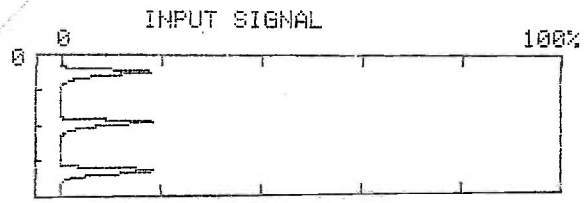


TIME [min]

31 1995 MS Dup-10

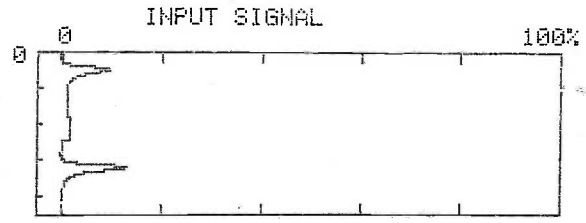
SAMPLE# 26 NPOC VIAL: 26
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1-	7862	10.37			
2	8163	10.80			
3	8131	10.75			
MN	8147	10.77			
SD	22	0.032			
CV	0.27 %				

10.8 mg/l

COR CONC DIL 10.77 [x 1.0]
COR CONC INJ 10.77 [x 1.0]

DATE 10(OCT)-15-2012 13:29



TIME [min]

311995 Dup-10

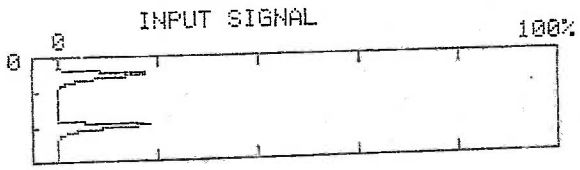
SAMPLE# 22 NPOC VIAL: 22
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	6444	0.566T			
2	6524	0.576			
MN	6484	0.571			
SD	56	0.007			
CV	0.87 %				

0.6 mg/l

COR CONC DIL 0.571 [x 1.0]
COR CONC INJ 0.571 [x 1.0]

DATE 10(OCT)-15-2012 12:45



TIME [min]

31 1995 MS-1D

SAMPLE# 17 NPOC VIAL: 17
[x 5, 50µl, C# 7, #WASH 4, SP 3min]

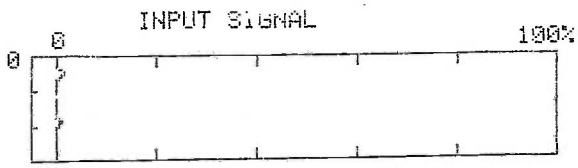
#	AREA	mg/l	C#	µl	RG
1	8182	10.82			
2	8296	10.99			
MN	8239	10.91			
SD	80	0.115			
CV	0.97 %				

10.9 mg/l

COR CONC DIL 10.91 [x 1.0]
COR CONC INJ 10.91 [x 1.0]

DATE 10(OCT)-15-2012 11:51

ALAB:00147



TIME [min]

Br

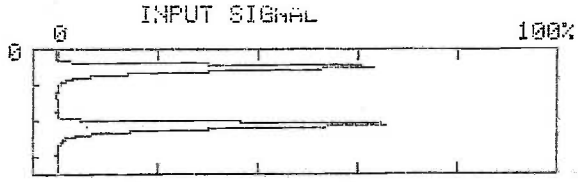
SAMPLE# 61 NPOC VIAL: 61
[x30, 240µl, C# 15, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	744	-0.34			
2	495	-1.12			
MN	619	-0.73			
SD	176	0.553			

ND <0.5 mg/l

CV 28.4 %
COR CONC DIL -0.73 [x 1.0]
COR CONC INJ -0.58 [x0.79]

DATE 10(OCT)-15-2012 19:19



TIME [min]

5.0 QA

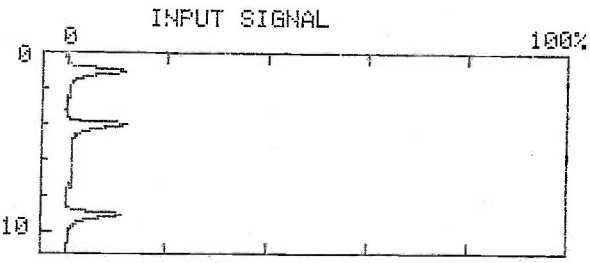
SAMPLE# 75 NPOC VIAL: 75
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	30423	4.440			
2	31035	4.533			
MN	30729	4.487			
SD	432	0.066			

4.5 mg/l

CV 1.40 %
COR CONC DIL 4.487 [x 1.0]
COR CONC INJ 4.487 [x 1.0]

DATE 10(OCT)-15-2012 21:51



TIME [min]

0.5 QA

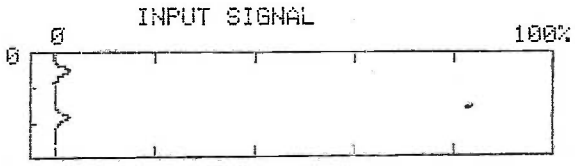
SAMPLE# 77 NPOC VIAL: 77
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	5970	0.505			
2-	7401	0.689			
3	5814	0.484			
MN	5892	0.495			
SD	110	0.014			

0.5 mg/l

CV 1.87 %
COR CONC DIL 0.495 [x 1.0]
COR CONC INJ 0.495 [x 1.0]

DATE 10(OCT)-15-2012 22:15



TIME [min]

BL

SAMPLE# 76 NPOC VIAL: 76
[x 1, 80µl, C# 2, #WASH 4, SP 3min]

#	AREA	mg/l	C#	µl	RG
1	1715	-0.04			
2	1648	-0.05			
MN	1681	-0.04			
SD	47	0.006			

ND <0.5 mg/l

CV 2.81 %
COR CONC DIL -0.04 [x 1.0]
COR CONC INJ -0.04 [x 1.0]

DATE 10(OCT)-15-2012 21:59

ALAB:00148

ASSOCIATED LABORATORIES
Total Organic Carbon Runlog

Method 9060 / 415.1 / 5310 B
Shimadzu TOC

TOC: V. (&P)

Date: 10/19/2012
HCl Lot: RB0424 spectrum chem.

Vial	Sample	Dilute	Vial	Sample	Dilute
1	Inst BL 8:35	pH < 2	41		
2	BL 8:48	〃	42		
3	10LCS Make 9/17/12	8:57	43		
4	10QA 〃 10/12/12	9:16	44		
5	2.5QA 〃 9/28/12	9:30	45		
6	BL.	9:49	46		
7	311995-2	10:19	47		
8	312205-2	pH<2	48		
9	〃 -4	〃	49		
10	〃 -7	〃	50		
11	311995-2MS lot 106-0087 Exp 02/2013	11:09	51		
12	BL	11:30	52		
13	311995-2Dup	11:47	53		
14	10QA	12:06	54		
15	312352 rerun	pH<2	55		
16	312368	〃	56		
17	312352.	〃	57		
18	311995-2MS Dup. Lot 106-0087	13:15	58		
19	312380-16	pH<2	59		
20	〃 -15	〃	60		
21	10LCS	14:14	61		
22	BL.	14:32	62		
23	312080-8	14:49	63		
24	0.5QA Make 6/4/12.	15:04	64		
25	2.5QA.	15:28	65		
26	10QA.	15:46	66		
27	25QA Make 6/5/12	16:06	67		
28	BL. 16:24	pH<2	68		
29			69		
30			70		
31			71		
32			72		
33			73		
34			74		
35			75		
36			76		
37			77		
38			78		
39			1		
40			2		

ALAB 00149

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 311995-2

Matrix: WATER

Prep. Date: 10/19/2012

Analysis Date: 10/19

Lab ID#'s in Batch: LR 311995-2, 312380, 312352, 312368, 312205, 312080

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS

Reporting Units = mg/l

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	% Rec MS	% Rec MSD	RPD
TOC	5310 B/9060	ND	10	9.9	9.9			

ND = "U" – Not Detected
RPD = Relative Percent Difference of Matrix Spike and Spike Duplicate
%REC – MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 80 - 120
RPD LIMITS = 20

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP. BLK	LCS				
Value	Result	True	% Rec.	L. Limit	H. Limit
ND	9.9	10	99	80%	120%

Value = Preparation Blank Value; ND = Not Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L. Limit / H. Limit = LCS Control Limits

ALAB : 00150

CONFIDENTIAL

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130712

Created Date: 10/22/2012
Created By: hongling
Matrix: Water

Test: 5310B Total Org
Method: SM 5310B
Instrument: TOC-BIO (group)
AnalysisDate: 10/19/2012
AnalysisEmployee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	312380-016	PV-GW-EMS-6-101812	312380-016							
1	312380-015	PV-GW-C-107-101812	312380-015							
2	312368-001	101112, Driveway at Ga	312368-001							
3	312352-011	TES Loop - TOC	312352-011							
4	LCS_1									
5	Method Blank_1									
6	MS_1		311995-002							
7	MSD_1		311995-002							
8	311995-002	Equipment Blank	311995-002							

InitialCalibSTD:
CalibCheckSTD:
InternalSTD:
SurrogateSTD:
LCSSTD:
MSSTD:

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

LMC-PET-00000538

SAMPLE NAME : 1

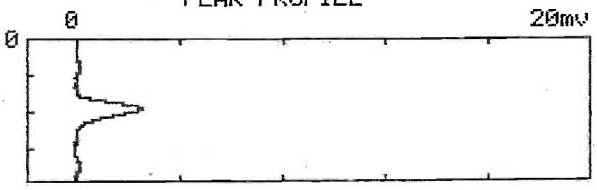
Inst : Pb

TYPE : NPOC VIAL : 1
[INJ 80uL,C# TC2 ,DL 1,SP 0.5min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	0.000	-0.067	TC2	80	1
2	12.41E	1.597	TC2	80	1
3	0.620	0.016	TC2	80	1
MN	0.310	-0.026			
SD	0.44	0.06			
CV	141 %	230 %			

NP<0.5mg/L
QP ✓

PEAK PROFILE



DATE 10(OCT)-19-2012 08:48

SAMPLE NAME : 1

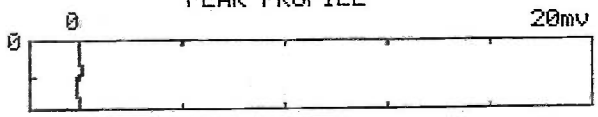
Pb ✓

TYPE : NPOC VIAL : 2
[INJ 80uL,C# TC2 ,DL 1,SP 0.5min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	0.000	-0.067	TC2	80	1
2	0.000	-0.067	TC2	80	1
MN	0.000	-0.067			
SD	0.00	0.00			
CV	0.00 %	0.00 %			

NP<0.5mg/L
QP.

PEAK PROFILE



DATE 10(OCT)-19-2012 08:57

SAMPLE NAME : 1

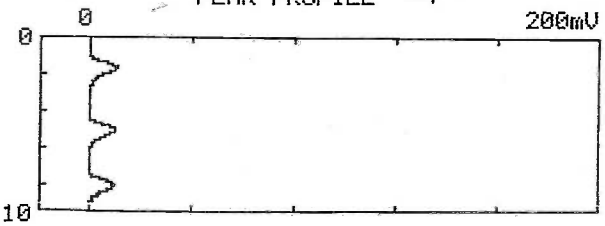
10 ✓

TYPE : NPOC VIAL : 3
[INJ 50uL,C# TC3 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	46.24E	10.23	TC3	50	1
2	44.32	9.817	TC3	50	1
3	44.64	9.885	TC3	50	1
MN	44.48	9.851			
SD	0.23	0.05			
CV	0.51 %	0.49 %			

9.9mg/L
QP ✓

PEAK PROFILE



DATE 10(OCT)-19-2012 09:16

SAMPLE NAME : 1

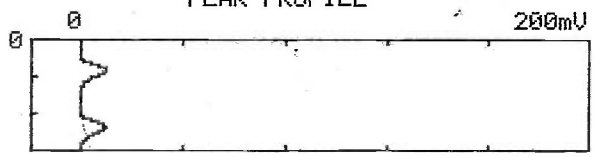
10 QP

TYPE : NPOC VIAL : 4
[INJ 50uL,C# TC3 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	44.77	9.913	TC3	50	1
2	45.44	10.06	TC3	50	1
MN	45.11	9.985			
SD	0.47	0.10			
CV	1.05 %	1.02 %			

10mg/L
QP ✓

PEAK PROFILE



DATE 10(OCT)-19-2012 09:30

ALAB : 00152

SAMPLE NAME : 1

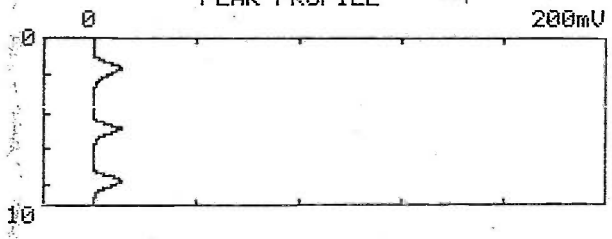
311995-2 MS Dup

TYPE : NPOC VIAL : 18
[INJ 50uL,C# TC3 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	46.40E	10.26	TC3	50	1
2	44.89	9.939	TC3	50	1
3	44.87	9.935	TC3	50	1
MN	44.88	9.937			
SD	0.01	0.00			
CV	0.03 %	0.03 %			

9.9 mgle
QP ✓

PEAK PROFILE



DATE 10(OCT)-19-2012 13:33

SAMPLE NAME : 1

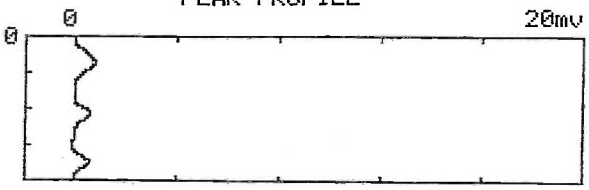
311995-2 Dup

TYPE : NPOC VIAL : 13
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	5.090E	0.616	TC2	80	1
2	2.835	0.313	TC2	80	1
3	2.870	0.318	TC2	80	1
MN	2.853	0.315			
SD	0.02	0.00			
CV	0.87 %	1.05 %			

ND<0.5 mgle
QP.

PEAK PROFILE



DATE 10(OCT)-19-2012 12:06

SAMPLE NAME : 1

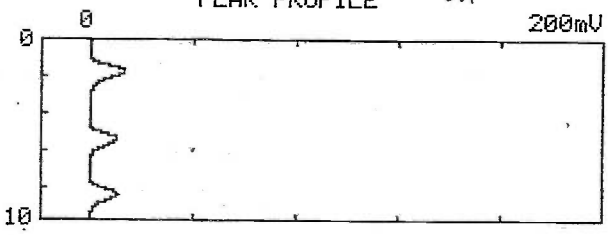
311195-2 MS

TYPE : NPOC VIAL : 11
[INJ 50uL,C# TC3 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	61.80E	13.56	TC3	50	1
2	44.66	9.890	TC3	50	1
3	45.09	9.982	TC3	50	1
MN	44.88	9.936			
SD	0.30	0.07			
CV	0.68 %	0.66 %			

9.9 mgle
QP.

PEAK PROFILE



DATE 10(OCT)-19-2012 11:30

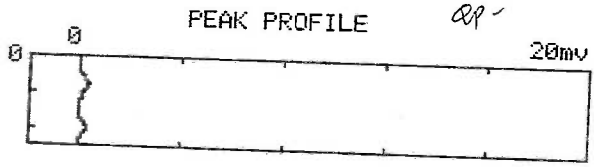
SAMPLE NAME : 1

TYPE : NPOC VIAL : 7 31 1995-2
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	1.459	0.129	TC2	80	1
2	1.388	0.119	TC2	80	1
MN	1.423	0.124			
SD	0.05	0.01			
CV	3.53 %	5.44 %			

ND<0.5mgle

PEAK PROFILE



DATE 10(OCT)-19-2012 10:19

ALAB : 00153

SAMPLE NAME : 1

2.5 QA

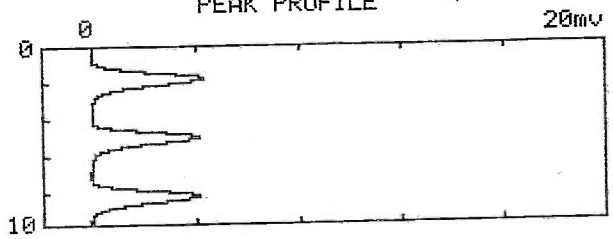
TYPE : NPOC VIAL : 5
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	21.27E	2.786	TC2	80	1
2	19.35	2.528	TC2	80	1
3	19.82	2.591	TC2	80	1
MN	19.59	2.560			
SD	0.33	0.04			
CV	1.70 %	1.74 %			

2.56 mg/L

QP

PEAK PROFILE



DATE 10(OCT)-19-2012 09:49

SAMPLE NAME : 1

BL

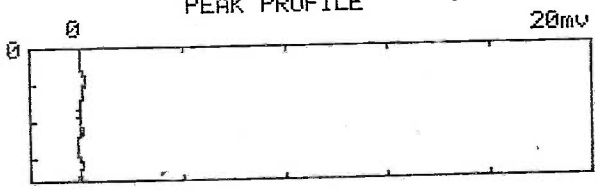
TYPE : NPOC VIAL : 6
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	0.829	0.044	TC2	80	1
2	0.000E	-0.067	TC2	80	1
3	0.573	0.010	TC2	80	1
MN	0.701	0.027			
SD	0.18	0.02			
CV	25.8 %	90.2 %			

ND<0.5 mg/L

QP ✓

PEAK PROFILE



DATE 10(OCT)-19-2012 10:04

SAMPLE NAME : 1

0.5 QA

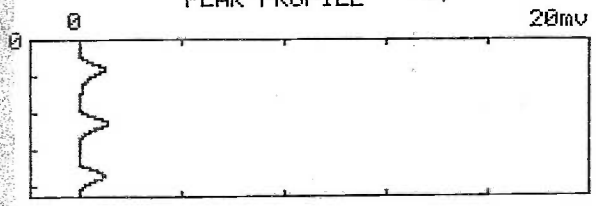
TYPE : NPOC VIAL : 24
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	4.444	0.529	TC2	80	1
2	5.067E	0.612	TC2	80	1
3	4.427	0.527	TC2	80	1
MN	4.436	0.528			
SD	0.01	0.00			
CV	0.27 %	0.31 %			

0.53 mg/L

QP.

PEAK PROFILE



DATE 10(OCT)-19-2012 15:28

SAMPLE NAME : 1

2.5 QA

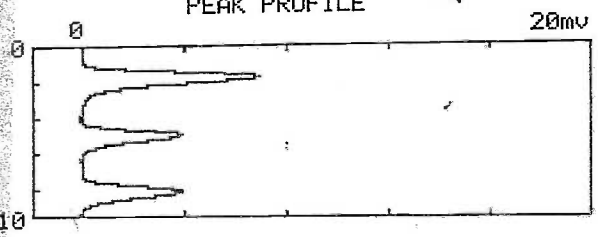
TYPE : NPOC VIAL : 25
[INJ 80uL,C# TC2 ,DL 1,SP 3.0min,
ACID 0.0%,#WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	32.17E	4.248	TC2	80	1
2	18.19	2.373	TC2	80	1
3	18.32	2.390	TC2	80	1
MN	18.26	2.382			
SD	0.09	0.01			
CV	0.50 %	0.52 %			

2.4 mg/L

QP.

PEAK PROFILE



DATE 10(OCT)-19-2012 15:46

ALAB : 00154

EPA 6010B/200.7

ICP Metals

ALAB : 00155

Associated Labs QCBatch BenchSheet

QCBatchID QC1130599

Created Date: 10/17/2012 14:22
Created By: nina
Matrix: Water

Instrument: AAICP (group)
PrepMethod: 3010A
PrepDate:
PrepBy:

Test: 200.7 Alab
Method: EPA 200.7
AnalysisDate: 10/17/2012 00:00
Analyst:

Seq #	Sample ID	QC #	Customer Sample ID	QC Source	Sur. Added (PH)	Spk. Added (APP)	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments 795°C
	Method Blank	1					25 mL	25 mL			10/16/12 - 12 Pm - 3:30 PM
	LCS	1									
#1	311995-010		B1CW17		<2	clear					
	MS	1		311995-010							
#1	312080-008		Equipment Blank								
#3	312080-013		B-1-CW12								
#2	312080-014		B-1-CW12 Duplicate								
#4	312094-002		B-1-CW20								

311995-002

InitialCalibSTD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
CalibCheckSTD: Sn(1115117)_Jan2013, W(1103408_Jan2013
InternalSTD: K(210125007)-Dec2015, Na(211025031)_Feb2016
SurrogateSTD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCSSTD: QC21(1201016)-FeB.2013, QC7(1204808)Feb.201 0.5 ml of QC7,21
MSSTD: 50PPM(6-15-12) 0.5 ml of 50 ppm

Solvent Manufacturer and Lot: HCl #411060
Sand Manufacturer and Lot: HNO3 # 112040
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

ALAB: 99156
LMC-PET-00000544
CONFIDENTIAL

Sequence No.: 90
Sample ID: 311995-002
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 10/17/2012 3:54:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-62.0	-0.0005	mg/L	0.00057	-0.0005	mg/L	0.00057	119.90%
Al 308.215	884.5	0.0258	mg/L	0.00388	0.0258	mg/L	0.00388	15.05%
As 188.979	-21.3	-0.0038	mg/L	0.00307	-0.0038	mg/L	0.00307	79.78%
B 249.677	-4021.4	-0.0455	mg/L	0.00088	-0.0455	mg/L	0.00088	1.93%
Ba 233.527	36.5	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	16.53%
Be 313.107	49.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	1.37%
Bi 223.061	15.5	0.0071	mg/L	0.00187	0.0071	mg/L	0.00187	26.18%
Bi 190.171	2.3	0.0028	mg/L	0.00265	0.0028	mg/L	0.00265	94.70%
Ca 315.887	170.5	0.0754	mg/L	0.00082	0.0754	mg/L	0.00082	1.09%
Ca 317.933	189.5	0.0706	mg/L	0.00242	0.0706	mg/L	0.00242	3.43%
Cd 214.440	-13.9	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	8.31%
Co 228.616	4.9	0.0002	mg/L	0.00033	0.0002	mg/L	0.00033	170.61%
Cr 267.716	62.4	0.0016	mg/L	0.00019	0.0016	mg/L	0.00019	11.57%
Cu 324.752	80.8	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	79.17%
Fe 238.204	439.7	0.0112	mg/L	0.00044	0.0112	mg/L	0.00044	3.92%
Fe 273.955	246.7	0.0148	mg/L	0.00008	0.0148	mg/L	0.00008	0.55%
K 766.490	186.4	0.0636	mg/L	0.09230	0.0636	mg/L	0.09230	145.12%
Mg 279.077	11.3	0.0468	mg/L	0.00698	0.0468	mg/L	0.00698	14.92%
Mn 257.610	208.4	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.22%
Mo 202.031	-1.8	-0.0004	mg/L	0.00067	-0.0004	mg/L	0.00067	169.59%
Na 589.592	599.0	0.0907	mg/L	0.00308	0.0907	mg/L	0.00308	3.40%
Na 330.237	3.3	0.4334	mg/L	0.76096	0.4334	mg/L	0.76096	175.56%
Ni 231.604	1.4	0.0001	mg/L	0.00051	0.0001	mg/L	0.00051	669.30%
Pb 220.353	47.6	0.0024	mg/L	0.00053	0.0024	mg/L	0.00053	21.98%
Sb 206.836	2.8	0.0025	mg/L	0.00234	0.0025	mg/L	0.00234	91.99%
Se 196.026	-74.5	-0.0095	mg/L	0.00189	-0.0095	mg/L	0.00189	19.85%
Sn 189.927	3.5	0.0012	mg/L	0.00037	0.0012	mg/L	0.00037	31.97%
Sr 407.771	199.4	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	49.57%
Sr 421.552	105.3	0.0004	mg/L	0.00029	0.0004	mg/L	0.00029	66.79%
Ti 334.940	-141.6	-0.0004	mg/L	0.00013	-0.0004	mg/L	0.00013	34.95%
Tl 190.801	-5.2	-0.0009	mg/L	0.00027	-0.0009	mg/L	0.00027	28.92%
V 290.880	-44.6	-0.0003	mg/L	0.00058	-0.0003	mg/L	0.00058	200.34%
W 207.912	0.8	0.0003	mg/L	0.00125	0.0003	mg/L	0.00125	394.40%
Y 371.029	1562.0						36.22	2.32%
Zn 206.200	458.5	0.0312	mg/L	0.00037	0.0312	mg/L	0.00037	1.19%
P 213.617	6.2	0.0045	mg/L	0.00095	0.0045	mg/L	0.00095	20.79%
Si 251.611	777.0	0.0198	mg/L	0.00084	0.0198	mg/L	0.00084	4.22%
Li 670.784	445.8	0.0068	mg/L	0.00605	0.0068	mg/L	0.00605	88.95%
Li 610.362	136.8	0.0198	mg/L	0.04407	0.0198	mg/L	0.04407	222.45%
S 181.975	13.3	0.0545	mg/L	0.00707	0.0545	mg/L	0.00707	12.97%

ALAB:00157

Date: 10/17/2012 4:04:11 PM

Sequence No.: 93
Sample ID: 311995-010
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 10/17/2012 4:02:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-45.7	-0.0004	mg/L	0.00191	-0.0004	mg/L	0.00191	542.58%
Al 308.215	1164.7	0.0340	mg/L	0.01184	0.0340	mg/L	0.01184	34.87%
As 188.979	73.3	0.0132	mg/L	0.00040	0.0132	mg/L	0.00040	3.02%
B 249.677	20039.2	0.2267	mg/L	0.01992	0.2267	mg/L	0.01992	8.79%
Ba 233.527	15888.8	0.1542	mg/L	0.00846	0.1542	mg/L	0.00846	5.49%
Be 313.107	2278.1	0.0010	mg/L	0.00017	0.0010	mg/L	0.00017	16.89%
Bi 223.061	18.9	0.0087	mg/L	0.00384	0.0087	mg/L	0.00384	44.23%
Bi 190.171	16.3	0.0201	mg/L	0.00044	0.0201	mg/L	0.00044	2.21%
Ca 315.887	266368.9	117.8	mg/L	4.56	117.8	mg/L	4.56	3.87%
Ca 317.933	316346.0	117.8	mg/L	4.83	117.8	mg/L	4.83	4.10%
Cd 214.440	-142.0	-0.0032	mg/L	0.00013	-0.0032	mg/L	0.00013	4.08%
Co 228.616	26.3	0.0010	mg/L	0.00034	0.0010	mg/L	0.00034	32.61%
Cr 267.716	1115.7	0.0289	mg/L	0.00121	0.0289	mg/L	0.00121	4.18%
Cu 324.752	1236.8	0.0042	mg/L	0.00089	0.0042	mg/L	0.00089	21.44%
Fe 238.204	2963.0	0.0752	mg/L	0.00367	0.0752	mg/L	0.00367	4.89%
Fe 273.955	1244.4	0.0747	mg/L	0.00332	0.0747	mg/L	0.00332	4.45%
K 766.490	16278.5	5.554	mg/L	0.3851	5.554	mg/L	0.3851	6.93%
Mg 279.077	8145.1	33.84	mg/L	0.128	33.84	mg/L	0.128	0.38%
Mn 257.610	1136.9	0.0026	mg/L	0.00002	0.0026	mg/L	0.00002	0.78%
Mo 202.031	50.4	0.0113	mg/L	0.00008	0.0113	mg/L	0.00008	0.73%
Na 589.592	260928.6	39.52	mg/L	1.099	39.52	mg/L	1.099	2.78%
Na 330.237	311.9	40.53	mg/L	0.589	40.53	mg/L	0.589	1.45%
Ni 231.604	35.8	0.0019	mg/L	0.00016	0.0019	mg/L	0.00016	8.38%
Pb 220.353	83.3	0.0042	mg/L	0.00302	0.0042	mg/L	0.00302	71.25%
Sb 206.836	-16.2	-0.0148	mg/L	0.00994	-0.0148	mg/L	0.00994	67.22%
Se 196.026	-97.9	-0.0125	mg/L	0.01194	-0.0125	mg/L	0.01194	95.54%
Sn 189.927	-47.6	-0.0155	mg/L	0.00025	-0.0155	mg/L	0.00025	1.63%
Sr 407.771	381575.8	0.8871	mg/L	0.02870	0.8871	mg/L	0.02870	3.24%
Sr 421.552	215076.0	0.8946	mg/L	0.03292	0.8946	mg/L	0.03292	3.68%
Ti 334.940	2907.8	0.0079	mg/L	0.00130	0.0079	mg/L	0.00130	16.47%
Tl 190.801	-48.1	-0.0087	mg/L	0.00513	-0.0087	mg/L	0.00513	58.93%
V 290.880	-191.3	-0.0012	mg/L	0.00373	-0.0012	mg/L	0.00373	300.11%
W 207.912	12.2	0.0049	mg/L	0.00132	0.0049	mg/L	0.00132	26.83%
Y 371.029	1611.7						267.01	16.57%
Zn 206.200	2712.4	0.1843	mg/L	0.00040	0.1843	mg/L	0.00040	0.22%
P 213.617	52.0	0.0382	mg/L	0.00393	0.0382	mg/L	0.00393	10.27%
Si 251.611	467022.7	11.91	mg/L	0.601	11.91	mg/L	0.601	5.05%
Li 670.784	-76.7	-0.0012	mg/L	0.00058	-0.0012	mg/L	0.00058	49.82%
Li 610.362	-2413.2	-0.3495	mg/L	0.12278	-0.3495	mg/L	0.12278	35.13%
S 181.975	8505.3	34.94	mg/L	0.257	34.94	mg/L	0.257	0.73%

ALAB:00158

Sequence No.: 91
Sample ID: Method Blank
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 101
Date Collected: 10/17/2012 3:57:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Method Blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-91.4	-0.0007	mg/L	0.00025	-0.0007	mg/L	0.00025	35.93%
Al 308.215	-259.6	-0.0076	mg/L	0.00051	-0.0076	mg/L	0.00051	6.68%
As 188.979	-6.1	-0.0011	mg/L	0.00374	-0.0011	mg/L	0.00374	339.83%
B 249.677	-4735.1	-0.0536	mg/L	0.00033	-0.0536	mg/L	0.00033	0.62%
Ba 233.527	-5.5	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	77.64%
Be 313.107	-105.5	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	298.40%
Bi 223.061	6.2	0.0029	mg/L	0.00422	0.0029	mg/L	0.00422	147.42%
Bi 190.171	0.6	0.0007	mg/L	0.00479	0.0007	mg/L	0.00479	652.33%
Ca 315.887	-19.7	-0.0087	mg/L	0.00186	-0.0087	mg/L	0.00186	21.26%
Ca 317.933	-18.5	-0.0069	mg/L	0.00108	-0.0069	mg/L	0.00108	15.64%
Cd 214.440	-9.4	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	27.83%
Co 228.616	5.4	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	102.78%
Cr 267.716	2.1	0.0001	mg/L	0.00044	0.0001	mg/L	0.00044	805.03%
Cu 324.752	-250.6	-0.0008	mg/L	0.00027	-0.0008	mg/L	0.00027	31.88%
Fe 238.204	-45.4	-0.0012	mg/L	0.00023	-0.0012	mg/L	0.00023	19.74%
Fe 273.955	65.0	0.0039	mg/L	0.00044	0.0039	mg/L	0.00044	11.22%
K 766.490	349.2	0.1191	mg/L	0.11091	0.1191	mg/L	0.11091	93.09%
Mg 279.077	7.5	0.0311	mg/L	0.02352	0.0311	mg/L	0.02352	75.74%
Mn 257.610	-68.2	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	12.36%
Mo 202.031	-2.2	-0.0005	mg/L	0.00071	-0.0005	mg/L	0.00071	141.62%
Na 589.592	647.1	0.0980	mg/L	0.02944	0.0980	mg/L	0.02944	30.04%
Na 330.237	-7.3	-0.9541	mg/L	1.38971	-0.9541	mg/L	1.38971	145.66%
Ni 231.604	-3.9	-0.0002	mg/L	0.00033	-0.0002	mg/L	0.00033	160.50%
Pb 220.353	8.8	0.0004	mg/L	0.00293	0.0004	mg/L	0.00293	653.81%
Sb 206.836	-13.6	-0.0124	mg/L	0.00265	-0.0124	mg/L	0.00265	21.30%
Se 196.026	-70.9	-0.0091	mg/L	0.01724	-0.0091	mg/L	0.01724	190.52%
Sn 189.927	1.7	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	7.54%
Sr 407.771	86.3	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	35.64%
Sr 421.552	3.2	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	968.31%
Ti 334.940	-98.0	-0.0003	mg/L	0.00014	-0.0003	mg/L	0.00014	53.93%
Tl 190.801	16.3	0.0030	mg/L	0.00069	0.0030	mg/L	0.00069	23.46%
V 290.880	-134.7	-0.0009	mg/L	0.00082	-0.0009	mg/L	0.00082	94.10%
W 207.912	41.4	0.0167	mg/L	0.00223	0.0167	mg/L	0.00223	13.37%
Y 371.029	1583.5						48.25	3.05%
Zn 206.200	2.9	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	12.96%
P 213.617	14.9	0.0110	mg/L	0.00404	0.0110	mg/L	0.00404	36.83%
Si 251.611	-33.0	-0.0008	mg/L	0.00014	-0.0008	mg/L	0.00014	16.08%
Li 670.784	160.1	0.0024	mg/L	0.00051	0.0024	mg/L	0.00051	20.82%
Li 610.362	96.6	0.0140	mg/L	0.05573	0.0140	mg/L	0.05573	398.49%
S 181.975	2.5	0.0102	mg/L	0.00647	0.0102	mg/L	0.00647	63.56%

ALAB:00159

Sequence No.: 92
Sample ID: LCS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 10/17/2012 3:59:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	132900.3	1.024	mg/L	0.0074	1.024	mg/L	0.0074	0.72%
Al 308.215	71056.6	2.072	mg/L	0.0278	2.072	mg/L	0.0278	1.34%
As 188.979	11726.7	2.118	mg/L	0.0107	2.118	mg/L	0.0107	0.50%
B 249.677	177396.0	2.007	mg/L	0.0165	2.007	mg/L	0.0165	0.82%
Ba 233.527	228124.6	2.215	mg/L	0.0233	2.215	mg/L	0.0233	1.05%
Be 313.107	4835060.2	2.185	mg/L	0.0557	2.185	mg/L	0.0557	2.55%
Bi 223.061	-118.9	-0.0548	mg/L	0.00504	-0.0548	mg/L	0.00504	9.21%
Bi 190.171	4.1	0.0051	mg/L	0.00059	0.0051	mg/L	0.00059	11.66%
Ca 315.887	5033.8	2.227	mg/L	0.0197	2.227	mg/L	0.0197	0.88%
Ca 317.933	5987.3	2.230	mg/L	0.0239	2.230	mg/L	0.0239	1.07%
Cd 214.440	91353.8	2.061	mg/L	0.0184	2.061	mg/L	0.0184	0.89%
Co 228.616	54666.3	2.141	mg/L	0.0072	2.141	mg/L	0.0072	0.34%
Cr 267.716	84369.0	2.186	mg/L	0.0137	2.186	mg/L	0.0137	0.63%
Cu 324.752	650941.7	2.185	mg/L	0.0535	2.185	mg/L	0.0535	2.45%
Fe 238.204	86269.7	2.189	mg/L	0.0233	2.189	mg/L	0.0233	1.06%
Fe 273.955	35870.3	2.154	mg/L	0.0038	2.154	mg/L	0.0038	0.18%
K 766.490	60898.8	20.78	mg/L	0.743	20.78	mg/L	0.743	3.57%
Mg 279.077	553.5	2.300	mg/L	0.0208	2.300	mg/L	0.0208	0.90%
Mn 257.610	969310.0	2.256	mg/L	0.0664	2.256	mg/L	0.0664	2.94%
Mo 202.031	8712.5	1.953	mg/L	0.0213	1.953	mg/L	0.0213	1.09%
Na 589.592	14961.6	2.266	mg/L	0.0692	2.266	mg/L	0.0692	3.05%
Na 330.237	-29.9	-3.890	mg/L	0.2234	-3.890	mg/L	0.2234	5.74%
Ni 231.604	40486.3	2.160	mg/L	0.0176	2.160	mg/L	0.0176	0.81%
Pb 220.353	41797.7	2.126	mg/L	0.0327	2.126	mg/L	0.0327	1.54%
Sb 206.836	2235.8	2.036	mg/L	0.0122	2.036	mg/L	0.0122	0.60%
Se 196.026	15683.0	2.002	mg/L	0.0142	2.002	mg/L	0.0142	0.71%
Sn 189.927	-24.2	-0.0079	mg/L	0.00182	-0.0079	mg/L	0.00182	23.17%
Sr 407.771	859357.0	1.998	mg/L	0.2072	1.998	mg/L	0.2072	10.37%
Sr 421.552	485149.1	2.018	mg/L	0.2092	2.018	mg/L	0.2092	10.36%
Ti 334.940	847895.0	2.303	mg/L	0.0541	2.303	mg/L	0.0541	2.35%
Tl 190.801	11970.5	2.165	mg/L	0.0061	2.165	mg/L	0.0061	0.28%
V 290.880	348675.2	2.257	mg/L	0.0511	2.257	mg/L	0.0511	2.26%
W 207.912	43.5	0.0176	mg/L	0.00053	0.0176	mg/L	0.00053	3.00%
Y 371.029	1411.9						76.29	5.40%
Zn 206.200	31409.4	2.134	mg/L	0.0287	2.134	mg/L	0.0287	1.35%
P 213.617	-3766.4	-2.771	mg/L	0.0730	-2.771	mg/L	0.0730	2.63%
Si 251.611	81639.4	2.081	mg/L	0.0240	2.081	mg/L	0.0240	1.15%
Li 670.784	143847.4	2.193	mg/L	0.0910	2.193	mg/L	0.0910	4.15%
Li 610.362	15436.8	2.235	mg/L	0.0927	2.235	mg/L	0.0927	4.15%
S 181.975	17.6	0.0723	mg/L	0.01359	0.0723	mg/L	0.01359	18.79%

CONFIDENTIAL

Sequence No.: 94
Sample ID: MS
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 10/17/2012 4:05:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	71011.7	0.5469	mg/L	0.02065	0.5469	mg/L	0.02065	3.78%
Al 308.215	39618.8	1.155	mg/L	0.0610	1.155	mg/L	0.0610	5.28%
As 188.979	5952.0	1.075	mg/L	0.0223	1.075	mg/L	0.0223	2.07%
B 249.677	122594.5	1.387	mg/L	0.0653	1.387	mg/L	0.0653	4.71%
Ba 233.527	135010.1	1.311	mg/L	0.0564	1.311	mg/L	0.0564	4.30%
Be 313.107	2330709.5	1.053	mg/L	0.0289	1.053	mg/L	0.0289	2.74%
Bi 223.061	-38.0	-0.0175	mg/L	0.00354	-0.0175	mg/L	0.00354	20.24%
Bi 190.171	13.2	0.0163	mg/L	0.00114	0.0163	mg/L	0.00114	6.95%
Ca 315.887	285881.8	126.5	mg/L	0.07	126.5	mg/L	0.07	0.05%
Ca 317.933	341042.3	127.0	mg/L	0.49	127.0	mg/L	0.49	0.39%
Cd 214.440	45905.7	1.036	mg/L	0.0364	1.036	mg/L	0.0364	3.51%
Co 228.616	25881.7	1.014	mg/L	0.0376	1.014	mg/L	0.0376	3.71%
Cr 267.716	44163.4	1.144	mg/L	0.0397	1.144	mg/L	0.0397	3.47%
Cu 324.752	311942.9	1.047	mg/L	0.0380	1.047	mg/L	0.0380	3.63%
Fe 238.204	49711.2	1.261	mg/L	0.0516	1.261	mg/L	0.0516	4.09%
Fe 273.955	20560.9	1.235	mg/L	0.0605	1.235	mg/L	0.0605	4.90%
K 766.490	49283.5	16.82	mg/L	0.111	16.82	mg/L	0.111	0.66%
Mg 279.077	8966.8	37.25	mg/L	0.184	37.25	mg/L	0.184	0.49%
Mn 257.610	448215.8	1.043	mg/L	0.0236	1.043	mg/L	0.0236	2.27%
Mo 202.031	4336.8	0.9723	mg/L	0.00507	0.9723	mg/L	0.00507	0.52%
Na 589.592	285717.2	43.28	mg/L	0.358	43.28	mg/L	0.358	0.83%
Ni 330.237	318.7	41.42	mg/L	0.562	41.42	mg/L	0.562	1.36%
Pb 231.604	19364.7	1.033	mg/L	0.0366	1.033	mg/L	0.0366	3.55%
Sb 220.353	19320.0	0.9826	mg/L	0.00626	0.9826	mg/L	0.00626	0.64%
Se 206.836	1076.3	0.9799	mg/L	0.01175	0.9799	mg/L	0.01175	1.20%
Se 196.026	7668.4	0.9789	mg/L	0.00782	0.9789	mg/L	0.00782	0.80%
Si 189.927	-51.7	-0.0168	mg/L	0.00319	-0.0168	mg/L	0.00319	19.01%
Sr 407.771	839275.4	1.951	mg/L	0.0382	1.951	mg/L	0.0382	1.96%
Sr 421.552	473196.2	1.968	mg/L	0.0347	1.968	mg/L	0.0347	1.76%
Ti 334.940	403804.3	1.097	mg/L	0.0372	1.097	mg/L	0.0372	3.39%
Tl 190.801	5484.4	0.9919	mg/L	0.00168	0.9919	mg/L	0.00168	0.17%
V 290.880	170121.2	1.101	mg/L	0.0441	1.101	mg/L	0.0441	4.01%
Zn 207.912	29.4	0.0119	mg/L	0.00062	0.0119	mg/L	0.00062	5.20%
Zr 371.029	1543.0						139.45	9.04%
Al 206.200	18439.3	1.253	mg/L	0.0481	1.253	mg/L	0.0481	3.84%
Ba 213.617	-1658.2	-1.220	mg/L	0.0048	-1.220	mg/L	0.0048	0.40%
Cr 251.611	541051.4	13.79	mg/L	0.196	13.79	mg/L	0.196	1.42%
Mn 670.784	71183.6	1.085	mg/L	0.0228	1.085	mg/L	0.0228	2.10%
Ni 610.362	5835.9	0.8451	mg/L	0.04375	0.8451	mg/L	0.04375	5.18%
Pb 81.975	9002.1	36.98	mg/L	0.117	36.98	mg/L	0.117	0.32%

ALAB:00161

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130580
Created Date: 10/17/2012 09:35
Created By: metha
Matrix: Water

Instrument: AAICP (group)
PrepMethod: EPA 3010A/Filtered
PrepDate:
PrepBy: metha

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

Seq #	Sample ID	QC #	Customer Sample ID	QC Source	Sur Added (PH)	Spk Added (APP)	Init Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
0	Method Blank	1					25 ml	25 ml	10/16/12 –	12:30 pm - 4 Pm	
1	LCS	1									
2 #1	311995-007		C-1-CW05		<2	check					
3	MS	1		311995-007							
4	MSD	1	CV	311995-007							
5 #1	311995-002		Equipment Blank								
6 #2	311995-009		3851M								
7 #1	311995-010		B1CW17								
8 #1	311995-011		B-1-CW17 Duplicate								
9 #5	312159-003		MW-4								
10 #4	312159-004		MW-7 Cr TL								
11 #2	312159-005		A-1-CW07								
12 #4	312159-006		EB101512 Equip Blank								

InitialCalibSTD: Ca(210081119)_Sep2015, Mg(b8095018-1A)Sep20
CalibCheckSTD: Sn(1115117)_Jan2013, W(1103408_Jan2013
InternalSTD: K(210125007)-Dec2015, Na(211025031)_Feb2016
SurrogateSTD: Bi(1101109)_Jan2013, Si(1102515)_Jan2013
LCSSTD: QC21(1201016)-FeB.2013, QC7(1204808)Feb.201 0.5 ml of QC7, 21
MSSTD: 50PPM(6-15-12) 0.5 ml of 50 ppm

Solvent Manufacturer and Lot: HCl # 411060
Sand Manufacturer and Lot: HNO3 # 112040
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

ALAB : 001152

LMC-PET-00000550

CONFIDENTIAL

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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:00163

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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:00164

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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:00165

Sequence No.: 38
Sample ID: 311995-002
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 10/17/2012 1:04:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	113.7	0.0009	mg/L	0.00019	0.0009	mg/L	0.00019	21.39%
Al 308.215	415.4	0.0121	mg/L	0.00409	0.0121	mg/L	0.00409	33.74%
As 188.979	12.7	0.0023	mg/L	0.00334	0.0023	mg/L	0.00334	146.06%
B 249.677	-1754.4	-0.0198	mg/L	0.00034	-0.0198	mg/L	0.00034	1.71%
Ba 233.527	40.3	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.33%
Be 313.107	504.8	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.32%
Bi 223.061	12.9	0.0059	mg/L	0.00368	0.0059	mg/L	0.00368	62.15%
Bi 190.171	-1.0	-0.0012	mg/L	0.00191	-0.0012	mg/L	0.00191	160.05%
Ca 315.887	128.8	0.0635	mg/L	0.00218	0.0635	mg/L	0.00218	3.44%
Ca 317.933	152.3	0.0635	mg/L	0.00448	0.0635	mg/L	0.00448	7.05%
Cd 214.440	8.4	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	28.92%
Co 228.616	7.8	0.0003	mg/L	0.00029	0.0003	mg/L	0.00029	95.27%
Cr 267.716	128.4	0.0033	mg/L	0.00003	0.0033	mg/L	0.00003	0.95%
Cu 324.752	226.7	0.0008	mg/L	0.00000	0.0008	mg/L	0.00000	0.62%
Fe 238.204	444.9	0.0113	mg/L	0.00018	0.0113	mg/L	0.00018	1.61%
Fe 273.955	256.1	0.0154	mg/L	0.00001	0.0154	mg/L	0.00001	0.04%
K 766.490	-277.0	-0.1049	mg/L	0.13542	-0.1049	mg/L	0.13542	129.14%
Mg 279.077	6.2	0.0275	mg/L	0.03321	0.0275	mg/L	0.03321	120.81%
Mn 257.610	421.6	0.0010	mg/L	0.00001	0.0010	mg/L	0.00001	0.65%
Mo 202.031	6.1	0.0014	mg/L	0.00024	0.0014	mg/L	0.00024	17.84%
Na 589.592	534.0	0.0899	mg/L	0.00068	0.0899	mg/L	0.00068	0.75%
Na 330.237	1.4	0.1891	mg/L	0.94290	0.1891	mg/L	0.94290	498.50%
Ni 231.604	-0.2	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%
Pb 220.353	121.2	0.0062	mg/L	0.00013	0.0062	mg/L	0.00013	2.18%
Sb 206.836	32.1	0.0292	mg/L	0.00285	0.0292	mg/L	0.00285	9.73%
Se 196.026	-56.9	-0.0073	mg/L	0.01333	-0.0073	mg/L	0.01333	183.45%
Sn 189.927	9.8	0.0032	mg/L	0.00183	0.0032	mg/L	0.00183	57.16%
Sr 407.771	224.2	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	10.17%
Sr 421.552	103.6	0.0004	mg/L	0.00018	0.0004	mg/L	0.00018	41.20%
Ti 334.940	154.1	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	33.19%
Tl 190.801	14.5	0.0026	mg/L	0.00172	0.0026	mg/L	0.00172	65.79%
V 290.880	87.7	0.0006	mg/L	0.00044	0.0006	mg/L	0.00044	78.15%
W 207.912	0.7	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	85.22%
Y 371.029	1616.2						21.02	1.30%
Zn 206.200	174.7	0.0119	mg/L	0.00023	0.0119	mg/L	0.00023	1.97%
P 213.617	6.9	0.0051	mg/L	0.00324	0.0051	mg/L	0.00324	63.60%
Si 251.611	315.8	0.0081	mg/L	0.00039	0.0081	mg/L	0.00039	4.86%
Li 670.784	155.7	0.0024	mg/L	0.00441	0.0024	mg/L	0.00441	185.71%
Li 610.362	109.2	0.0158	mg/L	0.00045	0.0158	mg/L	0.00045	2.85%
S 181.975	5.8	0.0240	mg/L	0.01628	0.0240	mg/L	0.01628	67.77%

Sequence No.: 39
Sample ID: 311995-009
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 10/17/2012 1:06:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-009

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	339.6	0.0026	mg/L	0.00023	0.0026	mg/L	0.00023	8.77%
Al 308.215	1350.2	0.0394	mg/L	0.01428	0.0394	mg/L	0.01428	36.27%
As 188.979	99.7	0.0180	mg/L	0.00279	0.0180	mg/L	0.00279	15.49%
B 249.677	15755.0	0.1782	mg/L	0.01050	0.1782	mg/L	0.01050	5.89%
Ba 233.527	15240.9	0.1480	mg/L	0.00863	0.1480	mg/L	0.00863	5.83%
Be 313.107	341.6	0.0002	mg/L	0.00061	0.0002	mg/L	0.00061	394.13%
Bi 223.061	16.6	0.0076	mg/L	0.00136	0.0076	mg/L	0.00136	17.82%
Bi 190.171	15.6	0.0192	mg/L	0.00052	0.0192	mg/L	0.00052	2.71%
Ca 315.887	264299.9	130.4	mg/L	4.15	130.4	mg/L	4.15	3.18%
Ca 317.933	310923.5	129.8	mg/L	3.67	129.8	mg/L	3.67	2.83%
Cd 214.440	-143.2	-0.0032	mg/L	0.00007	-0.0032	mg/L	0.00007	2.31%
Co 228.616	11.4	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	16.12%
Cr 267.716	206.3	0.0053	mg/L	0.00004	0.0053	mg/L	0.00004	0.71%
Cu 324.752	663.6	0.0022	mg/L	0.00064	0.0022	mg/L	0.00064	28.70%
Fe 238.204	448.8	0.0114	mg/L	0.00004	0.0114	mg/L	0.00004	0.31%
Fe 273.955	190.5	0.0114	mg/L	0.00089	0.0114	mg/L	0.00089	7.75%
K 766.490	15191.2	5.752	mg/L	0.0519	5.752	mg/L	0.0519	0.90%
Mg 279.077	7051.4	31.51	mg/L	0.057	31.51	mg/L	0.057	0.18%
Mn 257.610	400.9	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	2.98%
Mo 202.031	41.7	0.0094	mg/L	0.00057	0.0094	mg/L	0.00057	6.04%
Na 589.592	221832.7	37.34	mg/L	0.724	37.34	mg/L	0.724	1.94%
Na 330.237	263.0	36.37	mg/L	0.499	36.37	mg/L	0.499	1.37%
Ni 231.604	4.9	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	79.38%
Pb 220.353	87.4	0.0044	mg/L	0.00168	0.0044	mg/L	0.00168	37.80%
Sb 206.836	9.8	0.0090	mg/L	0.00180	0.0090	mg/L	0.00180	20.04%
Se 196.026	-94.2	-0.0120	mg/L	0.01453	-0.0120	mg/L	0.01453	120.81%
Sn 189.927	-90.4	-0.0294	mg/L	0.00086	-0.0294	mg/L	0.00086	2.94%
Sr 407.771	387891.2	0.9017	mg/L	0.03170	0.9017	mg/L	0.03170	3.52%
Sr 421.552	218504.6	0.9089	mg/L	0.02647	0.9089	mg/L	0.02647	2.91%
Ti 334.940	2156.2	0.0059	mg/L	0.00143	0.0059	mg/L	0.00143	24.35%
Tl 190.801	-59.4	-0.0107	mg/L	0.00612	-0.0107	mg/L	0.00612	57.06%
V 290.880	367.1	0.0024	mg/L	0.00248	0.0024	mg/L	0.00248	104.37%
W 207.912	20.2	0.0082	mg/L	0.00014	0.0082	mg/L	0.00014	1.73%
Y 371.029	1757.0						114.88	6.54%
Zn 206.200	2243.1	0.1524	mg/L	0.00178	0.1524	mg/L	0.00178	1.17%
P 213.617	37.8	0.0278	mg/L	0.00869	0.0278	mg/L	0.00869	31.24%
Si 251.611	462747.2	11.80	mg/L	0.596	11.80	mg/L	0.596	5.06%
Li 670.784	21.6	0.0003	mg/L	0.00490	0.0003	mg/L	0.00490	>999.9%
Li 610.362	-2125.9	-0.3079	mg/L	0.00500	-0.3079	mg/L	0.00500	1.62%
S 181.975	6496.6	26.69	mg/L	0.292	26.69	mg/L	0.292	1.10%

Sequence No.: 40
Sample ID: 311995-010
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 10/17/2012 1:09:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-010

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	16.3	0.0001	mg/L	0.00085	0.0001	mg/L	0.00085	676.42%
Al 308.215	438.0	0.0128	mg/L	0.00327	0.0128	mg/L	0.00327	25.62%
As 188.979	118.0	0.0213	mg/L	0.00516	0.0213	mg/L	0.00516	24.20%
B 249.677	23379.4	0.2645	mg/L	0.00526	0.2645	mg/L	0.00526	1.99%
Ba 233.527	16820.8	0.1633	mg/L	0.00362	0.1633	mg/L	0.00362	2.22%
Be 313.107	-538.9	-0.0002	mg/L	0.00028	-0.0002	mg/L	0.00028	116.04%
Bi 223.061	21.1	0.0097	mg/L	0.00431	0.0097	mg/L	0.00431	44.44%
Bi 190.171	16.5	0.0204	mg/L	0.00265	0.0204	mg/L	0.00265	13.02%
Ca 315.887	261482.8	129.0	mg/L	2.30	129.0	mg/L	2.30	1.79%
Ca 317.933	308238.4	128.7	mg/L	2.60	128.7	mg/L	2.60	2.02%
Cd 214.440	-147.7	-0.0033	mg/L	0.00005	-0.0033	mg/L	0.00005	1.43%
Co 228.616	11.0	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	102.02%
Cr 267.716	1039.9	0.0269	mg/L	0.00010	0.0269	mg/L	0.00010	0.37%
Cu 324.752	257.7	0.0009	mg/L	0.00057	0.0009	mg/L	0.00057	66.18%
Fe 238.204	307.1	0.0078	mg/L	0.00001	0.0078	mg/L	0.00001	0.09%
Fe 273.955	139.0	0.0083	mg/L	0.00043	0.0083	mg/L	0.00043	5.17%
K 766.490	16218.1	6.140	mg/L	0.3623	6.140	mg/L	0.3623	5.90%
Mg 279.077	8200.4	36.64	mg/L	0.032	36.64	mg/L	0.032	0.09%
Mn 257.610	495.7	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	3.27%
Mo 202.031	45.6	0.0102	mg/L	0.00021	0.0102	mg/L	0.00021	2.04%
Na 589.592	258416.6	43.50	mg/L	1.221	43.50	mg/L	1.221	2.81%
Na 330.237	321.6	44.48	mg/L	0.927	44.48	mg/L	0.927	2.08%
Ni 231.604	5.7	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	1.97%
Pb 220.353	125.0	0.0064	mg/L	0.00146	0.0064	mg/L	0.00146	22.97%
Sb 206.836	10.2	0.0093	mg/L	0.00211	0.0093	mg/L	0.00211	22.69%
Se 196.026	-86.7	-0.0111	mg/L	0.00383	-0.0111	mg/L	0.00383	34.57%
Sn 189.927	-93.0	-0.0302	mg/L	0.00059	-0.0302	mg/L	0.00059	1.96%
Sr 407.771	371594.6	0.8639	mg/L	0.01703	0.8639	mg/L	0.01703	1.97%
Sr 421.552	210852.3	0.8770	mg/L	0.02095	0.8770	mg/L	0.02095	2.39%
Ti 334.940	2888.8	0.0078	mg/L	0.00021	0.0078	mg/L	0.00021	2.64%
Tl 190.801	-28.4	-0.0051	mg/L	0.00023	-0.0051	mg/L	0.00023	4.53%
V 290.880	285.6	0.0018	mg/L	0.00085	0.0018	mg/L	0.00085	46.07%
W 207.912	14.1	0.0057	mg/L	0.00007	0.0057	mg/L	0.00007	1.20%
Y 371.029	1722.8						207.58	12.05%
Zn 206.200	2800.2	0.1903	mg/L	0.00070	0.1903	mg/L	0.00070	0.37%
P 213.617	68.7	0.0506	mg/L	0.00049	0.0506	mg/L	0.00049	0.97%
Si 251.611	517155.1	13.18	mg/L	0.159	13.18	mg/L	0.159	1.20%
Li 670.784	673.4	0.0103	mg/L	0.00298	0.0103	mg/L	0.00298	29.04%
Li 610.362	-2268.6	-0.3285	mg/L	0.05764	-0.3285	mg/L	0.05764	17.54%
S 181.975	8741.8	35.91	mg/L	0.126	35.91	mg/L	0.126	0.35%

ALAB:00168

Sequence No.: 41
Sample ID: 311995-011
Analyst: nina
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 10/17/2012 1:12:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 311995-011

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	311.7	0.0024	mg/L	0.00100	0.0024	mg/L	0.00100	41.50%
Al 308.215	1130.7	0.0330	mg/L	0.00741	0.0330	mg/L	0.00741	22.47%
As 188.979	77.5	0.0140	mg/L	0.01144	0.0140	mg/L	0.01144	81.74%
B 249.677	21409.4	0.2422	mg/L	0.00873	0.2422	mg/L	0.00873	3.61%
Ba 233.527	16086.3	0.1562	mg/L	0.00248	0.1562	mg/L	0.00248	1.59%
Be 313.107	-197.6	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	75.96%
Bi 223.061	25.5	0.0117	mg/L	0.00838	0.0117	mg/L	0.00838	71.49%
Bi 190.171	11.4	0.0141	mg/L	0.00179	0.0141	mg/L	0.00179	12.68%
Ca 315.887	247871.7	122.3	mg/L	6.07	122.3	mg/L	6.07	4.96%
Ca 317.933	293219.8	122.4	mg/L	5.31	122.4	mg/L	5.31	4.34%
Cd 214.440	-159.7	-0.0036	mg/L	0.00000	-0.0036	mg/L	0.00000	0.11%
Co 228.616	20.3	0.0008	mg/L	0.00042	0.0008	mg/L	0.00042	53.21%
Cr 267.716	1024.2	0.0265	mg/L	0.00036	0.0265	mg/L	0.00036	1.36%
Cu 324.752	329.5	0.0011	mg/L	0.00065	0.0011	mg/L	0.00065	58.36%
Fe 238.204	497.9	0.0126	mg/L	0.00017	0.0126	mg/L	0.00017	1.37%
Fe 273.955	212.0	0.0127	mg/L	0.00076	0.0127	mg/L	0.00076	5.96%
K 766.490	15169.5	5.743	mg/L	0.0523	5.743	mg/L	0.0523	0.91%
Mg 279.077	7942.7	35.49	mg/L	0.317	35.49	mg/L	0.317	0.89%
Mn 257.610	389.9	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	2.85%
Mo 202.031	43.3	0.0097	mg/L	0.00001	0.0097	mg/L	0.00001	0.12%
Na 589.592	245917.3	41.40	mg/L	1.808	41.40	mg/L	1.808	4.37%
Na 330.237	313.0	43.29	mg/L	0.473	43.29	mg/L	0.473	1.09%
Ni 231.604	4.1	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	36.57%
Pb 220.353	92.6	0.0047	mg/L	0.00070	0.0047	mg/L	0.00070	14.82%
Sb 206.836	-1.2	-0.0011	mg/L	0.00123	-0.0011	mg/L	0.00123	116.15%
Se 196.026	-182.0	-0.0232	mg/L	0.03387	-0.0232	mg/L	0.03387	145.78%
Sn 189.927	-101.0	-0.0328	mg/L	0.00148	-0.0328	mg/L	0.00148	4.52%
Sr 407.771	353199.6	0.8211	mg/L	0.03786	0.8211	mg/L	0.03786	4.61%
Sr 421.552	199855.5	0.8313	mg/L	0.03236	0.8313	mg/L	0.03236	3.89%
Ti 334.940	2216.2	0.0060	mg/L	0.00084	0.0060	mg/L	0.00084	13.95%
Tl 190.801	-76.2	-0.0138	mg/L	0.00190	-0.0138	mg/L	0.00190	13.83%
V 290.880	377.4	0.0024	mg/L	0.00392	0.0024	mg/L	0.00392	160.63%
W 207.912	18.4	0.0074	mg/L	0.00056	0.0074	mg/L	0.00056	7.61%
Y 371.029	1529.4						86.48	5.65%
Zn 206.200	2694.8	0.1831	mg/L	0.00011	0.1831	mg/L	0.00011	0.06%
P 213.617	58.7	0.0432	mg/L	0.00752	0.0432	mg/L	0.00752	17.41%
Si 251.611	483332.2	12.32	mg/L	0.015	12.32	mg/L	0.015	0.13%
Li 670.784	358.0	0.0055	mg/L	0.00487	0.0055	mg/L	0.00487	89.24%
Li 610.362	-1772.2	-0.2566	mg/L	0.04110	-0.2566	mg/L	0.04110	16.01%
S 181.975	8390.2	34.47	mg/L	0.058	34.47	mg/L	0.058	0.17%

ALAB:00169

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 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.: 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 Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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:00170

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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:00171

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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 : 00173

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%

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	

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.
1			
2			
3			
4			
5			
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63			

CONFIDENTIAL LMC-PET-00000564

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	

ALAB : 00177

CONFIDENTIAL LMC-PET-00000565

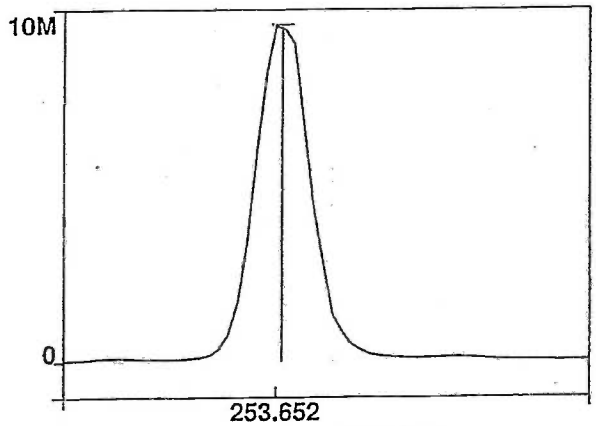
Spectra

Method: Hg_ReAlign
Result:

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



Intensity: 9577043.3 cps
Conc:

ALAB : 00178

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

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

.0/17/2012 8:18:25 AM aligned for analyte Mn 257.610
: viewing position set to 0.0 mm having Peak intensity 1028928.4 for Axial viewing
: viewing position set to 14.5 mm having Peak intensity 1028928.4 for Axial viewing

ılign View XY Axial for analyte Mn 257.610

:-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

ALAB : 00179

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
(viewing position set to 0.0 mm having Peak intensity 1051600.6 for Axial viewing
(viewing position set to 15.5 mm having Peak intensity 1051600.6 for Axial viewing

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Align View XY Axial for analyte Mn 257.610

(-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
[illegible]	[illegible]	812658.1

ALAB:00180

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

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ALAB:00181

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nalysis Begun

tart Time: 10/17/2012 8:54:09 AM
ogged In Analyst: kedy
pectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 7:49:05 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

ample Information File: C:\pe\Administrator\Sample Information\10-17-12.sid
atch ID: 10-17-12
esults Data Set: 10-17-12
esults Library: C:\pe\Administrator\Results\Results.mdb

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equence No.: 1
ample ID: Calib Blank 1
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 1
Date Collected: 10/17/2012 8:54:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

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ean Data: Calib Blank 1

nalyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	614.6	43.21	7.03%	[0.00]	mg/L
l 308.215	3016.3	79.38	2.63%	[0.00]	mg/L
s 188.979	23.9	17.43	73.07%	[0.00]	mg/L
249.677	167.9	15.16	9.03%	[0.00]	mg/L
a 233.527	-72.0	3.97	5.51%	[0.00]	mg/L
e 313.107	-3501.9	120.01	3.43%	[0.00]	mg/L
i 223.061	-44.0	6.08	13.82%	[0.00]	mg/L
i 190.171	10.2	2.17	21.36%	[0.00]	mg/L
a 315.887	38.4	2.27	5.92%	[0.00]	mg/L
a 317.933	140.6	3.85	2.74%	[0.00]	mg/L
d 214.440	20.8	0.96	4.64%	[0.00]	mg/L
o 228.616	-35.9	3.30	9.19%	[0.00]	mg/L
r 267.716	-65.7	5.79	8.81%	[0.00]	mg/L
u 324.752	2240.7	82.03	3.66%	[0.00]	mg/L
e 238.204	106.6	1.38	1.30%	[0.00]	mg/L
e 273.955	-368.5	1.73	0.47%	[0.00]	mg/L
766.490	-473.5	80.16	16.93%	[0.00]	mg/L
g 279.077	-37.3	0.34	0.92%	[0.00]	mg/L
n 257.610	312.0	2.98	0.95%	[0.00]	mg/L
o 202.031	-3.0	0.64	20.93%	[0.00]	mg/L
a 589.592	706.2	136.06	19.27%	[0.00]	mg/L
a 330.237	29.0	9.82	33.87%	[0.00]	mg/L
i 231.604	-9.4	9.35	99.39%	[0.00]	mg/L
b 220.353	-85.3	7.32	8.58%	[0.00]	mg/L
b 206.836	-12.8	5.57	43.67%	[0.00]	mg/L
e 196.026	19.2	92.48	482.76%	[0.00]	mg/L
n 189.927	-10.7	5.91	55.17%	[0.00]	mg/L
r 407.771	59.9	1.28	2.14%	[0.00]	mg/L
r 421.552	149.4	68.91	46.13%	[0.00]	mg/L
i 334.940	-1227.7	276.62	22.53%	[0.00]	mg/L
l 190.801	21.7	21.80	100.27%	[0.00]	mg/L
290.880	3597.4	48.58	1.35%	[0.00]	mg/L
207.912	19.0	0.40	2.11%	[0.00]	mg/L
n 206.200	3.6	2.23	62.33%	[0.00]	mg/L
213.617	-4.4	5.82	132.85%	[0.00]	mg/L
i 251.611	476.6	101.18	21.23%	[0.00]	mg/L
i 670.784	342.7	226.12	65.98%	[0.00]	mg/L
i 610.362	-3034.9	306.71	10.11%	[0.00]	mg/L
181.975	6.7	0.44	6.53%	[0.00]	mg/L

ALAB : 00182

lequence No.: 2
lample ID: ICP STD1-0.05PPM(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

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

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

nalyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
l 308.215	1277.2	290.87	22.77%	[0.05]	mg/L
s 188.979	298.9	5.88	1.97%	[0.05]	mg/L
249.677	4524.8	11.31	0.25%	[0.05]	mg/L
a 233.527	5800.4	200.91	3.46%	[0.05]	mg/L
e 313.107	113036.3	4185.41	3.70%	[0.05]	mg/L
d 214.440	2411.9	10.23	0.42%	[0.05]	mg/L
o 228.616	1403.0	3.23	0.23%	[0.05]	mg/L
r 267.716	2057.9	4.14	0.20%	[0.05]	mg/L
u 324.752	16152.7	816.33	5.05%	[0.05]	mg/L
e 238.204	2155.5	16.35	0.76%	[0.05]	mg/L
e 273.955	935.5	11.03	1.18%	[0.05]	mg/L
n 257.610	25431.5	796.36	3.13%	[0.05]	mg/L
o 202.031	230.7	4.00	1.73%	[0.05]	mg/L
i 231.604	1007.4	0.10	0.01%	[0.05]	mg/L
b 220.353	1070.7	15.22	1.42%	[0.05]	mg/L
b 206.836	64.2	4.79	7.46%	[0.05]	mg/L
e 196.026	358.4	13.01	3.63%	[0.05]	mg/L
i 334.940	19946.1	880.41	4.41%	[0.05]	mg/L
l 190.801	284.4	18.40	6.47%	[0.05]	mg/L
290.880	8266.1	416.88	5.04%	[0.05]	mg/L
n 206.200	799.3	10.00	1.25%	[0.05]	mg/L

ALAB:00183

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
In 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
Li 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

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
Zn 207.912	12518.4	74.28	0.59%	[5]	mg/L
Sn 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
Si 181.975	2441.2	24.64	1.01%	[10.00]	mg/L

ALAB:00185

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	Conc.	Calib Units
Ag 328.068	261303.6	602.03	0.23%	[2.00]	mg/L

ALAB:00186

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.	Calib Units
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	
Y 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	
Si 670.784	1	Lin Thru 0	0.0	69030	0.00000	1.000000	
Si 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	

ALAB:00187

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%								
Zn 207.912	44.1	0.0176	mg/L	0.00065	0.0176	mg/L	0.00065	3.70%
Zn 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%								
Al 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%								
Si 670.784	65949.8	0.9554	mg/L	0.05723	0.9554	mg/L	0.05723	5.99%
Si 610.362	7192.6	1.023	mg/L	0.1809	1.023	mg/L	0.1809	17.69%

'equence No.: 9
'ample ID: ICP_ICB(Daily)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 8
Date Collected: 10/17/2012 9:18:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

'ean Data: ICP_ICB(Daily)

nalyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
g 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								
l 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								
s 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								
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								
a 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								
e 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								
i 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								
i 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								
a 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								
a 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								
d 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								
o 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								
r 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								
u 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								
e 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								
e 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								
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								
g 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								
n 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								
o 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								
a 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								
a 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								
i 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								
o 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								
o 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								
e 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								
n 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								
r 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								
r 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								
i 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								
l 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								

ALAB:00189

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.

ALAB : 00190

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
V 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%
Zn 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 : 00191

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)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
V 207.912	2.9	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	10.60%
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%
213.617	-3.6	-0.0027	mg/L	0.00083	-0.0027	mg/L	0.00083	30.76%
Li 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%
181.975	-8.6	-0.0353	mg/L	0.02734	-0.0353	mg/L	0.02734	77.39%

QC Failed. Continue with analysis.

ALAB:00192

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
Zn 207.912	169.8	0.0678	mg/L	0.00203	0.0678	mg/L	0.00203	2.99%
Zr 371.029	1382.3						6.76	0.49%
Sn 206.200	69.2	0.0046	mg/L	0.00042	0.0046	mg/L	0.00042	9.00%
Ag 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%
Si 670.784	-233.3	-0.0034	mg/L	0.01119	-0.0034	mg/L	0.01119	331.08%
Si 610.362	-7930.2	-1.128	mg/L	0.0063	-1.128	mg/L	0.0063	0.56%
Zn 181.975	-59.4	-0.2434	mg/L	0.02289	-0.2434	mg/L	0.02289	9.41%

ALAB : 00193

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
Pb 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%
290.880	80161.8	0.4966	mg/L	0.00748	0.4966	mg/L	0.00748	1.51%
207.912	131.4	0.0525	mg/L	0.00178	0.0525	mg/L	0.00178	3.39%
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%
213.617	-818.7	-0.6123	mg/L	0.01665	-0.6123	mg/L	0.01665	2.72%
Zr 251.611	464.0	0.0115	mg/L	0.00061	0.0115	mg/L	0.00061	5.36%
Zr 670.784	19.6	0.0003	mg/L	0.00544	0.0003	mg/L	0.00544	>999.9%
Zr 610.362	-8046.3	-1.144	mg/L	0.1145	-1.144	mg/L	0.1145	10.01%
181.975	-55.3	-0.2267	mg/L	0.03595	-0.2267	mg/L	0.03595	15.86%

ALAB: 00194

equence No.: 22
ample ID: ICP_CCV(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 7
Date Collected: 10/17/2012 10:08:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

ean Data: ICP_CCV(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-75.4	-0.0337	mg/L	0.00149	-0.0337	mg/L	0.00149	4.44%
i 190.171	11.1	0.0134	mg/L	0.00234	0.0134	mg/L	0.00234	17.42%
a 315.887	2394.6	1.099	mg/L	0.0090	1.099	mg/L	0.0090	0.82%
a 317.933	2829.2	1.110	mg/L	0.0072	1.110	mg/L	0.0072	0.65%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	26233.5	9.321	mg/L	0.5659	9.321	mg/L	0.5659	6.07%
g 279.077	268.5	1.153	mg/L	0.0125	1.153	mg/L	0.0125	1.08%
n 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%								
o 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%								
a 589.592	5898.7	0.9126	mg/L	0.04297	0.9126	mg/L	0.04297	4.71%
a 330.237	-8.1	-1.042	mg/L	0.6518	-1.042	mg/L	0.6518	62.57%
i 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%								
o 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%								
o 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%								
e 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%								
n 189.927	-9.2	-0.0030	mg/L	0.00004	-0.0030	mg/L	0.00004	1.48%
r 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%								
r 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%								
. 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%								
. 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%								
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%								
207.912	44.3	0.0177	mg/L	0.00040	0.0177	mg/L	0.00040	2.24%
371.029	1813.2						300.86	16.59%
n 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%								
213.617	-1878.4	-1.405	mg/L	0.0839	-1.405	mg/L	0.0839	5.97%
. 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%								
[illegible]	58337.7	0.8451	mg/L	0.04019	0.8451	mg/L	0.04019	4.76%

ALAB : 00195

lequence No.: 23
lample ID: ICP_CCVGM(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

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

lean Data: ICP_CCVGM(7-6-12)

nalyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 328.068	181.9	0.0014	mg/L	0.00039	0.0014	mg/L	0.00039	27.72%
l 308.215	-486.9	-0.0141	mg/L	0.00188	-0.0141	mg/L	0.00188	13.36%
s 188.979	21.6	0.0038	mg/L	0.00289	0.0038	mg/L	0.00289	75.03%
249.677	12459.4	0.1392	mg/L	0.00118	0.1392	mg/L	0.00118	0.84%
a 233.527	94.0	0.0009	mg/L	0.00020	0.0009	mg/L	0.00020	21.69%
e 313.107	556.2	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	20.67%
i 223.061	-4.2	-0.0019	mg/L	0.00275	-0.0019	mg/L	0.00275	147.46%
i 190.171	19.2	0.0233	mg/L	0.00600	0.0233	mg/L	0.00600	25.74%
a 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%								
a 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%								
d 214.440	56.9	0.0013	mg/L	0.00003	0.0013	mg/L	0.00003	1.93%
o 228.616	19.5	0.0007	mg/L	0.00024	0.0007	mg/L	0.00024	31.96%
r 267.716	92.1	0.0024	mg/L	0.00027	0.0024	mg/L	0.00027	11.24%
u 324.752	974.9	0.0032	mg/L	0.00012	0.0032	mg/L	0.00012	3.84%
e 238.204	251.1	0.0064	mg/L	0.00031	0.0064	mg/L	0.00031	4.95%
e 273.955	-25.0	-0.0015	mg/L	0.00025	-0.0015	mg/L	0.00025	17.39%
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%								
g 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%								
n 257.610	1646.2	0.0038	mg/L	0.00006	0.0038	mg/L	0.00006	1.65%
o 202.031	35.7	0.0077	mg/L	0.00159	0.0077	mg/L	0.00159	20.51%
a 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%								
a 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%								
i 231.604	16.3	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	6.31%
o 220.353	43.2	0.0021	mg/L	0.00148	0.0021	mg/L	0.00148	69.75%
o 206.836	11.0	0.0099	mg/L	0.00080	0.0099	mg/L	0.00080	8.06%
e 196.026	33.5	0.0043	mg/L	0.02523	0.0043	mg/L	0.02523	592.73%
n 189.927	-90.9	-0.0296	mg/L	0.00141	-0.0296	mg/L	0.00141	4.76%
r 407.771	366.8	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	9.87%
r 421.552	180.1	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.64%
i 334.940	3812.6	0.0100	mg/L	0.00011	0.0100	mg/L	0.00011	1.14%
l 190.801	-50.5	-0.0091	mg/L	0.00269	-0.0091	mg/L	0.00269	29.53%
290.880	-170.4	-0.0011	mg/L	0.00058	-0.0011	mg/L	0.00058	53.97%
207.912	30.2	0.0120	mg/L	0.00284	0.0120	mg/L	0.00284	23.61%
371.029	1534.6						43.98	2.87%
n 206.200	15.7	0.0011	mg/L	0.00022	0.0011	mg/L	0.00022	20.83%
213.617	-9.3	-0.0069	mg/L	0.00179	-0.0069	mg/L	0.00179	25.91%
i 251.611	482.9	0.0119	mg/L	0.00036	0.0119	mg/L	0.00036	3.01%
i 670.784	-236.6	-0.0034	mg/L	0.00044	-0.0034	mg/L	0.00044	12.79%
i 610.362	-1624.9	-0.2311	mg/L	0.04871	-0.2311	mg/L	0.04871	21.08%
181.975	6.8	0.0278	mg/L	0.03137	0.0278	mg/L	0.03137	112.95%

ll analyte(s) passed QC.

ALAB:00196

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
Pb 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%
Zn 207.912	4.5	0.0018	mg/L	0.00040	0.0018	mg/L	0.00040	21.81%
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%
213.617	6.6	0.0049	mg/L	0.00278	0.0049	mg/L	0.00278	56.12%
Zi 251.611	-149.2	-0.0037	mg/L	0.00012	-0.0037	mg/L	0.00012	3.15%
Zi 670.784	-16.6	-0.0002	mg/L	0.00349	-0.0002	mg/L	0.00349	>999.9%
Zi 610.362	3.5	0.0005	mg/L	0.01478	0.0005	mg/L	0.01478	>999.9%
181.975	-6.8	-0.0277	mg/L	0.01447	-0.0277	mg/L	0.01447	52.29%

QC Failed. Continue with analysis.

ALAB : 00197

Analysis Begun

Start Time: 10/17/2012 10:35:35 AM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901

Plasma On Time: 10/17/2012 7:49:05 AM
Technique: ICP Continuous
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.: 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 Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
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%
Pb 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%
290.880	79687.8	0.5036	mg/L	0.00014	0.5036	mg/L	0.00014	0.03%
207.912	12.9	0.0052	mg/L	0.00273	0.0052	mg/L	0.00273	52.99%
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%
213.617	-914.4	-0.6838	mg/L	0.00489	-0.6838	mg/L	0.00489	0.72%
Li 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%
Ll 610.362	4075.9	0.5797	mg/L	0.20055	0.5797	mg/L	0.20055	34.59%
181.975	-3.0	-0.0122	mg/L	0.01155	-0.0122	mg/L	0.01155	94.27%

ALAB : 00198

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	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%
Pb 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%
290.880	174.7	0.0011	mg/L	0.00079	0.0011	mg/L	0.00079	71.49%
207.912	2.8	0.0011	mg/L	0.00059	0.0011	mg/L	0.00059	52.63%
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%
213.617	9.0	0.0067	mg/L	0.00167	0.0067	mg/L	0.00167	24.88%
Zr 251.611	-126.6	-0.0031	mg/L	0.00030	-0.0031	mg/L	0.00030	9.67%
Zr 670.784	-230.8	-0.0033	mg/L	0.00433	-0.0033	mg/L	0.00433	129.44%
Zr 610.362	-138.6	-0.0197	mg/L	0.00762	-0.0197	mg/L	0.00762	38.65%
181.975	-7.8	-0.0318	mg/L	0.01376	-0.0318	mg/L	0.01376	43.33%

ALAB : 00199

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 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

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/17/2012 12:15:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib 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 : 00200

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.	Calib 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 : 00201

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.	Calib 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
In 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
Li 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:00202

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
Y 207.912	12384.2	0.91	0.01%	[5]	mg/L
Zn 206.200	294296.0	7905.17	2.69%	[20.00]	mg/L
Zr 670.784	131197.3	1989.07	1.52%	[2.0]	mg/L
Zr 610.362	13810.7	469.47	3.40%	[2.0]	mg/L
Si 181.975	2434.3	16.47	0.68%	[10.00]	mg/L

ALAB:00203

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	Conc.	Calib Units
Mg 328.068	259689.3	15891.87	6.12%	[2.00]	mg/L

ALAB : 06204

equence No.: 6
ample ID: ICP STD5-100PPM(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

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

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

nalyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
a 315.887	202527.0	5956.02	2.94%	[100.00]	mg/L
a 317.933	239440.8	4475.55	1.87%	[100.00]	mg/L
766.490	263921.1	6122.09	2.32%	[100.00]	mg/L
g 279.077	22363.6	101.80	0.46%	[100.00]	mg/L
a 589.592	593286.9	14853.78	2.50%	[100.00]	mg/L
a 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.	Calib Units
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	
Y 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 : 00205

nalytical Sequence
lethod: 10-02-12

leq.	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

CONFIDENTIAL

nalysis Begun

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

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

equence No.: 8
ample ID: ICP_ICV(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 7
Date Collected: 10/17/2012 12:34:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

lean Data: ICP_ICV(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-57.7	-0.0266	mg/L	0.00087	-0.0266	mg/L	0.00087	3.29%
i 190.171	4.9	0.0060	mg/L	0.00777	0.0060	mg/L	0.00777	129.48%
a 315.887	2197.7	1.084	mg/L	0.0043	1.084	mg/L	0.0043	0.39%
a 317.933	2593.7	1.083	mg/L	0.0034	1.083	mg/L	0.0034	0.31%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	27439.6	10.39	mg/L	0.975	10.39	mg/L	0.975	9.39%
g 279.077	243.4	1.088	mg/L	0.0090	1.088	mg/L	0.0090	0.83%
n 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%								
o 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%								
a 589.592	6325.6	1.065	mg/L	0.0990	1.065	mg/L	0.0990	9.30%
a 330.237	-22.1	-3.057	mg/L	0.5386	-3.057	mg/L	0.5386	17.62%
i 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%								
b 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%								
b 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%								
e 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%								
n 189.927	-10.2	-0.0033	mg/L	0.00000	-0.0033	mg/L	0.00000	0.04%
r 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%								
r 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%								
i 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%								
					1.041	mg/L	0.0050	0.48%

ALAB : 00207

7 207.912	32.6	0.0132 mg/L	0.00007	0.0132 mg/L	0.00007	0.50%
371.029	1722.3				79.86	4.64%
n 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%						
213.617	-1917.2	-1.410 mg/L	0.0652	-1.410 mg/L	0.0652	4.62%
i 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%						
i 670.784	61865.3	0.9431 mg/L	0.06770	0.9431 mg/L	0.06770	7.18%
i 610.362	6083.7	0.8810 mg/L	0.14183	0.8810 mg/L	0.14183	16.10%
181.975	4.8	0.0198 mg/L	0.01106	0.0198 mg/L	0.01106	55.84%

ll analyte(s) passed QC.

ALAB : 00208

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	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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								
Y 290.880	196.9	0.0013	mg/L	0.00016	0.0013	mg/L	0.00016	12.57%

ALAB

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.

ALAB : 00210

nalysis Begun

tart Time: 10/17/2012 12:58:54 PM
ogged In Analyst: kedy
pectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

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

equence No.: 35
ample ID: ICP_CCV(7-6-12)
nalyst:
nitial Sample Wt:
ilution:
Autosampler Location: 7
Date Collected: 10/17/2012 12:58:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

ean Data: ICP_CCV(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-57.3	-0.0264	mg/L	0.00241	-0.0264	mg/L	0.00241	9.12%
i 190.171	5.7	0.0071	mg/L	0.00156	0.0071	mg/L	0.00156	22.07%
a 315.887	2307.1	1.138	mg/L	0.0001	1.138	mg/L	0.0001	0.01%
a 317.933	2732.7	1.141	mg/L	0.0035	1.141	mg/L	0.0035	0.30%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	28617.2	10.83	mg/L	0.153	10.83	mg/L	0.153	1.41%
g 279.077	251.8	1.125	mg/L	0.0049	1.125	mg/L	0.0049	0.44%
n 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%								
o 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%								
a 589.592	7114.5	1.198	mg/L	0.0333	1.198	mg/L	0.0333	2.78%
a 330.237	-23.9	-3.308	mg/L	0.4379	-3.308	mg/L	0.4379	13.24%
i 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%								
b 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%								
b 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%								
e 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%								
n 189.927	-9.9	-0.0032	mg/L	0.00141	-0.0032	mg/L	0.00141	43.69%
r 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%								
r 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%								
i 334.940	390240.5	1.060	mg/L	0.0248	1.060	mg/L	0.0248	2.33%

ALAB 0021

207.912	19.5	0.0079 mg/L	0.00211	0.0079 mg/L	0.00211	26.85%
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%						
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%						
Si 670.784	66363.6	1.012 mg/L	0.0302	1.012 mg/L	0.0302	2.98%
Si 610.362	7284.4	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%
181.975	4.5	0.0184 mg/L	0.00602	0.0184 mg/L	0.00602	32.64%

All analyte(s) passed QC.

ALAB:00212

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 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

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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 : 00213

equence No.: 48
ample ID: ICP_CCV(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

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

ean Data: ICP_CCV(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-45.0	-0.0207	mg/L	0.00497	-0.0207	mg/L	0.00497	23.99%
i 190.171	5.8	0.0072	mg/L	0.00327	0.0072	mg/L	0.00327	45.51%
a 315.887	2401.4	1.185	mg/L	0.0229	1.185	mg/L	0.0229	1.93%
a 317.933	2848.8	1.189	mg/L	0.0160	1.189	mg/L	0.0160	1.34%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	29674.0	11.23	mg/L	0.203	11.23	mg/L	0.203	1.81%
g 279.077	261.0	1.166	mg/L	0.0172	1.166	mg/L	0.0172	1.47%
n 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%								
o 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%								
a 589.592	7021.5	1.182	mg/L	0.0575	1.182	mg/L	0.0575	4.86%
a 330.237	-13.6	-1.885	mg/L	1.7518	-1.885	mg/L	1.7518	92.95%
i 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%								
b 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%								
b 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%								
e 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%								
n 189.927	-9.4	-0.0031	mg/L	0.00020	-0.0031	mg/L	0.00020	6.45%
r 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%								
r 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%								
i 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%								
l 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%								
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%								
207.912	17.2	0.0070	mg/L	0.00069	0.0070	mg/L	0.00069	9.86%
371.029	1336.0						139.49	10.44%
n 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%								
213.617	-1849.1	-1.360	mg/L	0.1221	-1.360	mg/L	0.1221	8.98%
i 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%								
					1.034	mg/L	0.0002	0.01%

ALAB:0021H

ser canceled analysis.

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nalysis Begun

tart Time: 10/17/2012 1:32:15 PM
ogged In Analyst: kedy
pectrometer Model: Optima 4300 DV, S/N 077N1091901

Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

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

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equence No.: 50
ample ID: ICP_CCB(Daily)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 8
Date Collected: 10/17/2012 1:32:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

---

ean Data: ICP_CCB(Daily)

nalyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
g 328.068	2655.8	0.0205	mg/L	0.00002	0.0205	mg/L	0.00002	0.11%
l 308.215	50.5	0.0015	mg/L	0.00387	0.0015	mg/L	0.00387	262.82%
s 188.979	10.6	0.0019	mg/L	0.00103	0.0019	mg/L	0.00103	53.79%
249.677	-3474.0	-0.0393	mg/L	0.00046	-0.0393	mg/L	0.00046	1.17%
a 233.527	115.2	0.0011	mg/L	0.00006	0.0011	mg/L	0.00006	5.04%
e 313.107	1687.6	0.0008	mg/L	0.00005	0.0008	mg/L	0.00005	5.99%
i 223.061	5.8	0.0027	mg/L	0.00201	0.0027	mg/L	0.00201	74.89%
i 190.171	-0.7	-0.0009	mg/L	0.00373	-0.0009	mg/L	0.00373	416.10%
a 315.887	30.5	0.0151	mg/L	0.00049	0.0151	mg/L	0.00049	3.25%
a 317.933	35.5	0.0148	mg/L	0.00104	0.0148	mg/L	0.00104	7.04%
d 214.440	39.0	0.0009	mg/L	0.00019	0.0009	mg/L	0.00019	21.46%
o 228.616	33.4	0.0013	mg/L	0.00028	0.0013	mg/L	0.00028	21.50%
r 267.716	42.9	0.0011	mg/L	0.00018	0.0011	mg/L	0.00018	16.23%
u 324.752	277.9	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	10.88%
e 238.204	86.5	0.0022	mg/L	0.00029	0.0022	mg/L	0.00029	13.04%
e 273.955	101.3	0.0061	mg/L	0.00029	0.0061	mg/L	0.00029	4.80%
766.490	239.9	0.0908	mg/L	0.06441	0.0908	mg/L	0.06441	70.92%
g 279.077	1.8	0.0080	mg/L	0.00383	0.0080	mg/L	0.00383	48.13%
n 257.610	475.8	0.0011	mg/L	0.00002	0.0011	mg/L	0.00002	1.43%
o 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%				
a 589.592	313.9	0.0528	mg/L	0.02854	0.0528	mg/L	0.02854	54.02%
a 330.237	1.4	0.1951	mg/L	0.69941	0.1951	mg/L	0.69941	358.47%
i 231.604	6.1	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	63.73%
b 220.353	62.5	0.0032	mg/L	0.00019	0.0032	mg/L	0.00019	6.01%
b 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%				
e 196.026	-6.5	-0.0008	mg/L	0.00614	-0.0008	mg/L	0.00614	745.69%
n 189.927	-1.9	-0.0006	mg/L	0.00103	-0.0006	mg/L	0.00103	170.34%
r 407.771	466.8	0.0011	mg/L	0.00043	0.0011	mg/L	0.00043	39.27%
r 421.552	176.0	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.11%
i 334.940	94.3	0.0003	mg/L	0.00036	0.0003	mg/L	0.00036	139.80%
l 190.801	-8.4	-0.0015	mg/L	0.00488	-0.0015	mg/L	0.00488	322.13%
290.880	177.9	0.0012	mg/L	0.00006	0.0012	mg/L	0.00006	5.04%
207.912	-2.8	-0.0011	mg/L	0.00028	-0.0011	mg/L	0.00028	25.13%
371.029	1684.0						43.42	2.58%
n 206.200	16.5	0.0011	mg/L	0.00020	0.0011	mg/L	0.00020	18.06%
213.617	8.9	0.0065	mg/L	0.00337	0.0065	mg/L	0.00337	51.66%
i 251.611	133.0	0.0034	mg/L	0.00019	0.0034	mg/L	0.00019	5.63%
i 670.784	210.4	0.0032	mg/L	0.00113	0.0032	mg/L	0.00113	35.09%
i 610.362	166.6	0.0241	mg/L	0.01882	0.0241	mg/L	0.01882	77.99%
181.975	1.4	0.0057	mg/L	0.00998	0.0057	mg/L	0.00998	175.96%

C Failed. Continue with analysis.

ALAB : 00215

nalysis Begun

tart Time: 10/17/2012 2:34:29 PM
ogged In Analyst: kedy
pectrometer Model: Optima 4300 DV, S/N 077N1091901

Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

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

equence No.: 61
ample ID: ICP_CCV(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 7
Date Collected: 10/17/2012 2:34:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

ean Data: ICP_CCV(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-41.4	-0.0191	mg/L	0.00087	-0.0191	mg/L	0.00087	4.58%
i 190.171	5.3	0.0065	mg/L	0.00037	0.0065	mg/L	0.00037	5.69%
a 315.887	2432.6	1.200	mg/L	0.0020	1.200	mg/L	0.0020	0.16%
a 317.933	2893.6	1.208	mg/L	0.0108	1.208	mg/L	0.0108	0.89%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	29124.7	11.03	mg/L	0.245	11.03	mg/L	0.245	2.22%
g 279.077	276.3	1.235	mg/L	0.0007	1.235	mg/L	0.0007	0.06%
n 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%								
o 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%								
a 589.592	6964.2	1.172	mg/L	0.0953	1.172	mg/L	0.0953	8.13%
a 330.237	-17.1	-2.363	mg/L	0.6812	-2.363	mg/L	0.6812	28.82%
i 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%								
b 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%								
b 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%								
e 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%								
n 189.927	-10.2	-0.0033	mg/L	0.00124	-0.0033	mg/L	0.00124	37.39%
r 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%								
r 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%								
i 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%								
l 190.801	5946.6	1.075	mg/L	0.0024	1.075	mg/L	0.0024	0.22%

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207.912	19.7	0.0080 mg/L	0.00032	0.0080 mg/L	0.00032	3.96%
371.029	1794.3				14.94	0.83%
n 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%						
213.617	-1810.3	-1.332 mg/L	0.0905	-1.332 mg/L	0.0905	6.80%
i 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%						
i 670.784	64379.1	0.9814 mg/L	0.03268	0.9814 mg/L	0.03268	3.33%
i 610.362	6616.2	0.9581 mg/L	0.05873	0.9581 mg/L	0.05873	6.13%
181.975	5.0	0.0205 mg/L	0.00097	0.0205 mg/L	0.00097	4.72%

C Failed. Continue with analysis.

User canceled analysis.

==========

Analysis Begun

Start Time: 10/17/2012 2:37:59 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
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.: 63
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 10/17/2012 2:37:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
Y 207.912	-2.2	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.55%
Zn 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%
Zr 213.617	4.9	0.0036	mg/L	0.00199	0.0036	mg/L	0.00199	55.86%
Li 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%
Y 181.975	5.5	0.0226	mg/L	0.01293	0.0226	mg/L	0.01293	57.19%

QC Failed. Continue with analysis.

ALAB:00217

ıalysis Begun

:art Time: 10/17/2012 3:12:17 PM
›gged In Analyst: kedy
›ectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

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

›quence No.: 74
ımple ID: ICP_CCV(7-6-12)
ıalyst:
ıitial Sample Wt:
ilution:

Autosampler Location: 7
Date Collected: 10/17/2012 3:12:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

›an Data: ICP_CCV(7-6-12)

ıalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 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%								
l 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%								
s 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%								
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%								
a 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%								
e 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%								
i 223.061	-46.6	-0.0215	mg/L	0.00119	-0.0215	mg/L	0.00119	5.53%
i 190.171	3.6	0.0044	mg/L	0.00155	0.0044	mg/L	0.00155	35.12%
a 315.887	2473.8	1.221	mg/L	0.0050	1.221	mg/L	0.0050	0.41%
a 317.933	2938.3	1.226	mg/L	0.0063	1.226	mg/L	0.0063	0.51%
d 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%								
o 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%								
r 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%								
u 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%								
e 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%								
e 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%								
766.490	28588.4	10.82	mg/L	0.280	10.82	mg/L	0.280	2.59%
ıg 279.077	272.2	1.216	mg/L	0.0282	1.216	mg/L	0.0282	2.32%
ın 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%								
ıo 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%								
ıa 589.592	7034.6	1.184	mg/L	0.0378	1.184	mg/L	0.0378	3.19%
ıa 330.237	-17.9	-2.471	mg/L	0.7663	-2.471	mg/L	0.7663	31.01%
ıi 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%								
b 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%								
b 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%								
e 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%								
n 189.927	-6.9	-0.0022	mg/L	0.00165	-0.0022	mg/L	0.00165	73.22%
r 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%								
r 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%								
i 334.940	378369.7	1.028	mg/L	0.0622	1.028	mg/L	0.0622	6.05%
[illegible] Recovery = 102.79%								

ALAB: 00218

207.912	22.6	0.0091 mg/L	0.00279	0.0091 mg/L	0.00279	30.51%
371.029	1634.4				105.53	6.46%
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%						
213.617	-1860.0	-1.368 mg/L	0.0613	-1.368 mg/L	0.0613	4.48%
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%						
670.784	66089.0	1.007 mg/L	0.0332	1.007 mg/L	0.0332	3.30%
610.362	6671.0	0.9661 mg/L	0.10413	0.9661 mg/L	0.10413	10.78%
181.975	6.8	0.0278 mg/L	0.03769	0.0278 mg/L	0.03769	135.52%

11 analyte(s) passed QC.

ALAB:00219

User canceled analysis.

==========

Analysis Begun

Start Time: 10/17/2012 3:14:18 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
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
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 10/17/2012 3:14:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%
Se 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%
Tl 421.552	395.8	0.0016	mg/L	0.00036	0.0016	mg/L	0.00036	21.82%
V 334.940	418.1	0.0011	mg/L	0.00011	0.0011	mg/L	0.00011	10.02%
Zn 190.801	15.2	0.0027	mg/L	0.00175	0.0027	mg/L	0.00175	63.92%
Zr 130.880	311.7	0.0020	mg/L	0.00021	0.0020	mg/L	0.00021	10.29%
Ag 17.912	-2.4	-0.0010	mg/L	0.00081	-0.0010	mg/L	0.00081	83.72%
Al 1.029	1600.6						121.85	7.61%
As 206.200	17.9	0.0012	mg/L	0.00026	0.0012	mg/L	0.00026	21.22%
B 3.617	-0.8	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	70.67%
Ba 51.611	363.3	0.0093	mg/L	0.00025	0.0093	mg/L	0.00025	2.67%
Be 10.784	287.2	0.0044	mg/L	0.00504	0.0044	mg/L	0.00504	115.11%
Bi 0.362	10.8	0.0016	mg/L	0.01382	0.0016	mg/L	0.01382	881.00%
Ca .975	-2.3	-0.0093	mg/L	0.00783	-0.0093	mg/L	0.00783	84.47%

iled. Continue with analysis.

ALAB : 00228

alysis Begun

art Time: 10/17/2012 3:46:40 PM
gged In Analyst: kedy
ectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

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

quence No.: 87
mple ID: ICP_CCV(7-6-12)
alyst:
itial Sample Wt:
lution:

Autosampler Location: 7
Date Collected: 10/17/2012 3:46:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

an Data: ICP_CCV(7-6-12)

alyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
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%								
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%								
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%								
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%								
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%								
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%								
223.061	-44.1	-0.0203	mg/L	0.00363	-0.0203	mg/L	0.00363	17.89%
190.171	1.7	0.0022	mg/L	0.00304	0.0022	mg/L	0.00304	141.10%
315.887	2431.2	1.075	mg/L	0.0002	1.075	mg/L	0.0002	0.02%
317.933	2894.5	1.078	mg/L	0.0058	1.078	mg/L	0.0058	0.53%
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%								
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%								
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%								
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%								
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%								
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%								
766.490	28082.1	9.582	mg/L	0.1460	9.582	mg/L	0.1460	1.52%
279.077	265.1	1.101	mg/L	0.0051	1.101	mg/L	0.0051	0.46%
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%								
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%								
589.592	7394.4	1.120	mg/L	0.0481	1.120	mg/L	0.0481	4.29%
330.237	-19.3	-2.503	mg/L	0.3345	-2.503	mg/L	0.3345	13.36%
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%								
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%								
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%								
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%								
189.927	-10.3	-0.0033	mg/L	0.00134	-0.0033	mg/L	0.00134	40.09%
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%								
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%								
334.940	371889.7	1.010	mg/L	0.0219	1.010	mg/L	0.0219	2.17%

ALAB 0271

207.912	20.8	0.0084 mg/L	0.00209	0.0084 mg/L	0.00209	24.83%
371.029	1725.1				25.46	1.48%
n 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%						
213.617	-1768.2	-1.301 mg/L	0.0209	-1.301 mg/L	0.0209	1.60%
i 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%						
i 670.784	65266.4	0.9949 mg/L	0.01639	0.9949 mg/L	0.01639	1.65%
i 610.362	6837.0	0.9901 mg/L	0.06638	0.9901 mg/L	0.06638	6.70%
181.975	10.3	0.0423 mg/L	0.00069	0.0423 mg/L	0.00069	1.62%

C Failed. Continue with analysis.

ALAB : 00222

equence No.: 88
ample ID: ICP_CCVGM(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

Autosampler Location: 6
Date Collected: 10/17/2012 3:49:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

ean Data: ICP_CCVGM(7-6-12)

nalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 328.068	69.7	0.0005	mg/L	0.00035	0.0005	mg/L	0.00035	64.86%
l 308.215	53.9	0.0016	mg/L	0.00084	0.0016	mg/L	0.00084	53.67%
s 188.979	-32.6	-0.0059	mg/L	0.00675	-0.0059	mg/L	0.00675	114.90%
249.677	-3600.0	-0.0407	mg/L	0.00052	-0.0407	mg/L	0.00052	1.26%
a 233.527	93.4	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.27%
e 313.107	690.1	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	14.92%
i 223.061	16.0	0.0074	mg/L	0.00496	0.0074	mg/L	0.00496	67.28%
190.171	17.1	0.0211	mg/L	0.00149	0.0211	mg/L	0.00149	7.03%
a 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%								
a 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%								
l 214.440	-31.7	-0.0007	mg/L	0.00005	-0.0007	mg/L	0.00005	7.37%
228.616	27.6	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	15.06%
: 267.716	103.0	0.0027	mg/L	0.00005	0.0027	mg/L	0.00005	1.97%
a 324.752	1079.4	0.0036	mg/L	0.00031	0.0036	mg/L	0.00031	8.43%
: 238.204	182.2	0.0046	mg/L	0.00006	0.0046	mg/L	0.00006	1.31%
: 273.955	12.7	0.0008	mg/L	0.00074	0.0008	mg/L	0.00074	97.07%
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%								
r 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%								
a 257.610	1578.6	0.0037	mg/L	0.00002	0.0037	mg/L	0.00002	0.47%
202.031	36.1	0.0081	mg/L	0.00011	0.0081	mg/L	0.00011	1.37%
. 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%								
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%								
231.604	13.6	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	22.56%
220.353	91.9	0.0047	mg/L	0.00130	0.0047	mg/L	0.00130	27.86%
206.836	-14.4	-0.0131	mg/L	0.00204	-0.0131	mg/L	0.00204	15.59%
196.026	-211.7	-0.0270	mg/L	0.00629	-0.0270	mg/L	0.00629	23.29%
189.927	-103.8	-0.0337	mg/L	0.00023	-0.0337	mg/L	0.00023	0.69%
407.771	468.8	0.0011	mg/L	0.00006	0.0011	mg/L	0.00006	5.13%
421.552	229.0	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	12.35%
334.940	3443.7	0.0094	mg/L	0.00009	0.0094	mg/L	0.00009	0.97%
190.801	-76.0	-0.0137	mg/L	0.00172	-0.0137	mg/L	0.00172	12.53%
290.880	-722.8	-0.0047	mg/L	0.00071	-0.0047	mg/L	0.00071	15.21%
207.912	7.8	0.0032	mg/L	0.00201	0.0032	mg/L	0.00201	63.59%
371.029	1450.8						35.63	2.46%
206.200	3.5	0.0002	mg/L	0.00064	0.0002	mg/L	0.00064	268.61%
213.617	-12.2	-0.0090	mg/L	0.00948	-0.0090	mg/L	0.00948	105.65%
251.611	739.9	0.0189	mg/L	0.00050	0.0189	mg/L	0.00050	2.63%
670.784	88.5	0.0013	mg/L	0.00449	0.0013	mg/L	0.00449	333.00%
610.362	-1781.3	-0.2580	mg/L	0.06984	-0.2580	mg/L	0.06984	27.07%
181.975	6.0	0.0245	mg/L	0.02265	0.0245	mg/L	0.02265	92.45%

l analyte(s) passed QC.

ALAB : 00223

lequence No.: 89
lample ID: ICP_CCB(Daily)
nalyst:
nitial Sample Wt:
ilution:

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

lean Data: ICP_CCB(Daily)

nalyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
g 328.068	2302.5	0.0177	mg/L	0.00013	0.0177	mg/L	0.00013	0.71%
l 308.215	13.3	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	114.02%
s 188.979	25.8	0.0047	mg/L	0.00002	0.0047	mg/L	0.00002	0.39%
249.677	-4360.9	-0.0493	mg/L	0.00010	-0.0493	mg/L	0.00010	0.21%
a 233.527	37.3	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	19.54%
e 313.107	448.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	7.70%
i 223.061	8.0	0.0037	mg/L	0.00355	0.0037	mg/L	0.00355	95.99%
i 190.171	1.3	0.0015	mg/L	0.00309	0.0015	mg/L	0.00309	199.49%
a 315.887	141.7	0.0627	mg/L	0.00263	0.0627	mg/L	0.00263	4.20%
a 317.933	169.1	0.0630	mg/L	0.00791	0.0630	mg/L	0.00791	12.56%
d 214.440	4.5	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	60.23%
o 228.616	9.9	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	30.57%
r 267.716	21.0	0.0005	mg/L	0.00019	0.0005	mg/L	0.00019	34.79%
u 324.752	154.5	0.0005	mg/L	0.00019	0.0005	mg/L	0.00019	36.86%
e 238.204	43.6	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	5.97%
e 273.955	95.4	0.0057	mg/L	0.00072	0.0057	mg/L	0.00072	12.53%
766.490	692.8	0.2364	mg/L	0.03518	0.2364	mg/L	0.03518	14.88%
g 279.077	18.4	0.0765	mg/L	0.00890	0.0765	mg/L	0.00890	11.63%
n 257.610	166.0	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	9.91%
o 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%				
a 589.592	1054.0	0.1596	mg/L	0.01119	0.1596	mg/L	0.01119	7.01%
a 330.237	0.5	0.0593	mg/L	0.33603	0.0593	mg/L	0.33603	566.31%
i 231.604	-1.4	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	222.16%
b 220.353	65.6	0.0033	mg/L	0.00266	0.0033	mg/L	0.00266	79.86%
b 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%				
e 196.026	-113.9	-0.0145	mg/L	0.00319	-0.0145	mg/L	0.00319	21.91%
n 189.927	0.5	0.0002	mg/L	0.00040	0.0002	mg/L	0.00040	250.27%
r 407.771	138.0	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	29.70%
r 421.552	99.8	0.0004	mg/L	0.00015	0.0004	mg/L	0.00015	35.46%
i 334.940	-12.3	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	462.02%
l 190.801	13.2	0.0024	mg/L	0.00378	0.0024	mg/L	0.00378	157.80%
290.880	70.9	0.0005	mg/L	0.00053	0.0005	mg/L	0.00053	116.48%
207.912	-6.7	-0.0027	mg/L	0.00028	-0.0027	mg/L	0.00028	10.51%
371.029	1624.9						80.83	4.97%
n 206.200	7.5	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.86%
213.617	6.2	0.0045	mg/L	0.00220	0.0045	mg/L	0.00220	48.33%
i 251.611	377.0	0.0096	mg/L	0.00004	0.0096	mg/L	0.00004	0.37%
i 670.784	106.0	0.0016	mg/L	0.00453	0.0016	mg/L	0.00453	280.33%
i 610.362	12.6	0.0018	mg/L	0.14910	0.0018	mg/L	0.14910	>999.9%
181.975	2.3	0.0093	mg/L	0.01115	0.0093	mg/L	0.01115	120.42%

: Failed. Continue with analysis.

ALAB : 00224

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.	Calib Units	Std.Dev.	Sample Conc.	Sample 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%								
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%								
207.912	96.4	0.0389	mg/L	0.00602	0.0389	mg/L	0.00602	15.48%
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%								
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%								
670.784	68460.8	1.044	mg/L	0.0414	1.044	mg/L	0.0414	3.96%

ALA00295

equence No.: 101
ample ID: ICP_CCVGM(7-6-12)
nalyst:
nitial Sample Wt:
ilution:

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

ean Data: ICP_CCVGM(7-6-12)

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

.l analyte(s) passed QC.

ALAB: 00226

equence No.: 102
mple ID: ICP_CCB(Daily)
nalyst:
nitial Sample Wt:
ilution:

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

ean Data: ICP_CCB(Daily)

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

Failed. Continue with analysis.

ALAB: 00227

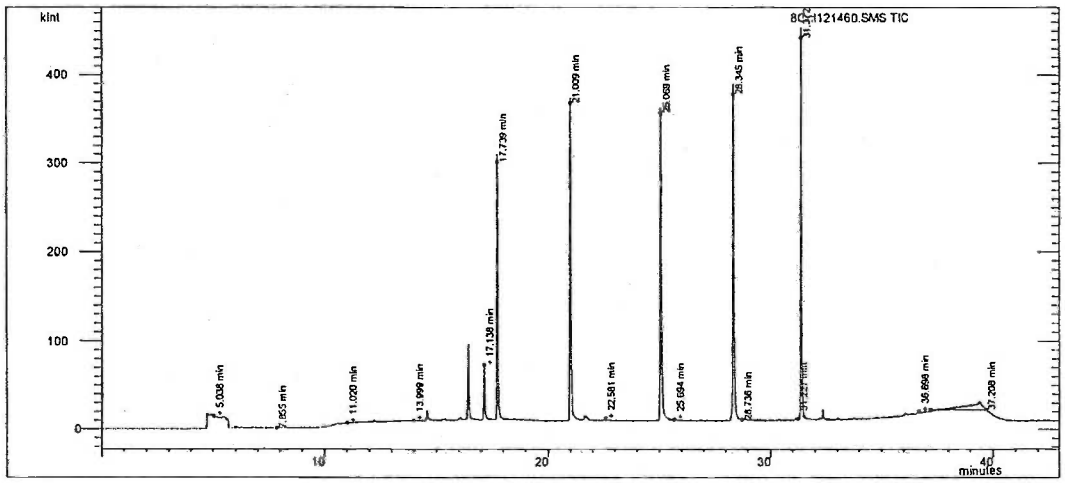
EPA 8260B

Volatile Organic Compounds + Oxygenates

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121460.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311995-001_10ml-2	**Acquisition Date:**	10/17/2012 9:02:48 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.739	96.0+70.0	Fluorobenzene (IS1)	998	557538	25.000
25.069	117.0	Chlorobenzene-d5(IS2)	991	450801	25.000
31.372	152.0	1,4-Dichlorobenzene-d4(IS3)	986	261667	25.000
5.038	85.0	Dichlorodifluoromethane	926	322	0.032
5.725	47.0+49.0+51.0	Chloromethane	322		N/A
6.134	62.0+64.0	Vinyl Chloride	917		N/A
7.435	94.0	Bromomethane	724		N/A
7.855	49.0+45.0	Chloroethane	530		N/A
8.773	101.0+103.0	Trichlorofluoromethane	922	516	0.027
9.929	59.0	Ethyl ether	843	57	0.026
10.563	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	832	333	0.023
10.620	61.0+96.0+98.0	1,1-Dichloroethene	945	1846	0.079
11.038	55.0+56.0	Acrolein	206		N/A
11.020	43.0+58.0	Acetone	584	1679	2.439
11.127	142.0	Iodomethane	919	257	0.021
11.284	76.0	Carbon disulfide	672	696	0.054
11.818	41.0+40.0	Acetonitrile	752		N/A
11.817	41.0+39.0	Allyl chloride	826		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	522		N/A
12.207	49.0	Methylene Chloride	892	2306	0.190
12.718	59.0	tert-Butanol	741	251	1.149
12.874	73.0	Methyl-tert-butyl-ether (MTBE)	811		N/A
12.901	61.0+96.0	t-1,2-Dichloroethene	849	967	0.051

10/29/12

ALAB : 00229

CONFIDENTIAL LMC-PET-00000620

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	301		N/A
13.472	55.9+41.0	n-Hexane	554		N/A
13.999	63.0	1,1-Dichloroethane	947	757	0.062
14.049	45.0	Isopropyl ether	725		N/A
14.176	53.0	Chloroprene	57		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.886	59.0	Ethyl-tert-butyl-ether	346	310	0.018
15.320	77.0	2,2-Dichloropropane	515		N/A
15.391	96.0	c-1,2-Dichloroethene	863	811	0.127
15.290	43.0+72.0	2-Butanone (MEK)	319	98	0.114
15.558	54.0+55.0	Propionitrile	543	141	0.138
15.937	130.0+49.0	Bromochloromethane	877	400	0.053
15.692	39.0+41.0+71.0	Tetrahydrofuran	446		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	404		N/A
16.083	83.0+85.0	Chloroform	720	1568	0.082
16.379	97.0+99.0	1,1,1-Trichloroethane	622	467	0.019
16.426	111.0	Dibromofluoromethane (Surr1)	991	91382	22.693
16.727	117.0+119.0	Carbon Tetrachloride	482		N/A
16.734	75.0	1,1-Dichloropropene	823		N/A
17.016	41.0+39.0	Isobutyl alcohol	509		N/A
17.138	65.0	1,2-Dichloroethane-d4 (Surr2)	995	104414	23.307
17.192	78.0	Benzene	674	854	0.044
17.314	62.0+64.0	1,2-Dichloroethane	516	696	0.078
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	692		N/A
18.474	130.0+132.0+95.0	Trichloroethene	991	1909	0.089
18.958	63.0+65.0	1,2-Dichloropropane	758	200	0.035
18.939	41.0+39.0	Methyl methacrylate	471		N/A
19.091	88.0	1,4-Dioxane	470		N/A
19.274	93.0+174.0	Dibromomethane	915	329	0.060
19.513	83.0+85.0	Bromodichloromethane	601		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	401		N/A
20.490	75.0+77.0+39.0	c-1,3-Dichloropropene	449	217	0.014
20.679	43.0+58.0	4-Methyl-2-pentanone	312		N/A
21.009	98.0	Toluene-d8 (Surr3)	989	651849	25.123
21.177	92.0+91.0	Toluene	939	2690	0.042
21.721	75.0+77.0	t-1,3-Dichloropropene	357		N/A
21.740	69.0	Ethyl methacrylate	271		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	732		N/A
22.581	164.0+166.0	Tetrachloroethene	988	421	0.164
22.704	76.0+41.0	1,3-Dichloropropane	365		N/A
22.778	43.0+58.0+100.0	2-Hexanone	510		N/A
23.402	129.0+127.0	Dibromochloromethane	209		N/A
23.807	107.0+109.0	1,2-Dibromoethane	745		N/A
24.895	91.0	1-Chlorohexane	363		N/A
25.156	112.0+114.0	Chlorobenzene	549	576	0.016
25.364	106.0+91.0	Ethylbenzene	905	1229	0.014
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	453		N/A
25.694	106.0+91.0	p,m-Xylenes	934	2649	0.031
26.801	106.0+91.0	o-Xylene	897		N/A
26.860	104.0+78.0	Styrene	674		N/A
27.543	171.0+173.0+175.0	Bromoform	405		N/A

ALAB : 00230

CONFIDENTIAL LMC-PET-00000621

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	831		N/A
28.345	95.0	p-Bromofluorobenzene (Surr4)	984	329225	24.340
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	560		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	420		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	337		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	316		N/A
28.774	77.0+158.0	Bromobenzene	892		N/A
28.892	91.0+120.0	n-Propylbenzene	874		N/A
29.223	91.0+126.0	2-Chlorotoluene	897		N/A
29.326	105.0+120.0	1,3,5-Trimethylbenzene	865		N/A
29.498	91.0+126.0	4-Chlorotoluene	929		N/A
30.193	119.0+91.0	tert-Butylbenzene	607		N/A
30.386	105.0+120.0	1,2,4-Trimethylbenzene	942	2391	0.024
30.364	117.0	Pentachloroethane	539		N/A
30.753	105.0+134.0	sec-Butylbenzene	892		N/A
31.138	119.0	4-Isopropyltoluene	839	2194	0.028
31.227	146.0+148.0	1,3-Dichlorobenzene	926	1918	0.043
31.437	146.0+148.0	1,4-Dichlorobenzene	439	1558	0.039
31.910	91.0	Benzyl Chloride	483		N/A
32.186	91.0+134.0	n-Butylbenzene	893	2393	0.027
32.398	146.0+148.0	1,2-Dichlorobenzene	869	1297	0.036
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	503		N/A
36.113	180.0+182.0	1,2,4-Trichlorobenzene	862	2549	0.090
36.360	225.0+226.0	Hexachlorobutadiene	965	917	0.052
36.698	128.0	Naphthalene	952	2793	0.186
37.208	180.0+182.0	1,2,3-Trichlorobenzene	983	1812	0.073

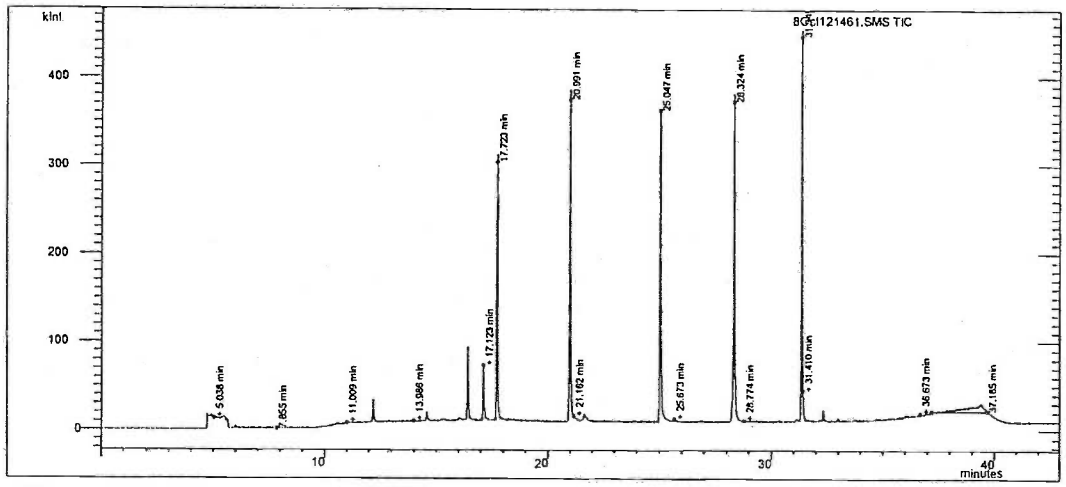
ALAB : 00231

CONFIDENTIAL LMC-PET-00000622

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121461.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311995-002_10ml-6	Acquisition Date:	10/17/2012 9:49:54 AM
Inj. Notes:	PH<2	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.723	96.0+70.0	Fluorobenzene (IS1)	997	547416	25.000
25.047	117.0	Chlorobenzene-d5(IS2)	991	462223	25.000
31.349	152.0	1,4-Dichlorobenzene-d4(IS3)	988	262474	25.000
5.038	85.0	Dichlorodifluoromethane	876	295	0.030
5.725	47.0+49.0+51.0	Chloromethane	776		N/A
6.120	62.0+64.0	Vinyl Chloride	828	163	0.019
7.435	94.0	Bromomethane	808		N/A
7.855	49.0+45.0	Chloroethane	674		N/A
8.757	101.0+103.0	Trichlorofluoromethane	935	425	0.023
9.890	59.0	Ethyl ether	759	84	0.039
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	911		N/A
10.614	61.0+96.0+98.0	1,1-Dichloroethene	981	1754	0.077
11.038	55.0+56.0	Acrolein	256		N/A
11.009	43.0+58.0	Acetone	745	2312	3.421
11.122	142.0	Iodomethane	956	263	0.021
11.273	76.0	Carbon disulfide	577	611	0.049
11.818	41.0+40.0	Acetonitrile	657		N/A
11.817	41.0+39.0	Allyl chloride	785		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	180		N/A
12.194	49.0	Methylene Chloride	940	36540	3.059
12.691	59.0	tert-Butanol	811	399	1.863
12.852	73.0	Methyl-tert-butyl-ether (MTBE)	880	334	0.046
12.883	61.0+96.0	t-1,2-Dichloroethene	908	1046	0.057

10/29/12

ALAB : 00232

CONFIDENTIAL

LMC-PET-00000623

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	207		N/A
13.472	55.9+41.0	n-Hexane	687		N/A
13.986	63.0	1,1-Dichloroethane	947	722	0.061
14.049	45.0	Isopropyl ether	736		N/A
14.176	53.0	Chloroprene	458		N/A
14.042	43.0	Vinyl acetate	607		N/A
14.854	59.0	Ethyl-tert-butyl-ether	817	240	0.014
15.288	77.0	2,2-Dichloropropane	910	293	0.034
15.380	96.0	c-1,2-Dichloroethene	909	832	0.133
15.464	43.0+72.0	2-Butanone (MEK)	357		N/A
15.609	54.0+55.0	Propionitrile	279		N/A
15.928	130.0+49.0	Bromochloromethane	860	476	0.065
15.692	39.0+41.0+71.0	Tetrahydrofuran	615		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	402		N/A
16.063	83.0+85.0	Chloroform	803	2442	0.130
16.377	97.0+99.0	1,1,1-Trichloroethane	698	544	0.023
16.409	111.0	Dibromofluoromethane (Surr1)	991	93231	23.581
16.727	117.0+119.0	Carbon Tetrachloride	686		N/A
16.734	75.0	1,1-Dichloropropene	851		N/A
17.016	41.0+39.0	Isobutyl alcohol	456		N/A
17.123	65.0	1,2-Dichloroethane-d4 (Surr2)	996	104148	23.677
17.181	78.0	Benzene	654	849	0.045
17.293	62.0+64.0	1,2-Dichloroethane	529	777	0.088
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	531		N/A
18.461	130.0+132.0+95.0	Trichloroethene	978	1804	0.082
18.945	63.0+65.0	1,2-Dichloropropane	876	270	0.047
18.939	41.0+39.0	Methyl methacrylate	644		N/A
19.091	88.0	1,4-Dioxane	453		N/A
19.253	93.0+174.0	Dibromomethane	893	285	0.051
19.513	83.0+85.0	Bromodichloromethane	519		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	595		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	420		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	382		N/A
20.991	98.0	Toluene-d8 (Surr3)	996	645185	24.251
21.162	92.0+91.0	Toluene	935	5578	0.085
21.721	75.0+77.0	t-1,3-Dichloropropene	508		N/A
21.740	69.0	Ethyl methacrylate	417		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	843		N/A
22.548	164.0+166.0	Tetrachloroethene	978	113	0.043
22.704	76.0+41.0	1,3-Dichloropropane	577		N/A
22.778	43.0+58.0+100.0	2-Hexanone	371		N/A
23.402	129.0+127.0	Dibromochloromethane	553		N/A
23.807	107.0+109.0	1,2-Dibromoethane	631		N/A
24.895	91.0	1-Chlorohexane	405		N/A
25.135	112.0+114.0	Chlorobenzene	548	623	0.017
25.343	106.0+91.0	Ethylbenzene	911	1660	0.019
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	630		N/A
25.673	106.0+91.0	p,m-Xylenes	954	4902	0.057
26.824	106.0+91.0	o-Xylene	919	1906	0.023
26.860	104.0+78.0	Styrene	853		N/A
27.543	171.0+173.0+175.0	Bromoform	266		N/A

ALAB : 00233

CONFIDENTIAL

LMC-PET-00000624

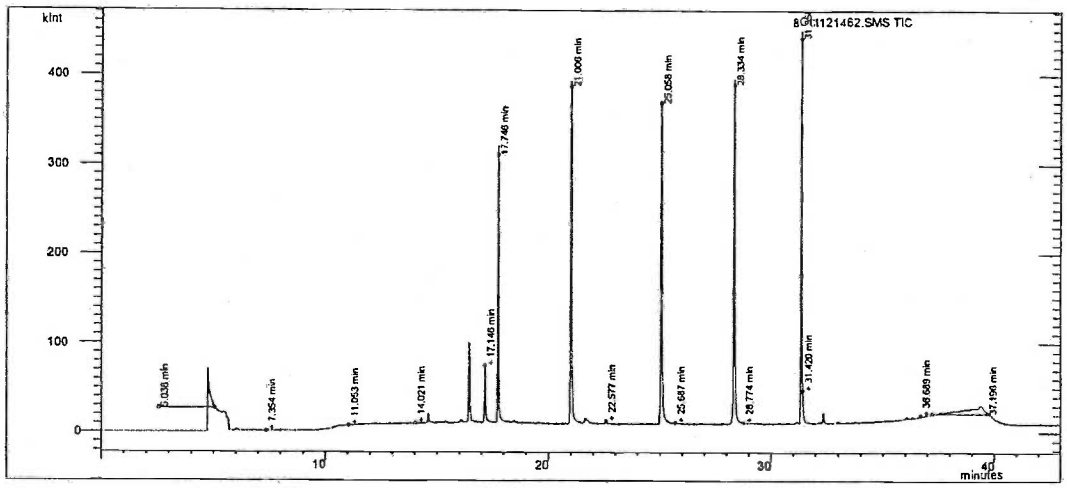
RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.750	105.0+120.0	Isopropylbenzene	838		N/A
28.324	95.0	p-Bromofluorobenzene (Surr4)	988	327452	24.134
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	549		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	467		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	307		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	135		N/A
28.774	77.0+158.0	Bromobenzene	844		N/A
28.892	91.0+120.0	n-Propylbenzene	811		N/A
29.223	91.0+126.0	2-Chlorotoluene	920		N/A
29.356	105.0+120.0	1,3,5-Trimethylbenzene	838	1156	0.010
29.498	91.0+126.0	4-Chlorotoluene	876		N/A
30.193	119.0+91.0	tert-Butylbenzene	645		N/A
30.362	105.0+120.0	1,2,4-Trimethylbenzene	975	2740	0.027
30.364	117.0	Pentachloroethane	515		N/A
30.753	105.0+134.0	sec-Butylbenzene	874		N/A
31.111	119.0	4-Isopropyltoluene	830	1760	0.023
31.204	146.0+148.0	1,3-Dichlorobenzene	974	1556	0.035
31.410	146.0+148.0	1,4-Dichlorobenzene	422	1516	0.038
31.910	91.0	Benzyl Chloride	337		N/A
32.162	91.0+134.0	n-Butylbenzene	870	1896	0.022
32.373	146.0+148.0	1,2-Dichlorobenzene	870	1239	0.034
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	474		N/A
36.085	180.0+182.0	1,2,4-Trichlorobenzene	855	2373	0.083
36.337	225.0+226.0	Hexachlorobutadiene	967	879	0.050
36.673	128.0	Naphthalene	946	2784	0.185
37.185	180.0+182.0	1,2,3-Trichlorobenzene	988	1767	0.071

CONFIDENTIAL LMC-PET-00000625

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121462.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311995-003_10ml-3	**Acquisition Date:**	10/17/2012 10:35:53 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.746	96.0+70.0	Fluorobenzene (IS1)	998	561410	25.000
25.058	117.0	Chlorobenzene-d5(IS2)	991	464496	25.000
31.356	152.0	1,4-Dichlorobenzene-d4(IS3)	987	268424	25.000
5.038	85.0	Dichlorodifluoromethane	807	323	0.032
5.725	47.0+49.0+51.0	Chloromethane	554		N/A
6.134	62.0+64.0	Vinyl Chloride	892		N/A
7.354	94.0	Bromomethane	683	76	0.038
7.855	49.0+45.0	Chloroethane	693		N/A
8.796	101.0+103.0	Trichlorofluoromethane	950	549	0.028
9.937	59.0	Ethyl ether	786	82	0.037
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	862		N/A
10.655	61.0+96.0+98.0	1,1-Dichloroethene	966	1955	0.083
11.038	55.0+56.0	Acrolein	262		N/A
11.053	43.0+58.0	Acetone	520	961	1.386
11.162	142.0	Iodomethane	950	241	0.019
11.314	76.0	Carbon disulfide	802	619	0.048
11.818	41.0+40.0	Acetonitrile	509		N/A
11.817	41.0+39.0	Allyl chloride	560		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	106		N/A
12.235	49.0	Methylene Chloride	719	1494	0.122
12.732	59.0	tert-Butanol	395	243	1.104
12.893	73.0	Methyl-tert-butyl-ether (MTBE)	940	1077	0.146
12.924	61.0+96.0	t-1,2-Dichloroethene	801	1048	0.055

ALAB : 00234

CONFIDENTIAL

LMC-PET-00000626

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	553		N/A
13.472	55.9+41.0	n-Hexane	743		N/A
14.021	63.0	1,1-Dichloroethane	927	810	0.066
14.049	45.0	Isopropyl ether	705		N/A
14.176	53.0	Chloroprene	458		N/A
14.042	43.0	Vinyl acetate	799		N/A
14.915	59.0	Ethyl-tert-butyl-ether	598	236	0.014
15.320	77.0	2,2-Dichloropropane	760		N/A
15.409	96.0	c-1,2-Dichloroethene	783	901	0.140
15.464	43.0+72.0	2-Butanone (MEK)	120		N/A
15.609	54.0+55.0	Propionitrile	251		N/A
15.947	130.0+49.0	Bromochloromethane	848	316	0.042
15.692	39.0+41.0+71.0	Tetrahydrofuran	510		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	452		N/A
16.095	83.0+85.0	Chloroform	974	5206	0.271
16.403	97.0+99.0	1,1,1-Trichloroethane	717	427	0.017
16.439	111.0	Dibromofluoromethane (Surr1)	994	95025	23.435
16.727	117.0+119.0	Carbon Tetrachloride	829		N/A
16.734	75.0	1,1-Dichloropropene	782		N/A
17.016	41.0+39.0	Isobutyl alcohol	424		N/A
17.146	65.0	1,2-Dichloroethane-d4 (Surr2)	996	106950	23.708
17.201	78.0	Benzene	705	1049	0.054
17.324	62.0+64.0	1,2-Dichloroethane	529	566	0.063
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	569		N/A
18.478	130.0+132.0+95.0	Trichloroethene	981	3110	0.141
18.927	63.0+65.0	1,2-Dichloropropane	601		N/A
18.939	41.0+39.0	Methyl methacrylate	532		N/A
19.091	88.0	1,4-Dioxane	444		N/A
19.270	93.0+174.0	Dibromomethane	858	303	0.054
19.534	83.0+85.0	Bromodichloromethane	900	742	0.060
20.682	63.0+43.0	2-Chloroethyl vinyl ether	414		N/A
20.413	75.0+77.0+39.0	c-1,3-Dichloropropene	464	375	0.024
20.679	43.0+58.0	4-Methyl-2-pentanone	158		N/A
21.006	98.0	Toluene-d8 (Surr3)	990	668348	24.999
21.182	92.0+91.0	Toluene	880	2881	0.043
21.721	75.0+77.0	t-1,3-Dichloropropene	293		N/A
21.740	69.0	Ethyl methacrylate	374		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	820		N/A
22.577	164.0+166.0	Tetrachloroethene	989	789	0.297
22.704	76.0+41.0	1,3-Dichloropropane	479		N/A
22.778	43.0+58.0+100.0	2-Hexanone	303		N/A
23.402	129.0+127.0	Dibromochloromethane	835		N/A
23.807	107.0+109.0	1,2-Dibromoethane	691		N/A
24.895	91.0	1-Chlorohexane	334		N/A
25.160	112.0+114.0	Chlorobenzene	509	246	0.007
25.350	106.0+91.0	Ethylbenzene	902	1300	0.015
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	504		N/A
25.687	106.0+91.0	p,m-Xylenes	925	2618	0.030
26.842	106.0+91.0	o-Xylene	882	875	0.010
26.860	104.0+78.0	Styrene	727		N/A
27.543	171.0+173.0+175.0	Bromoform	305		N/A

ALAB : 00235

CONFIDENTIAL LMC-PET-00000627

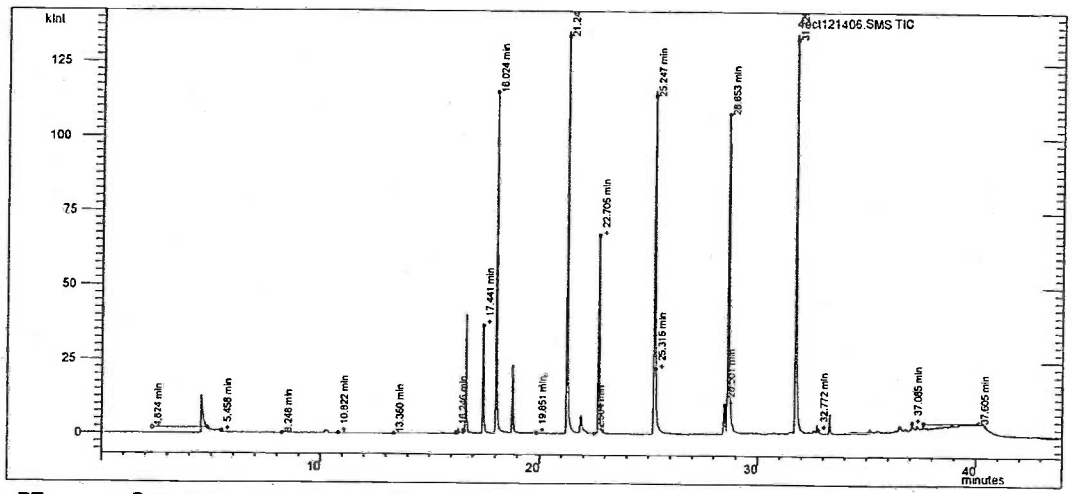
RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.784	105.0+120.0	Isopropylbenzene	760	543	0.006
28.334	95.0	p-Bromofluorobenzene (Surr4)	984	336531	24.254
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	668		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	574		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	365		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	247		N/A
28.774	77.0+158.0	Bromobenzene	856		N/A
28.892	91.0+120.0	n-Propylbenzene	885		N/A
29.223	91.0+126.0	2-Chlorotoluene	871		N/A
29.361	105.0+120.0	1,3,5-Trimethylbenzene	819	1156	0.010
29.498	91.0+126.0	4-Chlorotoluene	873		N/A
30.193	119.0+91.0	tert-Butylbenzene	728		N/A
30.370	105.0+120.0	1,2,4-Trimethylbenzene	939	2635	0.026
30.364	117.0	Pentachloroethane	452		N/A
30.753	105.0+134.0	sec-Butylbenzene	888		N/A
31.127	119.0	4-Isopropyltoluene	854	1404	0.018
31.218	146.0+148.0	1,3-Dichlorobenzene	966	1599	0.035
31.420	146.0+148.0	1,4-Dichlorobenzene	421	1616	0.040
31.910	91.0	Benzyl Chloride	548		N/A
32.172	91.0+134.0	n-Butylbenzene	943	2094	0.023
32.388	146.0+148.0	1,2-Dichlorobenzene	848	1373	0.037
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	507		N/A
36.099	180.0+182.0	1,2,4-Trichlorobenzene	864	2000	0.069
36.348	225.0+226.0	Hexachlorobutadiene	970	627	0.035
36.689	128.0	Naphthalene	947	2256	0.147
37.196	180.0+182.0	1,2,3-Trichlorobenzene	963	1667	0.066

CONFIDENTIAL LMC-PET-00000628

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121406.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	311995-004_10mL-4	**Acquisition Date:**	10/19/2012 10:23:19 PM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.024	96.0+70.0	Fluorobenzene (IS1)	894	185905	25.000
25.247	117.0	Chlorobenzene-d5(IS2)	986	152117	25.000
31.729	152.0	1,4-Dichlorobenzene-d4(IS3)	944	77248	25.000
4.824	85.0	Dichlorodifluoromethane	567	49	0.015
5.458	50.0+52.0+49.0	Chloromethane	387	63	0.022
5.812	62.0+64.0	Vinyl Chloride	809		N/A
7.014	94.0+45.0	Bromomethane	573		N/A
7.411	45.0+49.0	Chloroethane	592		N/A
8.248	101.0+103.0	Trichlorofluoromethane	827	125	0.018
9.497	59.0	Ethyl ether	538		N/A
10.234	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	893	1918	0.460
11.202	56.0	Acrolein	477		N/A
10.322	96.0+61.0+98.0	1,1-Dichloroethene	933	1917	0.355
10.845	142.0	Iodomethane	863		N/A
10.822	43.0+58.0	Acetone	770	180	0.565
11.515	45.0	Isopropyl alcohol (2-Propanol)	719		N/A
10.957	76.0	Carbon disulfide	471		N/A
13.346	41.0	Acetonitrile	768		N/A
11.623	41.0+39.0	Allyl chloride	698		N/A
12.147	84.0+49.0+86.0	Methylene Chloride	860	306	0.050
12.615	59.0	tert-Butanol	515		N/A
12.825	73.0	Methyl-tert-butyl-ether (MTBE)	861	373	0.108
12.801	61.0+96.0	t-1,2-Dichloroethene	668		N/A

10/28/12

ALAB : 88236

CONFIDENTIAL

LMC-PET-00000629

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	477		N/A
13.360	41.0	n-Hexane	820		N/A
14.068	63.0	1,1-Dichloroethane	598		N/A
14.298	43.0	Vinyl acetate	358		N/A
14.055	45.0	Isopropyl ether	413		N/A
14.201	53.0	Chloroprene	455		N/A
14.968	59.0	Ethyl-tert-butyl-ether	240		N/A
15.440	77.0+41.0	2,2-Dichloropropane	707		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	776		N/A
15.719	43.0+72.0	2-Butanone (MEK)	537		N/A
15.948	54.0	Propionitrile	256		N/A
16.123	130.0+49.0	Bromochloromethane	298		N/A
17.528	39.0	Methacrylonitrile	448		N/A
16.303	83.0+85.0	Chloroform	988	3009	0.382
16.604	97.0+99.0	1,1,1-Trichloroethane	858	189	0.020
16.666	111.0	Dibromofluoromethane (Surr1)	991	39667	25.902
16.897	117.0+119.0	Carbon Tetrachloride	935	427	0.054
16.246	42.0+72.0	Tetrahydrofuran	767	169	0.549
16.949	75.0+39.0	1,1-Dichloropropene	556		N/A
17.378	78.0	Benzene	525		N/A
17.441	65.0	1,2-Dichloroethane-d4 (Surr2)	985	59060	28.386
17.593	62.0+64.0	1,2-Dichloroethane	306	12	0.003
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	559		N/A
18.767	130.0+132.0+95.0	Trichloroethene	996	32316	4.154
19.397	41.0	Methyl methacrylate	681		N/A
19.273	63.0+65.0	1,2-Dichloropropane	827		N/A
19.543	93.0+174.0	Dibromomethane	677		N/A
20.281	88.0	1,4-Dioxane	329		N/A
19.851	83.0+85.0	Bromodichloromethane	954	481	0.086
20.393	63.0+43.0	2-Chloroethyl vinyl ether	585		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	588		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	439		N/A
21.247	98.0	Toluene-d8 (Surr3)	997	210007	25.799
21.420	92.0+91.0	Toluene	316	694	0.036
22.013	69.0	Ethyl methacrylate	385		N/A
23.027	43.0+58.0+100.0	2-Hexanone	457		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	160		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	384		N/A
22.705	164.0+166.0	Tetrachloroethene	997	14788	17.121
22.703	76.0+41.0	1,3-Dichloropropane	301	274	0.064
17.440	41.0	Isobutyl alcohol	581		N/A
23.543	129.0+127.0	Dibromochloromethane	765		N/A
23.948	107.0+109.0	1,2-Dibromoethane	562		N/A
25.749	91.0	1-Chlorohexane	739		N/A
25.315	112.0+114.0	Chlorobenzene	246		N/A
25.481	106.0+91.0	Ethylbenzene	708		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	553		N/A
25.823	106.0+91.0	p,m-Xylenes	778		N/A
27.024	106.0+91.0	o-Xylene	825		N/A
27.106	104.0+78.0	Styrene	588		N/A
27.764	171.0+173.0+175.0	Bromoform	436		N/A

ALAB : 00237

CONFIDENTIAL LMC-PET-00000630

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.073	105.0+120.0	Isopropylbenzene	807	110	0.005
28.501	75.0	cis-1,4-Dichloro-2-butene	649	460	1.365
28.653	95.0	p-Bromofluorobenzene (Surr4)	998	104435	27.238
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	599		N/A
29.044	77.0+158.0	Bromobenzene	806		N/A
29.148	91.0+120.0	n-Propylbenzene	866		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	586		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	669		N/A
29.517	91.0+126.0	2-Chlorotoluene	810		N/A
29.703	105.0+120.0	1,3,5-Trimethylbenzene	903	651	0.028
29.521	91.0+126.0	4-Chlorotoluene	817		N/A
30.485	119.0+91.0	tert-Butylbenzene	823		N/A
30.726	105.0+120.0	1,2,4-Trimethylbenzene	931	748	0.034
31.431	117.0	Pentachloroethane	721		N/A
31.116	105.0+134.0	sec-Butylbenzene	943	634	0.027
30.483	119.0	4-Isopropyltoluene	736		N/A
31.576	146.0+148.0	1,3-Dichlorobenzene	933	493	0.041
31.578	146.0+148.0	1,4-Dichlorobenzene	939	486	0.041
32.112	91.0	Benzyl Chloride	431		N/A
32.526	91.0+134.0	n-Butylbenzene	903	595	0.033
32.772	146.0+148.0	1,2-Dichlorobenzene	840	684	0.061
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	648		N/A
37.603	180.0+182.0	1,2,4-Trichlorobenzene	980	2471	0.323
36.683	225.0+226.0	Hexachlorobutadiene	940		N/A
37.085	128.0	Naphthalene	994	3102	0.546
37.605	180.0+182.0	1,2,3-Trichlorobenzene	990	2409	0.325

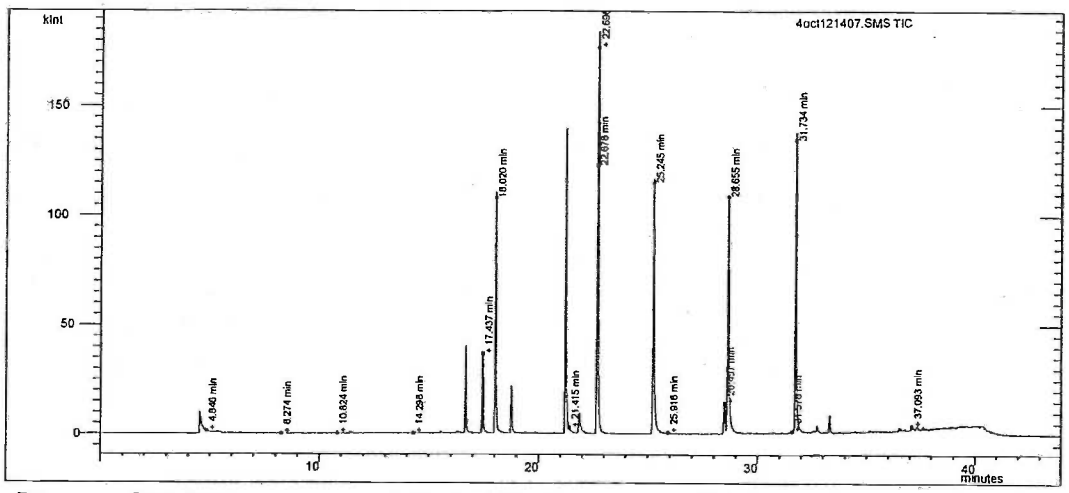
ALAB : 00238

CONFIDENTIAL LMC-PET-00000631

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121407.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	311995-006_10mL-2	**Acquisition Date:**	10/19/2012 11:12:25 PM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	914	187511	25.000
25.245	117.0	Chlorobenzene-d5(IS2)	987	155646	25.000
31.734	152.0	1,4-Dichlorobenzene-d4(IS3)	948	76697	25.000
4.846	85.0	Dichlorodifluoromethane	627	115	0.036
5.446	50.0+52.0+49.0	Chloromethane	255		N/A
5.812	62.0+64.0	Vinyl Chloride	673		N/A
7.014	94.0+45.0	Bromomethane	566		N/A
7.411	45.0+49.0	Chloroethane	419		N/A
8.274	101.0+103.0	Trichlorofluoromethane	753	26	0.004
9.497	59.0	Ethyl ether	617		N/A
10.258	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	821	135	0.032
11.202	56.0	Acrolein	573		N/A
10.323	96.0+61.0+98.0	1,1-Dichloroethene	855	417	0.077
10.845	142.0	Iodomethane	775		N/A
10.824	43.0+58.0	Acetone	861	845	2.639
11.515	45.0	Isopropyl alcohol (2-Propanol)	810		N/A
10.957	76.0	Carbon disulfide	623		N/A
13.346	41.0	Acetonitrile	861		N/A
11.427	41.0+39.0	Allyl chloride	533	458	0.058
12.144	84.0+49.0+86.0	Methylene Chloride	881	650	0.106
12.615	59.0	tert-Butanol	657		N/A
12.834	73.0	Methyl-tert-butyl-ether (MTBE)	809	216	0.062
12.801	61.0+96.0	t-1,2-Dichloroethene	635		N/A

10/29/12

ALAB : 00239

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	323		N/A
13.350	41.0	n-Hexane	701		N/A
14.068	63.0	1,1-Dichloroethane	602		N/A
14.298	43.0	Vinyl acetate	503		N/A
14.055	45.0	Isopropyl ether	610		N/A
14.201	53.0	Chloroprene	526		N/A
14.968	59.0	Ethyl-tert-butyl-ether	255		N/A
15.440	77.0+41.0	2,2-Dichloropropane	654		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	544		N/A
15.555	43.0+72.0	2-Butanone (MEK)	612	42	0.081
15.948	54.0	Propionitrile	323		N/A
16.308	130.0+49.0	Bromochloromethane	354	132	0.036
17.528	39.0	Methacrylonitrile	360		N/A
16.299	83.0+85.0	Chloroform	984	1967	0.248
16.584	97.0+99.0	1,1,1-Trichloroethane	8		N/A
16.664	111.0	Dibromofluoromethane (Surr1)	985	40013	25.904
16.861	117.0+119.0	Carbon Tetrachloride	831		N/A
16.180	42.0+72.0	Tetrahydrofuran	835		N/A
16.949	75.0+39.0	1,1-Dichloropropene	615		N/A
17.416	78.0	Benzene	427	93	0.015
17.437	65.0	1,2-Dichloroethane-d4 (Surr2)	987	57623	27.458
17.581	62.0+64.0	1,2-Dichloroethane	273		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	383		N/A
18.764	130.0+132.0+95.0	Trichloroethene	995	30975	3.891
19.397	41.0	Methyl methacrylate	664		N/A
19.273	63.0+65.0	1,2-Dichloropropane	793		N/A
19.543	93.0+174.0	Dibromomethane	417		N/A
20.281	88.0	1,4-Dioxane	391		N/A
19.868	83.0+85.0	Bromodichloromethane	834	152	0.026
20.393	63.0+43.0	2-Chloroethyl vinyl ether	696		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	555		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	603		N/A
21.245	98.0	Toluene-d8 (Surr3)	997	211661	25.412
21.415	92.0+91.0	Toluene	373	967	0.049
22.013	69.0	Ethyl methacrylate	211		N/A
23.174	43.0+58.0+100.0	2-Hexanone	609	32	0.028
22.043	75.0+77.0	t-1,3-Dichloropropene	84		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	397		N/A
22.696	164.0+166.0	Tetrachloroethene	997	40339	45.643
22.678	76.0+41.0	1,3-Dichloropropane	439	281	0.064
17.440	41.0	Isobutyl alcohol	581		N/A
23.543	129.0+127.0	Dibromochloromethane	625		N/A
24.048	107.0+109.0	1,2-Dibromoethane	618	15	0.004
25.749	91.0	1-Chlorohexane	703		N/A
25.315	112.0+114.0	Chlorobenzene	268		N/A
25.481	106.0+91.0	Ethylbenzene	763		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	469		N/A
25.916	106.0+91.0	p,m-Xylenes	845	200	0.010
27.024	106.0+91.0	o-Xylene	738		N/A
27.295	104.0+78.0	Styrene	745	79	0.007
27.764	171.0+173.0+175.0	Bromoform	531		N/A

ALAB : 00240

CONFIDENTIAL

LMC-PET-00000633

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	816		N/A
28.497	75.0	cis-1,4-Dichloro-2-butene	632	659	1.969
28.655	95.0	p-Bromofluorobenzene (Surr4)	999	105700	27.766
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	561		N/A
29.096	77.0+158.0	Bromobenzene	840	190	0.021
29.148	91.0+120.0	n-Propylbenzene	784		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	670		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	744		N/A
29.517	91.0+126.0	2-Chlorotoluene	802		N/A
29.721	105.0+120.0	1,3,5-Trimethylbenzene	871	867	0.038
29.521	91.0+126.0	4-Chlorotoluene	819		N/A
30.485	119.0+91.0	tert-Butylbenzene	778		N/A
30.736	105.0+120.0	1,2,4-Trimethylbenzene	890	1069	0.048
31.431	117.0	Pentachloroethane	519		N/A
31.109	105.0+134.0	sec-Butylbenzene	899	480	0.021
30.537	119.0	4-Isopropyltoluene	655	72	0.004
31.578	146.0+148.0	1,3-Dichlorobenzene	895	467	0.040
31.581	146.0+148.0	1,4-Dichlorobenzene	898	300	0.025
32.112	91.0	Benzyl Chloride	519		N/A
32.544	91.0+134.0	n-Butylbenzene	918	265	0.015
32.809	146.0+148.0	1,2-Dichlorobenzene	795	325	0.029
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	595		N/A
37.608	180.0+182.0	1,2,4-Trichlorobenzene	975	2005	0.264
36.683	225.0+226.0	Hexachlorobutadiene	898		N/A
37.093	128.0	Naphthalene	980	2382	0.423
37.610	180.0+182.0	1,2,3-Trichlorobenzene	982	1911	0.259

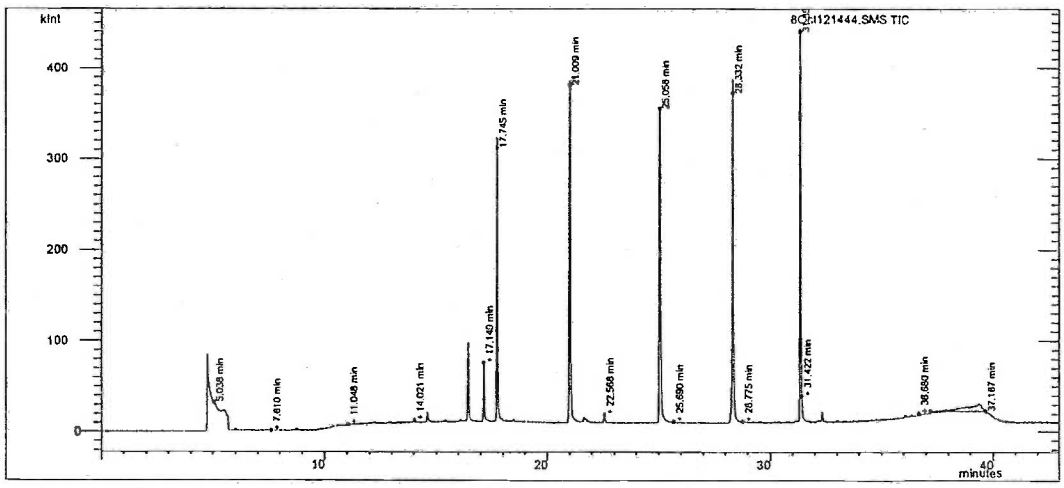
ALAB : 00241

CONFIDENTIAL LMC-PET-00000634

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121444.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311995-007_10ml-7	**Acquisition Date:**	10/16/2012 8:36:41 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.745	96.0+70.0	Fluorobenzene (IS1)	998	553620	25.000
25.058	117.0	Chlorobenzene-d5(IS2)	992	450931	25.000
31.355	152.0	1,4-Dichlorobenzene-d4(IS3)	990	250348	25.000
5.038	85.0	Dichlorodifluoromethane	980	4794	0.480
5.725	47.0+49.0+51.0	Chloromethane	463		N/A
6.134	62.0+64.0	Vinyl Chloride	820		N/A
7.437	94.0	Bromomethane	878	37	0.018
7.610	49.0+45.0	Chloroethane	668	295	0.483
8.782	101.0+103.0	Trichlorofluoromethane	961	1413	0.074
9.933	59.0	Ethyl ether	840	104	0.048
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	954	661	0.045
10.640	61.0+96.0+98.0	1,1-Dichloroethene	983	1893	0.082
11.038	55.0+56.0	Acrolein	226		N/A
11.048	43.0+58.0	Acetone	565	1231	1.802
11.156	142.0	Iodomethane	951	351	0.028
11.300	76.0	Carbon disulfide	621	721	0.057
11.818	41.0+40.0	Acetonitrile	251		N/A
11.817	41.0+39.0	Allyl chloride	647		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	590		N/A
12.232	49.0	Methylene Chloride	955	2144	0.177
12.737	59.0	tert-Butanol	596	237	1.096
12.889	73.0	Methyl-tert-butyl-ether (MTBE)	875	322	0.044
12.921	61.0+96.0	t-1,2-Dichloroethene	863	1043	0.056

10/19/12

ALAB : 00242

CONFIDENTIAL LMC-PET-00000635

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	472		N/A
13.472	55.9+41.0	n-Hexane	490		N/A
14.021	63.0	1,1-Dichloroethane	991	4297	0.357
14.049	45.0	Isopropyl ether	721		N/A
14.176	53.0	Chloroprene	143		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.920	59.0	Ethyl-tert-butyl-ether	628	180	0.011
15.320	77.0	2,2-Dichloropropane	629		N/A
15.400	96.0	c-1,2-Dichloroethene	935	1469	0.231
15.651	43.0+72.0	2-Butanone (MEK)	349	166	0.194
15.609	54.0+55.0	Propionitrile	148		N/A
15.962	130.0+49.0	Bromochloromethane	896	471	0.063
15.692	39.0+41.0+71.0	Tetrahydrofuran	463		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	424		N/A
16.096	83.0+85.0	Chloroform	852	2007	0.106
16.398	97.0+99.0	1,1,1-Trichloroethane	683	504	0.021
16.439	111.0	Dibromofluoromethane (Surr1)	991	97670	24.426
16.727	117.0+119.0	Carbon Tetrachloride	931		N/A
16.734	75.0	1,1-Dichloropropene	786		N/A
17.016	41.0+39.0	Isobutyl alcohol	554		N/A
17.149	65.0	1,2-Dichloroethane-d4 (Surr2)	996	109366	24.585
17.203	78.0	Benzene	644	828	0.043
17.322	62.0+64.0	1,2-Dichloroethane	550	813	0.092
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	585		N/A
18.478	130.0+132.0+95.0	Trichloroethene	993	3805	0.178
18.965	63.0+65.0	1,2-Dichloropropane	645	390	0.069
18.939	41.0+39.0	Methyl methacrylate	655		N/A
19.091	88.0	1,4-Dioxane	272		N/A
19.279	93.0+174.0	Dibromomethane	911	415	0.076
19.513	83.0+85.0	Bromodichloromethane	478		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	476		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	229		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	348		N/A
21.009	98.0	Toluene-d8 (Surr3)	997	665743	25.651
21.182	92.0+91.0	Toluene	894	2794	0.043
21.721	75.0+77.0	t-1,3-Dichloropropene	261		N/A
21.740	69.0	Ethyl methacrylate	190		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	563		N/A
22.568	164.0+166.0	Tetrachloroethene	994	2048	0.795
22.704	76.0+41.0	1,3-Dichloropropane	594		N/A
22.778	43.0+58.0+100.0	2-Hexanone	312		N/A
23.402	129.0+127.0	Dibromochloromethane	531		N/A
23.807	107.0+109.0	1,2-Dibromoethane	702		N/A
24.895	91.0	1-Chlorohexane	291		N/A
25.151	112.0+114.0	Chlorobenzene	558	578	0.016
25.363	106.0+91.0	Ethylbenzene	747	1333	0.016
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	589		N/A
25.690	106.0+91.0	p,m-Xylenes	937	2428	0.029
26.837	106.0+91.0	o-Xylene	890	972	0.012
26.860	104.0+78.0	Styrene	818		N/A
27.543	171.0+173.0+175.0	Bromoform	566		N/A

ALAB : 00243

CONFIDENTIAL LMC-PET-00000636

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	846		N/A
28.332	95.0	p-Bromofluorobenzene (Surr4)	989	325280	25.135
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	647		N/A
28.775	75.0+110.0	1,2,3-Trichloropropane	431	40	0.009
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	333		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	215		N/A
28.774	77.0+158.0	Bromobenzene	881		N/A
28.892	91.0+120.0	n-Propylbenzene	874		N/A
29.223	91.0+126.0	2-Chlorotoluene	884		N/A
29.357	105.0+120.0	1,3,5-Trimethylbenzene	838	1217	0.012
29.498	91.0+126.0	4-Chlorotoluene	877		N/A
30.193	119.0+91.0	tert-Butylbenzene	668		N/A
30.368	105.0+120.0	1,2,4-Trimethylbenzene	913	2358	0.025
30.364	117.0	Pentachloroethane	475		N/A
30.753	105.0+134.0	sec-Butylbenzene	860		N/A
31.114	119.0	4-Isopropyltoluene	837	1918	0.026
31.212	146.0+148.0	1,3-Dichlorobenzene	953	1854	0.043
31.422	146.0+148.0	1,4-Dichlorobenzene	475	1854	0.049
31.910	91.0	Benzyl Chloride	203		N/A
32.170	91.0+134.0	n-Butylbenzene	849	2343	0.028
32.383	146.0+148.0	1,2-Dichlorobenzene	862	1536	0.044
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	588		N/A
36.091	180.0+182.0	1,2,4-Trichlorobenzene	872	2366	0.087
36.340	225.0+226.0	Hexachlorobutadiene	973	896	0.053
36.680	128.0	Naphthalene	957	2639	0.184
37.187	180.0+182.0	1,2,3-Trichlorobenzene	986	1895	0.080

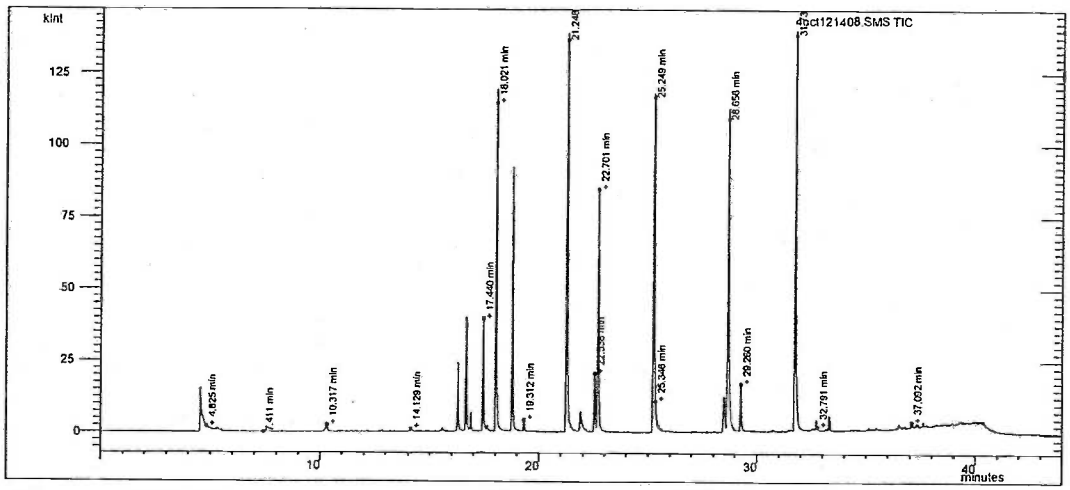
ALAB : 00244

CONFIDENTIAL LMC-PET-00000637

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name:	c:\varianws\data\4oct12\4oct121408.SMS	**Calc Method:**	C:\VarianWS\methods\ms4_524_101812_35C.mth
Sample Name:	311995-008_10mL-7	**Acquisition Date:**	10/20/2012 12:02:48 AM
Inj. Notes:	pH<2	**Operator Name:**	NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.021	96.0+70.0	Fluorobenzene (IS1)	902	191218	25.000
25.249	117.0	Chlorobenzene-d5(IS2)	996	156286	25.000
31.735	152.0	1,4-Dichlorobenzene-d4(IS3)	948	78515	25.000
4.825	85.0	Dichlorodifluoromethane	705	199	0.060
5.446	50.0+52.0+49.0	Chloromethane	232		N/A
5.812	62.0+64.0	Vinyl Chloride	793		N/A
7.014	94.0+45.0	Bromomethane	566		N/A
7.411	45.0+49.0	Chloroethane	696		N/A
8.264	101.0+103.0	Trichlorofluoromethane	883	179	0.025
9.497	59.0	Ethyl ether	631		N/A
10.238	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	913	2109	0.492
11.202	56.0	Acrolein	620		N/A
10.317	96.0+61.0+98.0	1,1-Dichloroethene	929	5975	1.076
10.845	142.0	Iodomethane	907		N/A
10.822	43.0+58.0	Acetone	843	293	~~0.897~~
11.515	45.0	Isopropyl alcohol (2-Propanol)	761		N/A
10.957	76.0	Carbon disulfide	595		N/A
13.346	41.0	Acetonitrile	866		N/A
11.623	41.0+39.0	Allyl chloride	681		N/A
12.146	84.0+49.0+86.0	Methylene Chloride	875	702	0.112
12.615	59.0	tert-Butanol	699		N/A
12.820	73.0	Methyl-tert-butyl-ether (MTBE)	869	491	0.138
12.817	61.0+96.0	t-1,2-Dichloroethene	694	35	0.005

15/29/12

ALAB : 00245

CONFIDENTIAL

LMC-PET-00000638

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	385		N/A
13.360	41.0	n-Hexane	783		N/A
14.090	63.0	1,1-Dichloroethane	952	402	0.092
14.298	43.0	Vinyl acetate	396		N/A
14.129	45.0	Isopropyl ether	956	1581	0.253
14.201	53.0	Chloroprene	318		N/A
14.968	59.0	Ethyl-tert-butyl-ether	283		N/A
15.440	77.0+41.0	2,2-Dichloropropane	580		N/A
15.587	61.0+96.0	c-1,2-Dichloroethene	953	1558	0.245
15.719	43.0+72.0	2-Butanone (MEK)	607		N/A
15.948	54.0	Propionitrile	290		N/A
16.123	130.0+49.0	Bromochloromethane	265		N/A
17.528	39.0	Methacrylonitrile	479		N/A
16.296	83.0+85.0	Chloroform	992	47925	5.919
16.600	97.0+99.0	1,1,1-Trichloroethane	818	303	0.031
16.665	111.0	Dibromofluoromethane (Surr1)	988	40095	25.454
16.891	117.0+119.0	Carbon Tetrachloride	986	11402	1.412
16.276	42.0+72.0	Tetrahydrofuran	650	345	1.086
16.949	75.0+39.0	1,1-Dichloropropene	640		N/A
17.423	78.0	Benzene	660	332	0.051
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	995	58979	27.559
17.621	62.0+64.0	1,2-Dichloroethane	669	3569	0.850
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	314		N/A
18.758	130.0+132.0+95.0	Trichloroethene	997	130756	16.358
19.312	41.0	Methyl methacrylate	727	1519	1.386
19.307	63.0+65.0	1,2-Dichloropropane	996	2322	1.124
19.543	93.0+174.0	Dibromomethane	524		N/A
20.281	88.0	1,4-Dioxane	434		N/A
19.856	83.0+85.0	Bromodichloromethane	898	292	0.050
20.393	63.0+43.0	2-Chloroethyl vinyl ether	618		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	584		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	417		N/A
21.248	98.0	Toluene-d8 (Surr3)	997	215357	25.750
21.421	92.0+91.0	Toluene	479	1347	0.068
22.013	69.0	Ethyl methacrylate	474		N/A
23.014	43.0+58.0+100.0	2-Hexanone	486	35	0.030
22.043	75.0+77.0	t-1,3-Dichloropropene	171		N/A
22.538	97.0+99.0	1,1,2-Trichloroethane	998	19410	6.486
22.701	164.0+166.0	Tetrachloroethene	997	18198	20.507
22.712	76.0+41.0	1,3-Dichloropropane	569	256	0.058
17.440	41.0	Isobutyl alcohol	435		N/A
23.543	129.0+127.0	Dibromochloromethane	744		N/A
23.948	107.0+109.0	1,2-Dibromoethane	513		N/A
25.749	91.0	1-Chlorohexane	675		N/A
25.346	112.0+114.0	Chlorobenzene	317	584	0.046
25.481	106.0+91.0	Ethylbenzene	614		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	526		N/A
25.916	106.0+91.0	p,m-Xylenes	887	716	0.036
27.082	106.0+91.0	o-Xylene	875	400	0.020
27.289	104.0+78.0	Styrene	607	30	0.002
27.764	171.0+173.0+175.0	Bromoform	498		N/A

ALAB : 00246

CONFIDENTIAL LMC-PET-00000639

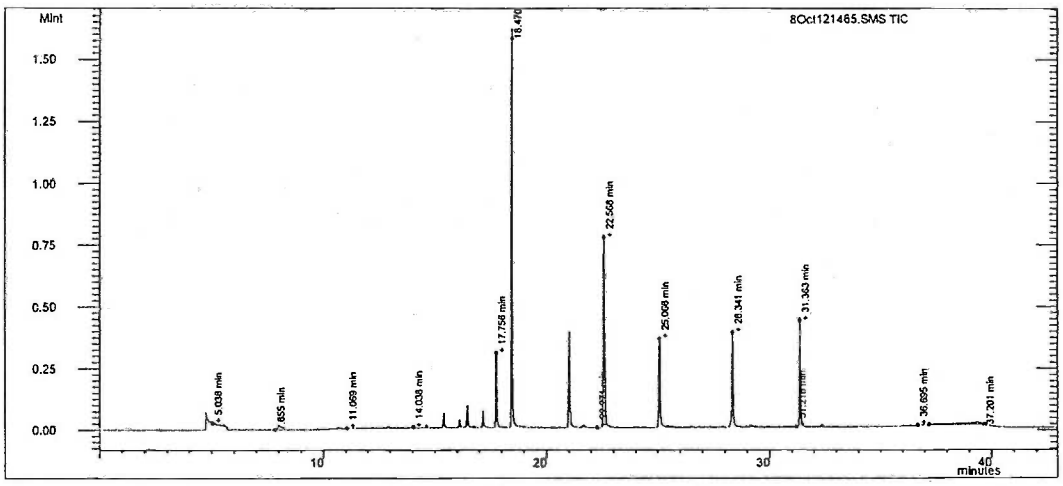
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	834		N/A
28.484	75.0	cis-1,4-Dichloro-2-butene	568	298	~~0.870~~
28.656	95.0	p-Bromofluorobenzene (Surr4)	998	108166	27.756
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	551		N/A
29.258	77.0+158.0	Bromobenzene	414	269	0.029
29.148	91.0+120.0	n-Propylbenzene	780		N/A
29.260	75.0	trans-1,4-Dichloro-2-butene	825	12588	~~7.965~~
29.260	75.0+110.0	1,2,3-Trichloropropane	926	18699	8.911
29.517	91.0+126.0	2-Chlorotoluene	865		N/A
29.650	105.0+120.0	1,3,5-Trimethylbenzene	875	898	0.038
29.521	91.0+126.0	4-Chlorotoluene	835		N/A
30.485	119.0+91.0	tert-Butylbenzene	737		N/A
30.738	105.0+120.0	1,2,4-Trimethylbenzene	973	920	0.041
31.431	117.0	Pentachloroethane	611		N/A
31.067	105.0+134.0	sec-Butylbenzene	869		N/A
30.483	119.0	4-Isopropyltoluene	735		N/A
31.578	146.0+148.0	1,3-Dichlorobenzene	896	88	0.007
31.579	146.0+148.0	1,4-Dichlorobenzene	906	262	0.022
32.112	91.0	Benzyl Chloride	554		N/A
32.474	91.0+134.0	n-Butylbenzene	972		N/A
32.791	146.0+148.0	1,2-Dichlorobenzene	823	341	0.030
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	681		N/A
37.609	180.0+182.0	1,2,4-Trichlorobenzene	967	2210	0.284
36.683	225.0+226.0	Hexachlorobutadiene	955		N/A
37.092	128.0	Naphthalene	992	1898	0.329
37.609	180.0+182.0	1,2,3-Trichlorobenzene	984	1489	0.197

CONFIDENTIAL LMC-PET-00000640

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121465.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311995-010_10ml-15	**Acquisition Date:**	10/17/2012 12:54:54 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.756	96.0+70.0	Fluorobenzene (IS1)	997	565336	25.000
25.066	117.0	Chlorobenzene-d5(IS2)	991	471618	25.000
31.363	152.0	1,4-Dichlorobenzene-d4(IS3)	989	263334	25.000
5.038	85.0	Dichlorodifluoromethane	954	3293	0.323
5.725	47.0+49.0+51.0	Chloromethane	339		N/A
6.134	62.0+64.0	Vinyl Chloride	693		N/A
7.435	94.0	Bromomethane	749		N/A
7.855	49.0+45.0	Chloroethane	475		N/A
8.816	101.0+103.0	Trichlorofluoromethane	958	694	0.036
9.967	59.0	Ethyl ether	782	36	0.016
10.623	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	974	897	0.060
10.665	61.0+96.0+98.0	1,1-Dichloroethene	988	12541	0.531
11.038	55.0+56.0	Acrolein	486		N/A
11.069	43.0+58.0	Acetone	540	1267	1.816
11.174	142.0	Iodomethane	956	193	0.015
11.329	76.0	Carbon disulfide	714	575	0.044
11.818	41.0+40.0	Acetonitrile	875		N/A
11.817	41.0+39.0	Allyl chloride	824		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	582		N/A
12.251	49.0	Methylene Chloride	800	2046	0.166
12.748	59.0	tert-Butanol	708	290	1.309
12.908	73.0	Methyl-tert-butyl-ether (MTBE)	930	1230	0.165
12.939	61.0+96.0	t-1,2-Dichloroethene	938	12591	0.661

10/29/12

ALAB : 00247

CONFIDENTIAL LMC-PET-00000641

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	225		N/A
13.472	55.9+41.0	n-Hexane	744		N/A
14.038	63.0	1,1-Dichloroethane	987	3325	0.271
14.075	45.0	Isopropyl ether	772	522	0.029
14.176	53.0	Chloroprene	158		N/A
14.042	43.0	Vinyl acetate	899		N/A
14.885	59.0	Ethyl-tert-butyl-ether	496		N/A
15.336	77.0	2,2-Dichloropropane	510	309	0.034
15.406	96.0	c-1,2-Dichloroethene	985	39875	6.152
15.421	43.0+72.0	2-Butanone (MEK)	362	335	0.384
15.609	54.0+55.0	Propionitrile	326		N/A
15.966	130.0+49.0	Bromochloromethane	833	290	0.038
15.692	39.0+41.0+71.0	Tetrahydrofuran	471		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	445		N/A
16.102	83.0+85.0	Chloroform	990	67477	3.483
16.413	97.0+99.0	1,1,1-Trichloroethane	782	1025	0.041
16.449	111.0	Dibromofluoromethane (Surr1)	992	95830	23.470
16.750	117.0+119.0	Carbon Tetrachloride	994	9923	0.471
16.734	75.0	1,1-Dichloropropene	759		N/A
17.016	41.0+39.0	Isobutyl alcohol	648		N/A
17.160	65.0	1,2-Dichloroethane-d4 (Surr2)	996	107991	23.772
17.215	78.0	Benzene	759	1366	0.070
17.331	62.0+64.0	1,2-Dichloroethane	819	2939	0.324
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	655		N/A
18.470	130.0+132.0+95.0	Trichloroethene	999	2.702E6	120.858
18.970	63.0+65.0	1,2-Dichloropropane	911	730	0.123
18.939	41.0+39.0	Methyl methacrylate	609		N/A
19.091	88.0	1,4-Dioxane	355		N/A
19.301	93.0+174.0	Dibromomethane	915	172	0.030
19.545	83.0+85.0	Bromodichloromethane	990	2111	0.169
20.682	63.0+43.0	2-Chloroethyl vinyl ether	282		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	641		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	344		N/A
21.016	98.0	Toluene-d8 (Surr3)	990	675904	24.900
21.188	92.0+91.0	Toluene	890	3593	0.053
21.721	75.0+77.0	t-1,3-Dichloropropene	372		N/A
21.740	69.0	Ethyl methacrylate	145		N/A
22.271	97.0+99.0	1,1,2-Trichloroethane	985	1054	0.168
22.568	164.0+166.0	Tetrachloroethene	991	218654	81.172
22.704	76.0+41.0	1,3-Dichloropropane	110		N/A
22.778	43.0+58.0+100.0	2-Hexanone	553		N/A
23.402	129.0+127.0	Dibromochloromethane	608		N/A
23.807	107.0+109.0	1,2-Dibromoethane	678		N/A
24.895	91.0	1-Chlorohexane	426		N/A
25.163	112.0+114.0	Chlorobenzene	579	615	0.016
25.366	106.0+91.0	Ethylbenzene	880	1052	0.012
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	650		N/A
25.689	106.0+91.0	p,m-Xylenes	956	1887	0.022
26.801	106.0+91.0	o-Xylene	610		N/A
26.860	104.0+78.0	Styrene	668		N/A
27.543	171.0+173.0+175.0	Bromoform	264		N/A

ALAB : 00248

CONFIDENTIAL LMC-PET-00000642

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	791		~~N/A~~
28.341	95.0	p-Bromofluorobenzene (Surr4)	989	334885	24.602
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	412		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	435		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	395		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	267		N/A
28.774	77.0+158.0	Bromobenzene	827		N/A
28.892	91.0+120.0	n-Propylbenzene	713		N/A
29.223	91.0+126.0	2-Chlorotoluene	790		N/A
29.366	105.0+120.0	1,3,5-Trimethylbenzene	681	617	0.006
29.498	91.0+126.0	4-Chlorotoluene	904		N/A
30.193	119.0+91.0	tert-Butylbenzene	676		N/A
30.376	105.0+120.0	1,2,4-Trimethylbenzene	954	1947	0.019
30.364	117.0	Pentachloroethane	586		N/A
30.753	105.0+134.0	sec-Butylbenzene	890		N/A
31.131	119.0	4-Isopropyltoluene	913	1524	0.019
31.218	146.0+148.0	1,3-Dichlorobenzene	986	2504	0.056
31.421	146.0+148.0	1,4-Dichlorobenzene	410	1315	0.033
31.910	91.0	Benzyl Chloride	392		N/A
32.175	91.0+134.0	n-Butylbenzene	797	1572	0.018
32.393	146.0+148.0	1,2-Dichlorobenzene	880	1100	0.030
34.297	75.0+157.0	1,2-Dibromo-3-chloropropane	492	45	0.018
36.105	180.0+182.0	1,2,4-Trichlorobenzene	856	2010	0.070
36.360	225.0+226.0	Hexachlorobutadiene	974	654	0.037
36.695	128.0	Naphthalene	949	1860	0.123
37.201	180.0+182.0	1,2,3-Trichlorobenzene	957	1209	0.048

CONFIDENTIAL LMC-PET-00000643

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Associated Labs QCBatch BenchSheet

QCBatchID: QC1130649

Created Date: 10/18/2012
Created By: lucy
Matrix: Water

done

Test: 8260B Alab Low
Method: EPA 8260B
Instrument: VOA-MS (group)
AnalysisDate: 10/18/2012
AnalysisEmployee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	Method Blank_1									
2	311877-001	3850R	311877-001							
3	311877-002	B-1-CW27	311877-002							
4	311877-003	3850N	311877-003							
5	311877-004	TB101012	311877-004							
6	311877-005	B-6-CW01	311877-005							
7	311995-001	TB101112	311995-001							
8	311995-002	Equipment Blank	311995-002							
9	311995-003	B-6-CW02	311995-003							
10	311995-007	C-1-CW05	311995-007							
11	311995-010	B1CW17	311995-010							
12	312159-001	TB101512	312159-001							
13	312159-002	B-1-CW29	312159-002							
14	312159-003	MW-4	312159-003							
15	312159-004	MW-7	312159-004							
16	312159-005	A-1-CW07	312159-005							

InitialCalibSTD: W#12090602
CalibCheckSTD:
InternalSTD: W#12090701
SurrogateSTD:
LCSSTD: W#12090604
MSSTD:

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:

Prep By Signature:

LMC-PET-00000644

CONFIDENTIAL

QCBatchID: QC1130649

Created Date: 10/18/2012
Created By: lucy
Matrix: Water

Test: 8260B Alab Low
Method: EPA 8260B
Instrument: VOA-MS (group)
AnalysisDate: 10/18/2012
AnalysisEmployee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
17	312159-006	EB101512 Equip Blank	312159-006							
18	MS_1		311995-007							
19	MSD_1		311995-007							

InitialCalibSTD:	W#12090602
CalibCheckSTD	
InternalSTD:	W#12090701
SurrogateSTD:	
LCSSTD:	W#12090604
MSSTD:	

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

ALAB:00250

LMC-PET-00000645

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Varian Star Workstation - RecalcList Wed Oct 17 17:00:44 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Tue Nov 18 08:23:28 2008
Modified: Wed Oct 17 16:56:32 2012

****

Line	Sample Name	Data File
1	10ppb 524.2 tune 1	c:\varianws\data\8oct12\8Oct121435.SMS
2	25ppb 524.2 ccv 1	c:\varianws\data\8oct12\8Oct121436.SMS
3	25ppb 524.2 lcs 1	c:\varianws\data\8oct12\8Oct121437.SMS
4	rinse	c:\varianws\data\8oct12\8Oct121438.SMS
5	Method Blank 1	c:\varianws\data\8oct12\8Oct121439.SMS
6	312159-001_10ml-3	c:\varianws\data\8oct12\8Oct121440.SMS
7	312159-006_10ml-11	c:\varianws\data\8oct12\8Oct121441.SMS
8	312159-003_10ml-11	c:\varianws\data\8oct12\8Oct121442.SMS
9	312159-004_10ml-11	c:\varianws\data\8oct12\8Oct121443.SMS
10	311995-007_10ml-7	c:\varianws\data\8oct12\8Oct121444.SMS
11	312159-002_5ml-3	c:\varianws\data\8oct12\8Oct121445.SMS
12	312159-005_1ml-7	c:\varianws\data\8oct12\8Oct121446.SMS
13	312159-002_10ml-3	c:\varianws\data\8oct12\8Oct121447.SMS
14	312159-005_10ml-7	c:\varianws\data\8oct12\8Oct121448.SMS
15	MS_311995-007_10ml	c:\varianws\data\8oct12\8Oct121449.SMS
16	MSD_311995-007_10ml	c:\varianws\data\8oct12\8Oct121450.SMS
17	10ppb 524.2 tune 2	c:\varianws\data\8oct12\8Oct121451.SMS
18	25ppb 524.2 ccv 2	c:\varianws\data\8oct12\8Oct121452.SMS
19	25ppb 524.2 lcs 2 rerun LCS	c:\varianws\data\8oct12\8Oct121453.SMS
20	rinse	c:\varianws\data\8oct12\8Oct121454.SMS
21	Method Blank 2	c:\varianws\data\8oct12\8Oct121455.SMS
22	311877-004_10ml-2	c:\varianws\data\8oct12\8Oct121456.SMS
23	311877-005_10ml-3	c:\varianws\data\8oct12\8Oct121457.SMS
24	311877-002_10ml-4	c:\varianws\data\8oct12\8Oct121458.SMS
25	311877-001_10ml-2	c:\varianws\data\8oct12\8Oct121459.SMS
26	311995-001_10ml-2	c:\varianws\data\8oct12\8Oct121460.SMS
27	311995-002_10ml-6	c:\varianws\data\8oct12\8Oct121461.SMS
28	311995-003_10ml-3	c:\varianws\data\8oct12\8Oct121462.SMS
29	311877-003_1ml-7	c:\varianws\data\8oct12\8Oct121463.SMS
30	311877-003_10ml-7	c:\varianws\data\8oct12\8Oct121464.SMS
31	311995-010_10ml-15	c:\varianws\data\8oct12\8Oct121465.SMS
32	25ppb 524.2 lcs D rerun	c:\varianws\data\8oct12\8Oct121466.SMS
33	10ppb 524.2 tune 1	c:\varianws\data\8oct12\8Oct121467.SMS
34	rinse	c:\varianws\data\8oct12\8Oct121468.SMS
35	25ppb 524.2 lcs D	c:\varianws\data\8oct12\8Oct121469.SMS

ALAB:00251

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\8oct12\8Oct121469.SMS Acquisition Date: 10/17/2012 16:13

Comment: W#12090604

SampleID: 25ppb 524.2 lcs D Analyst: LZ

Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Cal. Sample Dates: First: 10/10/2012 14:21 Last: 10/10/2012 19:39

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
45)	* Fluorobenzene (IS1)	25.00	ppb	25.00	100 %	70 - 130	PASS
66)	* Chlorobenzene-d5(IS2)	25.00	ppb	25.00	100 %	70 - 130	PASS
91)	* 1,4-Dichlorobenzene-d4(IS3)	25.00	ppb	25.00	100 %	70 - 130	PASS
3)	Vinyl Chloride	23.82	ppb	25.00	95 %	50 - 134	PASS
8)	Trichlorotrifluoroethane (Freon 113)	23.43	ppb	25.00	94 %	60 - 140	PASS
9)	1,1-Dichloroethene	23.11	ppb	25.00	92 %	68 - 130	PASS
17)	Methylene Chloride	20.27	ppb	25.00	81 %	63 - 137	PASS
19)	Methyl-tert-butyl-ether (MTBE)	22.30	ppb	25.00	89 %	65 - 123	PASS
20)	t-1,2-Dichloroethene	22.92	ppb	25.00	92 %	63 - 137	PASS
23)	1,1-Dichloroethane	21.70	ppb	25.00	87 %	69 - 133	PASS
27)	Ethyl-tert-butyl-ether	23.92	ppb	25.00	96 %	60 - 140	PASS
28)	2,2-Dichloropropane	24.33	ppb	25.00	97 %	69 - 137	PASS
29)	c-1,2-Dichloroethene	22.88	ppb	25.00	92 %	72 - 126	PASS
32)	Bromochloromethane	22.68	ppb	25.00	91 %	65 - 129	PASS
35)	Chloroform	21.82	ppb	25.00	87 %	69 - 128	PASS
36)	1,1,1-Trichloroethane	23.96	ppb	25.00	96 %	67 - 132	PASS
38)	Carbon Tetrachloride	23.83	ppb	25.00	95 %	66 - 138	PASS
39)	1,1-Dichloropropene	21.66	ppb	25.00	87 %	73 - 132	PASS
42)	Benzene	22.57	ppb	25.00	90 %	81 - 122	PASS
43)	1,2-Dichloroethane	22.29	ppb	25.00	89 %	69 - 132	PASS
44)	tert-Amyl-methyl-ether	22.66	ppb	25.00	91 %	50 - 150	PASS
46)	Trichloroethene	22.15	ppb	25.00	89 %	70 - 127	PASS
47)	1,2-Dichloropropane	22.17	ppb	25.00	89 %	75 - 125	PASS
50)	Dibromomethane	22.93	ppb	25.00	92 %	76 - 125	PASS
51)	Bromodichloromethane	24.18	ppb	25.00	97 %	76 - 121	PASS
54)	4-Methyl-2-pentanone	22.00	ppb	25.00	88 %	58 - 134	PASS
56)	Toluene	23.79	ppb	25.00	95 %	77 - 122	PASS
57)	t-1,3-Dichloropropene	22.60	ppb	25.00	90 %	59 - 135	PASS
59)	1,1,2-Trichloroethane	23.52	ppb	25.00	94 %	75 - 125	PASS
60)	Tetrachloroethene	22.60	ppb	25.00	90 %	66 - 128	PASS
61)	1,3-Dichloropropane	22.41	ppb	25.00	90 %	73 - 126	PASS
62)	2-Hexanone	19.20	ppb	25.00	77 %	60 - 140	PASS
63)	Dibromochloromethane	23.45	ppb	25.00	94 %	66 - 133	PASS
64)	1,2-Dibromoethane	22.60	ppb	25.00	90 %	60 - 140	PASS
67)	Chlorobenzene	24.65	ppb	25.00	99 %	81 - 122	PASS
68)	Ethylbenzene	22.27	ppb	25.00	89 %	73 - 127	PASS
69)	1,1,1,2-Tetrachloroethane	24.43	ppb	25.00	98 %	81 - 129	PASS
70)	p,m-Xylenes	46.87	ppb	50.00	94 %	76 - 128	PASS
71)	o-Xylene	23.98	ppb	25.00	96 %	80 - 121	PASS
72)	Styrene	22.82	ppb	25.00	91 %	65 - 134	PASS
73)	Bromoform	22.06	ppb	25.00	88 %	69 - 128	PASS

ALAB : 00252

CONFIDENTIAL

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
74)	Isopropylbenzene	22.45	ppb	25.00	90 %	75 - 127	PASS
76)	1,1,2,2-Tetrachloroethane	21.15	ppb	25.00	85 %	63 - 128	PASS
80)	Bromobenzene	22.70	ppb	25.00	91 %	76 - 124	PASS
83)	1,3,5-Trimethylbenzene	21.34	ppb	25.00	85 %	74 - 131	PASS
84)	4-Chlorotoluene	22.58	ppb	25.00	90 %	74 - 128	PASS
85)	tert-Butylbenzene	21.47	ppb	25.00	86 %	70 - 129	PASS
88)	sec-Butylbenzene	20.31	ppb	25.00	81 %	72 - 127	PASS
89)	4-Isopropyltoluene	18.39	ppb	25.00	74 %	73 - 130	PASS
90)	1,3-Dichlorobenzene	22.13	ppb	25.00	89 %	75 - 124	PASS
92)	1,4-Dichlorobenzene	20.88	ppb	25.00	84 %	74 - 123	PASS
94)	n-Butylbenzene	17.02	ppb	25.00	68 %	69 - 137	FAIL
96)	1,2-Dibromo-3-chloropropane	20.56	ppb	25.00	82 %	50 - 132	PASS
100)	1,2,3-Trichlorobenzene	19.61	ppb	25.00	78 %	67 - 137	PASS

* indicates Internal Standard.

ALAB : 00253

CONFIDENTIAL LMC-PET-00000648

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\8oct12\8Oct121437.SMS Acquisition Date: 10/16/2012 15:13

Comment: W#12090604

SampleID: 25ppb 524.2 lcs 1 Analyst: LZ

Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Cal. Sample Dates: First: 10/10/2012 14:21 Last: 10/10/2012 19:39

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
45)	* Fluorobenzene (IS1)	25.00	ppb	25.00	100 %	70 - 130	PASS
66)	* Chlorobenzene-d5(IS2)	25.00	ppb	25.00	100 %	70 - 130	PASS
91)	* 1,4-Dichlorobenzene-d4(IS3)	25.00	ppb	25.00	100 %	70 - 130	PASS
3)	Vinyl Chloride	25.28	ppb	25.00	101 %	50 - 134	PASS
8)	Trichlorotrifluoroethane (Freon 113)	24.52	ppb	25.00	98 %	60 - 140	PASS
9)	1,1-Dichloroethene	24.22	ppb	25.00	97 %	68 - 130	PASS
17)	Methylene Chloride	21.51	ppb	25.00	86 %	63 - 137	PASS
19)	Methyl-tert-butyl-ether (MTBE)	21.91	ppb	25.00	88 %	65 - 123	PASS
20)	t-1,2-Dichloroethene	24.35	ppb	25.00	97 %	63 - 137	PASS
23)	1,1-Dichloroethane	22.32	ppb	25.00	89 %	69 - 133	PASS
27)	Ethyl-tert-butyl-ether	23.93	ppb	25.00	96 %	60 - 140	PASS
28)	2,2-Dichloropropane	23.15	ppb	25.00	93 %	69 - 137	PASS
29)	c-1,2-Dichloroethene	23.76	ppb	25.00	95 %	72 - 126	PASS
32)	Bromochloromethane	22.76	ppb	25.00	91 %	65 - 129	PASS
35)	Chloroform	22.14	ppb	25.00	89 %	69 - 128	PASS
36)	1,1,1-Trichloroethane	25.16	ppb	25.00	101 %	67 - 132	PASS
38)	Carbon Tetrachloride	25.19	ppb	25.00	101 %	66 - 138	PASS
39)	1,1-Dichloropropene	23.00	ppb	25.00	92 %	73 - 132	PASS
42)	Benzene	23.69	ppb	25.00	95 %	81 - 122	PASS
43)	1,2-Dichloroethane	22.63	ppb	25.00	91 %	69 - 132	PASS
44)	tert-Amyl-methyl-ether	21.93	ppb	25.00	88 %	50 - 150	PASS
46)	Trichloroethene	23.71	ppb	25.00	95 %	70 - 127	PASS
47)	1,2-Dichloropropane	22.19	ppb	25.00	89 %	75 - 125	PASS
50)	Dibromomethane	23.07	ppb	25.00	92 %	76 - 125	PASS
51)	Bromodichloromethane	24.19	ppb	25.00	97 %	76 - 121	PASS
54)	4-Methyl-2-pentanone	23.52	ppb	25.00	94 %	58 - 134	PASS
56)	Toluene	25.12	ppb	25.00	100 %	77 - 122	PASS
57)	t-1,3-Dichloropropene	22.26	ppb	25.00	89 %	59 - 135	PASS
59)	1,1,2-Trichloroethane	22.75	ppb	25.00	91 %	75 - 125	PASS
60)	Tetrachloroethene	24.62	ppb	25.00	98 %	66 - 128	PASS
61)	1,3-Dichloropropane	22.14	ppb	25.00	89 %	73 - 126	PASS
62)	2-Hexanone	20.96	ppb	25.00	84 %	60 - 140	PASS
63)	Dibromochloromethane	23.92	ppb	25.00	96 %	66 - 133	PASS
64)	1,2-Dibromoethane	23.22	ppb	25.00	93 %	60 - 140	PASS
67)	Chlorobenzene	25.19	ppb *	25.00	101 %	81 - 122	PASS
68)	Ethylbenzene	25.35	ppb	25.00	101 %	73 - 127	PASS
69)	1,1,1,2-Tetrachloroethane	25.25	ppb	25.00	101 %	81 - 129	PASS
70)	p,m-Xylenes	52.29	ppb	50.00	105 %	76 - 128	PASS
71)	o-Xylene	26.59	ppb	25.00	106 %	80 - 121	PASS
72)	Styrene	24.74	ppb	25.00	99 %	65 - 134	PASS
73)	Bromoform	23.89	ppb	25.00	96 %	69 - 128	PASS

ALAB : 00254

CONFIDENTIAL LMC-PET-00000649

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
74)	Isopropylbenzene	26.58	ppb	25.00	106 %	75 - 127	PASS
76)	1,1,2,2-Tetrachloroethane	21.53	ppb	25.00	86 %	63 - 128	PASS
80)	Bromobenzene	24.74	ppb	25.00	99 %	76 - 124	PASS
83)	1,3,5-Trimethylbenzene	25.56	ppb	25.00	102 %	74 - 131	PASS
84)	4-Chlorotoluene	25.68	ppb	25.00	103 %	74 - 128	PASS
85)	tert-Butylbenzene	26.61	ppb	25.00	106 %	70 - 129	PASS
88)	sec-Butylbenzene	26.61	ppb	25.00	106 %	72 - 127	PASS
89)	4-Isopropyltoluene	24.10	ppb	25.00	96 %	73 - 130	PASS
90)	1,3-Dichlorobenzene	24.63	ppb	25.00	99 %	75 - 124	PASS
92)	1,4-Dichlorobenzene	23.52	ppb	25.00	94 %	74 - 123	PASS
94)	n-Butylbenzene	25.38	ppb	25.00	102 %	69 - 137	PASS
96)	1,2-Dibromo-3-chloropropane	21.55	ppb	25.00	86 %	50 - 132	PASS
100)	1,2,3-Trichlorobenzene	23.99	ppb	25.00	96 %	67 - 137	PASS

* indicates Internal Standard.

ALAB : 00255

CONFIDENTIAL LMC-PET-00000650

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 7 Case No.: SAS No.: SDG No.:

Instrument ID: GCMS #7 Continuing Cal. Sample Date: 10/16/2012 Time: 14:27

Initial Cal. Sample Date: 10/10/2012 10/10/2012

Initial Cal. Sample Time: 14:21 19:39

Initial Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Lab File ID: c:\varianws\data\8oct12\8Oct121436.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.404	0.100	25.00	22.40	10.4	20.0
Chloromethane	0.125	0.100	25.00	24.94	0.2	20.0
Vinyl Chloride	0.366	0.100	25.00	23.85	4.6	20.0
Bromomethane	0.123	0.100	25.00	34.20	-36.8	20.0
Chloroethane	0.028	0.100	25.00	25.26	-1.0	20.0
Trichlorofluoromethane	0.888	0.100	25.00	25.85	-3.4	20.0
Ethyl ether	0.093	0.100	25.00	23.57	5.7	20.0
Trichlorotrifluoroethane (Freon 113)	0.663	0.100	25.00	24.97	0.1	20.0
1,1-Dichloroethene	0.938	0.100	25.00	22.46	10.1	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
Acetone	0.028	0.100	25.00	22.62	9.5	20.0
Iodomethane	0.651	0.100	25.00	28.98	-15.9	20.0
Carbon disulfide	0.496	0.100	25.00	21.60	13.6	20.0
Acetonitrile	0.490	0.100	25.00	21.76	13.0	20.0
Allyl chloride	0.985	0.100	25.00	23.00	8.0	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Methylene Chloride	0.444	0.100	25.00	20.33	18.7	20.0
tert-Butanol	0.009	0.100	125.00	118.29	5.4	20.0
Methyl-tert-butyl-ether (MTBE)	0.272	0.100	25.00	20.65	17.4	20.0
t-1,2-Dichloroethene	0.769	0.100	25.00	22.84	8.6	20.0
Acrylonitrile	0.016	0.100	25.00	24.66	1.4	20.0
n-Hexane	0.916	0.100	25.00	24.10	3.6	20.0
1,1-Dichloroethane	0.493	0.100	25.00	22.69	9.2	20.0
Isopropyl ether	0.720	0.100	25.00	22.58	9.7	20.0
Chloroprene	0.541	0.100	25.00	22.20	11.2	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Ethyl-tert-butyl-ether	0.710	0.100	25.00	23.14	7.4	20.0
2,2-Dichloropropane	0.353	0.100	25.00	22.19	11.2	20.0
c-1,2-Dichloroethene	0.254	0.100	25.00	22.19	11.2	20.0
2-Butanone (MEK)	0.032	0.100	25.00	20.37	18.5	20.0
Propionitrile	0.016	0.100	25.00	8.59	65.6	20.0
Bromochloromethane	0.296	0.100	25.00	22.10	11.6	20.0
Methacrylonitrile	0.000	0.100	25.00	0.00	100.0	20.0
Chloroform	0.749	0.100	25.00	21.86	12.5	20.0
1,1,1-Trichloroethane	1.069	0.100	25.00	24.27	2.9	20.0
Dibromofluoromethane (Surr1)	0.168	0.100	25.00	23.26	7.0	20.0

ALAB : 00256

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Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	0.899	0.100	25.00	24.10	3.6	20.0
1,1-Dichloropropene	0.292	0.100	25.00	22.01	12.0	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
1,2-Dichloroethane-d4 (Surr2)	0.175	0.100	25.00	21.78	12.9	20.0
Benzene	0.804	0.100	25.00	23.29	6.8	20.0
1,2-Dichloroethane	0.353	0.100	25.00	22.01	11.9	20.0
tert-Amyl-methyl-ether	0.619	0.100	25.00	21.04	15.8	20.0
Trichloroethene	1.107	0.100	25.00	23.34	6.6	20.0
1,2-Dichloropropane	0.284	0.100	25.00	22.63	9.5	20.0
Methyl methacrylate	0.263	0.100	25.00	19.87	20.5	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Dibromomethane	0.287	0.100	25.00	23.67	5.3	20.0
Bromodichloromethane	0.603	0.100	25.00	22.72	9.1	20.0
2-Chloroethyl vinyl ether	0.120	0.100	25.00	21.25	15.0	20.0
c-1,3-Dichloropropene	0.770	0.100	25.00	22.68	9.3	20.0
4-Methyl-2-pentanone	0.164	0.100	25.00	21.53	13.9	20.0
Toluene-d8 (Surr3)	1.453	0.100	25.00	25.24	-1.0	20.0
Toluene	3.457	0.100	25.00	24.23	3.1	20.0
t-1,3-Dichloropropene	0.301	0.100	25.00	23.05	7.8	20.0
Ethyl methacrylate	0.119	0.100	25.00	22.14	11.5	20.0
1,1,2-Trichloroethane	0.303	0.100	25.00	22.77	8.9	20.0
Tetrachloroethene	0.139	0.100	25.00	24.27	2.9	20.0
1,3-Dichloropropane	0.432	0.100	25.00	21.27	14.9	20.0
2-Hexanone	0.112	0.100	25.00	18.78	24.9	20.0
Dibromochloromethane	0.349	0.100	25.00	22.63	9.5	20.0
1,2-Dibromoethane	0.382	0.100	25.00	22.62	9.5	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	1.942	0.100	25.00	23.84	4.6	20.0
Ethylbenzene	8.166	0.100	25.00	24.84	0.7	20.0
1,1,1,2-Tetrachloroethane	1.899	0.100	25.00	25.57	-2.3	20.0
p,m-Xylenes	8.274	0.100	50.00	50.14	-0.3	20.0
o-Xylene	7.852	0.100	25.00	25.11	-0.4	20.0
Styrene	4.218	0.100	25.00	23.96	4.2	20.0
Bromoform	0.454	0.100	25.00	23.47	6.1	20.0
Isopropylbenzene	9.049	0.100	25.00	25.01	-0.1	20.0
p-Bromofluorobenzene (Surr4)	1.313	0.100	25.00	25.41	-1.6	20.0
1,1,2,2-Tetrachloroethane	0.529	0.100	25.00	21.26	15.0	20.0
1,2,3-Trichloropropane	0.388	0.100	25.00	22.00	12.0	20.0
trans-1,4-Dichloro-2-butene	0.466	0.100	25.00	22.67	9.3	20.0
cis-1,4-Dichloro-2-butene	0.357	0.100	25.00	22.14	11.5	20.0
Bromobenzene	2.736	0.100	25.00	22.93	8.3	20.0
n-Propylbenzene	10.193	0.100	25.00	24.81	0.7	20.0
2-Chlorotoluene	6.451	0.100	25.00	24.25	3.0	20.0
1,3,5-Trimethylbenzene	10.165	0.100	25.00	24.24	3.0	20.0
4-Chlorotoluene	6.385	0.100	25.00	24.76	1.0	20.0
tert-Butylbenzene	12.313	0.100	25.00	24.88	0.5	20.0
1,2,4-Trimethylbenzene	8.944	0.100	25.00	23.46	6.2	20.0
Pentachloroethane	0.493	0.100	25.00	23.95	4.2	20.0
sec-Butylbenzene	10.075	0.100	25.00	25.06	-0.2	20.0
4-Isopropyltoluene	7.412	0.100	25.00	24.96	0.2	20.0

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Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
1,3-Dichlorobenzene	4.087	0.100	25.00	23.96	4.1	20.0
1,4-Dichlorobenzene	3.558	0.100	25.00	23.44	6.2	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	8.047	0.100	25.00	24.15	3.4	20.0
1,2-Dichlorobenzene	3.201	0.100	25.00	23.03	7.9	20.0
1,2-Dibromo-3-chloropropane	0.203	0.100	25.00	20.79	16.8	20.0
1,2,4-Trichlorobenzene	2.448	0.100	25.00	22.54	9.8	20.0
Hexachlorobutadiene	1.654	0.100	25.00	24.53	1.9	20.0
Naphthalene	1.221	0.100	25.00	21.32	14.7	20.0
1,2,3-Trichlorobenzene	2.160	0.100	25.00	22.78	8.9	20.0

ALAB : 00258

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