1	1.107 mg/L	0.0085	1.107 mg/L	0.0085	0.77%
QC value greater than the upper limit for Ba 233.527 Recovery = 110.69%						
Be 313.107	2279299.3	1.030 mg/L	0.0770	1.030 mg/L	0.0770	7.47%
QC value within limits for Be 313.107 Recovery = 102.98%						
Bi 223.061	2.3	0.0011 mg/L	0.00154	0.0011 mg/L	0.00154	142.57%
Bi 190.171	27.6	0.0340 mg/L	0.00703	0.0340 mg/L	0.00703	20.64%
Ca 315.887	2414.8	1.068 mg/L	0.0159	1.068 mg/L	0.0159	1.49%
Ca 317.933	2861.0	1.065 mg/L	0.0141	1.065 mg/L	0.0141	1.32%
Cd 214.440	46149.8	1.041 mg/L	0.0124	1.041 mg/L	0.0124	1.19%
QC value within limits for Cd 214.440 Recovery = 104.11%						
Co 228.616	27231.2	1.067 mg/L	0.0107	1.067 mg/L	0.0107	1.00%
QC value within limits for Co 228.616 Recovery = 106.65%						
Cr 267.716	42565.7	1.103 mg/L	0.0186	1.103 mg/L	0.0186	1.69%
QC value greater than the upper limit for Cr 267.716 Recovery = 110.27%						
Cu 324.752	309917.1	1.040 mg/L	0.0233	1.040 mg/L	0.0233	2.24%
QC value within limits for Cu 324.752 Recovery = 104.04%						
Fe 238.204	43019.1	1.091 mg/L	0.0156	1.091 mg/L	0.0156	1.43%
QC value within limits for Fe 238.204 Recovery = 109.14%						
Fe 273.955	18024.8	1.083 mg/L	0.0197	1.083 mg/L	0.0197	1.82%
QC value within limits for Fe 273.955 Recovery = 108.26%						
K 766.490	28967.0	9.884 mg/L	0.2544	9.884 mg/L	0.2544	2.57%
Mg 279.077	267.4	1.111 mg/L	0.0016	1.111 mg/L	0.0016	0.15%
Mn 257.610	443911.1	1.033 mg/L	0.0624	1.033 mg/L	0.0624	6.04%
QC value within limits for Mn 257.610 Recovery = 103.32%						
Mo 202.031	4730.8	1.061 mg/L	0.0096	1.061 mg/L	0.0096	0.90%
QC value within limits for Mo 202.031 Recovery = 106.07%						
Na 589.592	7239.3	1.097 mg/L	0.1308	1.097 mg/L	0.1308	11.93%
Na 330.237	-9.0	-1.176 mg/L	0.5889	-1.176 mg/L	0.5889	50.10%
Ni 231.604	20277.4	1.082 mg/L	0.0156	1.082 mg/L	0.0156	1.44%
QC value within limits for Ni 231.604 Recovery = 108.20%						
Pb 220.353	21211.7	1.079 mg/L	0.0497	1.079 mg/L	0.0497	4.60%
QC value within limits for Pb 220.353 Recovery = 107.88%						
Sb 206.836	1006.5	0.9164 mg/L	0.01515	0.9164 mg/L	0.01515	1.65%
QC value within limits for Sb 206.836 Recovery = 91.64%						
Se 196.026	7938.5	1.013 mg/L	0.0036	1.013 mg/L	0.0036	0.35%
QC value within limits for Se 196.026 Recovery = 101.34%						
Sn 189.927	33.2	0.0108 mg/L	0.00095	0.0108 mg/L	0.00095	8.84%
Sr 407.771	420258.3	0.9770 mg/L	0.04208	0.9770 mg/L	0.04208	4.31%
QC value within limits for Sr 407.771 Recovery = 97.70%						
Sr 421.552	237336.8	0.9872 mg/L	0.04013	0.9872 mg/L	0.04013	4.07%
QC value within limits for Sr 421.552 Recovery = 98.72%						
Ti 334.940	386244.1	1.049 mg/L	0.0725	1.049 mg/L	0.0725	6.91%
QC value within limits for Ti 334.940 Recovery = 104.93%						
Tl 190.801	5748.1	1.040 mg/L	0.0138	1.040 mg/L	0.0138	1.33%
QC value within limits for Tl 190.801 Recovery = 103.96%						
V 290.880	164483.8	1.065 mg/L	0.0124	1.065 mg/L	0.0124	1.16%
QC value within limits for V 290.880 Recovery = 106.46%						
Zn 207.912	96.4	0.0389 mg/L	0.00602	0.0389 mg/L	0.00602	15.48%
Zn 371.029	1394.9				153.39	11.00%
Zn 206.200	15568.2	1.058 mg/L	0.0027	1.058 mg/L	0.0027	0.26%
QC value within limits for Zn 206.200 Recovery = 105.78%						
Zn 213.617	-1829.7	-1.346 mg/L	0.0746	-1.346 mg/L	0.0746	5.55%
Si 251.611	45092.8	1.150 mg/L	0.0125	1.150 mg/L	0.0125	1.09%
QC value greater than the upper limit for Si 251.611 Recovery = 114.96%						
Si 670.784	68460.8	1.044 mg/L	0.0414	1.044 mg/L	0.0414	3.96%

CONFIDENTIAL

LMC-PET-00001751

Sequence No.: 101
 Sample ID: ICP_CCVGM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 10/17/2012 4:23:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	76.1	0.0006 mg/L	0.00049	0.00049	0.0006 mg/L	0.00049	84.04%
Al 308.215	-6.4	-0.0002 mg/L	0.00365	0.00365	-0.0002 mg/L	0.00365	>999.9%
As 188.979	-6.0	-0.0011 mg/L	0.00348	0.00348	-0.0011 mg/L	0.00348	320.45%
B 249.677	-3842.8	-0.0435 mg/L	0.00111	0.00111	-0.0435 mg/L	0.00111	2.55%
Ba 233.527	98.8	0.0010 mg/L	0.00008	0.00008	0.0010 mg/L	0.00008	8.15%
Be 313.107	664.7	0.0003 mg/L	0.00004	0.00004	0.0003 mg/L	0.00004	14.49%
Bi 223.061	32.9	0.0152 mg/L	0.00396	0.00396	0.0152 mg/L	0.00396	26.12%
Bi 190.171	12.6	0.0156 mg/L	0.00775	0.00775	0.0156 mg/L	0.00775	49.85%
Ca 315.887	222112.7	98.25 mg/L	8.467	8.467	98.25 mg/L	8.467	8.62%
QC value within limits for Ca 315.887 Recovery = 98.25%							
Ca 317.933	263536.3	98.15 mg/L	8.491	8.491	98.15 mg/L	8.491	8.65%
QC value within limits for Ca 317.933 Recovery = 98.15%							
Cd 214.440	-35.7	-0.0008 mg/L	0.00002	0.00002	-0.0008 mg/L	0.00002	2.35%
Co 228.616	19.9	0.0008 mg/L	0.00027	0.00027	0.0008 mg/L	0.00027	35.13%
Cr 267.716	94.8	0.0025 mg/L	0.00031	0.00031	0.0025 mg/L	0.00031	12.74%
Cu 324.752	1007.1	0.0034 mg/L	0.00021	0.00021	0.0034 mg/L	0.00021	6.29%
Fe 238.204	188.5	0.0048 mg/L	0.00002	0.00002	0.0048 mg/L	0.00002	0.48%
Fe 273.955	20.4	0.0012 mg/L	0.00066	0.00066	0.0012 mg/L	0.00066	54.04%
K 766.490	288006.3	98.27 mg/L	7.714	7.714	98.27 mg/L	7.714	7.85%
QC value within limits for K 766.490 Recovery = 98.27%							
Mg 279.077	25375.9	105.4 mg/L	1.10	1.10	105.4 mg/L	1.10	1.04%
QC value within limits for Mg 279.077 Recovery = 105.43%							
Mn 257.610	1634.6	0.0038 mg/L	0.00010	0.00010	0.0038 mg/L	0.00010	2.55%
Mo 202.031	35.1	0.0079 mg/L	0.00018	0.00018	0.0079 mg/L	0.00018	2.28%
Na 589.592	648320.8	98.20 mg/L	7.532	7.532	98.20 mg/L	7.532	7.67%
QC value within limits for Na 589.592 Recovery = 98.20%							
Na 330.237	816.9	106.2 mg/L	0.83	0.83	106.2 mg/L	0.83	0.79%
QC value within limits for Na 330.237 Recovery = 106.17%							
Ni 231.604	6.8	0.0004 mg/L	0.00044	0.00044	0.0004 mg/L	0.00044	122.31%
Pb 220.353	57.1	0.0029 mg/L	0.00111	0.00111	0.0029 mg/L	0.00111	38.25%
Sb 206.836	-16.0	-0.0146 mg/L	0.00471	0.00471	-0.0146 mg/L	0.00471	32.24%
Se 196.026	-250.1	-0.0319 mg/L	0.00618	0.00618	-0.0319 mg/L	0.00618	19.35%
Sn 189.927	-87.4	-0.0284 mg/L	0.00073	0.00073	-0.0284 mg/L	0.00073	2.59%
Sr 407.771	466.7	0.0011 mg/L	0.00005	0.00005	0.0011 mg/L	0.00005	4.32%
Sr 421.552	226.0	0.0009 mg/L	0.00010	0.00010	0.0009 mg/L	0.00010	11.06%
Ti 334.940	3656.9	0.0099 mg/L	0.00027	0.00027	0.0099 mg/L	0.00027	2.70%
Tl 190.801	-73.0	-0.0132 mg/L	0.00076	0.00076	-0.0132 mg/L	0.00076	5.73%
T 290.880	-789.1	-0.0051 mg/L	0.00026	0.00026	-0.0051 mg/L	0.00026	5.08%
V 207.912	33.4	0.0135 mg/L	0.00139	0.00139	0.0135 mg/L	0.00139	10.29%
Z 371.029	1457.6					41.92	2.88%
Zn 206.200	3.8	0.0003 mg/L	0.00035	0.00035	0.0003 mg/L	0.00035	136.23%
P 213.617	-5.8	-0.0042 mg/L	0.00074	0.00074	-0.0042 mg/L	0.00074	17.34%
Si 251.611	2905.0	0.0741 mg/L	0.00328	0.00328	0.0741 mg/L	0.00328	4.43%
Si 670.784	696.5	0.0106 mg/L	0.00347	0.00347	0.0106 mg/L	0.00347	32.67%
Si 610.362	-1099.6	-0.1592 mg/L	0.07155	0.07155	-0.1592 mg/L	0.07155	44.93%
Si 181.975	9.0	0.0371 mg/L	0.01460	0.01460	0.0371 mg/L	0.01460	39.31%

All analyte(s) passed QC.

ALAB: 00136

Sequence No.: 102
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 4:26:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	2314.8	0.0178 mg/L	0.00016	0.0178 mg/L	0.00016	0.90%
Al 308.215	59.0	0.0017 mg/L	0.00004	0.0017 mg/L	0.00004	2.15%
As 188.979	0.8	0.0001 mg/L	0.01011	0.0001 mg/L	0.01011	>999.9%
B 249.677	-4588.4	-0.0519 mg/L	0.00015	-0.0519 mg/L	0.00015	0.29%
Ba 233.527	38.6	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.70%
Be 313.107	386.7	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.94%
Bi 223.061	7.2	0.0033 mg/L	0.00305	0.0033 mg/L	0.00305	91.37%
Bi 190.171	1.8	0.0022 mg/L	0.00265	0.0022 mg/L	0.00265	119.24%
Ca 315.887	153.3	0.0678 mg/L	0.00092	0.0678 mg/L	0.00092	1.35%
Ca 317.933	184.5	0.0687 mg/L	0.00668	0.0687 mg/L	0.00668	9.72%
Cd 214.440	7.4	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	79.82%
Co 228.616	8.4	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	109.16%
Cr 267.716	21.1	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027	48.78%
Cr 324.752	119.6	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	69.33%
Cu 238.204	41.0	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	6.80%
Cu 273.955	85.9	0.0052 mg/L	0.00030	0.0052 mg/L	0.00030	5.76%
Cu 766.490	484.8	0.1654 mg/L	0.11464	0.1654 mg/L	0.11464	69.30%
Hg 279.077	21.6	0.0897 mg/L	0.00400	0.0897 mg/L	0.00400	4.46%
In 257.610	185.3	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	8.88%
Mo 202.031	7.8	0.0017 mg/L	0.00007	0.0017 mg/L	0.00007	3.74%
QC value less than the lower limit for Mo 202.031 Recovery = 0.17%						
Na 589.592	1055.9	0.1599 mg/L	0.00530	0.1599 mg/L	0.00530	3.31%
Na 330.237	8.0	1.041 mg/L	0.8420	1.041 mg/L	0.8420	80.86%
Ni 231.604	5.1	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	35.21%
Pb 220.353	44.4	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	0.89%
Pb 206.836	-3.5	-0.0031 mg/L	0.00161	-0.0031 mg/L	0.00161	51.25%
QC value less than the lower limit for Sb 206.836 Recovery = -0.31%						
Se 196.026	-109.0	-0.0139 mg/L	0.00794	-0.0139 mg/L	0.00794	57.03%
Sn 189.927	6.4	0.0021 mg/L	0.00135	0.0021 mg/L	0.00135	64.98%
Sn 407.771	189.7	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	44.39%
Sn 421.552	88.4	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	57.88%
Ti 334.940	-42.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	37.16%
Tl 190.801	1.2	0.0002 mg/L	0.00218	0.0002 mg/L	0.00218	>999.9%
Tl 290.880	150.2	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	2.25%
Tl 207.912	1.2	0.0005 mg/L	0.00076	0.0005 mg/L	0.00076	159.04%
Tl 371.029	1688.7				93.15	5.52%
U 206.200	8.6	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	14.74%
U 213.617	4.7	0.0035 mg/L	0.00141	0.0035 mg/L	0.00141	40.52%
U 251.611	922.8	0.0235 mg/L	0.00051	0.0235 mg/L	0.00051	2.16%
U 670.784	-87.0	-0.0013 mg/L	0.00235	-0.0013 mg/L	0.00235	176.84%
U 610.362	11.2	0.0016 mg/L	0.02129	0.0016 mg/L	0.02129	>999.9%
U 181.975	6.6	0.0269 mg/L	0.00336	0.0269 mg/L	0.00336	12.48%

QC Failed. Continue with analysis.

ALAB: 00137