CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

METALS

PROJECT NAME : LACKAWANNA INCINERATOR

EA ENGINEERING SCIENCE & TECHNOLOGY

6712 Brooklawn Parkway

Suite 104

East Syracuse, NY - 13211-2158

Phone No: 315-431-4610

ORDER ID : F1489

ATTENTION : Lynette Mokry

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

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Cover Page

Order ID : F1489

Project ID : LACKAWANNA INCINERATOR

Client : EA Engineering Science & Technology

Lab Sample Number	Client Sample Number
F1489-01	915206-SB-58(0-1)
F1489-02	915206-SB-58(1-2)
F1489-03	F1489-02MS
F1489-04	F1489-02MSD
F1489-05	915206-SB-58(2-3)
F1489-06	915206-SB-DUPLICATE01022414
F1489-07	915206-SB-59(0-1)
F1489-08	915206-SB-59(1-2)
F1489-10	915206-SB-60(0-1)
F1489-11	915206-SB-60(1-2)
F1489-12	915206-RB-022414

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes Mildred V. Reyes, QA/QC Supervisor 2014.03.07 13:42:10 -05'00' Date: 3/7/2014

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
915206-SB-58(0-1)	F1489-01					6010B, 7471A	Chemtech -SOP
915206-SB-58(1-2)	F1489-02					6010B, 7471A	Chemtech -SOP
915206-SB-58(2-3)	F1489-05					6010B, 7471A	Chemtech -SOP
915206-SB-DUPLICATE01022414	F1489-06					6010B, 7471A	Chemtech -SOP
915206-SB-59(0-1)	F1489-07					6010B, 7471A	Chemtech -SOP
915206-SB-59(1-2)	F1489-08					6010B, 7471A	Chemtech -SOP
915206-SB-DUPLICATE02022414	F1489-09					6010B, 7471A	Chemtech -SOP
915206-SB-60(0-1)	F1489-10					6010B, 7471A	Chemtech -SOP
915206-SB-60(1-2)	F1489-11					6010B, 7471A	Chemtech -SOP
915206-RB-022414	F1489-12					6010B, 7470A	

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Digested	Date Analyzed
F1489-01	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-02	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-05	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-06	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-07	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-08	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-10	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1489-11	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/26/14
F1489-12	WATER	Metals ICP-TAL	02/25/14	02/26/14	02/26/14

* Details For Test :Metals ICP-TAL

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Digested	Date Analyzed
F1489-01	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-02	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-05	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-06	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-07	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-08	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-10	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-11	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1489-12	WATER	Mercury	02/25/14	02/25/14	02/26/14

* Details For Test :Mercury

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CASE NARRATIVE

EA Engineering Science & Technology
Project Name: LACKAWANNA INCINERATOR
Project # N/A
Chemtech Project # F1489
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
11 Solid samples were received on 02/25/2014.
1 Water sample was received on 02/25/2014.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL and METALS-TAL. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis of Mercury was based on method 7471A and digestion was based on method 7471B (soils).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis(SB15-5.5-6.0-022514DUP) met criteria for all samples except for Aluminum, Barium, Calcium, Chromium, Magnesium, Manganese, Potassium and Sodium.
The Matrix Spike(915206-SB-58(1-2)MS) analysis met criteria for all samples except for Antimony, Cobalt, Cadmium, Thallium.
The Matrix Spike(SB15-5.5-6.0-022514MS) analysis did not meet criteria for all samples except for Calcium, Magnesium, Manganese, Sodium.
The Matrix Spike Duplicate(915206-SB-58(1-2)MSD) analysis met criteria for all samples except for Antimony, Cadmium, , Cobalt, Lead, Nickel, Thallium .
The Matrix Spike Duplicate(SB15-5.5-6.0-022514MSD) analysis did not meet criteria for all samples except for Calcium, Chromium, Magnesium, Manganese, Sodium.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (915206-SB-58(1-2)L)met criteria for all samples except for Aluminum, Barium, Calcium, Chromium, Copper, Magnesium and Manganese.

CHEMTECH

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ Mildred V Reyes

Mildred V. Reyes, QA/QC Supervisor
2014.03.07 13:41:57 -05'00'

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U Indicates the analyte was analyzed for, but not detected.

ND Indicates the analyte was analyzed for, but not detected

E Indicates the reported value is estimated because of the presence of interference

M Indicates Duplicate injection precision not met.

N Indicates the spiked sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

***** Indicates that the duplicate analysis is not within control limits.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

M Method qualifiers
"P" for ICP instrument
"PM" for ICP when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi –Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed

OR Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Q Indicates the LCS did not meet the control limits requirements

H Sample Analysis Out Of Hold Time

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: F1489

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: **KALPANA RAYTHATTHA** **Date: 03/07/2014**

Mildred V Reyes

Mildred V. Reyes, QA/QC Supervisor
2014.03.07 13:41:33 -05'00'

2nd Level QA Review Signature: _____ **Date:** _____

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LAB CHRONICLE

OrderID:	F1489	**OrderDate:**	2/25/2014 12:02:00 PM
Client:	EA Engineering Science & Technology	**Project:**	LACKAWANNA INCINERATOR
Contact:	Lynette Mokry	**Location:**	F11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
F1489-01	**915206-SB-58(0-1)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-02	**915206-SB-58(1-2)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-05	**915206-SB-58(2-3)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-06	**915206-SB-DUPLICATE01022414**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-07	**915206-SB-59(0-1)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-08	**915206-SB-59(1-2)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-10	**915206-SB-60(0-1)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/25/14	
F1489-11	**915206-SB-60(1-2)**	**SOIL**			**02/24/14**			**02/25/14**
			Mercury	7471A		02/25/14	02/26/14	
			Metals ICP-TAL	6010B		02/25/14	02/26/14	
F1489-12	**915206-RB-022414**	**WATER**			**02/24/14**			**02/25/14**

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LAB CHRONICLE

Mercury	7470A	02/25/14	02/26/14
Metals ICP-TAL	6010B	02/26/14	02/26/14

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Hit Summary Sheet
SW-846

SDG No.: F1489 **Order ID:** F1489

Client: EA Engineering Science & Technology **Project ID:** LACKAWANNA INCINERATOR

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**915206-SB-58(0-1)**								
F1489-01	915206-SB-58(0-1)	SOIL	Aluminum	8,010.000		0.869	2.59	5.17	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Arsenic	7.900		0.341	0.517	1.03	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Barium	60.200		0.414	2.59	5.17	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Cadmium	1.100		0.062	0.155	0.31	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Calcium	76,100.000		1.11	51.7	103	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Chromium	13.500		0.135	0.259	0.517	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Cobalt	9.570		0.59	0.776	1.55	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Copper	25.000		0.331	0.517	1.03	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Iron	23,000.000		1.38	2.59	5.17	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Lead	58.300		0.124	0.31	0.621	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Magnesium	6,580.000		4.74	51.7	103	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Manganese	328.000		0.197	0.517	1.03	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Mercury	0.038		0.006	0.006	0.012	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Nickel	31.100		0.476	1.03	2.07	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Potassium	1,090.000		3.62	51.7	103	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Selenium	0.779	J	0.424	0.517	1.03	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Silver	0.253	J	0.155	0.259	0.517	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Sodium	80.300	J	2.61	51.7	103	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Vanadium	14.700		0.611	1.03	2.07	mg/Kg
F1489-01	915206-SB-58(0-1)	SOIL	Zinc	152.000		0.724	1.03	2.07	mg/Kg
Client ID :	**915206-SB-58(1-2)**								
F1489-02	915206-SB-58(1-2)	SOIL	Aluminum	9,780.000		0.884	2.63	5.26	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Arsenic	6.430		0.347	0.526	1.05	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Barium	77.200		0.421	2.63	5.26	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Cadmium	0.465		0.063	0.158	0.316	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Calcium	3,200.000		1.13	52.6	105	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Chromium	14.500		0.137	0.263	0.526	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Cobalt	13.000		0.6	0.789	1.58	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Copper	17.400		0.337	0.526	1.05	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Iron	26,700.000		1.4	2.63	5.26	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Lead	14.900		0.126	0.316	0.631	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Magnesium	3,250.000		4.82	52.6	105	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Manganese	391.000		0.2	0.526	1.05	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Mercury	0.037		0.006	0.006	0.013	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Nickel	33.600		0.484	1.05	2.1	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Potassium	764.000		3.68	52.6	105	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Selenium	1.040	J	0.431	0.526	1.05	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Silver	0.289	J	0.158	0.263	0.526	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1489 **Order ID:** F1489

Client: EA Engineering Science & Technology **Project ID:** LACKAWANNA INCINERATOR

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1489-02	915206-SB-58(1-2)	SOIL	Sodium	31.100	J	2.65	52.6	105	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Vanadium	16.600		0.621	1.05	2.1	mg/Kg
F1489-02	915206-SB-58(1-2)	SOIL	Zinc	82.300		0.737	1.05	2.1	mg/Kg
Client ID :	**915206-SB-58(2-3)**								
F1489-05	915206-SB-58(2-3)	SOIL	Aluminum	10,200.000		0.916	2.73	5.46	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Arsenic	6.950		0.36	0.546	1.09	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Barium	71.100		0.436	2.73	5.46	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Cadmium	0.573		0.065	0.164	0.327	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Calcium	2,570.000		1.17	54.6	109	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Chromium	14.900		0.142	0.273	0.546	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Cobalt	12.800		0.622	0.818	1.64	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Copper	20.700		0.349	0.546	1.09	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Iron	26,800.000		1.45	2.73	5.46	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Lead	21.100		0.131	0.327	0.655	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Magnesium	3,340.000		5	54.6	109	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Manganese	492.000		0.207	0.546	1.09	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Mercury	0.059		0.006	0.006	0.012	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Nickel	33.300		0.502	1.09	2.18	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Potassium	801.000		3.82	54.6	109	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Selenium	1.260		0.447	0.546	1.09	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Silver	0.292	J	0.164	0.273	0.546	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Sodium	39.700	J	2.75	54.6	109	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Vanadium	18.400		0.644	1.09	2.18	mg/Kg
F1489-05	915206-SB-58(2-3)	SOIL	Zinc	101.000		0.764	1.09	2.18	mg/Kg
Client ID :	**915206-SB-DUPLICATE01022414**								
F1489-06	915206-SB-DUPLICATE010224	SOIL	Aluminum	10,100.000		0.923	2.75	5.49	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Arsenic	6.490		0.363	0.549	1.1	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Barium	73.300		0.44	2.75	5.49	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Cadmium	0.380		0.066	0.165	0.33	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Calcium	3,320.000		1.18	54.9	110	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Chromium	15.200		0.143	0.275	0.549	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Cobalt	13.600		0.626	0.824	1.65	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Copper	21.200		0.352	0.549	1.1	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Iron	27,000.000		1.46	2.75	5.49	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Lead	18.000		0.132	0.33	0.659	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Magnesium	3,470.000		5.03	54.9	110	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Manganese	466.000		0.209	0.549	1.1	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Mercury	0.064		0.006	0.006	0.012	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Nickel	34.400		0.505	1.1	2.2	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Potassium	777.000		3.85	54.9	110	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Selenium	1.190		0.451	0.549	1.1	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: F1489 **Order ID:** F1489

Client: EA Engineering Science & Technology **Project ID:** LACKAWANNA INCINERATOR

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1489-06	915206-SB-DUPLICATE010224	SOIL	Silver	0.316	J	0.165	0.275	0.549	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Sodium	40.800	J	2.77	54.9	110	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Vanadium	18.300		0.648	1.1	2.2	mg/Kg
F1489-06	915206-SB-DUPLICATE010224	SOIL	Zinc	87.200		0.769	1.1	2.2	mg/Kg
Client ID :	**915206-SB-59(0-1)**								
F1489-07	915206-SB-59(0-1)	SOIL	Aluminum	12,300.000		0.896	2.67	5.33	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Arsenic	11.000		0.352	0.533	1.07	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Barium	71.600		0.427	2.67	5.33	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Cadmium	0.901		0.064	0.16	0.32	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Calcium	23,900.000		1.14	53.3	107	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Chromium	18.300		0.139	0.267	0.533	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Cobalt	16.500		0.608	0.8	1.6	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Copper	29.600		0.341	0.533	1.07	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Iron	33,800.000		1.42	2.67	5.33	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Lead	30.500		0.128	0.32	0.64	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Magnesium	9,920.000		4.88	53.3	107	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Manganese	491.000		0.203	0.533	1.07	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Mercury	0.030		0.006	0.006	0.011	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Nickel	40.100		0.491	1.07	2.13	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Potassium	1,570.000		3.73	53.3	107	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Selenium	1.180		0.437	0.533	1.07	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Silver	0.218	J	0.16	0.267	0.533	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Sodium	85.500	J	2.69	53.3	107	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Vanadium	21.400		0.629	1.07	2.13	mg/Kg
F1489-07	915206-SB-59(0-1)	SOIL	Zinc	122.000		0.747	1.07	2.13	mg/Kg
Client ID :	**915206-SB-59(1-2)**								
F1489-08	915206-SB-59(1-2)	SOIL	Aluminum	13,000.000		0.894	2.66	5.32	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Arsenic	6.570		0.351	0.532	1.06	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Barium	74.500		0.426	2.66	5.32	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Cadmium	0.639		0.064	0.16	0.319	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Calcium	3,030.000		1.14	53.2	106	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Chromium	18.500		0.138	0.266	0.532	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Cobalt	13.100		0.607	0.798	1.6	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Copper	18.200		0.341	0.532	1.06	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Iron	32,600.000		1.42	2.66	5.32	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Lead	18.700		0.128	0.319	0.639	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Magnesium	4,370.000		4.87	53.2	106	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Manganese	280.000		0.202	0.532	1.06	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Mercury	0.039		0.006	0.006	0.011	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Nickel	36.300		0.49	1.06	2.13	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Potassium	780.000		3.72	53.2	106	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1489 **Order ID:** F1489

Client: EA Engineering Science & Technology **Project ID:** LACKAWANNA INCINERATOR

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1489-08	915206-SB-59(1-2)	SOIL	Selenium	1.080		0.436	0.532	1.06	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Sodium	58.600	J	2.68	53.2	106	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Vanadium	21.400		0.628	1.06	2.13	mg/Kg
F1489-08	915206-SB-59(1-2)	SOIL	Zinc	86.400		0.745	1.06	2.13	mg/Kg
Client ID :	**915206-SB-60(0-1)**								
F1489-10	915206-SB-60(0-1)	SOIL	Aluminum	13,200.000		1.05	3.13	6.26	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Arsenic	6.790		0.413	0.626	1.25	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Barium	103.000		0.501	3.13	6.26	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Cadmium	0.989		0.075	0.188	0.376	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Calcium	4,130.000		1.34	62.6	125	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Chromium	20.300		0.163	0.313	0.626	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Cobalt	15.000		0.713	0.939	1.88	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Copper	25.100		0.401	0.626	1.25	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Iron	30,300.000		1.66	3.13	6.26	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Lead	25.900		0.15	0.376	0.751	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Magnesium	4,360.000		5.73	62.6	125	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Manganese	499.000		0.238	0.626	1.25	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Mercury	0.044		0.007	0.007	0.014	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Nickel	44.500		0.576	1.25	2.5	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Potassium	993.000		4.38	62.6	125	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Selenium	1.020	J	0.513	0.626	1.25	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Sodium	45.500	J	3.15	62.6	125	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Vanadium	22.100		0.739	1.25	2.5	mg/Kg
F1489-10	915206-SB-60(0-1)	SOIL	Zinc	163.000		0.876	1.25	2.5	mg/Kg
Client ID :	**915206-SB-60(1-2)**								
F1489-11	915206-SB-60(1-2)	SOIL	Aluminum	12,600.000		0.911	2.71	5.42	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Arsenic	6.350		0.358	0.542	1.08	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Barium	98.900		0.434	2.71	5.42	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Cadmium	0.706		0.065	0.163	0.325	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Calcium	2,300.000		1.16	54.2	108	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Chromium	18.800		0.141	0.271	0.542	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Cobalt	14.700		0.618	0.813	1.63	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Copper	22.600		0.347	0.542	1.08	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Iron	30,800.000		1.44	2.71	5.42	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Lead	22.800		0.13	0.325	0.65	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Magnesium	4,250.000		4.97	54.2	108	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Manganese	397.000		0.206	0.542	1.08	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Mercury	0.055		0.006	0.006	0.012	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Nickel	43.300		0.499	1.08	2.17	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Potassium	813.000		3.79	54.2	108	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Selenium	1.490		0.444	0.542	1.08	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1489 **Order ID:** F1489

Client: EA Engineering Science & Technology **Project ID:** LACKAWANNA INCINERATOR

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1489-11	915206-SB-60(1-2)	SOIL	Silver	0.315	J	0.163	0.271	0.542	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Sodium	49.800	J	2.73	54.2	108	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Vanadium	20.900		0.64	1.08	2.17	mg/Kg
F1489-11	915206-SB-60(1-2)	SOIL	Zinc	119.000		0.759	1.08	2.17	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-58(0-1)	SDG No.:	F1489
Lab Sample ID:	F1489-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	81.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	8010		1	0.869	2.59	5.17	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.59	UN	1	0.579	1.29	2.59	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	7.9		1	0.341	0.517	1.03	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	60.2		1	0.414	2.59	5.17	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.31	U	1	0.062	0.155	0.31	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.1	N	1	0.062	0.155	0.31	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	76100		1	1.11	51.7	103	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	13.5		1	0.135	0.259	0.517	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	9.57	N	1	0.59	0.776	1.55	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	25		1	0.331	0.517	1.03	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	23000		1	1.38	2.59	5.17	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	58.3	N	1	0.124	0.31	0.621	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	6580		1	4.74	51.7	103	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	328		1	0.197	0.517	1.03	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.038		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	31.1		1	0.476	1.03	2.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1090		1	3.62	51.7	103	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	0.779	J	1	0.424	0.517	1.03	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.253	J	1	0.155	0.259	0.517	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	80.3	J	1	2.61	51.7	103	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.07	UN	1	0.279	1.03	2.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	14.7		1	0.611	1.03	2.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	152		1	0.724	1.03	2.07	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-58(1-2)	SDG No.:	F1489
Lab Sample ID:	F1489-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9780		1	0.884	2.63	5.26	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.63	UN	1	0.589	1.32	2.63	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.43		1	0.347	0.526	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	77.2		1	0.421	2.63	5.26	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.316	U	1	0.063	0.158	0.316	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.465	N	1	0.063	0.158	0.316	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	3200		1	1.13	52.6	105	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	14.5		1	0.137	0.263	0.526	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	13	N	1	0.6	0.789	1.58	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	17.4		1	0.337	0.526	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	26700		1	1.4	2.63	5.26	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	14.9	N	1	0.126	0.316	0.631	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	3250		1	4.82	52.6	105	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	391		1	0.2	0.526	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.037		1	0.006	0.006	0.013	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	33.6		1	0.484	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	764		1	3.68	52.6	105	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.04	J	1	0.431	0.526	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.289	J	1	0.158	0.263	0.526	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	31.1	J	1	2.65	52.6	105	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.1	UN	1	0.284	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	16.6		1	0.621	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	82.3		1	0.737	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-58(2-3)	SDG No.:	F1489
Lab Sample ID:	F1489-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	10200		1	0.916	2.73	5.46	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.73	UN	1	0.611	1.36	2.73	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.95		1	0.36	0.546	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	71.1		1	0.436	2.73	5.46	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.327	U	1	0.065	0.164	0.327	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.573	N	1	0.065	0.164	0.327	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	2570		1	1.17	54.6	109	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	14.9		1	0.142	0.273	0.546	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	12.8	N	1	0.622	0.818	1.64	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	20.7		1	0.349	0.546	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	26800		1	1.45	2.73	5.46	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	21.1	N	1	0.131	0.327	0.655	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	3340		1	5	54.6	109	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	492		1	0.207	0.546	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.059		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	33.3		1	0.502	1.09	2.18	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	801		1	3.82	54.6	109	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.26		1	0.447	0.546	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.292	J	1	0.164	0.273	0.546	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	39.7	J	1	2.75	54.6	109	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.18	UN	1	0.295	1.09	2.18	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	18.4		1	0.644	1.09	2.18	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	101		1	0.764	1.09	2.18	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-DUPLICATE01022414	SDG No.:	F1489
Lab Sample ID:	F1489-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	10100		1	0.923	2.75	5.49	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.75	UN	1	0.615	1.37	2.75	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.49		1	0.363	0.549	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	73.3		1	0.44	2.75	5.49	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.33	U	1	0.066	0.165	0.33	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.38	N	1	0.066	0.165	0.33	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	3320		1	1.18	54.9	110	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	15.2		1	0.143	0.275	0.549	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	13.6	N	1	0.626	0.824	1.65	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	21.2		1	0.352	0.549	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	27000		1	1.46	2.75	5.49	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	18	N	1	0.132	0.33	0.659	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	3470		1	5.03	54.9	110	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	466		1	0.209	0.549	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.064		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	34.4		1	0.505	1.1	2.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	777		1	3.85	54.9	110	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.19		1	0.451	0.549	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.316	J	1	0.165	0.275	0.549	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	40.8	J	1	2.77	54.9	110	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.2	UN	1	0.297	1.1	2.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	18.3		1	0.648	1.1	2.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	87.2		1	0.769	1.1	2.2	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-59(0-1)	SDG No.:	F1489
Lab Sample ID:	F1489-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12300		1	0.896	2.67	5.33	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.67	UN	1	0.597	1.33	2.67	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	11		1	0.352	0.533	1.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	71.6		1	0.427	2.67	5.33	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.32	U	1	0.064	0.16	0.32	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.901	N	1	0.064	0.16	0.32	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	23900		1	1.14	53.3	107	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	18.3		1	0.139	0.267	0.533	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	16.5	N	1	0.608	0.8	1.6	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	29.6		1	0.341	0.533	1.07	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	33800		1	1.42	2.67	5.33	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	30.5	N	1	0.128	0.32	0.64	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	9920		1	4.88	53.3	107	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	491		1	0.203	0.533	1.07	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.03		1	0.006	0.006	0.011	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	40.1		1	0.491	1.07	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1570		1	3.73	53.3	107	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.18		1	0.437	0.533	1.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.218	J	1	0.16	0.267	0.533	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	85.5	J	1	2.69	53.3	107	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.13	UN	1	0.288	1.07	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.4		1	0.629	1.07	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	122		1	0.747	1.07	2.13	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-59(1-2)	SDG No.:	F1489
Lab Sample ID:	F1489-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	13000		1	0.894	2.66	5.32	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.66	UN	1	0.596	1.33	2.66	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.57		1	0.351	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	74.5		1	0.426	2.66	5.32	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.319	U	1	0.064	0.16	0.319	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.639	N	1	0.064	0.16	0.319	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	3030		1	1.14	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	18.5		1	0.138	0.266	0.532	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	13.1	N	1	0.607	0.798	1.6	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	18.2		1	0.341	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	32600		1	1.42	2.66	5.32	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	18.7	N	1	0.128	0.319	0.639	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4370		1	4.87	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	280		1	0.202	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.039		1	0.006	0.006	0.011	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	36.3		1	0.49	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	780		1	3.72	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.08		1	0.436	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.532	U	1	0.16	0.266	0.532	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	58.6	J	1	2.68	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.13	UN	1	0.287	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.4		1	0.628	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	86.4		1	0.745	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-60(0-1)	SDG No.:	F1489
Lab Sample ID:	F1489-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	66.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	13200		1	1.05	3.13	6.26	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	3.13	UN	1	0.701	1.56	3.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.79		1	0.413	0.626	1.25	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	103		1	0.501	3.13	6.26	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.376	U	1	0.075	0.188	0.376	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.989	N	1	0.075	0.188	0.376	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	4130		1	1.34	62.6	125	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	20.3		1	0.163	0.313	0.626	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	15	N	1	0.713	0.939	1.88	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	25.1		1	0.401	0.626	1.25	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	30300		1	1.66	3.13	6.26	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	25.9	N	1	0.15	0.376	0.751	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4360		1	5.73	62.6	125	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	499		1	0.238	0.626	1.25	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.044		1	0.007	0.007	0.014	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	44.5		1	0.576	1.25	2.5	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	993		1	4.38	62.6	125	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.02	J	1	0.513	0.626	1.25	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.626	U	1	0.188	0.313	0.626	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	45.5	J	1	3.15	62.6	125	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.5	UN	1	0.338	1.25	2.5	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	22.1		1	0.739	1.25	2.5	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	163		1	0.876	1.25	2.5	mg/Kg	02/25/14	02/25/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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D = Dilution
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J = Estimated Value
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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-SB-60(1-2)	SDG No.:	F1489
Lab Sample ID:	F1489-11	Matrix:	SOIL
Level (low/med):	low	% Solid:	75.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12600		1	0.911	2.71	5.42	mg/Kg	02/25/14	02/26/14	SW6010
7440-36-0	Antimony	2.71	UN	1	0.607	1.36	2.71	mg/Kg	02/25/14	02/26/14	SW6010
7440-38-2	Arsenic	6.35		1	0.358	0.542	1.08	mg/Kg	02/25/14	02/26/14	SW6010
7440-39-3	Barium	98.9		1	0.434	2.71	5.42	mg/Kg	02/25/14	02/26/14	SW6010
7440-41-7	Beryllium	0.325	U	1	0.065	0.163	0.325	mg/Kg	02/25/14	02/26/14	SW6010
7440-43-9	Cadmium	0.706	N	1	0.065	0.163	0.325	mg/Kg	02/25/14	02/26/14	SW6010
7440-70-2	Calcium	2300		1	1.16	54.2	108	mg/Kg	02/25/14	02/26/14	SW6010
7440-47-3	Chromium	18.8		1	0.141	0.271	0.542	mg/Kg	02/25/14	02/26/14	SW6010
7440-48-4	Cobalt	14.7	N	1	0.618	0.813	1.63	mg/Kg	02/25/14	02/26/14	SW6010
7440-50-8	Copper	22.6		1	0.347	0.542	1.08	mg/Kg	02/25/14	02/26/14	SW6010
7439-89-6	Iron	30800		1	1.44	2.71	5.42	mg/Kg	02/25/14	02/26/14	SW6010
7439-92-1	Lead	22.8	N	1	0.13	0.325	0.65	mg/Kg	02/25/14	02/26/14	SW6010
7439-95-4	Magnesium	4250		1	4.97	54.2	108	mg/Kg	02/25/14	02/26/14	SW6010
7439-96-5	Manganese	397		1	0.206	0.542	1.08	mg/Kg	02/25/14	02/26/14	SW6010
7439-97-6	Mercury	0.055		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	43.3		1	0.499	1.08	2.17	mg/Kg	02/25/14	02/26/14	SW6010
7440-09-7	Potassium	813		1	3.79	54.2	108	mg/Kg	02/25/14	02/26/14	SW6010
7782-49-2	Selenium	1.49		1	0.444	0.542	1.08	mg/Kg	02/25/14	02/26/14	SW6010
7440-22-4	Silver	0.315	J	1	0.163	0.271	0.542	mg/Kg	02/25/14	02/26/14	SW6010
7440-23-5	Sodium	49.8	J	1	2.73	54.2	108	mg/Kg	02/25/14	02/26/14	SW6010
7440-28-0	Thallium	2.17	UN	1	0.293	1.08	2.17	mg/Kg	02/25/14	02/26/14	SW6010
7440-62-2	Vanadium	20.9		1	0.64	1.08	2.17	mg/Kg	02/25/14	02/26/14	SW6010
7440-66-6	Zinc	119		1	0.759	1.08	2.17	mg/Kg	02/25/14	02/26/14	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	02/24/14
Project:	LACKAWANNA INCINERATOR	Date Received:	02/25/14
Client Sample ID:	915206-RB-022414	SDG No.:	F1489
Lab Sample ID:	F1489-12	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	50	UN*	1	6.5	25.0	50	ug/L	02/26/14	02/26/14	SW6010
7440-36-0	Antimony	25	UN	1	8	12.5	25	ug/L	02/26/14	02/26/14	SW6010
7440-38-2	Arsenic	10	UN	1	4.2	5.0	10	ug/L	02/26/14	02/26/14	SW6010
7440-39-3	Barium	50	UN*	1	4	25.0	50	ug/L	02/26/14	02/26/14	SW6010
7440-41-7	Beryllium	3	UN	1	0.7	1.5	3	ug/L	02/26/14	02/26/14	SW6010
7440-43-9	Cadmium	3	UN	1	0.5	1.5	3	ug/L	02/26/14	02/26/14	SW6010
7440-70-2	Calcium	1000	U*	1	31.8	500	1000	ug/L	02/26/14	02/26/14	SW6010
7440-47-3	Chromium	5	UN*	1	1.1	2.5	5	ug/L	02/26/14	02/26/14	SW6010
7440-48-4	Cobalt	15	UN	1	5.8	7.5	15	ug/L	02/26/14	02/26/14	SW6010
7440-50-8	Copper	10	UN	1	2	5.0	10	ug/L	02/26/14	02/26/14	SW6010
7439-89-6	Iron	50	UN	1	20.4	25.0	50	ug/L	02/26/14	02/26/14	SW6010
7439-92-1	Lead	6	UN	1	2.6	3.0	6	ug/L	02/26/14	02/26/14	SW6010
7439-95-4	Magnesium	1000	U*	1	32.5	500	1000	ug/L	02/26/14	02/26/14	SW6010
7439-96-5	Manganese	10	U*	1	1.7	5.0	10	ug/L	02/26/14	02/26/14	SW6010
7439-97-6	Mercury	0.2	U	1	0.1	0.1	0.2	ug/L	02/25/14	02/26/14	SW7470A
7440-02-0	Nickel	20	UN	1	4.2	10.0	20	ug/L	02/26/14	02/26/14	SW6010
7440-09-7	Potassium	1000	UN*	1	38.8	500	1000	ug/L	02/26/14	02/26/14	SW6010
7782-49-2	Selenium	10	UN	1	4.8	5.0	10	ug/L	02/26/14	02/26/14	SW6010
7440-22-4	Silver	5	UN	1	1.5	2.5	5	ug/L	02/26/14	02/26/14	SW6010
7440-23-5	Sodium	1000	U*	1	13.9	500	1000	ug/L	02/26/14	02/26/14	SW6010
7440-28-0	Thallium	20	UN	1	2.4	10.0	20	ug/L	02/26/14	02/26/14	SW6010
7440-62-2	Vanadium	20	UN	1	6.1	10.0	20	ug/L	02/26/14	02/26/14	SW6010
7440-66-6	Zinc	20	UN	1	6.5	10.0	20	ug/L	02/26/14	02/26/14	SW6010

Color Before:	Colorless	Clarity Before:		Texture:	Clear
Color After:	Colorless	Clarity After:		Artifacts:	Clear
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV44	Mercury	3.9712	4	99.3	90 - 110	CV	02/26/2014	12:05	LB69940

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV33	Mercury	5.0608	5	101.2	90 - 110	CV	02/26/2014	12:09	LB69940
CCV34	Mercury	5.081	5	101.6	90 - 110	CV	02/26/2014	12:35	LB69940
CCV35	Mercury	5.0766	5	101.5	90 - 110	CV	02/26/2014	13:00	LB69940
CCV36	Mercury	5.1883	5	103.8	90 - 110	CV	02/26/2014	13:15	LB69940

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV45	Mercury	3.9175	4	97.9	90 - 110	CV	02/26/2014	14:24	LB69944

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV37	Mercury	4.8924	5	97.8	90 - 110	CV	02/26/2014	14:28	LB69944
CCV38	Mercury	4.8608	5	97.2	90 - 110	CV	02/26/2014	14:54	LB69944
CCV39	Mercury	4.8484	5	97	90 - 110	CV	02/26/2014	15:19	LB69944
CCV40	Mercury	4.8979	5	98	90 - 110	CV	02/26/2014	15:45	LB69944
CCV41	Mercury	4.7407	5	94.8	90 - 110	CV	02/26/2014	16:10	LB69944
CCV42	Mercury	4.7956	5	95.9	90 - 110	CV	02/26/2014	16:36	LB69944
CCV43	Mercury	4.7334	5	94.7	90 - 110	CV	02/26/2014	16:59	LB69944

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2439.1	2521	96.8	90 - 110	P	02/25/2014	12:01	LB69931
	Antimony	1061.5	994	106.8	90 - 110	P	02/25/2014	12:01	LB69931
	Arsenic	1021.9	999	102.3	90 - 110	P	02/25/2014	12:01	LB69931
	Barium	495.73	503	98.6	90 - 110	P	02/25/2014	12:01	LB69931
	Beryllium	516.79	495	104.4	90 - 110	P	02/25/2014	12:01	LB69931
	Cadmium	521.72	496	105.2	90 - 110	P	02/25/2014	12:01	LB69931
	Calcium	10097	10026	100.7	90 - 110	P	02/25/2014	12:01	LB69931
	Chromium	491.17	490	100.2	90 - 110	P	02/25/2014	12:01	LB69931
	Cobalt	499.77	499	100.2	90 - 110	P	02/25/2014	12:01	LB69931
	Copper	517.75	492	105.2	90 - 110	P	02/25/2014	12:01	LB69931
	Iron	4997.7	5082	98.3	90 - 110	P	02/25/2014	12:01	LB69931
	Lead	1044.9	1002	104.3	90 - 110	P	02/25/2014	12:01	LB69931
	Magnesium	6065.5	6074	99.9	90 - 110	P	02/25/2014	12:01	LB69931
	Manganese	497.04	499	99.6	90 - 110	P	02/25/2014	12:01	LB69931
	Nickel	509.57	503	101.3	90 - 110	P	02/25/2014	12:01	LB69931
	Potassium	9968.9	10021	99.5	90 - 110	P	02/25/2014	12:01	LB69931
	Selenium	1094.8	1029	106.4	90 - 110	P	02/25/2014	12:01	LB69931
	Silver	501.2	501	100	90 - 110	P	02/25/2014	12:01	LB69931
	Sodium	9703	10097	96.1	90 - 110	P	02/25/2014	12:01	LB69931
	Thallium	1071.4	1028	104.2	90 - 110	P	02/25/2014	12:01	LB69931
	Vanadium	483.73	501	96.6	90 - 110	P	02/25/2014	12:01	LB69931
	Zinc	1017.7	1025	99.3	90 - 110	P	02/25/2014	12:01	LB69931

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104.79	100	104.8	70 - 130	P	02/25/2014	12:08	LB69931
	Antimony	54.64	50	109.3	70 - 130	P	02/25/2014	12:08	LB69931
	Arsenic	22.46	20	112.3	70 - 130	P	02/25/2014	12:08	LB69931
	Barium	99.93	100	99.9	70 - 130	P	02/25/2014	12:08	LB69931
	Beryllium	6.23	6	103.8	70 - 130	P	02/25/2014	12:08	LB69931
	Cadmium	6.59	6	109.8	70 - 130	P	02/25/2014	12:08	LB69931
	Calcium	2043.2	2000	102.2	70 - 130	P	02/25/2014	12:08	LB69931
	Chromium	10.03	10	100.3	70 - 130	P	02/25/2014	12:08	LB69931
	Cobalt	30.28	30	100.9	70 - 130	P	02/25/2014	12:08	LB69931
	Copper	21.48	20	107.4	70 - 130	P	02/25/2014	12:08	LB69931
	Iron	102.29	100	102.3	70 - 130	P	02/25/2014	12:08	LB69931
	Lead	12.39	12	103.3	70 - 130	P	02/25/2014	12:08	LB69931
	Magnesium	2049.8	2000	102.5	70 - 130	P	02/25/2014	12:08	LB69931
	Manganese	20.49	20	102.5	70 - 130	P	02/25/2014	12:08	LB69931
	Nickel	41.95	40	104.9	70 - 130	P	02/25/2014	12:08	LB69931
	Potassium	1978.4	2000	98.9	70 - 130	P	02/25/2014	12:08	LB69931
	Selenium	18.36	20	91.8	70 - 130	P	02/25/2014	12:08	LB69931
	Silver	10.26	10	102.6	70 - 130	P	02/25/2014	12:08	LB69931
	Sodium	1953.4	2000	97.7	70 - 130	P	02/25/2014	12:08	LB69931
	Thallium	39.83	40	99.6	70 - 130	P	02/25/2014	12:08	LB69931
	Vanadium	38.47	40	96.2	70 - 130	P	02/25/2014	12:08	LB69931
	Zinc	41.54	40	103.9	70 - 130	P	02/25/2014	12:08	LB69931

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10237	10000	102.4	90 - 110	P	02/25/2014	12:40	LB69931
	Antimony	5124.6	5000	102.5	90 - 110	P	02/25/2014	12:40	LB69931
	Arsenic	4961.7	5000	99.2	90 - 110	P	02/25/2014	12:40	LB69931
	Barium	10289	10000	102.9	90 - 110	P	02/25/2014	12:40	LB69931
	Beryllium	259.54	250	103.8	90 - 110	P	02/25/2014	12:40	LB69931
	Cadmium	2581.2	2500	103.2	90 - 110	P	02/25/2014	12:40	LB69931
	Calcium	25504	25000	102	90 - 110	P	02/25/2014	12:40	LB69931
	Chromium	1019.7	1000	102	90 - 110	P	02/25/2014	12:40	LB69931
	Cobalt	2558.2	2500	102.3	90 - 110	P	02/25/2014	12:40	LB69931
	Copper	1283.2	1250	102.7	90 - 110	P	02/25/2014	12:40	LB69931
	Iron	5140.4	5000	102.8	90 - 110	P	02/25/2014	12:40	LB69931
	Lead	5150.2	5000	103	90 - 110	P	02/25/2014	12:40	LB69931
	Magnesium	25525	25000	102.1	90 - 110	P	02/25/2014	12:40	LB69931
	Manganese	2584.9	2500	103.4	90 - 110	P	02/25/2014	12:40	LB69931
	Nickel	2591.7	2500	103.7	90 - 110	P	02/25/2014	12:40	LB69931
	Potassium	25190	25000	100.8	90 - 110	P	02/25/2014	12:40	LB69931
	Selenium	5076.9	5000	101.5	90 - 110	P	02/25/2014	12:40	LB69931
	Silver	1267.6	1250	101.4	90 - 110	P	02/25/2014	12:40	LB69931
	Sodium	25096	25000	100.4	90 - 110	P	02/25/2014	12:40	LB69931
	Thallium	5212.2	5000	104.2	90 - 110	P	02/25/2014	12:40	LB69931
	Vanadium	2509.8	2500	100.4	90 - 110	P	02/25/2014	12:40	LB69931
	Zinc	2516.1	2500	100.6	90 - 110	P	02/25/2014	12:40	LB69931

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	93.27	100	93.3	70 - 130	P	02/25/2014	12:44	LB69931
	Antimony	55.2	50	110.4	70 - 130	P	02/25/2014	12:44	LB69931
	Arsenic	23	20	115	70 - 130	P	02/25/2014	12:44	LB69931
	Barium	99.39	100	99.4	70 - 130	P	02/25/2014	12:44	LB69931
	Beryllium	6.18	6	103	70 - 130	P	02/25/2014	12:44	LB69931
	Cadmium	6.58	6	109.7	70 - 130	P	02/25/2014	12:44	LB69931
	Calcium	2060.1	2000	103	70 - 130	P	02/25/2014	12:44	LB69931
	Chromium	10.03	10	100.3	70 - 130	P	02/25/2014	12:44	LB69931
	Cobalt	29.74	30	99.1	70 - 130	P	02/25/2014	12:44	LB69931
	Copper	21.43	20	107.2	70 - 130	P	02/25/2014	12:44	LB69931
	Iron	102.95	100	103	70 - 130	P	02/25/2014	12:44	LB69931
	Lead	12.37	12	103.1	70 - 130	P	02/25/2014	12:44	LB69931
	Magnesium	2071.9	2000	103.6	70 - 130	P	02/25/2014	12:44	LB69931
	Manganese	20.74	20	103.7	70 - 130	P	02/25/2014	12:44	LB69931
	Nickel	41.33	40	103.3	70 - 130	P	02/25/2014	12:44	LB69931
	Potassium	1930.5	2000	96.5	70 - 130	P	02/25/2014	12:44	LB69931
	Selenium	19.92	20	99.6	70 - 130	P	02/25/2014	12:44	LB69931
	Silver	10.22	10	102.2	70 - 130	P	02/25/2014	12:44	LB69931
	Sodium	1922	2000	96.1	70 - 130	P	02/25/2014	12:44	LB69931
	Thallium	42.17	40	105.4	70 - 130	P	02/25/2014	12:44	LB69931
	Vanadium	38.12	40	95.3	70 - 130	P	02/25/2014	12:44	LB69931
	Zinc	43.7	40	109.3	70 - 130	P	02/25/2014	12:44	LB69931

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	10348	10000	103.5	90 - 110	P	02/25/2014	13:41	LB69931
	Antimony	5110.3	5000	102.2	90 - 110	P	02/25/2014	13:41	LB69931
	Arsenic	4973.8	5000	99.5	90 - 110	P	02/25/2014	13:41	LB69931
	Barium	10257	10000	102.6	90 - 110	P	02/25/2014	13:41	LB69931
	Beryllium	261.12	250	104.4	90 - 110	P	02/25/2014	13:41	LB69931
	Cadmium	2607.8	2500	104.3	90 - 110	P	02/25/2014	13:41	LB69931
	Calcium	25562	25000	102.2	90 - 110	P	02/25/2014	13:41	LB69931
	Chromium	1045.4	1000	104.5	90 - 110	P	02/25/2014	13:41	LB69931
	Cobalt	2577.3	2500	103.1	90 - 110	P	02/25/2014	13:41	LB69931
	Copper	1283.7	1250	102.7	90 - 110	P	02/25/2014	13:41	LB69931
	Iron	5182.4	5000	103.6	90 - 110	P	02/25/2014	13:41	LB69931
	Lead	5197.3	5000	103.9	90 - 110	P	02/25/2014	13:41	LB69931
	Magnesium	25620	25000	102.5	90 - 110	P	02/25/2014	13:41	LB69931
	Manganese	2615.3	2500	104.6	90 - 110	P	02/25/2014	13:41	LB69931
	Nickel	2620.3	2500	104.8	90 - 110	P	02/25/2014	13:41	LB69931
	Potassium	25166	25000	100.7	90 - 110	P	02/25/2014	13:41	LB69931
	Selenium	5090.5	5000	101.8	90 - 110	P	02/25/2014	13:41	LB69931
	Silver	1292.9	1250	103.4	90 - 110	P	02/25/2014	13:41	LB69931
	Sodium	25017	25000	100.1	90 - 110	P	02/25/2014	13:41	LB69931
	Thallium	5263.9	5000	105.3	90 - 110	P	02/25/2014	13:41	LB69931
	Vanadium	2528.7	2500	101.1	90 - 110	P	02/25/2014	13:41	LB69931
	Zinc	2548.7	2500	101.9	90 - 110	P	02/25/2014	13:41	LB69931
CCV03	Aluminum	10303	10000	103	90 - 110	P	02/25/2014	14:44	LB69931
	Antimony	5106.5	5000	102.1	90 - 110	P	02/25/2014	14:44	LB69931
	Arsenic	4890.5	5000	97.8	90 - 110	P	02/25/2014	14:44	LB69931
	Barium	10250	10000	102.5	90 - 110	P	02/25/2014	14:44	LB69931
	Beryllium	259.83	250	103.9	90 - 110	P	02/25/2014	14:44	LB69931
	Cadmium	2547.9	2500	101.9	90 - 110	P	02/25/2014	14:44	LB69931
	Calcium	25348	25000	101.4	90 - 110	P	02/25/2014	14:44	LB69931
	Chromium	1018.3	1000	101.8	90 - 110	P	02/25/2014	14:44	LB69931
	Cobalt	2536	2500	101.4	90 - 110	P	02/25/2014	14:44	LB69931
	Copper	1283.3	1250	102.7	90 - 110	P	02/25/2014	14:44	LB69931
	Iron	5077.5	5000	101.6	90 - 110	P	02/25/2014	14:44	LB69931
	Lead	5091.9	5000	101.8	90 - 110	P	02/25/2014	14:44	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	25500	25000	102	90 - 110	P	02/25/2014	14:44	LB69931
	Manganese	2582.8	2500	103.3	90 - 110	P	02/25/2014	14:44	LB69931
	Nickel	2569.9	2500	102.8	90 - 110	P	02/25/2014	14:44	LB69931
	Potassium	25056	25000	100.2	90 - 110	P	02/25/2014	14:44	LB69931
	Selenium	5052.8	5000	101.1	90 - 110	P	02/25/2014	14:44	LB69931
	Silver	1269.7	1250	101.6	90 - 110	P	02/25/2014	14:44	LB69931
	Sodium	25197	25000	100.8	90 - 110	P	02/25/2014	14:44	LB69931
	Thallium	5210	5000	104.2	90 - 110	P	02/25/2014	14:44	LB69931
	Vanadium	2501.4	2500	100.1	90 - 110	P	02/25/2014	14:44	LB69931
	Zinc	2514.4	2500	100.6	90 - 110	P	02/25/2014	14:44	LB69931
CCV04	Aluminum	10197	10000	102	90 - 110	P	02/25/2014	15:40	LB69931
	Antimony	5124.4	5000	102.5	90 - 110	P	02/25/2014	15:40	LB69931
	Arsenic	4922.5	5000	98.5	90 - 110	P	02/25/2014	15:40	LB69931
	Barium	10271	10000	102.7	90 - 110	P	02/25/2014	15:40	LB69931
	Beryllium	258.36	250	103.3	90 - 110	P	02/25/2014	15:40	LB69931
	Cadmium	2539.9	2500	101.6	90 - 110	P	02/25/2014	15:40	LB69931
	Calcium	25304	25000	101.2	90 - 110	P	02/25/2014	15:40	LB69931
	Chromium	1007.9	1000	100.8	90 - 110	P	02/25/2014	15:40	LB69931
	Cobalt	2530.8	2500	101.2	90 - 110	P	02/25/2014	15:40	LB69931
	Copper	1285.9	1250	102.9	90 - 110	P	02/25/2014	15:40	LB69931
	Iron	5016	5000	100.3	90 - 110	P	02/25/2014	15:40	LB69931
	Lead	5076.4	5000	101.5	90 - 110	P	02/25/2014	15:40	LB69931
	Magnesium	25508	25000	102	90 - 110	P	02/25/2014	15:40	LB69931
	Manganese	2565.4	2500	102.6	90 - 110	P	02/25/2014	15:40	LB69931
	Nickel	2551.8	2500	102.1	90 - 110	P	02/25/2014	15:40	LB69931
	Potassium	25163	25000	100.7	90 - 110	P	02/25/2014	15:40	LB69931
	Selenium	5054.5	5000	101.1	90 - 110	P	02/25/2014	15:40	LB69931
	Silver	1254.3	1250	100.3	90 - 110	P	02/25/2014	15:40	LB69931
	Sodium	25271	25000	101.1	90 - 110	P	02/25/2014	15:40	LB69931
	Thallium	5180	5000	103.6	90 - 110	P	02/25/2014	15:40	LB69931
	Vanadium	2491.6	2500	99.7	90 - 110	P	02/25/2014	15:40	LB69931
	Zinc	2470.6	2500	98.8	90 - 110	P	02/25/2014	15:40	LB69931
CCV05	Aluminum	10188	10000	101.9	90 - 110	P	02/25/2014	16:37	LB69931
	Antimony	5168.6	5000	103.4	90 - 110	P	02/25/2014	16:37	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4977.6	5000	99.6	90 - 110	P	02/25/2014	16:37	LB69931
	Barium	10326	10000	103.3	90 - 110	P	02/25/2014	16:37	LB69931
	Beryllium	256.96	250	102.8	90 - 110	P	02/25/2014	16:37	LB69931
	Cadmium	2566	2500	102.6	90 - 110	P	02/25/2014	16:37	LB69931
	Calcium	25378	25000	101.5	90 - 110	P	02/25/2014	16:37	LB69931
	Chromium	1012.6	1000	101.3	90 - 110	P	02/25/2014	16:37	LB69931
	Cobalt	2556.2	2500	102.2	90 - 110	P	02/25/2014	16:37	LB69931
	Copper	1291	1250	103.3	90 - 110	P	02/25/2014	16:37	LB69931
	Iron	5104.2	5000	102.1	90 - 110	P	02/25/2014	16:37	LB69931
	Lead	5134.4	5000	102.7	90 - 110	P	02/25/2014	16:37	LB69931
	Magnesium	25390	25000	101.6	90 - 110	P	02/25/2014	16:37	LB69931
	Manganese	2563.1	2500	102.5	90 - 110	P	02/25/2014	16:37	LB69931
	Nickel	2577.8	2500	103.1	90 - 110	P	02/25/2014	16:37	LB69931
	Potassium	25288	25000	101.2	90 - 110	P	02/25/2014	16:37	LB69931
	Selenium	5092.8	5000	101.9	90 - 110	P	02/25/2014	16:37	LB69931
	Silver	1260	1250	100.8	90 - 110	P	02/25/2014	16:37	LB69931
	Sodium	25405	25000	101.6	90 - 110	P	02/25/2014	16:37	LB69931
	Thallium	5226.2	5000	104.5	90 - 110	P	02/25/2014	16:37	LB69931
	Vanadium	2508.7	2500	100.3	90 - 110	P	02/25/2014	16:37	LB69931
	Zinc	2528.4	2500	101.1	90 - 110	P	02/25/2014	16:37	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV05	Aluminum	101.77	100	101.8	70 - 130	P	02/25/2014	16:41	LB69931
	Antimony	55.32	50	110.6	70 - 130	P	02/25/2014	16:41	LB69931
	Arsenic	20.54	20	102.7	70 - 130	P	02/25/2014	16:41	LB69931
	Barium	101.58	100	101.6	70 - 130	P	02/25/2014	16:41	LB69931
	Beryllium	6.33	6	105.5	70 - 130	P	02/25/2014	16:41	LB69931
	Cadmium	6.98	6	116.3	70 - 130	P	02/25/2014	16:41	LB69931
	Calcium	2095.2	2000	104.8	70 - 130	P	02/25/2014	16:41	LB69931
	Chromium	10.27	10	102.7	70 - 130	P	02/25/2014	16:41	LB69931
	Cobalt	30.21	30	100.7	70 - 130	P	02/25/2014	16:41	LB69931
	Copper	21.61	20	108.1	70 - 130	P	02/25/2014	16:41	LB69931
	Iron	105.44	100	105.4	70 - 130	P	02/25/2014	16:41	LB69931
	Lead	13.47	12	112.3	70 - 130	P	02/25/2014	16:41	LB69931
	Magnesium	2121.8	2000	106.1	70 - 130	P	02/25/2014	16:41	LB69931
	Manganese	21.03	20	105.2	70 - 130	P	02/25/2014	16:41	LB69931
	Nickel	41.56	40	103.9	70 - 130	P	02/25/2014	16:41	LB69931
	Potassium	1982.6	2000	99.1	70 - 130	P	02/25/2014	16:41	LB69931
	Selenium	21.21	20	106.1	70 - 130	P	02/25/2014	16:41	LB69931
	Silver	10.4	10	104	70 - 130	P	02/25/2014	16:41	LB69931
	Sodium	2003.4	2000	100.2	70 - 130	P	02/25/2014	16:41	LB69931
	Thallium	42.24	40	105.6	70 - 130	P	02/25/2014	16:41	LB69931
	Vanadium	38.6	40	96.5	70 - 130	P	02/25/2014	16:41	LB69931
	Zinc	43.19	40	108	70 - 130	P	02/25/2014	16:41	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Aluminum	10204	10000	102	90 - 110	P	02/25/2014	17:54	LB69931
	Antimony	5117.2	5000	102.3	90 - 110	P	02/25/2014	17:54	LB69931
	Arsenic	4994.3	5000	99.9	90 - 110	P	02/25/2014	17:54	LB69931
	Barium	10253	10000	102.5	90 - 110	P	02/25/2014	17:54	LB69931
	Beryllium	256.23	250	102.5	90 - 110	P	02/25/2014	17:54	LB69931
	Cadmium	2560.8	2500	102.4	90 - 110	P	02/25/2014	17:54	LB69931
	Calcium	25380	25000	101.5	90 - 110	P	02/25/2014	17:54	LB69931
	Chromium	1027.3	1000	102.7	90 - 110	P	02/25/2014	17:54	LB69931
	Cobalt	2537.9	2500	101.5	90 - 110	P	02/25/2014	17:54	LB69931
	Copper	1269.3	1250	101.5	90 - 110	P	02/25/2014	17:54	LB69931
	Iron	5074.8	5000	101.5	90 - 110	P	02/25/2014	17:54	LB69931
	Lead	5120.2	5000	102.4	90 - 110	P	02/25/2014	17:54	LB69931
	Magnesium	25300	25000	101.2	90 - 110	P	02/25/2014	17:54	LB69931
	Manganese	2555.8	2500	102.2	90 - 110	P	02/25/2014	17:54	LB69931
	Nickel	2571.3	2500	102.9	90 - 110	P	02/25/2014	17:54	LB69931
	Potassium	25382	25000	101.5	90 - 110	P	02/25/2014	17:54	LB69931
	Selenium	5084.2	5000	101.7	90 - 110	P	02/25/2014	17:54	LB69931
	Silver	1280.5	1250	102.4	90 - 110	P	02/25/2014	17:54	LB69931
	Sodium	25138	25000	100.6	90 - 110	P	02/25/2014	17:54	LB69931
	Thallium	5187.3	5000	103.7	90 - 110	P	02/25/2014	17:54	LB69931
	Vanadium	2493.4	2500	99.7	90 - 110	P	02/25/2014	17:54	LB69931
	Zinc	2497.8	2500	99.9	90 - 110	P	02/25/2014	17:54	LB69931
CCV07	Aluminum	10169	10000	101.7	90 - 110	P	02/25/2014	18:51	LB69931
	Antimony	5132.5	5000	102.7	90 - 110	P	02/25/2014	18:51	LB69931
	Arsenic	4981.8	5000	99.6	90 - 110	P	02/25/2014	18:51	LB69931
	Barium	10243	10000	102.4	90 - 110	P	02/25/2014	18:51	LB69931
	Beryllium	258.93	250	103.6	90 - 110	P	02/25/2014	18:51	LB69931
	Cadmium	2547.5	2500	101.9	90 - 110	P	02/25/2014	18:51	LB69931
	Calcium	25251	25000	101	90 - 110	P	02/25/2014	18:51	LB69931
	Chromium	1015.9	1000	101.6	90 - 110	P	02/25/2014	18:51	LB69931
	Cobalt	2534.7	2500	101.4	90 - 110	P	02/25/2014	18:51	LB69931
	Copper	1279.2	1250	102.3	90 - 110	P	02/25/2014	18:51	LB69931
	Iron	5090.9	5000	101.8	90 - 110	P	02/25/2014	18:51	LB69931
	Lead	5104.5	5000	102.1	90 - 110	P	02/25/2014	18:51	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Magnesium	25257	25000	101	90 - 110	P	02/25/2014	18:51	LB69931
	Manganese	2558.2	2500	102.3	90 - 110	P	02/25/2014	18:51	LB69931
	Nickel	2557.2	2500	102.3	90 - 110	P	02/25/2014	18:51	LB69931
	Potassium	25157	25000	100.6	90 - 110	P	02/25/2014	18:51	LB69931
	Selenium	5071.4	5000	101.4	90 - 110	P	02/25/2014	18:51	LB69931
	Silver	1268.2	1250	101.5	90 - 110	P	02/25/2014	18:51	LB69931
	Sodium	25116	25000	100.5	90 - 110	P	02/25/2014	18:51	LB69931
	Thallium	5165.8	5000	103.3	90 - 110	P	02/25/2014	18:51	LB69931
	Vanadium	2493.6	2500	99.7	90 - 110	P	02/25/2014	18:51	LB69931
	Zinc	2517.8	2500	100.7	90 - 110	P	02/25/2014	18:51	LB69931
CCV08	Aluminum	10114	10000	101.1	90 - 110	P	02/25/2014	19:51	LB69931
	Antimony	5121.4	5000	102.4	90 - 110	P	02/25/2014	19:51	LB69931
	Arsenic	4978.6	5000	99.6	90 - 110	P	02/25/2014	19:51	LB69931
	Barium	10049	10000	100.5	90 - 110	P	02/25/2014	19:51	LB69931
	Beryllium	258.2	250	103.3	90 - 110	P	02/25/2014	19:51	LB69931
	Cadmium	2557.3	2500	102.3	90 - 110	P	02/25/2014	19:51	LB69931
	Calcium	26173	25000	104.7	90 - 110	P	02/25/2014	19:51	LB69931
	Chromium	1024.9	1000	102.5	90 - 110	P	02/25/2014	19:51	LB69931
	Cobalt	2544.4	2500	101.8	90 - 110	P	02/25/2014	19:51	LB69931
	Copper	1276.9	1250	102.2	90 - 110	P	02/25/2014	19:51	LB69931
	Iron	5171.9	5000	103.4	90 - 110	P	02/25/2014	19:51	LB69931
	Lead	5123.2	5000	102.5	90 - 110	P	02/25/2014	19:51	LB69931
	Magnesium	26224	25000	104.9	90 - 110	P	02/25/2014	19:51	LB69931
	Manganese	2562.8	2500	102.5	90 - 110	P	02/25/2014	19:51	LB69931
	Nickel	2561.5	2500	102.5	90 - 110	P	02/25/2014	19:51	LB69931
	Potassium	24976	25000	99.9	90 - 110	P	02/25/2014	19:51	LB69931
	Selenium	5004	5000	100.1	90 - 110	P	02/25/2014	19:51	LB69931
	Silver	1265.3	1250	101.2	90 - 110	P	02/25/2014	19:51	LB69931
	Sodium	24741	25000	99	90 - 110	P	02/25/2014	19:51	LB69931
	Thallium	5166.2	5000	103.3	90 - 110	P	02/25/2014	19:51	LB69931
	Vanadium	2523.5	2500	100.9	90 - 110	P	02/25/2014	19:51	LB69931
	Zinc	2466.2	2500	98.6	90 - 110	P	02/25/2014	19:51	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV08	Aluminum	90.15	100	90.2	70 - 130	P	02/25/2014	19:56	LB69931
	Antimony	54.68	50	109.4	70 - 130	P	02/25/2014	19:56	LB69931
	Arsenic	22.19	20	111	70 - 130	P	02/25/2014	19:56	LB69931
	Barium	104.12	100	104.1	70 - 130	P	02/25/2014	19:56	LB69931
	Beryllium	6.37	6	106.2	70 - 130	P	02/25/2014	19:56	LB69931
	Cadmium	6.6	6	110	70 - 130	P	02/25/2014	19:56	LB69931
	Calcium	2098.3	2000	104.9	70 - 130	P	02/25/2014	19:56	LB69931
	Chromium	10.76	10	107.6	70 - 130	P	02/25/2014	19:56	LB69931
	Cobalt	30.53	30	101.8	70 - 130	P	02/25/2014	19:56	LB69931
	Copper	21.14	20	105.7	70 - 130	P	02/25/2014	19:56	LB69931
	Iron	111.18	100	111.2	70 - 130	P	02/25/2014	19:56	LB69931
	Lead	14.27	12	118.9	70 - 130	P	02/25/2014	19:56	LB69931
	Magnesium	2146.8	2000	107.3	70 - 130	P	02/25/2014	19:56	LB69931
	Manganese	20.8	20	104	70 - 130	P	02/25/2014	19:56	LB69931
	Nickel	41.32	40	103.3	70 - 130	P	02/25/2014	19:56	LB69931
	Potassium	2052.3	2000	102.6	70 - 130	P	02/25/2014	19:56	LB69931
	Selenium	19.65	20	98.3	70 - 130	P	02/25/2014	19:56	LB69931
	Silver	11.15	10	111.5	70 - 130	P	02/25/2014	19:56	LB69931
	Sodium	2035.2	2000	101.8	70 - 130	P	02/25/2014	19:56	LB69931
	Thallium	41.37	40	103.4	70 - 130	P	02/25/2014	19:56	LB69931
	Vanadium	38.74	40	96.9	70 - 130	P	02/25/2014	19:56	LB69931
	Zinc	45.84	40	114.6	70 - 130	P	02/25/2014	19:56	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV09	Aluminum	10013	10000	100.1	90 - 110	P	02/25/2014	20:56	LB69931
	Antimony	5075.6	5000	101.5	90 - 110	P	02/25/2014	20:56	LB69931
	Arsenic	4920.1	5000	98.4	90 - 110	P	02/25/2014	20:56	LB69931
	Barium	10160	10000	101.6	90 - 110	P	02/25/2014	20:56	LB69931
	Beryllium	260.81	250	104.3	90 - 110	P	02/25/2014	20:56	LB69931
	Cadmium	2544.9	2500	101.8	90 - 110	P	02/25/2014	20:56	LB69931
	Calcium	25289	25000	101.2	90 - 110	P	02/25/2014	20:56	LB69931
	Chromium	1020.5	1000	102.1	90 - 110	P	02/25/2014	20:56	LB69931
	Cobalt	2527.9	2500	101.1	90 - 110	P	02/25/2014	20:56	LB69931
	Copper	1271.1	1250	101.7	90 - 110	P	02/25/2014	20:56	LB69931
	Iron	5152.1	5000	103	90 - 110	P	02/25/2014	20:56	LB69931
	Lead	5093.1	5000	101.9	90 - 110	P	02/25/2014	20:56	LB69931
	Magnesium	25431	25000	101.7	90 - 110	P	02/25/2014	20:56	LB69931
	Manganese	2568.9	2500	102.8	90 - 110	P	02/25/2014	20:56	LB69931
	Nickel	2553	2500	102.1	90 - 110	P	02/25/2014	20:56	LB69931
	Potassium	25330	25000	101.3	90 - 110	P	02/25/2014	20:56	LB69931
	Selenium	5000.3	5000	100	90 - 110	P	02/25/2014	20:56	LB69931
	Silver	1269.2	1250	101.5	90 - 110	P	02/25/2014	20:56	LB69931
	Sodium	25151	25000	100.6	90 - 110	P	02/25/2014	20:56	LB69931
	Thallium	5156	5000	103.1	90 - 110	P	02/25/2014	20:56	LB69931
	Vanadium	2500.5	2500	100	90 - 110	P	02/25/2014	20:56	LB69931
	Zinc	2572.1	2500	102.9	90 - 110	P	02/25/2014	20:56	LB69931
CCV10	Aluminum	10033	10000	100.3	90 - 110	P	02/25/2014	21:57	LB69931
	Antimony	5070.5	5000	101.4	90 - 110	P	02/25/2014	21:57	LB69931
	Arsenic	4921.9	5000	98.4	90 - 110	P	02/25/2014	21:57	LB69931
	Barium	10166	10000	101.7	90 - 110	P	02/25/2014	21:57	LB69931
	Beryllium	261.62	250	104.6	90 - 110	P	02/25/2014	21:57	LB69931
	Cadmium	2562.3	2500	102.5	90 - 110	P	02/25/2014	21:57	LB69931
	Calcium	25246	25000	101	90 - 110	P	02/25/2014	21:57	LB69931
	Chromium	1035.8	1000	103.6	90 - 110	P	02/25/2014	21:57	LB69931
	Cobalt	2531.9	2500	101.3	90 - 110	P	02/25/2014	21:57	LB69931
	Copper	1266.2	1250	101.3	90 - 110	P	02/25/2014	21:57	LB69931
	Iron	5133.1	5000	102.7	90 - 110	P	02/25/2014	21:57	LB69931
	Lead	5121.1	5000	102.4	90 - 110	P	02/25/2014	21:57	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Magnesium	25501	25000	102	90 - 110	P	02/25/2014	21:57	LB69931
	Manganese	2583.5	2500	103.3	90 - 110	P	02/25/2014	21:57	LB69931
	Nickel	2582.4	2500	103.3	90 - 110	P	02/25/2014	21:57	LB69931
	Potassium	25269	25000	101.1	90 - 110	P	02/25/2014	21:57	LB69931
	Selenium	5052	5000	101	90 - 110	P	02/25/2014	21:57	LB69931
	Silver	1278.3	1250	102.3	90 - 110	P	02/25/2014	21:57	LB69931
	Sodium	25090	25000	100.4	90 - 110	P	02/25/2014	21:57	LB69931
	Thallium	5175.8	5000	103.5	90 - 110	P	02/25/2014	21:57	LB69931
	Vanadium	2492.4	2500	99.7	90 - 110	P	02/25/2014	21:57	LB69931
	Zinc	2596	2500	103.8	90 - 110	P	02/25/2014	21:57	LB69931
CCV11	Aluminum	9935.7	10000	99.4	90 - 110	P	02/25/2014	22:58	LB69931
	Antimony	5083.8	5000	101.7	90 - 110	P	02/25/2014	22:58	LB69931
	Arsenic	4921.6	5000	98.4	90 - 110	P	02/25/2014	22:58	LB69931
	Barium	10204	10000	102	90 - 110	P	02/25/2014	22:58	LB69931
	Beryllium	262.1	250	104.8	90 - 110	P	02/25/2014	22:58	LB69931
	Cadmium	2563.6	2500	102.5	90 - 110	P	02/25/2014	22:58	LB69931
	Calcium	25378	25000	101.5	90 - 110	P	02/25/2014	22:58	LB69931
	Chromium	1034.9	1000	103.5	90 - 110	P	02/25/2014	22:58	LB69931
	Cobalt	2538.8	2500	101.6	90 - 110	P	02/25/2014	22:58	LB69931
	Copper	1271.1	1250	101.7	90 - 110	P	02/25/2014	22:58	LB69931
	Iron	5220.8	5000	104.4	90 - 110	P	02/25/2014	22:58	LB69931
	Lead	5138	5000	102.8	90 - 110	P	02/25/2014	22:58	LB69931
	Magnesium	25747	25000	103	90 - 110	P	02/25/2014	22:58	LB69931
	Manganese	2588.6	2500	103.5	90 - 110	P	02/25/2014	22:58	LB69931
	Nickel	2571.9	2500	102.9	90 - 110	P	02/25/2014	22:58	LB69931
	Potassium	25475	25000	101.9	90 - 110	P	02/25/2014	22:58	LB69931
	Selenium	5024.6	5000	100.5	90 - 110	P	02/25/2014	22:58	LB69931
	Silver	1283.3	1250	102.7	90 - 110	P	02/25/2014	22:58	LB69931
	Sodium	25280	25000	101.1	90 - 110	P	02/25/2014	22:58	LB69931
	Thallium	5201.6	5000	104	90 - 110	P	02/25/2014	22:58	LB69931
	Vanadium	2501.9	2500	100.1	90 - 110	P	02/25/2014	22:58	LB69931
	Zinc	2696.5	2500	107.9	90 - 110	P	02/25/2014	22:58	LB69931
CCV12	Aluminum	10049	10000	100.5	90 - 110	P	02/26/2014	00:00	LB69931
	Antimony	5086.8	5000	101.7	90 - 110	P	02/26/2014	00:00	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV12	Arsenic	4854.2	5000	97.1	90 - 110	P	02/26/2014	00:00	LB69931
	Barium	10214	10000	102.1	90 - 110	P	02/26/2014	00:00	LB69931
	Beryllium	263.69	250	105.5	90 - 110	P	02/26/2014	00:00	LB69931
	Cadmium	2567.2	2500	102.7	90 - 110	P	02/26/2014	00:00	LB69931
	Calcium	25269	25000	101.1	90 - 110	P	02/26/2014	00:00	LB69931
	Chromium	1022.3	1000	102.2	90 - 110	P	02/26/2014	00:00	LB69931
	Cobalt	2541.4	2500	101.7	90 - 110	P	02/26/2014	00:00	LB69931
	Copper	1277.9	1250	102.2	90 - 110	P	02/26/2014	00:00	LB69931
	Iron	5086.8	5000	101.7	90 - 110	P	02/26/2014	00:00	LB69931
	Lead	5100.6	5000	102	90 - 110	P	02/26/2014	00:00	LB69931
	Magnesium	25303	25000	101.2	90 - 110	P	02/26/2014	00:00	LB69931
	Manganese	2600.1	2500	104	90 - 110	P	02/26/2014	00:00	LB69931
	Nickel	2589.8	2500	103.6	90 - 110	P	02/26/2014	00:00	LB69931
	Potassium	25179	25000	100.7	90 - 110	P	02/26/2014	00:00	LB69931
	Selenium	5069.1	5000	101.4	90 - 110	P	02/26/2014	00:00	LB69931
	Silver	1264.5	1250	101.2	90 - 110	P	02/26/2014	00:00	LB69931
	Sodium	25169	25000	100.7	90 - 110	P	02/26/2014	00:00	LB69931
	Thallium	5226	5000	104.5	90 - 110	P	02/26/2014	00:00	LB69931
	Vanadium	2492.8	2500	99.7	90 - 110	P	02/26/2014	00:00	LB69931
	Zinc	2594	2500	103.8	90 - 110	P	02/26/2014	00:00	LB69931
CCV13	Aluminum	9983	10000	99.8	90 - 110	P	02/26/2014	00:26	LB69931
	Antimony	5068.3	5000	101.4	90 - 110	P	02/26/2014	00:26	LB69931
	Arsenic	4894.6	5000	97.9	90 - 110	P	02/26/2014	00:26	LB69931
	Barium	10166	10000	101.7	90 - 110	P	02/26/2014	00:26	LB69931
	Beryllium	262.54	250	105	90 - 110	P	02/26/2014	00:26	LB69931
	Cadmium	2572.8	2500	102.9	90 - 110	P	02/26/2014	00:26	LB69931
	Calcium	25086	25000	100.3	90 - 110	P	02/26/2014	00:26	LB69931
	Chromium	1034.3	1000	103.4	90 - 110	P	02/26/2014	00:26	LB69931
	Cobalt	2539.4	2500	101.6	90 - 110	P	02/26/2014	00:26	LB69931
	Copper	1271.3	1250	101.7	90 - 110	P	02/26/2014	00:26	LB69931
	Iron	5120.4	5000	102.4	90 - 110	P	02/26/2014	00:26	LB69931
	Lead	5127.6	5000	102.6	90 - 110	P	02/26/2014	00:26	LB69931
	Magnesium	25433	25000	101.7	90 - 110	P	02/26/2014	00:26	LB69931
	Manganese	2602.2	2500	104.1	90 - 110	P	02/26/2014	00:26	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV13	Nickel	2596.3	2500	103.9	90 - 110	P	02/26/2014	00:26	LB69931
	Potassium	25139	25000	100.6	90 - 110	P	02/26/2014	00:26	LB69931
	Selenium	5059.9	5000	101.2	90 - 110	P	02/26/2014	00:26	LB69931
	Silver	1276.9	1250	102.2	90 - 110	P	02/26/2014	00:26	LB69931
	Sodium	25074	25000	100.3	90 - 110	P	02/26/2014	00:26	LB69931
	Thallium	5232.5	5000	104.7	90 - 110	P	02/26/2014	00:26	LB69931
	Vanadium	2497.5	2500	99.9	90 - 110	P	02/26/2014	00:26	LB69931
	Zinc	2626.2	2500	105	90 - 110	P	02/26/2014	00:26	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV13	Aluminum	84.93	100	84.9	70 - 130	P	02/26/2014	00:31	LB69931
	Antimony	53.34	50	106.7	70 - 130	P	02/26/2014	00:31	LB69931
	Arsenic	20.86	20	104.3	70 - 130	P	02/26/2014	00:31	LB69931
	Barium	102.89	100	102.9	70 - 130	P	02/26/2014	00:31	LB69931
	Beryllium	6.46	6	107.7	70 - 130	P	02/26/2014	00:31	LB69931
	Cadmium	6.72	6	112	70 - 130	P	02/26/2014	00:31	LB69931
	Calcium	2070.1	2000	103.5	70 - 130	P	02/26/2014	00:31	LB69931
	Chromium	10.59	10	105.9	70 - 130	P	02/26/2014	00:31	LB69931
	Cobalt	30.18	30	100.6	70 - 130	P	02/26/2014	00:31	LB69931
	Copper	22.85	20	114.3	70 - 130	P	02/26/2014	00:31	LB69931
	Iron	107.14	100	107.1	70 - 130	P	02/26/2014	00:31	LB69931
	Lead	12.5	12	104.2	70 - 130	P	02/26/2014	00:31	LB69931
	Magnesium	2071.1	2000	103.6	70 - 130	P	02/26/2014	00:31	LB69931
	Manganese	21.36	20	106.8	70 - 130	P	02/26/2014	00:31	LB69931
	Nickel	42.17	40	105.4	70 - 130	P	02/26/2014	00:31	LB69931
	Potassium	1949.7	2000	97.5	70 - 130	P	02/26/2014	00:31	LB69931
	Selenium	21.72	20	108.6	70 - 130	P	02/26/2014	00:31	LB69931
	Silver	10.52	10	105.2	70 - 130	P	02/26/2014	00:31	LB69931
	Sodium	1961.5	2000	98.1	70 - 130	P	02/26/2014	00:31	LB69931
	Thallium	41.95	40	104.9	70 - 130	P	02/26/2014	00:31	LB69931
	Vanadium	38.1	40	95.3	70 - 130	P	02/26/2014	00:31	LB69931
	Zinc	45.89	40	114.7	70 - 130	P	02/26/2014	00:31	LB69931

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2354.8	2521	93.4	90 - 110	P	02/26/2014	11:40	LB69952
	Antimony	1070.1	994	107.7	90 - 110	P	02/26/2014	11:40	LB69952
	Arsenic	1012.7	999	101.4	90 - 110	P	02/26/2014	11:40	LB69952
	Barium	485.95	503	96.6	90 - 110	P	02/26/2014	11:40	LB69952
	Beryllium	501.64	495	101.3	90 - 110	P	02/26/2014	11:40	LB69952
	Cadmium	523.45	496	105.5	90 - 110	P	02/26/2014	11:40	LB69952
	Calcium	9988.9	10026	99.6	90 - 110	P	02/26/2014	11:40	LB69952
	Chromium	475.42	490	97	90 - 110	P	02/26/2014	11:40	LB69952
	Cobalt	502.48	499	100.7	90 - 110	P	02/26/2014	11:40	LB69952
	Copper	520.32	492	105.8	90 - 110	P	02/26/2014	11:40	LB69952
	Iron	4747.2	5082	93.4	90 - 110	P	02/26/2014	11:40	LB69952
	Lead	1044.2	1002	104.2	90 - 110	P	02/26/2014	11:40	LB69952
	Magnesium	5966.1	6074	98.2	90 - 110	P	02/26/2014	11:40	LB69952
	Manganese	481.2	499	96.4	90 - 110	P	02/26/2014	11:40	LB69952
	Nickel	511.07	503	101.6	90 - 110	P	02/26/2014	11:40	LB69952
	Potassium	9724.7	10021	97	90 - 110	P	02/26/2014	11:40	LB69952
	Selenium	1117.9	1029	108.6	90 - 110	P	02/26/2014	11:40	LB69952
	Silver	490.16	501	97.8	90 - 110	P	02/26/2014	11:40	LB69952
	Sodium	9669.1	10097	95.8	90 - 110	P	02/26/2014	11:40	LB69952
	Thallium	1064	1028	103.5	90 - 110	P	02/26/2014	11:40	LB69952
	Vanadium	467.63	501	93.3	90 - 110	P	02/26/2014	11:40	LB69952
	Zinc	985.31	1025	96.1	90 - 110	P	02/26/2014	11:40	LB69952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	81.05	100	81.1	70 - 130	P	02/26/2014	11:47	LB69952
	Antimony	51.91	50	103.8	70 - 130	P	02/26/2014	11:47	LB69952
	Arsenic	20.77	20	103.9	70 - 130	P	02/26/2014	11:47	LB69952
	Barium	94.62	100	94.6	70 - 130	P	02/26/2014	11:47	LB69952
	Beryllium	5.93	6	98.8	70 - 130	P	02/26/2014	11:47	LB69952
	Cadmium	6.1	6	101.7	70 - 130	P	02/26/2014	11:47	LB69952
	Calcium	1954.4	2000	97.7	70 - 130	P	02/26/2014	11:47	LB69952
	Chromium	9.01	10	90.1	70 - 130	P	02/26/2014	11:47	LB69952
	Cobalt	28.66	30	95.5	70 - 130	P	02/26/2014	11:47	LB69952
	Copper	20.63	20	103.2	70 - 130	P	02/26/2014	11:47	LB69952
	Iron	71.6	100	71.6	70 - 130	P	02/26/2014	11:47	LB69952
	Lead	11.33	12	94.4	70 - 130	P	02/26/2014	11:47	LB69952
	Magnesium	2011.1	2000	100.6	70 - 130	P	02/26/2014	11:47	LB69952
	Manganese	19.5	20	97.5	70 - 130	P	02/26/2014	11:47	LB69952
	Nickel	40.01	40	100	70 - 130	P	02/26/2014	11:47	LB69952
	Potassium	1944.7	2000	97.2	70 - 130	P	02/26/2014	11:47	LB69952
	Selenium	19.41	20	97.1	70 - 130	P	02/26/2014	11:47	LB69952
	Silver	9.52	10	95.2	70 - 130	P	02/26/2014	11:47	LB69952
	Sodium	1916.2	2000	95.8	70 - 130	P	02/26/2014	11:47	LB69952
	Thallium	39.8	40	99.5	70 - 130	P	02/26/2014	11:47	LB69952
	Vanadium	36.06	40	90.2	70 - 130	P	02/26/2014	11:47	LB69952
	Zinc	41.91	40	104.8	70 - 130	P	02/26/2014	11:47	LB69952

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10059	10000	100.6	90 - 110	P	02/26/2014	12:30	LB69952
	Antimony	5120	5000	102.4	90 - 110	P	02/26/2014	12:30	LB69952
	Arsenic	4901.9	5000	98	90 - 110	P	02/26/2014	12:30	LB69952
	Barium	10158	10000	101.6	90 - 110	P	02/26/2014	12:30	LB69952
	Beryllium	255.21	250	102.1	90 - 110	P	02/26/2014	12:30	LB69952
	Cadmium	2544.6	2500	101.8	90 - 110	P	02/26/2014	12:30	LB69952
	Calcium	25470	25000	101.9	90 - 110	P	02/26/2014	12:30	LB69952
	Chromium	1005.4	1000	100.5	90 - 110	P	02/26/2014	12:30	LB69952
	Cobalt	2531.1	2500	101.2	90 - 110	P	02/26/2014	12:30	LB69952
	Copper	1276.7	1250	102.1	90 - 110	P	02/26/2014	12:30	LB69952
	Iron	5164.7	5000	103.3	90 - 110	P	02/26/2014	12:30	LB69952
	Lead	5092.6	5000	101.9	90 - 110	P	02/26/2014	12:30	LB69952
	Magnesium	25086	25000	100.3	90 - 110	P	02/26/2014	12:30	LB69952
	Manganese	2539.9	2500	101.6	90 - 110	P	02/26/2014	12:30	LB69952
	Nickel	2548.5	2500	101.9	90 - 110	P	02/26/2014	12:30	LB69952
	Potassium	25006	25000	100	90 - 110	P	02/26/2014	12:30	LB69952
	Selenium	4992.9	5000	99.9	90 - 110	P	02/26/2014	12:30	LB69952
	Silver	1244.3	1250	99.5	90 - 110	P	02/26/2014	12:30	LB69952
	Sodium	25301	25000	101.2	90 - 110	P	02/26/2014	12:30	LB69952
	Thallium	5139.5	5000	102.8	90 - 110	P	02/26/2014	12:30	LB69952
	Vanadium	2489.7	2500	99.6	90 - 110	P	02/26/2014	12:30	LB69952
	Zinc	2458	2500	98.3	90 - 110	P	02/26/2014	12:30	LB69952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	90.98	100	91	70 - 130	P	02/26/2014	12:36	LB69952
	Antimony	51.41	50	102.8	70 - 130	P	02/26/2014	12:36	LB69952
	Arsenic	23.38	20	116.9	70 - 130	P	02/26/2014	12:36	LB69952
	Barium	93.7	100	93.7	70 - 130	P	02/26/2014	12:36	LB69952
	Beryllium	6.07	6	101.2	70 - 130	P	02/26/2014	12:36	LB69952
	Cadmium	6.18	6	103	70 - 130	P	02/26/2014	12:36	LB69952
	Calcium	1974.4	2000	98.7	70 - 130	P	02/26/2014	12:36	LB69952
	Chromium	9.12	10	91.2	70 - 130	P	02/26/2014	12:36	LB69952
	Cobalt	28.81	30	96	70 - 130	P	02/26/2014	12:36	LB69952
	Copper	20.51	20	102.6	70 - 130	P	02/26/2014	12:36	LB69952
	Iron	80.11	100	80.1	70 - 130	P	02/26/2014	12:36	LB69952
	Lead	11.43	12	95.3	70 - 130	P	02/26/2014	12:36	LB69952
	Magnesium	1992	2000	99.6	70 - 130	P	02/26/2014	12:36	LB69952
	Manganese	19.65	20	98.3	70 - 130	P	02/26/2014	12:36	LB69952
	Nickel	39.36	40	98.4	70 - 130	P	02/26/2014	12:36	LB69952
	Potassium	1953.4	2000	97.7	70 - 130	P	02/26/2014	12:36	LB69952
	Selenium	19.54	20	97.7	70 - 130	P	02/26/2014	12:36	LB69952
	Silver	10.05	10	100.5	70 - 130	P	02/26/2014	12:36	LB69952
	Sodium	1938.2	2000	96.9	70 - 130	P	02/26/2014	12:36	LB69952
	Thallium	39.67	40	99.2	70 - 130	P	02/26/2014	12:36	LB69952
	Vanadium	36.43	40	91.1	70 - 130	P	02/26/2014	12:36	LB69952
	Zinc	41.28	40	103.2	70 - 130	P	02/26/2014	12:36	LB69952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	10062	10000	100.6	90 - 110	P	02/26/2014	14:08	LB69952
	Antimony	5117.2	5000	102.3	90 - 110	P	02/26/2014	14:08	LB69952
	Arsenic	4882.8	5000	97.7	90 - 110	P	02/26/2014	14:08	LB69952
	Barium	10189	10000	101.9	90 - 110	P	02/26/2014	14:08	LB69952
	Beryllium	259.63	250	103.9	90 - 110	P	02/26/2014	14:08	LB69952
	Cadmium	2557.8	2500	102.3	90 - 110	P	02/26/2014	14:08	LB69952
	Calcium	26165	25000	104.7	90 - 110	P	02/26/2014	14:08	LB69952
	Chromium	1034	1000	103.4	90 - 110	P	02/26/2014	14:08	LB69952
	Cobalt	2545.4	2500	101.8	90 - 110	P	02/26/2014	14:08	LB69952
	Copper	1283.1	1250	102.6	90 - 110	P	02/26/2014	14:08	LB69952
	Iron	5198.8	5000	104	90 - 110	P	02/26/2014	14:08	LB69952
	Lead	5103.9	5000	102.1	90 - 110	P	02/26/2014	14:08	LB69952
	Magnesium	25815	25000	103.3	90 - 110	P	02/26/2014	14:08	LB69952
	Manganese	2589.8	2500	103.6	90 - 110	P	02/26/2014	14:08	LB69952
	Nickel	2565.4	2500	102.6	90 - 110	P	02/26/2014	14:08	LB69952
	Potassium	25119	25000	100.5	90 - 110	P	02/26/2014	14:08	LB69952
	Selenium	5228.2	5000	104.6	90 - 110	P	02/26/2014	14:08	LB69952
	Silver	1259.4	1250	100.8	90 - 110	P	02/26/2014	14:08	LB69952
	Sodium	25713	25000	102.9	90 - 110	P	02/26/2014	14:08	LB69952
	Thallium	5185.3	5000	103.7	90 - 110	P	02/26/2014	14:08	LB69952
	Vanadium	2512.8	2500	100.5	90 - 110	P	02/26/2014	14:08	LB69952
	Zinc	2507.8	2500	100.3	90 - 110	P	02/26/2014	14:08	LB69952
CCV03	Aluminum	10526	10000	105.3	90 - 110	P	02/26/2014	16:03	LB69952
	Antimony	5248.9	5000	105	90 - 110	P	02/26/2014	16:03	LB69952
	Arsenic	5066.6	5000	101.3	90 - 110	P	02/26/2014	16:03	LB69952
	Barium	10401	10000	104	90 - 110	P	02/26/2014	16:03	LB69952
	Beryllium	265.24	250	106.1	90 - 110	P	02/26/2014	16:03	LB69952
	Cadmium	2638	2500	105.5	90 - 110	P	02/26/2014	16:03	LB69952
	Calcium	26221	25000	104.9	90 - 110	P	02/26/2014	16:03	LB69952
	Chromium	1067.4	1000	106.7	90 - 110	P	02/26/2014	16:03	LB69952
	Cobalt	2616.6	2500	104.7	90 - 110	P	02/26/2014	16:03	LB69952
	Copper	1311.1	1250	104.9	90 - 110	P	02/26/2014	16:03	LB69952
	Iron	5297.1	5000	105.9	90 - 110	P	02/26/2014	16:03	LB69952
	Lead	5269.9	5000	105.4	90 - 110	P	02/26/2014	16:03	LB69952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	25614	25000	102.5	90 - 110	P	02/26/2014	16:03	LB69952
	Manganese	2665.4	2500	106.6	90 - 110	P	02/26/2014	16:03	LB69952
	Nickel	2649.6	2500	106	90 - 110	P	02/26/2014	16:03	LB69952
	Potassium	25622	25000	102.5	90 - 110	P	02/26/2014	16:03	LB69952
	Selenium	5377.9	5000	107.6	90 - 110	P	02/26/2014	16:03	LB69952
	Silver	1309.4	1250	104.8	90 - 110	P	02/26/2014	16:03	LB69952
	Sodium	25744	25000	103	90 - 110	P	02/26/2014	16:03	LB69952
	Thallium	5317	5000	106.3	90 - 110	P	02/26/2014	16:03	LB69952
	Vanadium	2593.4	2500	103.7	90 - 110	P	02/26/2014	16:03	LB69952
	Zinc	2500.6	2500	100	90 - 110	P	02/26/2014	16:03	LB69952
CCV04	Aluminum	9983.3	10000	99.8	90 - 110	P	02/26/2014	17:22	LB69952
	Antimony	5070.6	5000	101.4	90 - 110	P	02/26/2014	17:22	LB69952
	Arsenic	4862.2	5000	97.2	90 - 110	P	02/26/2014	17:22	LB69952
	Barium	10077	10000	100.8	90 - 110	P	02/26/2014	17:22	LB69952
	Beryllium	257.65	250	103.1	90 - 110	P	02/26/2014	17:22	LB69952
	Cadmium	2528.7	2500	101.1	90 - 110	P	02/26/2014	17:22	LB69952
	Calcium	25343	25000	101.4	90 - 110	P	02/26/2014	17:22	LB69952
	Chromium	1024.5	1000	102.5	90 - 110	P	02/26/2014	17:22	LB69952
	Cobalt	2514.8	2500	100.6	90 - 110	P	02/26/2014	17:22	LB69952
	Copper	1265	1250	101.2	90 - 110	P	02/26/2014	17:22	LB69952
	Iron	4938.3	5000	98.8	90 - 110	P	02/26/2014	17:22	LB69952
	Lead	5059.3	5000	101.2	90 - 110	P	02/26/2014	17:22	LB69952
	Magnesium	25205	25000	100.8	90 - 110	P	02/26/2014	17:22	LB69952
	Manganese	2568.4	2500	102.7	90 - 110	P	02/26/2014	17:22	LB69952
	Nickel	2530.7	2500	101.2	90 - 110	P	02/26/2014	17:22	LB69952
	Potassium	24899	25000	99.6	90 - 110	P	02/26/2014	17:22	LB69952
	Selenium	4961.9	5000	99.2	90 - 110	P	02/26/2014	17:22	LB69952
	Silver	1267.2	1250	101.4	90 - 110	P	02/26/2014	17:22	LB69952
	Sodium	25225	25000	100.9	90 - 110	P	02/26/2014	17:22	LB69952
	Thallium	5118.1	5000	102.4	90 - 110	P	02/26/2014	17:22	LB69952
	Vanadium	2517.3	2500	100.7	90 - 110	P	02/26/2014	17:22	LB69952
	Zinc	2488	2500	99.5	90 - 110	P	02/26/2014	17:22	LB69952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2362.3	2521	93.7	90 - 110	P	02/28/2014	11:59	LB69974
	Antimony	1087	994	109.4	90 - 110	P	02/28/2014	11:59	LB69974
	Arsenic	1021.9	999	102.3	90 - 110	P	02/28/2014	11:59	LB69974
	Barium	496.78	503	98.8	90 - 110	P	02/28/2014	11:59	LB69974
	Beryllium	504.18	495	101.9	90 - 110	P	02/28/2014	11:59	LB69974
	Cadmium	532.06	496	107.3	90 - 110	P	02/28/2014	11:59	LB69974
	Calcium	10106	10026	100.8	90 - 110	P	02/28/2014	11:59	LB69974
	Chromium	474.4	490	96.8	90 - 110	P	02/28/2014	11:59	LB69974
	Cobalt	510.78	499	102.4	90 - 110	P	02/28/2014	11:59	LB69974
	Copper	525.66	492	106.8	90 - 110	P	02/28/2014	11:59	LB69974
	Iron	4943.7	5082	97.3	90 - 110	P	02/28/2014	11:59	LB69974
	Lead	1065	1002	106.3	90 - 110	P	02/28/2014	11:59	LB69974
	Magnesium	6094.4	6074	100.3	90 - 110	P	02/28/2014	11:59	LB69974
	Manganese	483.96	499	97	90 - 110	P	02/28/2014	11:59	LB69974
	Nickel	522.68	503	103.9	90 - 110	P	02/28/2014	11:59	LB69974
	Potassium	9975.8	10021	99.5	90 - 110	P	02/28/2014	11:59	LB69974
	Selenium	1102.7	1029	107.2	90 - 110	P	02/28/2014	11:59	LB69974
	Silver	515.47	501	102.9	90 - 110	P	02/28/2014	11:59	LB69974
	Sodium	9865.2	10097	97.7	90 - 110	P	02/28/2014	11:59	LB69974
	Thallium	1089.6	1028	106	90 - 110	P	02/28/2014	11:59	LB69974
	Vanadium	478.04	501	95.4	90 - 110	P	02/28/2014	11:59	LB69974
	Zinc	989.32	1025	96.5	90 - 110	P	02/28/2014	11:59	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	88.42	100	88.4	70 - 130	P	02/28/2014	12:02	LB69974
	Antimony	53.63	50	107.3	70 - 130	P	02/28/2014	12:02	LB69974
	Arsenic	20.71	20	103.6	70 - 130	P	02/28/2014	12:02	LB69974
	Barium	99.36	100	99.4	70 - 130	P	02/28/2014	12:02	LB69974
	Beryllium	6.16	6	102.7	70 - 130	P	02/28/2014	12:02	LB69974
	Cadmium	6.64	6	110.7	70 - 130	P	02/28/2014	12:02	LB69974
	Calcium	2036	2000	101.8	70 - 130	P	02/28/2014	12:02	LB69974
	Chromium	9.22	10	92.2	70 - 130	P	02/28/2014	12:02	LB69974
	Cobalt	30.64	30	102.1	70 - 130	P	02/28/2014	12:02	LB69974
	Copper	21.35	20	106.8	70 - 130	P	02/28/2014	12:02	LB69974
	Iron	103.98	100	104	70 - 130	P	02/28/2014	12:02	LB69974
	Lead	12.49	12	104.1	70 - 130	P	02/28/2014	12:02	LB69974
	Magnesium	2036.5	2000	101.8	70 - 130	P	02/28/2014	12:02	LB69974
	Manganese	19.95	20	99.8	70 - 130	P	02/28/2014	12:02	LB69974
	Nickel	40.37	40	100.9	70 - 130	P	02/28/2014	12:02	LB69974
	Potassium	1997.5	2000	99.9	70 - 130	P	02/28/2014	12:02	LB69974
	Selenium	20.43	20	102.2	70 - 130	P	02/28/2014	12:02	LB69974
	Silver	10.28	10	102.8	70 - 130	P	02/28/2014	12:02	LB69974
	Sodium	1986.3	2000	99.3	70 - 130	P	02/28/2014	12:02	LB69974
	Thallium	42.4	40	106	70 - 130	P	02/28/2014	12:02	LB69974
	Vanadium	36.66	40	91.7	70 - 130	P	02/28/2014	12:02	LB69974
	Zinc	38.58	40	96.5	70 - 130	P	02/28/2014	12:02	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9908.3	10000	99.1	90 - 110	P	02/28/2014	12:28	LB69974
	Antimony	5204.8	5000	104.1	90 - 110	P	02/28/2014	12:28	LB69974
	Arsenic	5062.3	5000	101.2	90 - 110	P	02/28/2014	12:28	LB69974
	Barium	10234	10000	102.3	90 - 110	P	02/28/2014	12:28	LB69974
	Beryllium	251.93	250	100.8	90 - 110	P	02/28/2014	12:28	LB69974
	Cadmium	2574.3	2500	103	90 - 110	P	02/28/2014	12:28	LB69974
	Calcium	25040	25000	100.2	90 - 110	P	02/28/2014	12:28	LB69974
	Chromium	988.43	1000	98.8	90 - 110	P	02/28/2014	12:28	LB69974
	Cobalt	2570.4	2500	102.8	90 - 110	P	02/28/2014	12:28	LB69974
	Copper	1303	1250	104.2	90 - 110	P	02/28/2014	12:28	LB69974
	Iron	5002	5000	100	90 - 110	P	02/28/2014	12:28	LB69974
	Lead	5188.4	5000	103.8	90 - 110	P	02/28/2014	12:28	LB69974
	Magnesium	24894	25000	99.6	90 - 110	P	02/28/2014	12:28	LB69974
	Manganese	2495.5	2500	99.8	90 - 110	P	02/28/2014	12:28	LB69974
	Nickel	2587.6	2500	103.5	90 - 110	P	02/28/2014	12:28	LB69974
	Potassium	25284	25000	101.1	90 - 110	P	02/28/2014	12:28	LB69974
	Selenium	5030.7	5000	100.6	90 - 110	P	02/28/2014	12:28	LB69974
	Silver	1241.2	1250	99.3	90 - 110	P	02/28/2014	12:28	LB69974
	Sodium	25129	25000	100.5	90 - 110	P	02/28/2014	12:28	LB69974
	Thallium	5215.3	5000	104.3	90 - 110	P	02/28/2014	12:28	LB69974
	Vanadium	2474	2500	99	90 - 110	P	02/28/2014	12:28	LB69974
	Zinc	2490.8	2500	99.6	90 - 110	P	02/28/2014	12:28	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	104.51	100	104.5	70 - 130	P	02/28/2014	12:33	LB69974
	Antimony	53.15	50	106.3	70 - 130	P	02/28/2014	12:33	LB69974
	Arsenic	19.48	20	97.4	70 - 130	P	02/28/2014	12:33	LB69974
	Barium	99.31	100	99.3	70 - 130	P	02/28/2014	12:33	LB69974
	Beryllium	6.17	6	102.8	70 - 130	P	02/28/2014	12:33	LB69974
	Cadmium	6.51	6	108.5	70 - 130	P	02/28/2014	12:33	LB69974
	Calcium	2017.1	2000	100.9	70 - 130	P	02/28/2014	12:33	LB69974
	Chromium	9.26	10	92.6	70 - 130	P	02/28/2014	12:33	LB69974
	Cobalt	30.07	30	100.2	70 - 130	P	02/28/2014	12:33	LB69974
	Copper	20.65	20	103.3	70 - 130	P	02/28/2014	12:33	LB69974
	Iron	107.68	100	107.7	70 - 130	P	02/28/2014	12:33	LB69974
	Lead	13.16	12	109.7	70 - 130	P	02/28/2014	12:33	LB69974
	Magnesium	2018.9	2000	100.9	70 - 130	P	02/28/2014	12:33	LB69974
	Manganese	19.63	20	98.2	70 - 130	P	02/28/2014	12:33	LB69974
	Nickel	40.68	40	101.7	70 - 130	P	02/28/2014	12:33	LB69974
	Potassium	2011.4	2000	100.6	70 - 130	P	02/28/2014	12:33	LB69974
	Selenium	21.59	20	108	70 - 130	P	02/28/2014	12:33	LB69974
	Silver	9.65	10	96.5	70 - 130	P	02/28/2014	12:33	LB69974
	Sodium	1986.4	2000	99.3	70 - 130	P	02/28/2014	12:33	LB69974
	Thallium	41.64	40	104.1	70 - 130	P	02/28/2014	12:33	LB69974
	Vanadium	35.16	40	87.9	70 - 130	P	02/28/2014	12:33	LB69974
	Zinc	37.05	40	92.6	70 - 130	P	02/28/2014	12:33	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9737.4	10000	97.4	90 - 110	P	02/28/2014	13:42	LB69974
	Antimony	5201.2	5000	104	90 - 110	P	02/28/2014	13:42	LB69974
	Arsenic	5021.7	5000	100.4	90 - 110	P	02/28/2014	13:42	LB69974
	Barium	10107	10000	101.1	90 - 110	P	02/28/2014	13:42	LB69974
	Beryllium	248.22	250	99.3	90 - 110	P	02/28/2014	13:42	LB69974
	Cadmium	2558.5	2500	102.3	90 - 110	P	02/28/2014	13:42	LB69974
	Calcium	24460	25000	97.8	90 - 110	P	02/28/2014	13:42	LB69974
	Chromium	969.23	1000	96.9	90 - 110	P	02/28/2014	13:42	LB69974
	Cobalt	2556.4	2500	102.3	90 - 110	P	02/28/2014	13:42	LB69974
	Copper	1293.9	1250	103.5	90 - 110	P	02/28/2014	13:42	LB69974
	Iron	4885.4	5000	97.7	90 - 110	P	02/28/2014	13:42	LB69974
	Lead	5159.2	5000	103.2	90 - 110	P	02/28/2014	13:42	LB69974
	Magnesium	24437	25000	97.7	90 - 110	P	02/28/2014	13:42	LB69974
	Manganese	2460.8	2500	98.4	90 - 110	P	02/28/2014	13:42	LB69974
	Nickel	2563.3	2500	102.5	90 - 110	P	02/28/2014	13:42	LB69974
	Potassium	24931	25000	99.7	90 - 110	P	02/28/2014	13:42	LB69974
	Selenium	4990.1	5000	99.8	90 - 110	P	02/28/2014	13:42	LB69974
	Silver	1219.1	1250	97.5	90 - 110	P	02/28/2014	13:42	LB69974
	Sodium	24631	25000	98.5	90 - 110	P	02/28/2014	13:42	LB69974
	Thallium	5176.1	5000	103.5	90 - 110	P	02/28/2014	13:42	LB69974
	Vanadium	2440.9	2500	97.6	90 - 110	P	02/28/2014	13:42	LB69974
	Zinc	2455.1	2500	98.2	90 - 110	P	02/28/2014	13:42	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV02	Aluminum	94.85	100	94.9	70 - 130	P	02/28/2014	13:47	LB69974
	Antimony	54.73	50	109.5	70 - 130	P	02/28/2014	13:47	LB69974
	Arsenic	19.8	20	99	70 - 130	P	02/28/2014	13:47	LB69974
	Barium	97.68	100	97.7	70 - 130	P	02/28/2014	13:47	LB69974
	Beryllium	6.21	6	103.5	70 - 130	P	02/28/2014	13:47	LB69974
	Cadmium	6.53	6	108.8	70 - 130	P	02/28/2014	13:47	LB69974
	Calcium	1973.7	2000	98.7	70 - 130	P	02/28/2014	13:47	LB69974
	Chromium	8.86	10	88.6	70 - 130	P	02/28/2014	13:47	LB69974
	Cobalt	29.86	30	99.5	70 - 130	P	02/28/2014	13:47	LB69974
	Copper	21.4	20	107	70 - 130	P	02/28/2014	13:47	LB69974
	Iron	111.02	100	111	70 - 130	P	02/28/2014	13:47	LB69974
	Lead	14.05	12	117.1	70 - 130	P	02/28/2014	13:47	LB69974
	Magnesium	1987.9	2000	99.4	70 - 130	P	02/28/2014	13:47	LB69974
	Manganese	20.02	20	100.1	70 - 130	P	02/28/2014	13:47	LB69974
	Nickel	40.29	40	100.7	70 - 130	P	02/28/2014	13:47	LB69974
	Potassium	2017.1	2000	100.9	70 - 130	P	02/28/2014	13:47	LB69974
	Selenium	18.92	20	94.6	70 - 130	P	02/28/2014	13:47	LB69974
	Silver	9.77	10	97.7	70 - 130	P	02/28/2014	13:47	LB69974
	Sodium	1965.6	2000	98.3	70 - 130	P	02/28/2014	13:47	LB69974
	Thallium	42.13	40	105.3	70 - 130	P	02/28/2014	13:47	LB69974
	Vanadium	36.73	40	91.8	70 - 130	P	02/28/2014	13:47	LB69974
	Zinc	36.83	40	92.1	70 - 130	P	02/28/2014	13:47	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Aluminum	9470.6	10000	94.7	90 - 110	P	02/28/2014	14:46	LB69974
	Antimony	5144.9	5000	102.9	90 - 110	P	02/28/2014	14:46	LB69974
	Arsenic	4997.7	5000	100	90 - 110	P	02/28/2014	14:46	LB69974
	Barium	10046	10000	100.5	90 - 110	P	02/28/2014	14:46	LB69974
	Beryllium	241.11	250	96.4	90 - 110	P	02/28/2014	14:46	LB69974
	Cadmium	2554	2500	102.2	90 - 110	P	02/28/2014	14:46	LB69974
	Calcium	24763	25000	99.1	90 - 110	P	02/28/2014	14:46	LB69974
	Chromium	957.01	1000	95.7	90 - 110	P	02/28/2014	14:46	LB69974
	Cobalt	2532.5	2500	101.3	90 - 110	P	02/28/2014	14:46	LB69974
	Copper	1271.9	1250	101.8	90 - 110	P	02/28/2014	14:46	LB69974
	Iron	5034.6	5000	100.7	90 - 110	P	02/28/2014	14:46	LB69974
	Lead	5120.6	5000	102.4	90 - 110	P	02/28/2014	14:46	LB69974
	Magnesium	24911	25000	99.6	90 - 110	P	02/28/2014	14:46	LB69974
	Manganese	2405.8	2500	96.2	90 - 110	P	02/28/2014	14:46	LB69974
	Nickel	2532.9	2500	101.3	90 - 110	P	02/28/2014	14:46	LB69974
	Potassium	24824	25000	99.3	90 - 110	P	02/28/2014	14:46	LB69974
	Selenium	4952.3	5000	99	90 - 110	P	02/28/2014	14:46	LB69974
	Silver	1201.2	1250	96.1	90 - 110	P	02/28/2014	14:46	LB69974
	Sodium	24831	25000	99.3	90 - 110	P	02/28/2014	14:46	LB69974
	Thallium	5118.1	5000	102.4	90 - 110	P	02/28/2014	14:46	LB69974
	Vanadium	2362.6	2500	94.5	90 - 110	P	02/28/2014	14:46	LB69974
	Zinc	2509.1	2500	100.4	90 - 110	P	02/28/2014	14:46	LB69974
CCV04	Aluminum	9489.6	10000	94.9	90 - 110	P	02/28/2014	15:25	LB69974
	Antimony	5069.6	5000	101.4	90 - 110	P	02/28/2014	15:25	LB69974
	Arsenic	4886.8	5000	97.7	90 - 110	P	02/28/2014	15:25	LB69974
	Barium	9945.1	10000	99.5	90 - 110	P	02/28/2014	15:25	LB69974
	Beryllium	245.88	250	98.4	90 - 110	P	02/28/2014	15:25	LB69974
	Cadmium	2489.3	2500	99.6	90 - 110	P	02/28/2014	15:25	LB69974
	Calcium	23975	25000	95.9	90 - 110	P	02/28/2014	15:25	LB69974
	Chromium	952.24	1000	95.2	90 - 110	P	02/28/2014	15:25	LB69974
	Cobalt	2484.3	2500	99.4	90 - 110	P	02/28/2014	15:25	LB69974
	Copper	1264.8	1250	101.2	90 - 110	P	02/28/2014	15:25	LB69974
	Iron	4815.2	5000	96.3	90 - 110	P	02/28/2014	15:25	LB69974
	Lead	5033	5000	100.7	90 - 110	P	02/28/2014	15:25	LB69974

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Magnesium	23815	25000	95.3	90 - 110	P	02/28/2014	15:25	LB69974
	Manganese	2432.3	2500	97.3	90 - 110	P	02/28/2014	15:25	LB69974
	Nickel	2500.7	2500	100	90 - 110	P	02/28/2014	15:25	LB69974
	Potassium	24585	25000	98.3	90 - 110	P	02/28/2014	15:25	LB69974
	Selenium	4864.2	5000	97.3	90 - 110	P	02/28/2014	15:25	LB69974
	Silver	1199.9	1250	96	90 - 110	P	02/28/2014	15:25	LB69974
	Sodium	24225	25000	96.9	90 - 110	P	02/28/2014	15:25	LB69974
	Thallium	5050.8	5000	101	90 - 110	P	02/28/2014	15:25	LB69974
	Vanadium	2413	2500	96.5	90 - 110	P	02/28/2014	15:25	LB69974
	Zinc	2430.3	2500	97.2	90 - 110	P	02/28/2014	15:25	LB69974

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Metals

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CRDL STANDARD FOR AA & ICP

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	103	100	103	40 - 160	P	02/25/2014	12:22	LB69931
	Antimony	54.02	50	108	40 - 160	P	02/25/2014	12:22	LB69931
	Arsenic	22.68	20	113.4	40 - 160	P	02/25/2014	12:22	LB69931
	Barium	99.03	100	99	40 - 160	P	02/25/2014	12:22	LB69931
	Beryllium	6.34	6	105.7	40 - 160	P	02/25/2014	12:22	LB69931
	Cadmium	6.59	6	109.8	40 - 160	P	02/25/2014	12:22	LB69931
	Calcium	2041.2	2000	102.1	40 - 160	P	02/25/2014	12:22	LB69931
	Chromium	10.56	10	105.6	40 - 160	P	02/25/2014	12:22	LB69931
	Cobalt	29.75	30	99.2	40 - 160	P	02/25/2014	12:22	LB69931
	Copper	20.86	20	104.3	40 - 160	P	02/25/2014	12:22	LB69931
	Iron	106.59	100	106.6	40 - 160	P	02/25/2014	12:22	LB69931
	Lead	13.82	12	115.2	40 - 160	P	02/25/2014	12:22	LB69931
	Magnesium	2061.4	2000	103.1	40 - 160	P	02/25/2014	12:22	LB69931
	Manganese	20.73	20	103.7	40 - 160	P	02/25/2014	12:22	LB69931
	Nickel	41.16	40	102.9	40 - 160	P	02/25/2014	12:22	LB69931
	Potassium	1957.2	2000	97.9	40 - 160	P	02/25/2014	12:22	LB69931
	Selenium	17.16	20	85.8	40 - 160	P	02/25/2014	12:22	LB69931
	Silver	10.18	10	101.8	40 - 160	P	02/25/2014	12:22	LB69931
	Sodium	1948.9	2000	97.4	40 - 160	P	02/25/2014	12:22	LB69931
	Thallium	40.19	40	100.5	40 - 160	P	02/25/2014	12:22	LB69931
	Vanadium	38.37	40	95.9	40 - 160	P	02/25/2014	12:22	LB69931
	Zinc	43.52	40	108.8	40 - 160	P	02/25/2014	12:22	LB69931
CRI01	Aluminum	72.39	100	72.4	40 - 160	P	02/26/2014	12:00	LB69952
	Antimony	51.53	50	103.1	40 - 160	P	02/26/2014	12:00	LB69952
	Arsenic	22.41	20	112.1	40 - 160	P	02/26/2014	12:00	LB69952
	Barium	90.94	100	90.9	40 - 160	P	02/26/2014	12:00	LB69952
	Beryllium	5.87	6	97.8	40 - 160	P	02/26/2014	12:00	LB69952
	Cadmium	6.12	6	102	40 - 160	P	02/26/2014	12:00	LB69952
	Calcium	1919.9	2000	96	40 - 160	P	02/26/2014	12:00	LB69952
	Chromium	8.88	10	88.8	40 - 160	P	02/26/2014	12:00	LB69952
	Cobalt	28.58	30	95.3	40 - 160	P	02/26/2014	12:00	LB69952
	Copper	20.58	20	102.9	40 - 160	P	02/26/2014	12:00	LB69952
	Iron	76.08	100	76.1	40 - 160	P	02/26/2014	12:00	LB69952
	Lead	12	12	100	40 - 160	P	02/26/2014	12:00	LB69952
	Magnesium	1931.5	2000	96.6	40 - 160	P	02/26/2014	12:00	LB69952

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Metals

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CRDL STANDARD FOR AA & ICP

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Manganese	19.09	20	95.5	40 - 160	P	02/26/2014	12:00	LB69952
	Nickel	38.36	40	95.9	40 - 160	P	02/26/2014	12:00	LB69952
	Potassium	1856.3	2000	92.8	40 - 160	P	02/26/2014	12:00	LB69952
	Selenium	19.64	20	98.2	40 - 160	P	02/26/2014	12:00	LB69952
	Silver	9.03	10	90.3	40 - 160	P	02/26/2014	12:00	LB69952
	Sodium	1905.7	2000	95.3	40 - 160	P	02/26/2014	12:00	LB69952
	Thallium	36.32	40	90.8	40 - 160	P	02/26/2014	12:00	LB69952
	Vanadium	35.59	40	89	40 - 160	P	02/26/2014	12:00	LB69952
	Zinc	39.2	40	98	40 - 160	P	02/26/2014	12:00	LB69952
CRA	Mercury	0.2483	0.2	124.2	40 - 160	CV	02/26/2014	12:13	LB69940
CRA	Mercury	0.2125	0.2	106.3	40 - 160	CV	02/26/2014	14:32	LB69944
CRI01	Aluminum	90.06	100	90.1	40 - 160	P	02/28/2014	12:13	LB69974
	Antimony	52.66	50	105.3	40 - 160	P	02/28/2014	12:13	LB69974
	Arsenic	20.36	20	101.8	40 - 160	P	02/28/2014	12:13	LB69974
	Barium	97.98	100	98	40 - 160	P	02/28/2014	12:13	LB69974
	Beryllium	5.95	6	99.2	40 - 160	P	02/28/2014	12:13	LB69974
	Cadmium	6.53	6	108.8	40 - 160	P	02/28/2014	12:13	LB69974
	Calcium	2020	2000	101	40 - 160	P	02/28/2014	12:13	LB69974
	Chromium	8.73	10	87.3	40 - 160	P	02/28/2014	12:13	LB69974
	Cobalt	30.01	30	100	40 - 160	P	02/28/2014	12:13	LB69974
	Copper	21.1	20	105.5	40 - 160	P	02/28/2014	12:13	LB69974
	Iron	97.9	100	97.9	40 - 160	P	02/28/2014	12:13	LB69974
	Lead	13.33	12	111.1	40 - 160	P	02/28/2014	12:13	LB69974
	Magnesium	2036.5	2000	101.8	40 - 160	P	02/28/2014	12:13	LB69974
	Manganese	19.38	20	96.9	40 - 160	P	02/28/2014	12:13	LB69974
	Nickel	41.02	40	102.6	40 - 160	P	02/28/2014	12:13	LB69974
	Potassium	1985.7	2000	99.3	40 - 160	P	02/28/2014	12:13	LB69974
	Selenium	22.78	20	113.9	40 - 160	P	02/28/2014	12:13	LB69974
	Silver	10.23	10	102.3	40 - 160	P	02/28/2014	12:13	LB69974
	Sodium	1984.9	2000	99.2	40 - 160	P	02/28/2014	12:13	LB69974
	Thallium	43.77	40	109.4	40 - 160	P	02/28/2014	12:13	LB69974
	Vanadium	35.45	40	88.6	40 - 160	P	02/28/2014	12:13	LB69974
	Zinc	35.8	40	89.5	40 - 160	P	02/28/2014	12:13	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB44	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	12:07	LB69940

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB33	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	12:11	LB69940
CCB34	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	12:37	LB69940
CCB35	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	13:02	LB69940
CCB36	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	13:17	LB69940

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB45	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	14:26	LB69944

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB37	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	14:30	LB69944
CCB38	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	14:56	LB69944
CCB39	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	15:21	LB69944
CCB40	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	15:47	LB69944
CCB41	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	16:12	LB69944
CCB42	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	16:38	LB69944
CCB43	Mercury	0.2	+/-0.2	U	0.1	0.2	CV	02/26/2014	17:01	LB69944

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	12:15	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	12:15	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:15	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	12:15	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	12:15	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	12:15	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:15	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	12:15	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	12:15	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:15	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	12:15	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	12:15	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:15	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:15	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:15	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:15	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:15	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	12:15	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:15	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:15	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:15	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:15	LB69931

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	12:49	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	12:49	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:49	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	12:49	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	12:49	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	12:49	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:49	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	12:49	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	12:49	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:49	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	12:49	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	12:49	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:49	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:49	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:49	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:49	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	12:49	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	12:49	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	12:49	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:49	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:49	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	12:49	LB69931
CCB02	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	13:45	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	13:45	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	13:45	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	13:45	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	13:45	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	13:45	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	13:45	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	13:45	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	13:45	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	13:45	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	13:45	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	13:45	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	13:45	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	13:45	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	13:45	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	13:45	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	13:45	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	13:45	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	13:45	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	13:45	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	13:45	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	13:45	LB69931
CCB03	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	14:48	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	14:48	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	14:48	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	14:48	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	14:48	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	14:48	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	14:48	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	14:48	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	14:48	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	14:48	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	14:48	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	14:48	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	14:48	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	14:48	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	14:48	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	14:48	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	14:48	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	14:48	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	14:48	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	14:48	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	14:48	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	14:48	LB69931
CCB04	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	15:44	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	15:44	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	15:44	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	15:44	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	15:44	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	15:44	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	15:44	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	15:44	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	15:44	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	15:44	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	15:44	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	15:44	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	15:44	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	15:44	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	15:44	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	15:44	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	15:44	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	15:44	LB69931
	Sodium	32.33	+/-2000	J	1000	2000	P	02/25/2014	15:44	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	15:44	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	15:44	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	15:44	LB69931
CCB05	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	16:46	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	16:46	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	16:46	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	16:46	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	16:46	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	16:46	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	16:46	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	16:46	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	16:46	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	16:46	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	16:46	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	16:46	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	16:46	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	16:46	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	16:46	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	16:46	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	16:46	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	16:46	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	16:46	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	16:46	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	16:46	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	16:46	LB69931
CCB06	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	17:58	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	17:58	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	17:58	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	17:58	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	17:58	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	17:58	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	17:58	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	17:58	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	17:58	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	17:58	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	50.0	100	P	02/25/2014	17:58	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	17:58	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	17:58	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	17:58	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	17:58	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	17:58	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	17:58	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	17:58	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	17:58	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	17:58	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	17:58	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	17:58	LB69931
CCB07	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	18:56	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	18:56	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	18:56	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	18:56	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	18:56	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	18:56	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	18:56	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	18:56	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	18:56	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	18:56	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	18:56	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	18:56	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	18:56	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	18:56	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	18:56	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	18:56	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	18:56	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	18:56	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	18:56	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	18:56	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	18:56	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	18:56	LB69931
CCB08	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	20:01	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	20:01	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	20:01	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	20:01	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	20:01	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	20:01	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	20:01	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	20:01	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	20:01	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	20:01	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	20:01	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	20:01	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	20:01	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	20:01	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	20:01	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	20:01	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	20:01	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	20:01	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	20:01	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	20:01	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	20:01	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	20:01	LB69931
CCB09	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	21:00	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	21:00	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	21:00	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	21:00	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	21:00	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	21:00	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	21:00	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	21:00	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	21:00	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	21:00	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	21:00	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	21:00	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	21:00	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	21:00	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	21:00	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	21:00	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	21:00	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	21:00	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	21:00	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	21:00	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	21:00	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	21:00	LB69931
CCB10	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	22:01	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	22:01	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	22:01	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	22:01	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	22:01	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	22:01	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	22:01	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	22:01	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	22:01	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	22:01	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	22:01	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	22:01	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	22:01	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	22:01	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	22:01	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	22:01	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	22:01	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	22:01	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	22:01	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	22:01	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	22:01	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	22:01	LB69931
CCB11	Aluminum	100	+/-100	U	50.0	100	P	02/25/2014	23:03	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/25/2014	23:03	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	23:03	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/25/2014	23:03	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	23:03	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/25/2014	23:03	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/25/2014	23:03	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	23:03	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/25/2014	23:03	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	23:03	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/25/2014	23:03	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/25/2014	23:03	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/25/2014	23:03	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	23:03	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	23:03	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/25/2014	23:03	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/25/2014	23:03	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/25/2014	23:03	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/25/2014	23:03	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	23:03	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	23:03	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/25/2014	23:03	LB69931
CCB12	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	00:05	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	00:05	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:05	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	00:05	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	00:05	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	00:05	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:05	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	00:05	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	00:05	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:05	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	00:05	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	00:05	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:05	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:05	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:05	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:05	LB69931
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:05	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	00:05	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:05	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:05	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:05	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:05	LB69931
CCB13	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	00:37	LB69931
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	00:37	LB69931
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:37	LB69931
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	00:37	LB69931
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	00:37	LB69931
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	00:37	LB69931
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:37	LB69931
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	00:37	LB69931
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	00:37	LB69931
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:37	LB69931
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	00:37	LB69931
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	00:37	LB69931
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:37	LB69931
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:37	LB69931
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:37	LB69931
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:37	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB13	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	00:37	LB69931
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	00:37	LB69931
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	00:37	LB69931
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:37	LB69931
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:37	LB69931
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	00:37	LB69931

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	11:54	LB69952
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	11:54	LB69952
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	11:54	LB69952
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	11:54	LB69952
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	11:54	LB69952
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	11:54	LB69952
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	11:54	LB69952
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	11:54	LB69952
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	11:54	LB69952
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	11:54	LB69952
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	11:54	LB69952
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	11:54	LB69952
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	11:54	LB69952
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	11:54	LB69952
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	11:54	LB69952
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	11:54	LB69952
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	11:54	LB69952
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	11:54	LB69952
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	11:54	LB69952
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	11:54	LB69952
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	11:54	LB69952
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	11:54	LB69952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	12:43	LB69952
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	12:43	LB69952
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	12:43	LB69952
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	12:43	LB69952
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	12:43	LB69952
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	12:43	LB69952
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	12:43	LB69952
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	12:43	LB69952
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	12:43	LB69952
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	12:43	LB69952
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	12:43	LB69952
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	12:43	LB69952
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	12:43	LB69952
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	12:43	LB69952
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	12:43	LB69952
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	12:43	LB69952
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	12:43	LB69952
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	12:43	LB69952
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	12:43	LB69952
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	12:43	LB69952
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	12:43	LB69952
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	12:43	LB69952
CCB02	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	14:15	LB69952
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	14:15	LB69952
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	14:15	LB69952
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	14:15	LB69952
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	14:15	LB69952
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	14:15	LB69952
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	14:15	LB69952
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	14:15	LB69952
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	14:15	LB69952
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	14:15	LB69952
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	14:15	LB69952
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	14:15	LB69952
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	14:15	LB69952
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	14:15	LB69952
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	14:15	LB69952
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	14:15	LB69952
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	14:15	LB69952
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	14:15	LB69952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	14:15	LB69952
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	14:15	LB69952
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	14:15	LB69952
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	14:15	LB69952
CCB03	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	16:10	LB69952
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	16:10	LB69952
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	16:10	LB69952
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	16:10	LB69952
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	16:10	LB69952
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	16:10	LB69952
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	16:10	LB69952
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	16:10	LB69952
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	16:10	LB69952
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	16:10	LB69952
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	16:10	LB69952
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	16:10	LB69952
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	16:10	LB69952
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	16:10	LB69952
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	16:10	LB69952
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	16:10	LB69952
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	16:10	LB69952
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	16:10	LB69952
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	16:10	LB69952
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	16:10	LB69952
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	16:10	LB69952
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	16:10	LB69952
CCB04	Aluminum	100	+/-100	U	50.0	100	P	02/26/2014	17:28	LB69952
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/26/2014	17:28	LB69952
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	17:28	LB69952
	Barium	100	+/-100	U	50.0	100	P	02/26/2014	17:28	LB69952
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	17:28	LB69952
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/26/2014	17:28	LB69952
	Calcium	2000	+/-2000	U	1000	2000	P	02/26/2014	17:28	LB69952
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	17:28	LB69952
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/26/2014	17:28	LB69952
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	17:28	LB69952
	Iron	100	+/-100	U	50.0	100	P	02/26/2014	17:28	LB69952
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/26/2014	17:28	LB69952
	Magnesium	2000	+/-2000	U	1000	2000	P	02/26/2014	17:28	LB69952
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	17:28	LB69952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	17:28	LB69952
	Potassium	2000	+/-2000	U	1000	2000	P	02/26/2014	17:28	LB69952
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/26/2014	17:28	LB69952
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/26/2014	17:28	LB69952
	Sodium	2000	+/-2000	U	1000	2000	P	02/26/2014	17:28	LB69952
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	17:28	LB69952
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	17:28	LB69952
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/26/2014	17:28	LB69952

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	50.0	100	P	02/28/2014	12:08	LB69974
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/28/2014	12:08	LB69974
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:08	LB69974
	Barium	100	+/-100	U	50.0	100	P	02/28/2014	12:08	LB69974
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	12:08	LB69974
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	12:08	LB69974
	Calcium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:08	LB69974
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	12:08	LB69974
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/28/2014	12:08	LB69974
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:08	LB69974
	Iron	100	+/-100	U	50.0	100	P	02/28/2014	12:08	LB69974
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/28/2014	12:08	LB69974
	Magnesium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:08	LB69974
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:08	LB69974
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:08	LB69974
	Potassium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:08	LB69974
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:08	LB69974
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	12:08	LB69974
	Sodium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:08	LB69974
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:08	LB69974
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:08	LB69974
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:08	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	50.0	100	P	02/28/2014	12:38	LB69974
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/28/2014	12:38	LB69974
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:38	LB69974
	Barium	100	+/-100	U	50.0	100	P	02/28/2014	12:38	LB69974
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	12:38	LB69974
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	12:38	LB69974
	Calcium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:38	LB69974
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	12:38	LB69974
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/28/2014	12:38	LB69974
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:38	LB69974
	Iron	100	+/-100	U	50.0	100	P	02/28/2014	12:38	LB69974
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/28/2014	12:38	LB69974
	Magnesium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:38	LB69974
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:38	LB69974
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:38	LB69974
	Potassium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:38	LB69974
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	12:38	LB69974
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	12:38	LB69974
	Sodium	2000	+/-2000	U	1000	2000	P	02/28/2014	12:38	LB69974
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:38	LB69974
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:38	LB69974
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	12:38	LB69974
CCB02	Aluminum	100	+/-100	U	50.0	100	P	02/28/2014	13:52	LB69974
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/28/2014	13:52	LB69974
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	13:52	LB69974
	Barium	100	+/-100	U	50.0	100	P	02/28/2014	13:52	LB69974
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	13:52	LB69974
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	13:52	LB69974
	Calcium	2000	+/-2000	U	1000	2000	P	02/28/2014	13:52	LB69974
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	13:52	LB69974
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/28/2014	13:52	LB69974
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	13:52	LB69974
	Iron	100	+/-100	U	50.0	100	P	02/28/2014	13:52	LB69974
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/28/2014	13:52	LB69974
	Magnesium	2000	+/-2000	U	1000	2000	P	02/28/2014	13:52	LB69974
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	13:52	LB69974
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	13:52	LB69974
	Potassium	2000	+/-2000	U	1000	2000	P	02/28/2014	13:52	LB69974
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	13:52	LB69974
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	13:52	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	1000	2000	P	02/28/2014	13:52	LB69974
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	13:52	LB69974
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	13:52	LB69974
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	13:52	LB69974
CCB03	Aluminum	100	+/-100	U	50.0	100	P	02/28/2014	14:51	LB69974
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/28/2014	14:51	LB69974
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	14:51	LB69974
	Barium	100	+/-100	U	50.0	100	P	02/28/2014	14:51	LB69974
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	14:51	LB69974
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	14:51	LB69974
	Calcium	2000	+/-2000	U	1000	2000	P	02/28/2014	14:51	LB69974
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	14:51	LB69974
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/28/2014	14:51	LB69974
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	14:51	LB69974
	Iron	100	+/-100	U	50.0	100	P	02/28/2014	14:51	LB69974
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/28/2014	14:51	LB69974
	Magnesium	2000	+/-2000	U	1000	2000	P	02/28/2014	14:51	LB69974
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	14:51	LB69974
	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	14:51	LB69974
	Potassium	2000	+/-2000	U	1000	2000	P	02/28/2014	14:51	LB69974
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	14:51	LB69974
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	14:51	LB69974
	Sodium	43.44	+/-2000	J	1000	2000	P	02/28/2014	14:51	LB69974
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	14:51	LB69974
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	14:51	LB69974
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	14:51	LB69974
CCB04	Aluminum	100	+/-100	U	50.0	100	P	02/28/2014	15:29	LB69974
	Antimony	50.0	+/-50.0	U	25.0	50.0	P	02/28/2014	15:29	LB69974
	Arsenic	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	15:29	LB69974
	Barium	100	+/-100	U	50.0	100	P	02/28/2014	15:29	LB69974
	Beryllium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	15:29	LB69974
	Cadmium	6.0	+/-6.0	U	3.0	6.0	P	02/28/2014	15:29	LB69974
	Calcium	2000	+/-2000	U	1000	2000	P	02/28/2014	15:29	LB69974
	Chromium	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	15:29	LB69974
	Cobalt	30.0	+/-30.0	U	15.0	30.0	P	02/28/2014	15:29	LB69974
	Copper	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	15:29	LB69974
	Iron	100	+/-100	U	50.0	100	P	02/28/2014	15:29	LB69974
	Lead	12.0	+/-12.0	U	6.0	12.0	P	02/28/2014	15:29	LB69974
	Magnesium	2000	+/-2000	U	1000	2000	P	02/28/2014	15:29	LB69974
	Manganese	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	15:29	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	15:29	LB69974
	Potassium	2000	+/-2000	U	1000	2000	P	02/28/2014	15:29	LB69974
	Selenium	20.0	+/-20.0	U	10.0	20.0	P	02/28/2014	15:29	LB69974
	Silver	10.0	+/-10.0	U	5.0	10.0	P	02/28/2014	15:29	LB69974
	Sodium	71.02	+/-2000	J	1000	2000	P	02/28/2014	15:29	LB69974
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	15:29	LB69974
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	15:29	LB69974
	Zinc	40.0	+/-40.0	U	20.0	40.0	P	02/28/2014	15:29	LB69974

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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PREPARATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB75142BL		**WATER**		**Batch Number:**		**PB75142**		**Prep Date:**	**02/25/2014**	
	Mercury	0.2	<0.2	U	0.1	0.2	CV	02/26/2014	12:20	LB69940

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB75152BL		**SOLID**		**Batch Number:**		**PB75152**		**Prep Date:**	**02/25/2014**	
	Mercury	0.01	<0.01	U	0.005	0.01	CV	02/26/2014	14:39	LB69944

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PREPARATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB75150BL		**SOLID**		**Batch Number:**		**PB75150**		**Prep Date:**	**02/25/2014**	
	Aluminum	5.0	<5.0	U	2.5	5.0	P	02/25/2014	22:38	LB69931
	Antimony	2.5	<2.5	U	1.25	2.5	P	02/25/2014	22:38	LB69931
	Arsenic	1.0	<1.0	U	0.5	1.0	P	02/25/2014	22:38	LB69931
	Barium	5.0	<5.0	U	2.5	5.0	P	02/25/2014	22:38	LB69931
	Beryllium	0.3	<0.3	U	0.15	0.3	P	02/25/2014	22:38	LB69931
	Cadmium	0.3	<0.3	U	0.15	0.3	P	02/25/2014	22:38	LB69931
	Calcium	100	<100	U	50.0	100	P	02/25/2014	22:38	LB69931
	Chromium	0.5	<0.5	U	0.25	0.5	P	02/25/2014	22:38	LB69931
	Cobalt	1.5	<1.5	U	0.75	1.5	P	02/25/2014	22:38	LB69931
	Copper	1.0	<1.0	U	0.5	1.0	P	02/25/2014	22:38	LB69931
	Iron	5.0	<5.0	U	2.5	5.0	P	02/25/2014	22:38	LB69931
	Lead	0.6	<0.6	U	0.3	0.6	P	02/25/2014	22:38	LB69931
	Magnesium	100	<100	U	50.0	100	P	02/25/2014	22:38	LB69931
	Manganese	1.0	<1.0	U	0.5	1.0	P	02/25/2014	22:38	LB69931
	Nickel	2.0	<2.0	U	1.0	2.0	P	02/25/2014	22:38	LB69931
	Potassium	100	<100	U	50.0	100	P	02/25/2014	22:38	LB69931
	Selenium	1.0	<1.0	U	0.5	1.0	P	02/25/2014	22:38	LB69931
	Silver	0.5	<0.5	U	0.25	0.5	P	02/25/2014	22:38	LB69931
	Sodium	100	<100	U	50.0	100	P	02/25/2014	22:38	LB69931
	Thallium	2.0	<2.0	U	1.0	2.0	P	02/25/2014	22:38	LB69931
	Vanadium	2.0	<2.0	U	1.0	2.0	P	02/25/2014	22:38	LB69931
	Zinc	2.0	<2.0	U	1.0	2.0	P	02/25/2014	22:38	LB69931

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB75158BL		**WATER**		**Batch Number:**		**PB75158**		**Prep Date:**	**02/26/2014**	
	Aluminum	50.0	<50.0	U	25.0	50.0	P	02/26/2014	15:20	LB69952
	Antimony	25.0	<25.0	U	12.5	25.0	P	02/26/2014	15:20	LB69952
	Arsenic	10.0	<10.0	U	5.0	10.0	P	02/26/2014	15:20	LB69952
	Barium	50.0	<50.0	U	25.0	50.0	P	02/26/2014	15:20	LB69952
	Beryllium	3.0	<3.0	U	1.5	3.0	P	02/26/2014	15:20	LB69952
	Cadmium	3.0	<3.0	U	1.5	3.0	P	02/26/2014	15:20	LB69952
	Calcium	1000	<1000	U	500	1000	P	02/26/2014	15:20	LB69952
	Chromium	5.0	<5.0	U	2.5	5.0	P	02/26/2014	15:20	LB69952
	Cobalt	15.0	<15.0	U	7.5	15.0	P	02/26/2014	15:20	LB69952
	Copper	10.0	<10.0	U	5.0	10.0	P	02/26/2014	15:20	LB69952
	Iron	50.0	<50.0	U	25.0	50.0	P	02/26/2014	15:20	LB69952
	Lead	6.0	<6.0	U	3.0	6.0	P	02/26/2014	15:20	LB69952
	Magnesium	1000	<1000	U	500	1000	P	02/26/2014	15:20	LB69952
	Manganese	10.0	<10.0	U	5.0	10.0	P	02/26/2014	15:20	LB69952
	Nickel	20.0	<20.0	U	10.0	20.0	P	02/26/2014	15:20	LB69952
	Potassium	1000	<1000	U	500	1000	P	02/26/2014	15:20	LB69952

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PREPARATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Instrument: P4

Selenium	10.0	<10.0	U	5.0	10.0	P	02/26/2014	15:20	LB69952
Silver	5.0	<5.0	U	2.5	5.0	P	02/26/2014	15:20	LB69952
Sodium	1000	<1000	U	500	1000	P	02/26/2014	15:20	LB69952
Thallium	20.0	<20.0	U	10.0	20.0	P	02/26/2014	15:20	LB69952
Vanadium	20.0	<20.0	U	10.0	20.0	P	02/26/2014	15:20	LB69952
Zinc	20.0	<20.0	U	10.0	20.0	P	02/26/2014	15:20	LB69952

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INTERFERENCE CHECK SAMPLE

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	265100	244100	108.6	195280	292920	02/25/2014	12:29	LB69931
	Antimony	3.14			-50	50	02/25/2014	12:29	LB69931
	Arsenic	7.25			-20	20	02/25/2014	12:29	LB69931
	Barium	4.51	2	225.5	-98	102	02/25/2014	12:29	LB69931
	Beryllium	-0.55			-6	6	02/25/2014	12:29	LB69931
	Cadmium	1.65			-6	6	02/25/2014	12:29	LB69931
	Calcium	266600	234900	113.5	187920	281880	02/25/2014	12:29	LB69931
	Chromium	46.4	43	107.9	33	53	02/25/2014	12:29	LB69931
	Cobalt	6.21	4	155.3	-26	34	02/25/2014	12:29	LB69931
	Copper	26.3	23	114.3	3	43	02/25/2014	12:29	LB69931
	Iron	102900	95600	107.6	76480	114720	02/25/2014	12:29	LB69931
	Lead	10.57	10	105.7	-2	22	02/25/2014	12:29	LB69931
	Magnesium	275700	247500	111.4	198000	297000	02/25/2014	12:29	LB69931
	Manganese	21.5	19	113.2	-1	39	02/25/2014	12:29	LB69931
	Nickel	21.4	21	101.9	-19	61	02/25/2014	12:29	LB69931
	Potassium	10.87			0	0	02/25/2014	12:29	LB69931
	Selenium	-1.89			-20	20	02/25/2014	12:29	LB69931
	Silver	-2.08			-10	10	02/25/2014	12:29	LB69931
	Sodium	849			0	0	02/25/2014	12:29	LB69931
	Thallium	-3.32			-40	40	02/25/2014	12:29	LB69931
	Vanadium	2.65			-40	40	02/25/2014	12:29	LB69931
	Zinc	33.1	28	118.2	-12	68	02/25/2014	12:29	LB69931
ICSAB01	Aluminum	264100	248400	106.3	198720	298080	02/25/2014	12:34	LB69931
	Antimony	681	613	111.1	490	736	02/25/2014	12:34	LB69931
	Arsenic	112	101	110.9	81	121	02/25/2014	12:34	LB69931
	Barium	529	517	102.3	317	717	02/25/2014	12:34	LB69931
	Beryllium	575	504	114.1	403	905	02/25/2014	12:34	LB69931
	Cadmium	1100	989	111.2	791	1187	02/25/2014	12:34	LB69931
	Calcium	264700	243700	108.6	194960	292440	02/25/2014	12:34	LB69931
	Chromium	563	519	108.5	415	623	02/25/2014	12:34	LB69931
	Cobalt	535	481	111.2	385	577	02/25/2014	12:34	LB69931
	Copper	549	550	99.8	440	660	02/25/2014	12:34	LB69931
	Iron	103200	96840	106.6	77472	116208	02/25/2014	12:34	LB69931
	Lead	67.3	58	116	46	70	02/25/2014	12:34	LB69931
	Magnesium	272700	248700	109.7	198960	298440	02/25/2014	12:34	LB69931
	Manganese	543	507	107.1	406	608	02/25/2014	12:34	LB69931
	Nickel	1090	983	110.9	786	1180	02/25/2014	12:34	LB69931
	Potassium	-10.02			0	0	02/25/2014	12:34	LB69931
	Selenium	54.3	51	106.5	16	86	02/25/2014	12:34	LB69931
	Silver	219	205	106.8	164	246	02/25/2014	12:34	LB69931
	Sodium	835			0	0	02/25/2014	12:34	LB69931
	Thallium	110	99	111.1	74	124	02/25/2014	12:34	LB69931
	Vanadium	503	488	103.1	390	586	02/25/2014	12:34	LB69931
	Zinc	1090	986	110.5	789	1183	02/25/2014	12:34	LB69931
ICSA01	Aluminum	262800	244100	107.7	195280	292920	02/26/2014	12:17	LB69952

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INTERFERENCE CHECK SAMPLE

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	0.49			-50	50	02/26/2014	12:17	LB69952
	Arsenic	3.25			-20	20	02/26/2014	12:17	LB69952
	Barium	-0.53	2	26.5	-98	102	02/26/2014	12:17	LB69952
	Beryllium	-2.08			-6	6	02/26/2014	12:17	LB69952
	Cadmium	0.5			-6	6	02/26/2014	12:17	LB69952
	Calcium	261900	234900	111.5	187920	281880	02/26/2014	12:17	LB69952
	Chromium	44.6	43	103.7	33	53	02/26/2014	12:17	LB69952
	Cobalt	5.15	4	128.8	-26	34	02/26/2014	12:17	LB69952
	Copper	27.3	23	118.7	3	43	02/26/2014	12:17	LB69952
	Iron	100800	95600	105.4	76480	114720	02/26/2014	12:17	LB69952
	Lead	9.79	10	97.9	-2	22	02/26/2014	12:17	LB69952
	Magnesium	263300	247500	106.4	198000	297000	02/26/2014	12:17	LB69952
	Manganese	20.1	19	105.8	-1	39	02/26/2014	12:17	LB69952
	Nickel	19.3	21	91.9	-19	61	02/26/2014	12:17	LB69952
	Potassium	-5.71			0	0	02/26/2014	12:17	LB69952
	Selenium	-3.16			-20	20	02/26/2014	12:17	LB69952
	Silver	-4.36			-10	10	02/26/2014	12:17	LB69952
	Sodium	835			0	0	02/26/2014	12:17	LB69952
	Thallium	-8.3			-40	40	02/26/2014	12:17	LB69952
	Vanadium	1.32			-40	40	02/26/2014	12:17	LB69952
	Zinc	24.4	28	87.1	-12	68	02/26/2014	12:17	LB69952
ICSAB01	Aluminum	247500	248400	99.6	198720	298080	02/26/2014	12:24	LB69952
	Antimony	662	613	108	490	736	02/26/2014	12:24	LB69952
	Arsenic	102	101	101	81	121	02/26/2014	12:24	LB69952
	Barium	498	517	96.3	317	717	02/26/2014	12:24	LB69952
	Beryllium	543	504	107.7	403	905	02/26/2014	12:24	LB69952
	Cadmium	1040	989	105.2	791	1187	02/26/2014	12:24	LB69952
	Calcium	252000	243700	103.4	194960	292440	02/26/2014	12:24	LB69952
	Chromium	525	519	101.2	415	623	02/26/2014	12:24	LB69952
	Cobalt	510	481	106	385	577	02/26/2014	12:24	LB69952
	Copper	534	550	97.1	440	660	02/26/2014	12:24	LB69952
	Iron	95200	96840	98.3	77472	116208	02/26/2014	12:24	LB69952
	Lead	60.3	58	104	46	70	02/26/2014	12:24	LB69952
	Magnesium	255500	248700	102.7	198960	298440	02/26/2014	12:24	LB69952
	Manganese	514	507	101.4	406	608	02/26/2014	12:24	LB69952
	Nickel	1030	983	104.8	786	1180	02/26/2014	12:24	LB69952
	Potassium	-45.8			0	0	02/26/2014	12:24	LB69952
	Selenium	48.8	51	95.7	16	86	02/26/2014	12:24	LB69952
	Silver	203	205	99	164	246	02/26/2014	12:24	LB69952
	Sodium	806			0	0	02/26/2014	12:24	LB69952
	Thallium	101	99	102	74	124	02/26/2014	12:24	LB69952
	Vanadium	480	488	98.4	390	586	02/26/2014	12:24	LB69952
	Zinc	1030	986	104.5	789	1183	02/26/2014	12:24	LB69952
ICSA01	Aluminum	245100	244100	100.4	195280	292920	02/28/2014	12:18	LB69974
	Antimony	-1.86			-50	50	02/28/2014	12:18	LB69974

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INTERFERENCE CHECK SAMPLE

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	3.2			-20	20	02/28/2014	12:18	LB69974
	Barium	0.99	2	49.5	-98	102	02/28/2014	12:18	LB69974
	Beryllium	-3.54			-6	6	02/28/2014	12:18	LB69974
	Cadmium	4.53			-6	6	02/28/2014	12:18	LB69974
	Calcium	257400	234900	109.6	187920	281880	02/28/2014	12:18	LB69974
	Chromium	42	43	97.7	33	53	02/28/2014	12:18	LB69974
	Cobalt	5.49	4	137.3	-26	34	02/28/2014	12:18	LB69974
	Copper	25.4	23	110.4	3	43	02/28/2014	12:18	LB69974
	Iron	99400	95600	104	76480	114720	02/28/2014	12:18	LB69974
	Lead	8.06	10	80.6	-2	22	02/28/2014	12:18	LB69974
	Magnesium	265800	247500	107.4	198000	297000	02/28/2014	12:18	LB69974
	Manganese	20	19	105.3	-1	39	02/28/2014	12:18	LB69974
	Nickel	18.1	21	86.2	-19	61	02/28/2014	12:18	LB69974
	Potassium	-41.5			0	0	02/28/2014	12:18	LB69974
	Selenium	1.75			-20	20	02/28/2014	12:18	LB69974
	Silver	1.59			-10	10	02/28/2014	12:18	LB69974
	Sodium	837			0	0	02/28/2014	12:18	LB69974
	Thallium	-3.6			-40	40	02/28/2014	12:18	LB69974
	Vanadium	1.71			-40	40	02/28/2014	12:18	LB69974
	Zinc	24.5	28	87.5	-12	68	02/28/2014	12:18	LB69974
ICSAB01	Aluminum	230300	248400	92.7	198720	298080	02/28/2014	12:23	LB69974
	Antimony	715	613	116.6	490	736	02/28/2014	12:23	LB69974
	Arsenic	105	101	104	81	121	02/28/2014	12:23	LB69974
	Barium	516	517	99.8	317	717	02/28/2014	12:23	LB69974
	Beryllium	555	504	110.1	403	905	02/28/2014	12:23	LB69974
	Cadmium	1110	989	112.2	791	1187	02/28/2014	12:23	LB69974
	Calcium	233800	243700	95.9	194960	292440	02/28/2014	12:23	LB69974
	Chromium	535	519	103.1	415	623	02/28/2014	12:23	LB69974
	Cobalt	545	481	113.3	385	577	02/28/2014	12:23	LB69974
	Copper	565	550	102.7	440	660	02/28/2014	12:23	LB69974
	Iron	92700	96840	95.7	77472	116208	02/28/2014	12:23	LB69974
	Lead	64.8	58	111.7	46	70	02/28/2014	12:23	LB69974
	Magnesium	242800	248700	97.6	198960	298440	02/28/2014	12:23	LB69974
	Manganese	525	507	103.6	406	608	02/28/2014	12:23	LB69974
	Nickel	1100	983	111.9	786	1180	02/28/2014	12:23	LB69974
	Potassium	30.5			0	0	02/28/2014	12:23	LB69974
	Selenium	51.6	51	101.2	16	86	02/28/2014	12:23	LB69974
	Silver	215	205	104.9	164	246	02/28/2014	12:23	LB69974
	Sodium	765			0	0	02/28/2014	12:23	LB69974
	Thallium	111	99	112.1	74	124	02/28/2014	12:23	LB69974
	Vanadium	502	488	102.9	390	586	02/28/2014	12:23	LB69974
	Zinc	1080	986	109.5	789	1183	02/28/2014	12:23	LB69974

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: Solid **sample id:** F1466-03 **client id:** CSB-48D(42-44)MS

Percent Solids for Sample: 82 **Spiked ID:** F1466-04 **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	34 - 153	0.232		0.012	U	0.24	96.7		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: Solid **sample id:** F1466-03 **client id:** CSB-48D(42-44)MSD

Percent Solids for Sample: 82 **Spiked ID:** F1466-05 **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	34 - 153	0.232		0.012	U	0.24	96.7		CV

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: WATER **sample id:** F1474-07 **client id:** RMW-02MS

Percent Solids for Sample: NA **Spiked ID:** F1474-08 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	49 - 128	4.04		0.2	U	4	101		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: WATER **sample id:** F1474-07 **client id:** RMW-02MSD

Percent Solids for Sample: NA **Spiked ID:** F1474-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	49 - 128	4.16		0.2	U	4	104		CV

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: Solid **sample id:** F1489-02 **client id:** 915206-SB-58(1-2)MS

Percent Solids for Sample: 79.2 **Spiked ID:** F1489-03 **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	10900		9780		120	933		P
Antimony	mg/Kg	47 - 131	19.2		2.63	U	49.3	38.9	N	P
Arsenic	mg/Kg	73 - 117	54.1		6.43		49.3	97		P
Barium	mg/Kg	39 - 158	93		77.2		12.3	128		P
Beryllium	mg/Kg	79 - 112	11.6		0.316	U	12.3	94.3		P
Cadmium	mg/Kg	73 - 114	16		0.465		12.3	126	N	P
Calcium	mg/Kg	10 - 194	2650		3200		61.6	-893		P
Chromium	mg/Kg	68 - 122	40.3		14.5		24.6	105		P
Cobalt	mg/Kg	68 - 119	28.4		13		12.3	125	N	P
Copper	mg/Kg	59 - 132	37		17.4		18.5	106		P
Iron	mg/Kg	10 - 289	27200		26700		180	278		P
Lead	mg/Kg	66 - 125	92.2		14.9		61.6	125		P
Magnesium	mg/Kg	10 - 208	3550		3250		120	250		P
Manganese	mg/Kg	10 - 205	407		391		12.3	130		P
Mercury	mg/Kg	34 - 153	0.272		0.037		0.25	94		CV
Nickel	mg/Kg	64 - 129	73.2		33.6		30.8	129		P
Potassium	mg/Kg	37 - 158	1430		764		620	107		P
Selenium	mg/Kg	69 - 105	122		1.04	J	120	101		P
Silver	mg/Kg	54 - 131	5.36		0.289	J	4.6	110		P
Sodium	mg/Kg	10 - 139	222		31.1	J	180	106		P
Thallium	mg/Kg	74 - 116	153		2.1	U	120	127.5	N	P
Vanadium	mg/Kg	67 - 127	36.6		16.6		18.5	108		P
Zinc	mg/Kg	67 - 127	99.5		82.3		12.3	140		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: Solid **sample id:** F1489-02 **client id:** 915206-SB-58(1-2)MSD

Percent Solids for Sample: 79.2 **Spiked ID:** F1489-04 **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	10800		9780		120	850		P
Antimony	mg/Kg	47 - 131	19		2.63	U	48.8	38.9	N	P
Arsenic	mg/Kg	73 - 117	53.9		6.43		48.8	97		P
Barium	mg/Kg	39 - 158	92.2		77.2		12.2	123		P
Beryllium	mg/Kg	79 - 112	11.5		0.316	U	12.2	94.3		P
Cadmium	mg/Kg	73 - 114	15.8		0.465		12.2	126	N	P
Calcium	mg/Kg	10 - 194	2640		3200		61	-918		P
Chromium	mg/Kg	68 - 122	40.2		14.5		24.4	105		P
Cobalt	mg/Kg	68 - 119	28.1		13		12.2	124	N	P
Copper	mg/Kg	59 - 132	36.2		17.4		18.3	103		P
Iron	mg/Kg	10 - 289	27500		26700		180	444		P
Lead	mg/Kg	66 - 125	91.6		14.9		61	126	N	P
Magnesium	mg/Kg	10 - 208	3500		3250		120	208		P
Manganese	mg/Kg	10 - 205	404		391		12.2	107		P
Mercury	mg/Kg	34 - 153	0.274		0.037		0.25	95		CV
Nickel	mg/Kg	64 - 129	72.7		33.6		30.5	128		P
Potassium	mg/Kg	37 - 158	1410		764		610	106		P
Selenium	mg/Kg	69 - 105	122		1.04	J	120	101		P
Silver	mg/Kg	54 - 131	5.39		0.289	J	4.6	111		P
Sodium	mg/Kg	10 - 139	218		31.1	J	180	104		P
Thallium	mg/Kg	74 - 116	151		2.1	U	120	125.8	N	P
Vanadium	mg/Kg	67 - 127	36.2		16.6		18.3	107		P
Zinc	mg/Kg	67 - 127	99.9		82.3		12.2	144		P

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: WATER **sample id:** F1492-03 **client id:** SB15-5.5-6.0-022514MS

Percent Solids for Sample: NA **Spiked ID:** F1492-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	80 - 120	862		128		1000	73	N	P
Antimony	ug/L	80 - 120	297		25.0	U	400	74.3	N	P
Arsenic	ug/L	80 - 120	268		10.0	U	400	67	N	P
Barium	ug/L	80 - 120	161		95.1		100	66	N	P
Beryllium	ug/L	80 - 120	71.3		3.0	U	100	71.3	N	P
Cadmium	ug/L	80 - 120	71.3		3.0	U	100	71.3	N	P
Calcium	ug/L	80 - 120	72800	D	73600	D	500	-160		P
Chromium	ug/L	80 - 120	150		24.4		200	63	N	P
Cobalt	ug/L	80 - 120	72.5		15.0	U	100	72.5	N	P
Copper	ug/L	80 - 120	116		2.07	J	150	76	N	P
Iron	ug/L	80 - 120	1180		178		1500	67	N	P
Lead	ug/L	80 - 120	373		9.91		500	73	N	P
Magnesium	ug/L	80 - 120	4450		4520		1000	-7		P
Manganese	ug/L	80 - 120	800		967		100	-167		P
Nickel	ug/L	80 - 120	183		15.1	J	250	67	N	P
Potassium	ug/L	80 - 120	4830		1310		5000	70	N	P
Selenium	ug/L	80 - 120	731		10.0	U	1000	73.1	N	P
Silver	ug/L	80 - 120	29.3		5.0	U	37.5	78.1	N	P
Sodium	ug/L	80 - 120	6500		6370		1500	9		P
Thallium	ug/L	80 - 120	716		20.0	U	1000	71.6	N	P
Vanadium	ug/L	80 - 120	109		20.0	U	150	72.7	N	P
Zinc	ug/L	80 - 120	128		62.9		100	65	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1489

contract: EAEN05 **lab code:** CHEM **case no.:** F1489 **sas no.:** F1489

matrix: WATER **sample id:** F1492-03 **client id:** SB15-5.5-6.0-022514MSD

Percent Solids for Sample: NA **Spiked ID:** F1492-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	80 - 120	737		128		1000	61	N	P
Antimony	ug/L	80 - 120	265		25.0	U	400	66.3	N	P
Arsenic	ug/L	80 - 120	240		10.0	U	400	60	N	P
Barium	ug/L	80 - 120	136		95.1		100	41	N	P
Beryllium	ug/L	80 - 120	65.3		3.0	U	100	65.3	N	P
Cadmium	ug/L	80 - 120	63.9		3.0	U	100	63.9	N	P
Calcium	ug/L	80 - 120	64300	D	73600	D	500	-1860		P
Chromium	ug/L	80 - 120	213		24.4		200	94		P
Cobalt	ug/L	80 - 120	64.3		15.0	U	100	64.3	N	P
Copper	ug/L	80 - 120	102		2.07	J	150	67	N	P
Iron	ug/L	80 - 120	1320		178		1500	76	N	P
Lead	ug/L	80 - 120	335		9.91		500	65	N	P
Magnesium	ug/L	80 - 120	3930		4520		1000	-59		P
Manganese	ug/L	80 - 120	715		967		100	-252		P
Nickel	ug/L	80 - 120	193		15.1	J	250	71	N	P
Potassium	ug/L	80 - 120	4160		1310		5000	57	N	P
Selenium	ug/L	80 - 120	682		10.0	U	1000	68.2	N	P
Silver	ug/L	80 - 120	25.5		5.0	U	37.5	68	N	P
Sodium	ug/L	80 - 120	5600		6370		1500	-51		P
Thallium	ug/L	80 - 120	648		20.0	U	1000	64.8	N	P
Vanadium	ug/L	80 - 120	94		20.0	U	150	62.7	N	P
Zinc	ug/L	80 - 120	115		62.9		100	52	N	P

CHEMTECH

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: Solid **Level:** LOW **Client ID:** 915206-SB-58(1-2)A

Sample ID: F1489-02 **Spiked ID:** F1489-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	47 - 131	34.9		2.63	U	42.1	82.9		P
Cadmium	mg/Kg	73 - 114	11.5		0.465		10.5	105		P
Cobalt	mg/Kg	68 - 119	23.6		13		10.5	101		P
Lead	mg/Kg	66 - 125	69.1		14.9		52.6	103		P
Thallium	mg/Kg	74 - 116	108		2.1	U	110	98.2		P

CHEMTECH

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: WATER **Level:** LOW **Client ID:** SB15-5.5-6.0-022514A

Sample ID: F1492-03 **Spiked ID:** F1492-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	80 - 120	1050		128		1000	92		P
Antimony	ug/L	80 - 120	395		25.0	U	400	98.8		P
Arsenic	ug/L	80 - 120	362		10.0	U	400	90.5		P
Barium	ug/L	80 - 120	189		95.1		100	94		P
Beryllium	ug/L	80 - 120	95.7		3.0	U	100	95.7		P
Cadmium	ug/L	80 - 120	96.1		3.0	U	100	96.1		P
Calcium	ug/L	80 - 120	74500	OR	76600	OR	500	-420		P
Chromium	ug/L	80 - 120	217		24.4		200	96		P
Cobalt	ug/L	80 - 120	96.3		15.0	U	100	96.3		P
Copper	ug/L	80 - 120	149		2.07	J	150	98		P
Iron	ug/L	80 - 120	1600		178		1500	95		P
Lead	ug/L	80 - 120	491		9.91		500	96		P
Nickel	ug/L	80 - 120	258		15.1	J	250	97		P
Potassium	ug/L	80 - 120	6170		1310		5000	97		P
Selenium	ug/L	80 - 120	1000		10.0	U	1000	100		P
Silver	ug/L	80 - 120	34.8		5.0	U	37.5	92.8		P
Thallium	ug/L	80 - 120	974		20.0	U	1000	97.4		P
Vanadium	ug/L	80 - 120	141		20.0	U	150	94		P
Zinc	ug/L	80 - 120	153		62.9		100	90		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: Solid **Sample ID:** F1466-03 **Client ID:** CSB-48D(42-44)DUP

Percent Solids for Sample: 82 **Duplicate ID** F1466-03DUP **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.012	U	0.012	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: Solid **Sample ID:** F1466-04 **Client ID:** CSB-48D(42-44)MSD

Percent Solids for Sample: 82 **Duplicate ID** F1466-05 **Percent Solids for Spike Sample:** 82

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.232		0.232		0		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: WATER **Sample ID:** F1474-07 **Client ID:** RMW-02DUP

Percent Solids for Sample: NA **Duplicate ID** F1474-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.2	U	0.2	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: WATER **Sample ID:** F1474-08 **Client ID:** RMW-02MSD

Percent Solids for Sample: NA **Duplicate ID** F1474-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.04		4.16		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: Solid **Sample ID:** F1489-02 **Client ID:** 915206-SB-58(1-2)DUP

Percent Solids for Sample: 79.2 **Duplicate ID** F1489-02DUP **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9780		9600		2		P
Antimony	mg/Kg	20	2.63	U	2.61	U			P
Arsenic	mg/Kg	20	6.43		6.34		1		P
Barium	mg/Kg	20	77.2		76.2		1		P
Beryllium	mg/Kg	20	0.316	U	0.313	U			P
Cadmium	mg/Kg	20	0.465		0.49		5		P
Calcium	mg/Kg	20	3200		3150		2		P
Chromium	mg/Kg	20	14.5		14.1		3		P
Cobalt	mg/Kg	20	13		12.9		1		P
Copper	mg/Kg	20	17.4		17.3		1		P
Iron	mg/Kg	20	26700		26300		2		P
Lead	mg/Kg	20	14.9		14.8		1		P
Magnesium	mg/Kg	20	3250		3230		1		P
Manganese	mg/Kg	20	391		388		1		P
Mercury	mg/Kg	20	0.037		0.037		0		CV
Nickel	mg/Kg	20	33.6		33.2		1		P
Potassium	mg/Kg	20	764		749		2		P
Selenium	mg/Kg	20	1.04	J	1.22		16		P
Silver	mg/Kg	20	0.289	J	0.249	J	15		P
Sodium	mg/Kg	20	31.1	J	32.1	J	3		P
Thallium	mg/Kg	20	2.1	U	2.09	U			P
Vanadium	mg/Kg	20	16.6		16.5		1		P
Zinc	mg/Kg	20	82.3		82		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: Solid **Sample ID:** F1489-03 **Client ID:** 915206-SB-58(1-2)MSD

Percent Solids for Sample: 79.2 **Duplicate ID** F1489-04 **Percent Solids for Spike Sample:** 79.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	10900		10800		1		P
Antimony	mg/Kg	20	19.2		19		1		P
Arsenic	mg/Kg	20	54.1		53.9		0		P
Barium	mg/Kg	20	93		92.2		1		P
Beryllium	mg/Kg	20	11.6		11.5		1		P
Cadmium	mg/Kg	20	16		15.8		1		P
Calcium	mg/Kg	20	2650		2640		0		P
Chromium	mg/Kg	20	40.3		40.2		0		P
Cobalt	mg/Kg	20	28.4		28.1		1		P
Copper	mg/Kg	20	37		36.2		2		P
Iron	mg/Kg	20	27200		27500		1		P
Lead	mg/Kg	20	92.2		91.6		1		P
Magnesium	mg/Kg	20	3550		3500		1		P
Manganese	mg/Kg	20	407		404		1		P
Mercury	mg/Kg	20	0.272		0.274		1		CV
Nickel	mg/Kg	20	73.2		72.7		1		P
Potassium	mg/Kg	20	1430		1410		1		P
Selenium	mg/Kg	20	122		122		0		P
Silver	mg/Kg	20	5.36		5.39		1		P
Sodium	mg/Kg	20	222		218		2		P
Thallium	mg/Kg	20	153		151		1		P
Vanadium	mg/Kg	20	36.6		36.2		1		P
Zinc	mg/Kg	20	99.5		99.9		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: WATER **Sample ID:** F1492-03 **Client ID:** SB15-5.5-6.0-022514DUP

Percent Solids for Sample: NA **Duplicate ID** F1492-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	128		85.6		40	*	P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	95.1		63.9		39	*	P
Beryllium	ug/L	20	3.0	U	3.0	U			P
Cadmium	ug/L	20	3.0	U	3.0	U			P
Calcium	ug/L	20	73600	D	51000	D	36	*	P
Chromium	ug/L	20	24.4		34.2		33	*	P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	2.07	J	10.0	U	200.0		P
Iron	ug/L	20	178		171		4		P
Lead	ug/L	20	9.91		5.57	J	56		P
Magnesium	ug/L	20	4520		3130		36	*	P
Manganese	ug/L	20	967		681		35	*	P
Nickel	ug/L	20	15.1	J	18.9	J	22		P
Potassium	ug/L	20	1310		890	J	38	*	P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.0	U	5.0	U			P
Sodium	ug/L	20	6370		4350		38	*	P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	62.9		44.5		34		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Matrix: WATER **Sample ID:** F1492-03MS **Client ID:** SB15-5.5-6.0-022514MSD

Percent Solids for Sample: NA **Duplicate ID** F1492-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	862		737		16		P
Antimony	ug/L	20	297		265		11		P
Arsenic	ug/L	20	268		240		11		P
Barium	ug/L	20	161		136		17		P
Beryllium	ug/L	20	71.3		65.3		9		P
Cadmium	ug/L	20	71.3		63.9		11		P
Calcium	ug/L	20	72800	D	64300	D	12		P
Chromium	ug/L	20	150		213		35	*	P
Cobalt	ug/L	20	72.5		64.3		12		P
Copper	ug/L	20	116		102		13		P
Iron	ug/L	20	1180		1320		11		P
Lead	ug/L	20	373		335		11		P
Magnesium	ug/L	20	4450		3930		12		P
Manganese	ug/L	20	800		715		11		P
Nickel	ug/L	20	183		193		5		P
Potassium	ug/L	20	4830		4160		15		P
Selenium	ug/L	20	731		682		7		P
Silver	ug/L	20	29.3		25.5		14		P
Sodium	ug/L	20	6500		5600		15		P
Thallium	ug/L	20	716		648		10		P
Vanadium	ug/L	20	109		94		15		P
Zinc	ug/L	20	128		115		11		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75142BS							
Mercury	ug/L	4	4.07		101.8	67 - 127	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75150BS							
Aluminum	mg/Kg	100	84.3		84.3	76 - 118	P
Antimony	mg/Kg	40	38.8		97	81 - 112	P
Arsenic	mg/Kg	40	36.4		91	82 - 112	P
Barium	mg/Kg	10	9.03		90.3	83 - 118	P
Beryllium	mg/Kg	10	9.55		95.5	84 - 113	P
Cadmium	mg/Kg	10	9.38		93.8	82 - 117	P
Calcium	mg/Kg	50	46	J	92	78 - 138	P
Chromium	mg/Kg	20	17.9		89.5	84 - 115	P
Cobalt	mg/Kg	10	9		90	84 - 114	P
Copper	mg/Kg	15	14		93.3	80 - 115	P
Iron	mg/Kg	150	132		88	78 - 109	P
Lead	mg/Kg	50	46.4		92.8	82 - 117	P
Magnesium	mg/Kg	100	90.2	J	90.2	80 - 121	P
Manganese	mg/Kg	10	9.24		92.4	84 - 114	P
Nickel	mg/Kg	25	23.1		92.4	85 - 118	P
Potassium	mg/Kg	500	442		88.4	67 - 116	P
Selenium	mg/Kg	100	102		102	74 - 110	P
Silver	mg/Kg	3.8	3.26		85.8	81 - 123	P
Sodium	mg/Kg	150	132		88	70 - 135	P
Thallium	mg/Kg	100	93.2		93.2	86 - 119	P
Vanadium	mg/Kg	15	12.9		86	84 - 113	P
Zinc	mg/Kg	10	9.02		90.2	88 - 127	P

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75152BS							
Mercury	mg/Kg	0.2	0.19		95	73 - 121	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75158BS							
Aluminum	ug/L	1000	840		84	80 - 120	P
Antimony	ug/L	400	389		97.3	80 - 120	P
Arsenic	ug/L	400	359		89.8	80 - 120	P
Barium	ug/L	100	88.5		88.5	80 - 120	P
Beryllium	ug/L	100	95.4		95.4	80 - 120	P
Cadmium	ug/L	100	94.9		94.9	80 - 120	P
Calcium	ug/L	500	473	J	94.6	80 - 120	P
Chromium	ug/L	200	182		91	80 - 120	P
Cobalt	ug/L	100	90.6		90.6	80 - 120	P
Copper	ug/L	150	141		94	80 - 120	P
Iron	ug/L	1500	1330		88.7	80 - 120	P
Lead	ug/L	500	465		93	80 - 120	P
Magnesium	ug/L	1000	924	J	92.4	80 - 120	P
Manganese	ug/L	100	92.5		92.5	80 - 120	P
Nickel	ug/L	250	233		93.2	80 - 120	P
Potassium	ug/L	5000	4470		89.4	80 - 120	P
Selenium	ug/L	1000	1040		104	80 - 120	P
Silver	ug/L	37.5	32.7		87.2	80 - 120	P
Sodium	ug/L	1500	1340		89.3	80 - 120	P
Thallium	ug/L	1000	937		93.7	80 - 120	P
Vanadium	ug/L	150	130		86.7	80 - 120	P
Zinc	ug/L	100	95		95	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

CSB-48D(42-44)L

Lab Name: Chemtech Consulting Group **Contract:** EAEN05

Lab Code: CHEM **Lb No.:** lb69944 **Lab Sample ID :** F1466-03L **SDG No.:** F1489

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.012	U	0.061	U			CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RMW-02L

Lab Name: Chemtech Consulting Group **Contract:** EAEN05

Lab Code: CHEM **Lb No.:** lb69940 **Lab Sample ID :** F1474-07L **SDG No.:** F1489

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.2	U	1.0	U			CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

915206-SB-58(1-2)L

Lab Name: Chemtech Consulting Group **Contract:** EAEN05

Lab Code: CHEM **Lb No.:** lb69931 **Lab Sample ID :** F1489-02L **SDG No.:** F1489

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	9780		11000		12		P
Antimony	2.63	U	13.2	U			P
Arsenic	6.43		8.38		30		P
Barium	77.2		91.4		18		P
Beryllium	0.316	U	1.58	U			P
Cadmium	0.465		1.58	U	100.0		P
Calcium	3200		3850		20		P
Chromium	14.5		17.3		19		P
Cobalt	13		12.8		2		P
Copper	17.4		21.5		24		P
Iron	26700		26800		0		P
Lead	14.9		15.2		2		P
Magnesium	3250		3880		19		P
Manganese	391		489		25		P
Mercury	0.037		0.041	J	11		CV
Nickel	33.6		33.2		1		P
Potassium	764		871		14		P
Selenium	1.04	J	5.26	U	100.0		P
Silver	0.289	J	2.63	U	100.0		P
Sodium	31.1	J	37.9	J	22		P
Thallium	2.1	U	10.52	U			P
Vanadium	16.6		19.9		20		P
Zinc	82.3		84.1		2		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

SB15-5.5-6.0-022514L

Lab Name: Chemtech Consulting Group **Contract:** EAEN05

Lab Code: CHEM **Lb No.:** lb69952 **Lab Sample ID :** F1492-03L **SDG No.:** F1489

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	128		92.9	J	27		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	95.1		90.8	J	5		P
Beryllium	3.0	U	15.0	U			P
Cadmium	3.0	U	15.0	U			P
Calcium	76600	OR	77500		1		P
Chromium	24.4		23.6	J	3		P
Cobalt	15.0	U	75.0	U			P
Copper	2.07	J	50.0	U	100.0		P
Iron	178		144	J	19		P
Lead	9.91		30.0	U	100.0		P
Magnesium	4520		4520	J	0		P
Manganese	967		995		3		P
Nickel	15.1	J	100	U	100.0		P
Potassium	1310		1160	J	11		P
Selenium	10.0	U	50.0	U			P
Silver	5.0	U	25.0	U			P
Sodium	6370		6320		1		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	62.9		66.2	J	5		P

METAL PREPARATION & INSTRUMENT DATA

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Metals

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Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: P4 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method:	**6010B**				
Aluminum	396.10	6.5	25.0	50.0	
Antimony	206.83	8.0	12.5	25.0	
Arsenic	189.04	4.2	5.0	10.0	
Barium	493.41	4.0	25.0	50.0	
Beryllium	234.86	0.7	1.5	3.0	
Cadmium	226.50	0.5	1.5	3.0	
Calcium	373.69	31.8	500	1000	
Chromium	267.72	1.1	2.5	5.0	
Cobalt	228.62	5.8	7.5	15.0	
Copper	224.70	2.0	5.0	10.0	
Iron	240.48	20.4	25.0	50.0	
Lead	220.35	2.6	3.0	6.0	
Magnesium	279.08	32.5	500	1000	
Manganese	257.61	1.7	5.0	10.0	
Nickel	231.60	4.2	10.0	20.0	
Potassium	766.49	38.8	500	1000	
Selenium	196.02	4.8	5.0	10.0	
Silver	328.07	1.5	2.5	5.0	
Sodium	589.59	13.9	500	1000	
Thallium	190.86	2.4	10.0	20.0	
Vanadium	292.40	6.1	10.0	20.0	
Zinc	213.8	6.5	10.0	20.0	

SOLIDS				
Method:	**6010B**			
Aluminum	396.10	0.84	2.5	5.0
Antimony	206.83	0.56	1.25	2.5
Arsenic	189.04	0.33	0.5	1.0
Barium	493.41	0.4	2.5	5.0
Beryllium	234.86	0.06	0.15	0.3
Cadmium	226.50	0.06	0.15	0.3
Calcium	373.69	1.07	50.0	100
Chromium	267.72	0.13	0.25	0.5
Cobalt	228.62	0.57	0.75	1.5
Copper	224.70	0.32	0.5	1.0
Iron	240.48	1.33	2.5	5.0
Lead	220.35	0.12	0.3	0.6
Magnesium	279.08	4.58	50.0	100
Manganese	257.61	0.19	0.5	1.0
Nickel	231.60	0.46	1.0	2.0
Potassium	766.49	3.5	50.0	100
Selenium	196.02	0.41	0.5	1.0
Silver	328.07	0.15	0.25	0.5

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Metals

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Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: P4 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
Sodium	589.59	2.52	50.0	100	
Thallium	190.86	0.27	1.0	2.0	
Vanadium	292.40	0.59	1.0	2.0	
Zinc	213.8	0.7	1.0	2.0	

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Metals

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Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: CV1 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method: **7470A**					
Mercury	253.70	0.1	0.1	0.2	
SOLIDS					
Method: **7471A**					
Mercury	253.70	0.005	0.005	0.01	

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0001030	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0001620	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001070	0.0000000	0.0000280	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000200	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001280	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001170	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001900	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0001570
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0004170
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002660
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0018500
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0308240
Antimony	206.833	0.0013816	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0011220	0.0000000	0.0000000	0.0000000	0.0015300
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000740	-0.0003180
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000600
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0002280	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0011900
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0014660
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0003060	0.0000000	0.0000000	0.0001250	-0.0013650
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	-0.0137700
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0020550
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0006680	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002250	0.0000000	0.0000000	0.0011640	0.0000000
Vanadium	292.402	-0.0032600	0.0000000	0.0000000	-0.0220050	-0.0003720
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	-0.0004160	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	-0.0000930	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0001600	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0049290	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0002444	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0057000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	-0.0018200	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	-0.0040370	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	-0.0346560	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LINEAR RANGES

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1489 **SAS No.:** F1489

Instrument ID: P4 **Date:** 12/06/2012

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10	1500000
Antimony	10	100000
Arsenic	10	80000
Barium	10	100000
Beryllium	10	10000
Cadmium	10	9000
Calcium	10	3000000
Chromium	10	95000
Cobalt	10	45000
Copper	10	250000
Iron	10	800000
Lead	10	280000
Magnesium	10	2000000
Manganese	10	95000
Nickel	10	45000
Potassium	10	1800000
Selenium	10	45000
Silver	10	9000
Sodium	10	2200000
Thallium	10	85000
Vanadium	10	95000
Zinc	10	95000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Method:**

Case No.: F1489 **SAS No.:** F1489

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB75142**						
F1474-07DUP	RMW-02DUP	DUP	WATER	02/25/2014	30.0	30.0	
F1474-08	RMW-02MS	MS	WATER	02/25/2014	30.0	30.0	
F1474-09	RMW-02MSD	MSD	WATER	02/25/2014	30.0	30.0	
F1489-12	915206-RB-022414	SAM	WATER	02/25/2014	30.0	30.0	
PB75142BL	PB75142BL	MB	WATER	02/25/2014	30.0	30.0	
PB75142BS	PB75142BS	LCS	WATER	02/25/2014	30.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Method:**

Case No.: F1489 **SAS No.:** F1489

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB75150**						
F1489-01	915206-SB-58(0-1)	SAM	SOLID	02/25/2014	2.36	100.0	81.90
F1489-02	915206-SB-58(1-2)	SAM	SOLID	02/25/2014	2.40	100.0	79.20
F1489-02DUP	915206-SB-58(1-2)DUP	DUP	SOLID	02/25/2014	2.42	100.0	79.20
F1489-03	915206-SB-58(1-2)MS	MS	SOLID	02/25/2014	2.05	100.0	79.20
F1489-04	915206-SB-58(1-2)MSD	MSD	SOLID	02/25/2014	2.07	100.0	79.20
F1489-05	915206-SB-58(2-3)	SAM	SOLID	02/25/2014	2.39	100.0	76.70
F1489-06	915206-SB-DUPLICATE01022414	SAM	SOLID	02/25/2014	2.37	100.0	76.80
F1489-07	915206-SB-59(0-1)	SAM	SOLID	02/25/2014	2.35	100.0	79.80
F1489-08	915206-SB-59(1-2)	SAM	SOLID	02/25/2014	2.40	100.0	78.30
F1489-10	915206-SB-60(0-1)	SAM	SOLID	02/25/2014	2.41	100.0	66.30
F1489-11	915206-SB-60(1-2)	SAM	SOLID	02/25/2014	2.45	100.0	75.30
PB75150BL	PB75150BL	MB	SOLID	02/25/2014	2.00	100.0	100.00
PB75150BS	PB75150BS	LCS	SOLID	02/25/2014	2.00	100.0	100.00

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SAMPLE PREPARATION SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Method:**

Case No.: F1489 **SAS No.:** F1489

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB75152**						
F1466-03DUP	CSB-48D(42-44)DUP	DUP	SOLID	02/25/2014	0.60	30.0	82.00
F1466-04	CSB-48D(42-44)MS	MS	SOLID	02/25/2014	0.60	30.0	82.00
F1466-05	CSB-48D(42-44)MSD	MSD	SOLID	02/25/2014	0.60	30.0	82.00
F1489-01	915206-SB-58(0-1)	SAM	SOLID	02/25/2014	0.61	30.0	81.90
F1489-02	915206-SB-58(1-2)	SAM	SOLID	02/25/2014	0.60	30.0	79.20
F1489-02DUP	915206-SB-58(1-2)DUP	DUP	SOLID	02/25/2014	0.60	30.0	79.20
F1489-03	915206-SB-58(1-2)MS	MS	SOLID	02/25/2014	0.60	30.0	79.20
F1489-04	915206-SB-58(1-2)MSD	MSD	SOLID	02/25/2014	0.60	30.0	79.20
F1489-05	915206-SB-58(2-3)	SAM	SOLID	02/25/2014	0.64	30.0	76.70
F1489-06	915206-SB-DUPLICATE01022414	SAM	SOLID	02/25/2014	0.63	30.0	76.80
F1489-07	915206-SB-59(0-1)	SAM	SOLID	02/25/2014	0.67	30.0	79.80
F1489-08	915206-SB-59(1-2)	SAM	SOLID	02/25/2014	0.68	30.0	78.30
F1489-10	915206-SB-60(0-1)	SAM	SOLID	02/25/2014	0.66	30.0	66.30
F1489-11	915206-SB-60(1-2)	SAM	SOLID	02/25/2014	0.69	30.0	75.30
PB75152BL	PB75152BL	MB	SOLID	02/25/2014	0.60	30.0	100.00
PB75152BS	PB75152BS	LCS	SOLID	02/25/2014	0.60	30.0	100.00

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SAMPLE PREPARATION SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1489

Contract: EAEN05 **Lab Code:** CHEM **Method:**

Case No.: F1489 **SAS No.:** F1489

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**pb75158**						
F1489-12	915206-RB-022414	SAM	WATER	02/26/2014	50.0	25.0	
F1492-03DUP	SB15-5.5-6.0-022514DUP	DUP	WATER	02/26/2014	50.0	25.0	
F1492-03MS	SB15-5.5-6.0-022514MS	MS	WATER	02/26/2014	50.0	25.0	
F1492-03MSD	SB15-5.5-6.0-022514MSD	MSD	WATER	02/26/2014	50.0	25.0	
PB75158BL	PB75158BL	MB	WATER	02/26/2014	50.0	25.0	
PB75158BS	PB75158BS	LCS	WATER	02/26/2014	50.0	25.0	

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69931

Start date: 02/25/2014 **End date:** 02/25/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1107	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1111	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1116	Ca,K,Mg,Na
S3	S3	1	1122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1133	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1234	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1249	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1345	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1448	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1637	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV05	LLCCV05	1	1641	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1758	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB75150BS	PB75150BS	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1856	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1951	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV08	LLCCV08	1	1956	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2001	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2157	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB75150BL	PB75150BL	1	2238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-01	915206-SB-58(0-1)	1	2243	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-02	915206-SB-58(1-2)	1	2248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-02DUP	915206-SB-58(1-2)DUP	1	2253	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2258	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-02L	915206-SB-58(1-2)L	5	2308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69931

Start date: 02/25/2014 **End date:** 02/25/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
F1489-03	915206-SB-58(1-2)MS	1	2314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-04	915206-SB-58(1-2)MSD	1	2319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-02A	915206-SB-58(1-2)A	1	2324	Cd,Co,Pb,Sb,Tl
F1489-05	915206-SB-58(2-3)	1	2329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-06	915206-SB-DUPLICATE010224	1	2334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-07	915206-SB-59(0-1)	1	2339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-08	915206-SB-59(1-2)	1	2344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-10	915206-SB-60(0-1)	1	2355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	0000	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	0005	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-11	915206-SB-60(1-2)	1	0010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV13	CCV13	1	0026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV13	LLCCV13	1	0031	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB13	CCB13	1	0037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69940

Start date: 02/26/2014 **End date:** 02/26/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1148	HG
S0.2	S0.2	1	1150	HG
S2.5	S2.5	1	1152	HG
S5	S5	1	1154	HG
S7.5	S7.5	1	1157	HG
S10	S10	1	1202	HG
ICV44	ICV44	1	1205	HG
ICB44	ICB44	1	1207	HG
CCV33	CCV33	1	1209	HG
CCB33	CCB33	1	1211	HG
CRA	CRA	1	1213	HG
PB75142BL	PB75142BL	1	1220	HG
PB75142BS	PB75142BS	1	1222	HG
CCV34	CCV34	1	1235	HG
CCB34	CCB34	1	1237	HG
F1474-07DUP	RMW-02DUP	1	1245	HG
F1474-08	RMW-02MS	1	1247	HG
F1474-09	RMW-02MSD	1	1249	HG
CCV35	CCV35	1	1300	HG
CCB35	CCB35	1	1302	HG
F1489-12	915206-RB-022414	1	1309	HG
F1474-07L	RMW-02L	5	1313	HG
CCV36	CCV36	1	1315	HG
CCB36	CCB36	1	1317	HG

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69944

Start date: 02/26/2014 **End date:** 02/26/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1410	HG
S0.2	S0.2	1	1413	HG
S2.5	S2.5	1	1415	HG
S5	S5	1	1417	HG
S7.5	S7.5	1	1419	HG
S10	S10	1	1421	HG
ICV45	ICV45	1	1424	HG
ICB45	ICB45	1	1426	HG
CCV37	CCV37	1	1428	HG
CCB37	CCB37	1	1430	HG
CRA	CRA	1	1432	HG
PB75152BL	PB75152BL	1	1439	HG
PB75152BS	PB75152BS	1	1441	HG
F1466-03DUP	CSB-48D(42-44)DUP	1	1449	HG
F1466-04	CSB-48D(42-44)MS	1	1452	HG
CCV38	CCV38	1	1454	HG
CCB38	CCB38	1	1456	HG
F1466-05	CSB-48D(42-44)MSD	1	1458	HG
F1466-03L	CSB-48D(42-44)L	5	1502	HG
F1489-01	915206-SB-58(0-1)	1	1511	HG
F1489-02	915206-SB-58(1-2)	1	1513	HG
F1489-02DUP	915206-SB-58(1-2)DUP	1	1515	HG
F1489-03	915206-SB-58(1-2)MS	1	1517	HG
CCV39	CCV39	1	1519	HG
CCB39	CCB39	1	1521	HG
F1489-04	915206-SB-58(1-2)MSD	1	1523	HG
F1489-02L	915206-SB-58(1-2)L	5	1528	HG
F1489-05	915206-SB-58(2-3)	1	1530	HG
F1489-06	915206-SB-DUPLICATE010224	1	1532	HG
F1489-07	915206-SB-59(0-1)	1	1534	HG
F1489-08	915206-SB-59(1-2)	1	1536	HG
F1489-10	915206-SB-60(0-1)	1	1538	HG
F1489-11	915206-SB-60(1-2)	1	1540	HG
CCV40	CCV40	1	1545	HG
CCB40	CCB40	1	1547	HG
CCV41	CCV41	1	1610	HG
CCB41	CCB41	1	1612	HG
CCV42	CCV42	1	1636	HG
CCB42	CCB42	1	1638	HG
CCV43	CCV43	1	1659	HG
CCB43	CCB43	1	1701	HG

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69952

Start date: 02/26/2014 **End date:** 02/26/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1050	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1054	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1101	Ca,K,Mg,Na
S3	S3	1	1109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1123	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1140	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1230	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1236	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1243	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1408	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB75158BL	PB75158BL	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1489-12	915206-RB-022414	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03DUP	SB15-5.5-6.0-022514DUP	1	1630	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03L	SB15-5.5-6.0-022514L	5	1637	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03MS	SB15-5.5-6.0-022514MS	1	1644	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03MSD	SB15-5.5-6.0-022514MSD	1	1650	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03A	SB15-5.5-6.0-022514A	1	1657	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Ni,Pb,Sb,Se,Tl,V,Zn
PB75158BS	PB75158BS	1	1718	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1722	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: EA Engineering Science & Technology **Contract:** EAEN05

Lab code: CHEM **Case no.:** F1489 **Sas no.:** F1489 **Sdg no.:** F1489

Instrument id number: **Method:** **Run number:** LB69974

Start date: 02/28/2014 **End date:** 02/28/2014

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1121	Ag,Al,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1126	Ca,K,Mg,Na
S3	S3	1	1133	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1144	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1202	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1213	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1218	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1238	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1492-03DUP	SB15-5.5-6.0-022514DUP	10	1247	Ca
F1492-03MS	SB15-5.5-6.0-022514MS	10	1257	Ca
F1492-03MSD	SB15-5.5-6.0-022514MSD	10	1301	Ca
CCV02	CCV02	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV02	LLCCV02	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1446	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1451	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1525	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1529	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. F1489
QUOTE NO.
COC Number 028689

6.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: SAME AS
ADDRESS:
CITY: PAGE #1 STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SAME AS
PROJECT NO.: LOCATION:
PROJECT MANAGER: PAGE #1
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: STANDARD DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NJ Excel EDD
☒ Others: Full Cat. B

ANALYSIS

TAL Metals + Hexavalent Cr

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E									— Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1.	915206-SB-58(0-1)	SOIL	X		2-24-14	1150	1	1									
2.	915206-SB-58(1-2)				2-24-14	1150	3	3									use for MS/MSD
3.	915206-SB-58(2-3)(a)				2-24-14	1150	1	1									
4.	915206-SB-DUPLICATE[redacted]01022414				—	—	1	1									
5.	915206-SB-59(0-1)				2-24-14	1205	1	1									
6.	915206-SB-59(1-2)				2-24-14	1205	1	1									
7.	915206-SB-DUPLICATE02022414				—	—	1	1									
8.	915206-SB-60(0-1)				2-24-14	1215	1	1									
9.	915206-SB-60(1-2)				2-24-14	1215	1	1									
10.	915206-RB-022414	AQ[redacted]			2-24-14	1300	1	1									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	1430	1. UPS
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. UPS	DATE/TIME: 2-24-2014 10:20	RECEIVED FOR LAB BY: 3. Corey Petit

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°C
Ice in Cooler?: Yes

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Copy

Original Documents are included in CSF F1489

Corey Petitt

Signature

2-25-2014

Date

https://www.campusship.ups.com/cship/create/ActionOriginPair=default__PrintWin... 02/04/14

GEORGE
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092

14 LBS

7 OF 7

SHIP TO:
ROBERT PATERSON
315-431-4610
EA ENGINEERING SCIENCE & TECH
SUITE 104
6712 BROOKLAWN PARKWAY
SYRACUSE NY 13211-2167

NY 132 9-03

UPS GROUND
TRACKING #: 1Z A17 04V 03 9601 0653

BILLING: P/P

Reference # 1: B1401112-B1411113

GS 16.0.38 WXPE70 48.0A 01/2014

CP
2-25-2014
10:20

CHEMTECH 284 Sheffield Street Mountainside NJ 07092 Tel. 908-7898900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148