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 : F1488

ATTENTION : Lynette Mokry

DoD ELAP

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Cover Page

Order ID : F1488

Project ID : LACKAWANNA INCINERATOR

Client : EA Engineering Science & Technology

Lab Sample Number	Client Sample Number
F1488-01	915206-SS-55
F1488-02	915206-SS-56
F1488-03	915206-SS-56MS
F1488-04	915206-SS-56MSD
F1488-05	915206-SS-57
F1488-06	915206-SS-58
F1488-07	915206-SS-59
F1488-08	915206-SS-60
F1488-09	915206-SS-DUPLICATE022
F1488-10	915206-SB-55(0-1)
F1488-11	915206-SB-55(1-2)
F1488-12	915206-SB-55(2-3)
F1488-13	915206-SB-55(10-11)
F1488-14	915206-SB-56(0-1)
F1488-15	915206-SB-56(1-2)
F1488-16	915206-SB-56(1-2)MS
F1488-17	915206-SB-56(1-2)MSD
F1488-18	915206-SB-56(2-3)
F1488-19	915206-SB-56(3-4)
F1488-20	915206-SB-57(0-1)
F1488-21	915206-SB-57(1-2)
F1488-22	915206-SB-57(2-3)

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
2014.03.10 11:43:05 -05'00'

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
915206-SS-55	F1488-01					6010B, 7471A	Chemtech -SOP
915206-SS-56	F1488-02					6010B, 7471A	Chemtech -SOP
915206-SS-57	F1488-05					6010B, 7471A	Chemtech -SOP
915206-SS-58	F1488-06					6010B, 7471A	Chemtech -SOP
915206-SS-59	F1488-07					6010B, 7471A	Chemtech -SOP
915206-SS-60	F1488-08					6010B, 7471A	Chemtech -SOP
915206-SS-DUPLICATE 022414	F1488-09					6010B, 7471A	Chemtech -SOP
915206-SB-55(0-1)	F1488-10					6010B, 7471A	Chemtech -SOP
915206-SB-55(1-2)	F1488-11					6010B, 7471A	Chemtech -SOP
915206-SB-55(2-3)	F1488-12					6010B, 7471A	Chemtech -SOP
915206-SB-55(10-11)	F1488-13					6010B, 7471A	Chemtech -SOP
915206-SB-56(0-1)	F1488-14					6010B, 7471A	Chemtech -SOP
915206-SB-56(1-2)	F1488-15					6010B, 7471A	Chemtech -SOP
915206-SB-56(2-3)	F1488-18					6010B, 7471A	Chemtech -SOP
915206-SB-56(3-4)	F1488-19					6010B, 7471A	Chemtech -SOP
915206-SB-57(0-1)	F1488-20					6010B, 7471A	Chemtech -SOP
915206-SB-57(1-2)	F1488-21					6010B, 7471A	Chemtech -SOP
915206-SB-57(2-3)	F1488-22					6010B, 7471A	Chemtech -SOP

CHEMTECH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
F1488-01	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-02	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-05	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-06	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-07	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-08	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-09	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-10	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-11	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-12	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-13	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-14	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-15	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-18	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-19	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-20	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-21	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14
F1488-22	SOIL	Metals ICP-TAL	02/25/14	02/25/14	02/25/14

*** Details For Test :** Metals ICP-TAL

CHEMTECH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
F1488-01	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-02	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-05	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-06	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-07	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-08	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-09	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-10	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-11	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-12	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-13	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-14	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-15	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-18	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-19	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-20	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-21	SOIL	Mercury	02/25/14	02/25/14	02/26/14
F1488-22	SOIL	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 # F1488
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
22 Solid samples were 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). 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 met criteria for all samples.
The Matrix Spike (915206-SS-56MS) analysis met criteria for all samples except for Antimony, Cadmium, Cobalt, Copper and Thallium.
The Matrix Spike (915206-SB-56(1-2)MS) analysis met criteria for all samples except for Antimony and Cadmium.
The Matrix Spike Duplicate (915206-SS-56MSD) analysis met criteria for all samples except for Antimony, Cadmium, Cobalt, Copper, Selenium and Thallium.
The Matrix Spike Duplicate (915206-SB-56(1-2)MSD) analysis met criteria for all samples except for Antimony, Cadmium and Thallium.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (915206-SS-56L) met criteria for all samples except for Aluminum, Barium, Calcium, Chromium, Copper, Magnesium, Manganese and Potassium.
The Serial Dilution (915206-SB-56(1-2L) met criteria for all samples except for Aluminum, Barium, Calcium, Chromium, Copper, Magnesium, Manganese and Vanadium.
Samples 915206-SS-55, 915206-SS-DUPLICATE022414, 915206-SB-55(0-1) and 915206-SB-55(2-3) were diluted due to high concentrations of Iron.

E. Additional Comments:
LLICV and LLCCV are not required for 6010B method.

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
2014.03.10 11:42:55 -05'00'

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 #: F1488

	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: SHELLY GUHA **Date: 03/10/2014**

2nd Level QA Review Signature: Mildred V Reyes Mildred V. Reyes, QA/QC Supervisor 2014.03.10 11:42:27 -05'00' **Date:**

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

LAB CHRONICLE

OrderID:	F1488	**OrderDate:**	2/25/2014 11:58:00 AM
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
F1488-01	**915206-SS-55**	**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	
			Metals ICP-TAL	6010B		02/25/14	02/26/14	
F1488-02	**915206-SS-56**	**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	
F1488-05	**915206-SS-57**	**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	
F1488-06	**915206-SS-58**	**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	
F1488-07	**915206-SS-59**	**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	
F1488-08	**915206-SS-60**	**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	
F1488-09	**915206-SS-DUPLICATE022414**	**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	
			Metals ICP-TAL	6010B		02/25/14	02/26/14	
F1488-10	**915206-SB-55(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	

LAB CHRONICLE

			Metals ICP-TAL	6010B		02/25/14	02/26/14	
F1488-11	**915206-SB-55(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	
F1488-12	**915206-SB-55(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	
			Metals ICP-TAL	6010B		02/25/14	02/26/14	
F1488-13	**915206-SB-55(10-11)**	**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	
F1488-14	**915206-SB-56(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	
F1488-15	**915206-SB-56(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	
F1488-18	**915206-SB-56(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	
F1488-19	**915206-SB-56(3-4)**	**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	
F1488-20	**915206-SB-57(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	
F1488-21	**915206-SB-57(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	
F1488-22	**915206-SB-57(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	

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

Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 915206-SS-55									
F1488-01	915206-SS-55	SOIL	Aluminum	20,900.000		1.54	4.57	9.14	mg/Kg
F1488-01	915206-SS-55	SOIL	Arsenic	21.200		0.603	0.914	1.83	mg/Kg
F1488-01	915206-SS-55	SOIL	Barium	348.000		0.731	4.57	9.14	mg/Kg
F1488-01	915206-SS-55	SOIL	Cadmium	7.340		0.11	0.274	0.548	mg/Kg
F1488-01	915206-SS-55	SOIL	Calcium	40,700.000		1.96	91.4	183	mg/Kg
F1488-01	915206-SS-55	SOIL	Chromium	41.900		0.238	0.457	0.914	mg/Kg
F1488-01	915206-SS-55	SOIL	Cobalt	17.800		1.04	1.37	2.74	mg/Kg
F1488-01	915206-SS-55	SOIL	Copper	240.000		0.585	0.914	1.83	mg/Kg
F1488-01	915206-SS-55	SOIL	Iron	90,000.000	D	24.3	45.7	91.4	mg/Kg
F1488-01	915206-SS-55	SOIL	Lead	960.000		0.219	0.548	1.1	mg/Kg
F1488-01	915206-SS-55	SOIL	Magnesium	5,090.000		8.37	91.4	183	mg/Kg
F1488-01	915206-SS-55	SOIL	Manganese	835.000		0.347	0.914	1.83	mg/Kg
F1488-01	915206-SS-55	SOIL	Mercury	0.133		0.01	0.01	0.02	mg/Kg
F1488-01	915206-SS-55	SOIL	Nickel	61.900		0.841	1.83	3.66	mg/Kg
F1488-01	915206-SS-55	SOIL	Potassium	1,940.000		6.4	91.4	183	mg/Kg
F1488-01	915206-SS-55	SOIL	Selenium	1.890		0.749	0.914	1.83	mg/Kg
F1488-01	915206-SS-55	SOIL	Silver	1.670		0.274	0.457	0.914	mg/Kg
F1488-01	915206-SS-55	SOIL	Sodium	186.000		4.61	91.4	183	mg/Kg
F1488-01	915206-SS-55	SOIL	Vanadium	21.000		1.08	1.83	3.66	mg/Kg
Client ID : 915206-SS-56									
F1488-02	915206-SS-56	SOIL	Aluminum	10,400.000		1.19	3.54	7.07	mg/Kg
F1488-02	915206-SS-56	SOIL	Arsenic	8.400		0.467	0.707	1.41	mg/Kg
F1488-02	915206-SS-56	SOIL	Barium	103.000		0.566	3.54	7.07	mg/Kg
F1488-02	915206-SS-56	SOIL	Cadmium	1.530		0.085	0.212	0.424	mg/Kg
F1488-02	915206-SS-56	SOIL	Calcium	15,500.000		1.51	70.7	141	mg/Kg
F1488-02	915206-SS-56	SOIL	Chromium	19.900		0.184	0.354	0.707	mg/Kg
F1488-02	915206-SS-56	SOIL	Cobalt	12.900		0.806	1.06	2.12	mg/Kg
F1488-02	915206-SS-56	SOIL	Copper	49.500		0.453	0.707	1.41	mg/Kg
F1488-02	915206-SS-56	SOIL	Iron	32,000.000		1.88	3.54	7.07	mg/Kg
F1488-02	915206-SS-56	SOIL	Lead	151.000		0.17	0.424	0.849	mg/Kg
F1488-02	915206-SS-56	SOIL	Magnesium	4,330.000		6.48	70.7	141	mg/Kg
F1488-02	915206-SS-56	SOIL	Manganese	499.000		0.269	0.707	1.41	mg/Kg
F1488-02	915206-SS-56	SOIL	Mercury	0.070		0.008	0.008	0.017	mg/Kg
F1488-02	915206-SS-56	SOIL	Nickel	39.900		0.651	1.41	2.83	mg/Kg
F1488-02	915206-SS-56	SOIL	Potassium	1,310.000		4.95	70.7	141	mg/Kg
F1488-02	915206-SS-56	SOIL	Selenium	1.090	J	0.58	0.707	1.41	mg/Kg
F1488-02	915206-SS-56	SOIL	Silver	0.428	J	0.212	0.354	0.707	mg/Kg
F1488-02	915206-SS-56	SOIL	Sodium	58.200	J	3.57	70.7	141	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-02	915206-SS-56	SOIL	Vanadium	18.500		0.835	1.41	2.83	mg/Kg
F1488-02	915206-SS-56	SOIL	Zinc	279.000		0.99	1.41	2.83	mg/Kg
Client ID :	**915206-SS-57**								
F1488-05	915206-SS-57	SOIL	Aluminum	11,300.000		1.32	3.94	7.87	mg/Kg
F1488-05	915206-SS-57	SOIL	Arsenic	9.550		0.52	0.787	1.57	mg/Kg
F1488-05	915206-SS-57	SOIL	Barium	90.400		0.63	3.94	7.87	mg/Kg
F1488-05	915206-SS-57	SOIL	Cadmium	0.957		0.094	0.236	0.472	mg/Kg
F1488-05	915206-SS-57	SOIL	Calcium	13,100.000		1.68	78.7	157	mg/Kg
F1488-05	915206-SS-57	SOIL	Chromium	18.800		0.205	0.394	0.787	mg/Kg
F1488-05	915206-SS-57	SOIL	Cobalt	13.500		0.897	1.18	2.36	mg/Kg
F1488-05	915206-SS-57	SOIL	Copper	38.500		0.504	0.787	1.57	mg/Kg
F1488-05	915206-SS-57	SOIL	Iron	31,700.000		2.09	3.94	7.87	mg/Kg
F1488-05	915206-SS-57	SOIL	Lead	82.100		0.189	0.472	0.945	mg/Kg
F1488-05	915206-SS-57	SOIL	Magnesium	6,240.000		7.21	78.7	157	mg/Kg
F1488-05	915206-SS-57	SOIL	Manganese	474.000		0.299	0.787	1.57	mg/Kg
F1488-05	915206-SS-57	SOIL	Mercury	0.047		0.008	0.008	0.017	mg/Kg
F1488-05	915206-SS-57	SOIL	Nickel	36.700		0.724	1.57	3.15	mg/Kg
F1488-05	915206-SS-57	SOIL	Potassium	1,760.000		5.51	78.7	157	mg/Kg
F1488-05	915206-SS-57	SOIL	Selenium	1.130	J	0.646	0.787	1.57	mg/Kg
F1488-05	915206-SS-57	SOIL	Sodium	67.200	J	3.97	78.7	157	mg/Kg
F1488-05	915206-SS-57	SOIL	Vanadium	20.200		0.929	1.57	3.15	mg/Kg
F1488-05	915206-SS-57	SOIL	Zinc	198.000		1.1	1.57	3.15	mg/Kg
Client ID :	**915206-SS-58**								
F1488-06	915206-SS-58	SOIL	Aluminum	12,600.000		1.53	4.55	9.1	mg/Kg
F1488-06	915206-SS-58	SOIL	Arsenic	10.530		0.601	0.91	1.82	mg/Kg
F1488-06	915206-SS-58	SOIL	Barium	98.200		0.728	4.55	9.1	mg/Kg
F1488-06	915206-SS-58	SOIL	Cadmium	1.330		0.109	0.273	0.546	mg/Kg
F1488-06	915206-SS-58	SOIL	Calcium	18,800.000		1.95	91.0	182	mg/Kg
F1488-06	915206-SS-58	SOIL	Chromium	21.700		0.237	0.455	0.91	mg/Kg
F1488-06	915206-SS-58	SOIL	Cobalt	15.000		1.04	1.37	2.73	mg/Kg
F1488-06	915206-SS-58	SOIL	Copper	43.800		0.583	0.91	1.82	mg/Kg
F1488-06	915206-SS-58	SOIL	Iron	34,800.000		2.42	4.55	9.1	mg/Kg
F1488-06	915206-SS-58	SOIL	Lead	101.000		0.219	0.546	1.09	mg/Kg
F1488-06	915206-SS-58	SOIL	Magnesium	7,560.000		8.34	91.0	182	mg/Kg
F1488-06	915206-SS-58	SOIL	Manganese	571.000		0.346	0.91	1.82	mg/Kg
F1488-06	915206-SS-58	SOIL	Mercury	0.064		0.01	0.01	0.02	mg/Kg
F1488-06	915206-SS-58	SOIL	Nickel	40.700		0.838	1.82	3.64	mg/Kg
F1488-06	915206-SS-58	SOIL	Potassium	2,160.000		6.37	91.0	182	mg/Kg
F1488-06	915206-SS-58	SOIL	Selenium	0.967	J	0.747	0.91	1.82	mg/Kg
F1488-06	915206-SS-58	SOIL	Sodium	77.600	J	4.59	91.0	182	mg/Kg
F1488-06	915206-SS-58	SOIL	Vanadium	24.100		1.07	1.82	3.64	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-06	915206-SS-58	SOIL	Zinc	260.000		1.27	1.82	3.64	mg/Kg
Client ID :	**915206-SS-59**								
F1488-07	915206-SS-59	SOIL	Aluminum	11,900.000		1.24	3.68	7.37	mg/Kg
F1488-07	915206-SS-59	SOIL	Arsenic	12.000		0.486	0.737	1.47	mg/Kg
F1488-07	915206-SS-59	SOIL	Barium	79.000		0.589	3.68	7.37	mg/Kg
F1488-07	915206-SS-59	SOIL	Cadmium	1.380		0.088	0.221	0.442	mg/Kg
F1488-07	915206-SS-59	SOIL	Calcium	14,100.000		1.58	73.7	147	mg/Kg
F1488-07	915206-SS-59	SOIL	Chromium	20.200		0.192	0.368	0.737	mg/Kg
F1488-07	915206-SS-59	SOIL	Cobalt	13.900		0.84	1.11	2.21	mg/Kg
F1488-07	915206-SS-59	SOIL	Copper	38.800		0.472	0.737	1.47	mg/Kg
F1488-07	915206-SS-59	SOIL	Iron	35,000.000		1.96	3.68	7.37	mg/Kg
F1488-07	915206-SS-59	SOIL	Lead	71.700		0.177	0.442	0.884	mg/Kg
F1488-07	915206-SS-59	SOIL	Magnesium	7,690.000		6.75	73.7	147	mg/Kg
F1488-07	915206-SS-59	SOIL	Manganese	551.000		0.28	0.737	1.47	mg/Kg
F1488-07	915206-SS-59	SOIL	Mercury	0.063		0.008	0.008	0.016	mg/Kg
F1488-07	915206-SS-59	SOIL	Nickel	38.400		0.678	1.47	2.95	mg/Kg
F1488-07	915206-SS-59	SOIL	Potassium	1,830.000		5.16	73.7	147	mg/Kg
F1488-07	915206-SS-59	SOIL	Selenium	1.220	J	0.604	0.737	1.47	mg/Kg
F1488-07	915206-SS-59	SOIL	Silver	0.344	J	0.221	0.368	0.737	mg/Kg
F1488-07	915206-SS-59	SOIL	Sodium	88.800	J	3.71	73.7	147	mg/Kg
F1488-07	915206-SS-59	SOIL	Vanadium	21.900		0.869	1.47	2.95	mg/Kg
F1488-07	915206-SS-59	SOIL	Zinc	245.000		1.03	1.47	2.95	mg/Kg
Client ID :	**915206-SS-60**								
F1488-08	915206-SS-60	SOIL	Aluminum	13,600.000		1.41	4.2	8.41	mg/Kg
F1488-08	915206-SS-60	SOIL	Arsenic	9.130		0.555	0.841	1.68	mg/Kg
F1488-08	915206-SS-60	SOIL	Barium	108.000		0.673	4.2	8.41	mg/Kg
F1488-08	915206-SS-60	SOIL	Cadmium	1.290		0.101	0.252	0.504	mg/Kg
F1488-08	915206-SS-60	SOIL	Calcium	6,470.000		1.8	84.1	168	mg/Kg
F1488-08	915206-SS-60	SOIL	Chromium	23.900		0.219	0.42	0.841	mg/Kg
F1488-08	915206-SS-60	SOIL	Cobalt	15.100		0.958	1.26	2.52	mg/Kg
F1488-08	915206-SS-60	SOIL	Copper	41.900		0.538	0.841	1.68	mg/Kg
F1488-08	915206-SS-60	SOIL	Iron	34,500.000		2.24	4.2	8.41	mg/Kg
F1488-08	915206-SS-60	SOIL	Lead	72.400		0.202	0.504	1.01	mg/Kg
F1488-08	915206-SS-60	SOIL	Magnesium	4,570.000		7.7	84.1	168	mg/Kg
F1488-08	915206-SS-60	SOIL	Manganese	583.000		0.319	0.841	1.68	mg/Kg
F1488-08	915206-SS-60	SOIL	Mercury	0.058		0.009	0.009	0.018	mg/Kg
F1488-08	915206-SS-60	SOIL	Nickel	43.800		0.773	1.68	3.36	mg/Kg
F1488-08	915206-SS-60	SOIL	Potassium	1,770.000		5.89	84.1	168	mg/Kg
F1488-08	915206-SS-60	SOIL	Selenium	1.590	J	0.689	0.841	1.68	mg/Kg
F1488-08	915206-SS-60	SOIL	Silver	0.325	J	0.252	0.42	0.841	mg/Kg
F1488-08	915206-SS-60	SOIL	Sodium	44.400	J	4.24	84.1	168	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-08	915206-SS-60	SOIL	Vanadium	24.000		0.992	1.68	3.36	mg/Kg
F1488-08	915206-SS-60	SOIL	Zinc	265.000		1.18	1.68	3.36	mg/Kg
Client ID :	**915206-SS-DUPLICATE022414**								
F1488-09	915206-SS-DUPLICATE022414	SOIL	Aluminum	12,700.000		1.32	3.92	7.84	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Antimony	1.290	J	0.878	1.96	3.92	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Arsenic	21.300		0.518	0.784	1.57	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Barium	389.000		0.627	3.92	7.84	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Cadmium	10.650		0.094	0.235	0.471	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Calcium	42,600.000		1.68	78.4	157	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Chromium	70.500		0.204	0.392	0.784	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Cobalt	23.300		0.894	1.18	2.35	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Copper	328.000		0.502	0.784	1.57	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Iron	126,000.000	D	20.9	39.2	78.4	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Lead	1,360.000		0.188	0.471	0.941	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Magnesium	5,110.000		7.18	78.4	157	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Manganese	959.000		0.298	0.784	1.57	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Mercury	0.145		0.008	0.008	0.016	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Nickel	86.200		0.722	1.57	3.14	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Potassium	1,580.000		5.49	78.4	157	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Selenium	2.340		0.643	0.784	1.57	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Silver	1.940		0.235	0.392	0.784	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Sodium	380.000		3.95	78.4	157	mg/Kg
F1488-09	915206-SS-DUPLICATE022414	SOIL	Vanadium	22.200		0.925	1.57	3.14	mg/Kg
Client ID :	**915206-SB-55(0-1)**								
F1488-10	915206-SB-55(0-1)	SOIL	Aluminum	10,000.000		1.17	3.49	6.97	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Antimony	19.000		0.781	1.74	3.49	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Arsenic	18.400		0.46	0.697	1.39	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Barium	300.000		0.558	3.49	6.97	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Cadmium	6.670		0.084	0.209	0.418	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Calcium	33,600.000		1.49	69.7	139	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Chromium	39.100		0.181	0.349	0.697	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Cobalt	15.400		0.795	1.05	2.09	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Copper	205.000		0.446	0.697	1.39	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Iron	76,200.000	D	18.6	34.9	69.7	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Lead	1,780.000		0.167	0.418	0.837	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Magnesium	4,460.000		6.39	69.7	139	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Manganese	712.000		0.265	0.697	1.39	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Mercury	0.173		0.008	0.008	0.017	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Nickel	57.200		0.642	1.39	2.79	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Potassium	1,430.000		4.88	69.7	139	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Selenium	1.600		0.572	0.697	1.39	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-10	915206-SB-55(0-1)	SOIL	Silver	1.280		0.209	0.349	0.697	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Sodium	145.000		3.52	69.7	139	mg/Kg
F1488-10	915206-SB-55(0-1)	SOIL	Vanadium	18.200		0.823	1.39	2.79	mg/Kg
Client ID :	**915206-SB-55(1-2)**								
F1488-11	915206-SB-55(1-2)	SOIL	Aluminum	3,460.000		0.735	2.19	4.37	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Arsenic	6.330		0.289	0.437	0.874	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Barium	72.100		0.35	2.19	4.37	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Cadmium	1.870		0.052	0.131	0.262	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Calcium	109,000.000		0.936	43.7	87.4	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Chromium	12.400		0.114	0.219	0.437	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Cobalt	5.210		0.498	0.656	1.31	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Copper	89.300		0.28	0.437	0.874	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Iron	28,000.000		1.16	2.19	4.37	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Lead	339.000		0.105	0.262	0.525	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Magnesium	4,220.000		4	43.7	87.4	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Manganese	234.000		0.166	0.437	0.874	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Mercury	0.061		0.005	0.005	0.01	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Nickel	24.600		0.402	0.874	1.75	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Potassium	516.000		3.06	43.7	87.4	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Silver	0.348	J	0.131	0.219	0.437	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Sodium	159.000		2.2	43.7	87.4	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Vanadium	6.160		0.516	0.874	1.75	mg/Kg
F1488-11	915206-SB-55(1-2)	SOIL	Zinc	284.000		0.612	0.874	1.75	mg/Kg
Client ID :	**915206-SB-55(2-3)**								
F1488-12	915206-SB-55(2-3)	SOIL	Aluminum	11,700.000		0.894	2.66	5.32	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Arsenic	42.200		0.351	0.532	1.06	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Barium	787.000		0.426	2.66	5.32	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Cadmium	47.500		0.064	0.16	0.319	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Calcium	36,700.000		1.14	53.2	106	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Chromium	132.000		0.138	0.266	0.532	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Cobalt	32.600		0.607	0.798	1.6	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Copper	484.000		0.341	0.532	1.06	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Iron	242,000.000	D	14.2	26.6	53.2	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Lead	8,210.000		0.128	0.319	0.638	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Magnesium	1,960.000		4.87	53.2	106	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Manganese	1,310.000		0.202	0.532	1.06	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Mercury	0.199		0.006	0.006	0.011	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Nickel	245.000		0.49	1.06	2.13	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Potassium	771.000		3.72	53.2	106	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Sodium	904.000		2.68	53.2	106	mg/Kg
F1488-12	915206-SB-55(2-3)	SOIL	Vanadium	19.800		0.628	1.06	2.13	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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-55(10-11)**								
F1488-13	915206-SB-55(10-11)	SOIL	Aluminum	7,190.000		1	2.99	5.98	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Arsenic	4.000		0.394	0.598	1.2	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Barium	47.600		0.478	2.99	5.98	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Cadmium	0.165	J	0.072	0.179	0.359	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Calcium	1,790.000		1.28	59.8	120	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Chromium	11.700		0.155	0.299	0.598	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Cobalt	6.840		0.681	0.897	1.79	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Copper	17.200		0.383	0.598	1.2	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Iron	13,100.000		1.59	2.99	5.98	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Lead	10.880		0.143	0.359	0.717	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Magnesium	2,630.000		5.47	59.8	120	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Manganese	103.000		0.227	0.598	1.2	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Mercury	0.018		0.006	0.006	0.013	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Nickel	23.900		0.55	1.2	2.39	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Potassium	792.000		4.18	59.8	120	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Selenium	0.653	J	0.49	0.598	1.2	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Sodium	45.100	J	3.01	59.8	120	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Vanadium	14.300		0.705	1.2	2.39	mg/Kg
F1488-13	915206-SB-55(10-11)	SOIL	Zinc	63.000		0.837	1.2	2.39	mg/Kg
Client ID :	**915206-SB-56(0-1)**								
F1488-14	915206-SB-56(0-1)	SOIL	Aluminum	10,200.000		0.945	2.81	5.62	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Arsenic	9.800		0.371	0.562	1.12	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Barium	117.000		0.45	2.81	5.62	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Cadmium	2.090		0.067	0.169	0.337	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Calcium	32,700.000		1.2	56.2	112	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Chromium	18.300		0.146	0.281	0.562	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Cobalt	12.000		0.641	0.844	1.69	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Copper	55.400		0.36	0.562	1.12	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Iron	38,300.000		1.5	2.81	5.62	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Lead	141.000		0.135	0.337	0.675	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Magnesium	5,160.000		5.15	56.2	112	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Manganese	430.000		0.214	0.562	1.12	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Mercury	0.053		0.006	0.006	0.013	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Nickel	35.100		0.517	1.12	2.25	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Potassium	792.000		3.94	56.2	112	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Selenium	1.200		0.461	0.562	1.12	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Silver	0.376	J	0.169	0.281	0.562	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Sodium	82.300	J	2.83	56.2	112	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Vanadium	16.500		0.664	1.12	2.25	mg/Kg
F1488-14	915206-SB-56(0-1)	SOIL	Zinc	357.000		0.787	1.12	2.25	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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-56(1-2)**								
F1488-15	915206-SB-56(1-2)	SOIL	Aluminum	13,200.000		0.913	2.72	5.44	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Arsenic	7.060		0.359	0.544	1.09	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Barium	106.000		0.435	2.72	5.44	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Cadmium	1.150		0.065	0.163	0.326	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Calcium	6,700.000		1.16	54.4	109	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Chromium	19.300		0.141	0.272	0.544	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Cobalt	16.800		0.62	0.816	1.63	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Copper	29.200		0.348	0.544	1.09	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Iron	34,200.000		1.45	2.72	5.44	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Lead	56.000		0.13	0.326	0.652	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Magnesium	4,450.000		4.98	54.4	109	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Manganese	518.000		0.207	0.544	1.09	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Mercury	0.046		0.006	0.006	0.013	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Nickel	45.800		0.5	1.09	2.17	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Potassium	758.000		3.81	54.4	109	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Selenium	1.330		0.446	0.544	1.09	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Silver	0.519	J	0.163	0.272	0.544	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Sodium	38.600	J	2.74	54.4	109	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Vanadium	21.000		0.642	1.09	2.17	mg/Kg
F1488-15	915206-SB-56(1-2)	SOIL	Zinc	161.000		0.761	1.09	2.17	mg/Kg
Client ID :	**915206-SB-56(2-3)**								
F1488-18	915206-SB-56(2-3)	SOIL	Aluminum	13,700.000		0.903	2.69	5.38	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Arsenic	6.870		0.355	0.538	1.08	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Barium	105.000		0.43	2.69	5.38	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Cadmium	0.680		0.065	0.161	0.323	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Calcium	2,950.000		1.15	53.8	108	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Chromium	19.900		0.14	0.269	0.538	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Cobalt	16.600		0.613	0.807	1.61	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Copper	25.600		0.344	0.538	1.08	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Iron	34,500.000		1.43	2.69	5.38	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Lead	17.700		0.129	0.323	0.645	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Magnesium	4,620.000		4.93	53.8	108	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Manganese	480.000		0.204	0.538	1.08	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Mercury	0.035		0.006	0.006	0.012	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Nickel	46.300		0.495	1.08	2.15	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Potassium	801.000		3.76	53.8	108	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Selenium	1.460		0.441	0.538	1.08	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Silver	0.550		0.161	0.269	0.538	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Sodium	33.800	J	2.71	53.8	108	mg/Kg
F1488-18	915206-SB-56(2-3)	SOIL	Vanadium	21.500		0.635	1.08	2.15	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-18	915206-SB-56(2-3)	SOIL	Zinc	110.000		0.753	1.08	2.15	mg/Kg
Client ID :	**915206-SB-56(3-4)**								
F1488-19	915206-SB-56(3-4)	SOIL	Aluminum	9,220.000		0.881	2.62	5.24	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Arsenic	5.250		0.346	0.524	1.05	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Barium	66.000		0.419	2.62	5.24	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Cadmium	0.525		0.063	0.157	0.315	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Calcium	1,830.000		1.12	52.4	105	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Chromium	13.300		0.136	0.262	0.524	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Cobalt	12.700		0.598	0.786	1.57	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Copper	20.400		0.336	0.524	1.05	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Iron	23,800.000		1.39	2.62	5.24	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Lead	14.300		0.126	0.315	0.629	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Magnesium	3,090.000		4.8	52.4	105	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Manganese	383.000		0.199	0.524	1.05	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Mercury	0.031		0.006	0.006	0.012	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Nickel	33.700		0.482	1.05	2.1	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Potassium	653.000		3.67	52.4	105	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Selenium	0.639	J	0.43	0.524	1.05	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Silver	0.235	J	0.157	0.262	0.524	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Sodium	33.900	J	2.64	52.4	105	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Vanadium	16.500		0.619	1.05	2.1	mg/Kg
F1488-19	915206-SB-56(3-4)	SOIL	Zinc	75.200		0.734	1.05	2.1	mg/Kg
Client ID :	**915206-SB-57(0-1)**								
F1488-20	915206-SB-57(0-1)	SOIL	Aluminum	12,100.000		0.876	2.61	5.21	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Arsenic	9.480		0.344	0.521	1.04	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Barium	89.100		0.417	2.61	5.21	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Cadmium	1.380		0.063	0.156	0.313	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Calcium	17,400.000		1.12	52.1	104	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Chromium	19.500		0.136	0.261	0.521	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Cobalt	15.500		0.594	0.782	1.56	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Copper	34.400		0.334	0.521	1.04	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Iron	34,000.000		1.39	2.61	5.21	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Lead	79.500		0.125	0.313	0.625	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Magnesium	7,240.000		4.77	52.1	104	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Manganese	443.000		0.198	0.521	1.04	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Mercury	0.032		0.006	0.006	0.013	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Nickel	41.000		0.479	1.04	2.08	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Potassium	1,430.000		3.65	52.1	104	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Selenium	1.060		0.427	0.521	1.04	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Silver	0.322	J	0.156	0.261	0.521	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Sodium	69.100	J	2.63	52.1	104	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-20	915206-SB-57(0-1)	SOIL	Vanadium	21.300		0.615	1.04	2.08	mg/Kg
F1488-20	915206-SB-57(0-1)	SOIL	Zinc	193.000		0.73	1.04	2.08	mg/Kg
Client ID :	**915206-SB-57(1-2)**								
F1488-21	915206-SB-57(1-2)	SOIL	Aluminum	15,200.000		0.921	2.74	5.48	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Arsenic	6.770		0.362	0.548	1.1	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Barium	111.000		0.439	2.74	5.48	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Cadmium	0.654		0.066	0.165	0.329	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Calcium	3,160.000		1.17	54.8	110	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Chromium	22.000		0.143	0.274	0.548	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Cobalt	16.500		0.625	0.823	1.65	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Copper	23.100		0.351	0.548	1.1	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Iron	36,900.000		1.46	2.74	5.48	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Lead	18.300		0.132	0.329	0.658	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Magnesium	5,120.000		5.02	54.8	110	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Manganese	571.000		0.208	0.548	1.1	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Mercury	0.048		0.006	0.006	0.012	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Nickel	48.200		0.504	1.1	2.19	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Potassium	928.000		3.84	54.8	110	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Selenium	1.520		0.45	0.548	1.1	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Silver	0.603		0.165	0.274	0.548	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Sodium	35.700	J	2.76	54.8	110	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Vanadium	24.000		0.647	1.1	2.19	mg/Kg
F1488-21	915206-SB-57(1-2)	SOIL	Zinc	121.000		0.768	1.1	2.19	mg/Kg
Client ID :	**915206-SB-57(2-3)**								
F1488-22	915206-SB-57(2-3)	SOIL	Aluminum	12,800.000		0.878	2.61	5.22	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Arsenic	7.790		0.345	0.522	1.04	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Barium	89.700		0.418	2.61	5.22	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Cadmium	0.910		0.063	0.157	0.313	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Calcium	3,520.000		1.12	52.2	104	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Chromium	18.600		0.136	0.261	0.522	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Cobalt	20.100		0.596	0.784	1.57	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Copper	23.000		0.334	0.522	1.04	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Iron	35,500.000		1.39	2.61	5.22	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Lead	21.500		0.125	0.313	0.627	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Magnesium	4,420.000		4.79	52.2	104	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Manganese	634.000		0.199	0.522	1.04	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Mercury	0.040		0.006	0.006	0.011	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Nickel	42.300		0.481	1.04	2.09	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Potassium	802.000		3.66	52.2	104	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Selenium	1.410		0.428	0.522	1.04	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Silver	0.472	J	0.157	0.261	0.522	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: F1488 **Order ID:** F1488

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
F1488-22	915206-SB-57(2-3)	SOIL	Sodium	36.200	J	2.63	52.2	104	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Vanadium	21.400		0.616	1.04	2.09	mg/Kg
F1488-22	915206-SB-57(2-3)	SOIL	Zinc	107.000		0.731	1.04	2.09	mg/Kg

SAMPLE DATA

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-SS-55	SDG No.:	F1488
Lab Sample ID:	F1488-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	45.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	20900		1	1.54	4.57	9.14	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	4.57	UN	1	1.02	2.28	4.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	21.2		1	0.603	0.914	1.83	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	348		1	0.731	4.57	9.14	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.548	U	1	0.11	0.274	0.548	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	7.34	N	1	0.11	0.274	0.548	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	40700		1	1.96	91.4	183	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	41.9		1	0.238	0.457	0.914	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	17.8	N	1	1.04	1.37	2.74	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	240	N	1	0.585	0.914	1.83	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	90000	D	10	24.3	45.7	91.4	mg/Kg	02/25/14	02/26/14	SW6010
7439-92-1	Lead	960		1	0.219	0.548	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	5090		1	8.37	91.4	183	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	835		1	0.347	0.914	1.83	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.133		1	0.01	0.01	0.02	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	61.9		1	0.841	1.83	3.66	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1940		1	6.4	91.4	183	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.89	N	1	0.749	0.914	1.83	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	1.67		1	0.274	0.457	0.914	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	186		1	4.61	91.4	183	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	3.66	UN	1	0.494	1.83	3.66	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21		1	1.08	1.83	3.66	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	3.66	U	1	1.28	1.83	3.66	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-SS-56	SDG No.:	F1488
Lab Sample ID:	F1488-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	58.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	10400		1	1.19	3.54	7.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	3.54	UN	1	0.792	1.77	3.54	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	8.4		1	0.467	0.707	1.41	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	103		1	0.566	3.54	7.07	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.424	U	1	0.085	0.212	0.424	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.53	N	1	0.085	0.212	0.424	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	15500		1	1.51	70.7	141	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	19.9		1	0.184	0.354	0.707	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	12.9	N	1	0.806	1.06	2.12	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	49.5	N	1	0.453	0.707	1.41	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	32000		1	1.88	3.54	7.07	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	151		1	0.17	0.424	0.849	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4330		1	6.48	70.7	141	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	499		1	0.269	0.707	1.41	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.07		1	0.008	0.008	0.017	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	39.9		1	0.651	1.41	2.83	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1310		1	4.95	70.7	141	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.09	JN	1	0.58	0.707	1.41	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.428	J	1	0.212	0.354	0.707	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	58.2	J	1	3.57	70.7	141	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.83	UN	1	0.382	1.41	2.83	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	18.5		1	0.835	1.41	2.83	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	279		1	0.99	1.41	2.83	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-SS-57	SDG No.:	F1488
Lab Sample ID:	F1488-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	53.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	11300		1	1.32	3.94	7.87	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	3.94	UN	1	0.882	1.97	3.94	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	9.55		1	0.52	0.787	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	90.4		1	0.63	3.94	7.87	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.472	U	1	0.094	0.236	0.472	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.957	N	1	0.094	0.236	0.472	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	13100		1	1.68	78.7	157	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	18.8		1	0.205	0.394	0.787	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	13.5	N	1	0.897	1.18	2.36	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	38.5	N	1	0.504	0.787	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	31700		1	2.09	3.94	7.87	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	82.1		1	0.189	0.472	0.945	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	6240		1	7.21	78.7	157	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	474		1	0.299	0.787	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.047		1	0.008	0.008	0.017	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	36.7		1	0.724	1.57	3.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1760		1	5.51	78.7	157	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.13	JN	1	0.646	0.787	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.787	U	1	0.236	0.394	0.787	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	67.2	J	1	3.97	78.7	157	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	3.15	UN	1	0.425	1.57	3.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	20.2		1	0.929	1.57	3.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	198		1	1.1	1.57	3.15	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-SS-58	SDG No.:	F1488
Lab Sample ID:	F1488-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	45.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12600		1	1.53	4.55	9.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	4.55	UN	1	1.02	2.28	4.55	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	10.53		1	0.601	0.91	1.82	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	98.2		1	0.728	4.55	9.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.546	U	1	0.109	0.273	0.546	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.33	N	1	0.109	0.273	0.546	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	18800		1	1.95	91.0	182	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	21.7		1	0.237	0.455	0.91	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	15	N	1	1.04	1.37	2.73	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	43.8	N	1	0.583	0.91	1.82	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	34800		1	2.42	4.55	9.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	101		1	0.219	0.546	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	7560		1	8.34	91.0	182	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	571		1	0.346	0.91	1.82	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.064		1	0.01	0.01	0.02	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	40.7		1	0.838	1.82	3.64	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	2160		1	6.37	91.0	182	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	0.967	JN	1	0.747	0.91	1.82	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.91	U	1	0.273	0.455	0.91	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	77.6	J	1	4.59	91.0	182	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	3.64	UN	1	0.492	1.82	3.64	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	24.1		1	1.07	1.82	3.64	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	260		1	1.27	1.82	3.64	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-SS-59	SDG No.:	F1488
Lab Sample ID:	F1488-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	55.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	11900		1	1.24	3.68	7.37	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	3.68	UN	1	0.825	1.84	3.68	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	12		1	0.486	0.737	1.47	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	79		1	0.589	3.68	7.37	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.442	U	1	0.088	0.221	0.442	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.38	N	1	0.088	0.221	0.442	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	14100		1	1.58	73.7	147	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	20.2		1	0.192	0.368	0.737	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	13.9	N	1	0.84	1.11	2.21	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	38.8	N	1	0.472	0.737	1.47	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	35000		1	1.96	3.68	7.37	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	71.7		1	0.177	0.442	0.884	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	7690		1	6.75	73.7	147	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	551		1	0.28	0.737	1.47	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.063		1	0.008	0.008	0.016	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	38.4		1	0.678	1.47	2.95	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1830		1	5.16	73.7	147	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.22	JN	1	0.604	0.737	1.47	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.344	J	1	0.221	0.368	0.737	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	88.8	J	1	3.71	73.7	147	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.95	UN	1	0.398	1.47	2.95	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.9		1	0.869	1.47	2.95	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	245		1	1.03	1.47	2.95	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.
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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-SS-60	SDG No.:	F1488
Lab Sample ID:	F1488-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	50.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	13600		1	1.41	4.2	8.41	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	4.2	UN	1	0.942	2.1	4.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	9.13		1	0.555	0.841	1.68	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	108		1	0.673	4.2	8.41	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.504	U	1	0.101	0.252	0.504	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.29	N	1	0.101	0.252	0.504	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	6470		1	1.8	84.1	168	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	23.9		1	0.219	0.42	0.841	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	15.1	N	1	0.958	1.26	2.52	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	41.9	N	1	0.538	0.841	1.68	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	34500		1	2.24	4.2	8.41	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	72.4		1	0.202	0.504	1.01	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4570		1	7.7	84.1	168	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	583		1	0.319	0.841	1.68	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.058		1	0.009	0.009	0.018	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	43.8		1	0.773	1.68	3.36	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1770		1	5.89	84.1	168	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.59	JN	1	0.689	0.841	1.68	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.325	J	1	0.252	0.42	0.841	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	44.4	J	1	4.24	84.1	168	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	3.36	UN	1	0.454	1.68	3.36	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	24		1	0.992	1.68	3.36	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	265		1	1.18	1.68	3.36	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-SS-DUPLICATE022414	SDG No.:	F1488
Lab Sample ID:	F1488-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	55.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12700		1	1.32	3.92	7.84	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	1.29	JN	1	0.878	1.96	3.92	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	21.3		1	0.518	0.784	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	389		1	0.627	3.92	7.84	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.471	U	1	0.094	0.235	0.471	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	10.65	N	1	0.094	0.235	0.471	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	42600		1	1.68	78.4	157	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	70.5		1	0.204	0.392	0.784	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	23.3	N	1	0.894	1.18	2.35	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	328	N	1	0.502	0.784	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	126000	D	10	20.9	39.2	78.4	mg/Kg	02/25/14	02/26/14	SW6010
7439-92-1	Lead	1360		1	0.188	0.471	0.941	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	5110		1	7.18	78.4	157	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	959		1	0.298	0.784	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.145		1	0.008	0.008	0.016	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	86.2		1	0.722	1.57	3.14	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1580		1	5.49	78.4	157	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	2.34	N	1	0.643	0.784	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	1.94		1	0.235	0.392	0.784	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	380		1	3.95	78.4	157	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	3.14	UN	1	0.423	1.57	3.14	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	22.2		1	0.925	1.57	3.14	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	3.14	U	1	1.1	1.57	3.14	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-55(0-1)	SDG No.:	F1488
Lab Sample ID:	F1488-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	59

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	10000		1	1.17	3.49	6.97	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	19	N	1	0.781	1.74	3.49	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	18.4		1	0.46	0.697	1.39	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	300		1	0.558	3.49	6.97	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.418	U	1	0.084	0.209	0.418	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	6.67	N	1	0.084	0.209	0.418	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	33600		1	1.49	69.7	139	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	39.1		1	0.181	0.349	0.697	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	15.4	N	1	0.795	1.05	2.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	205	N	1	0.446	0.697	1.39	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	76200	D	10	18.6	34.9	69.7	mg/Kg	02/25/14	02/26/14	SW6010
7439-92-1	Lead	1780		1	0.167	0.418	0.837	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4460		1	6.39	69.7	139	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	712		1	0.265	0.697	1.39	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.173		1	0.008	0.008	0.017	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	57.2		1	0.642	1.39	2.79	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1430		1	4.88	69.7	139	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.6	N	1	0.572	0.697	1.39	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	1.28		1	0.209	0.349	0.697	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	145		1	3.52	69.7	139	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.79	UN	1	0.377	1.39	2.79	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	18.2		1	0.823	1.39	2.79	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	2.79	U	1	0.976	1.39	2.79	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-55(1-2)	SDG No.:	F1488
Lab Sample ID:	F1488-11	Matrix:	SOIL
Level (low/med):	low	% Solid:	95.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	3460		1	0.735	2.19	4.37	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.19	UN	1	0.49	1.09	2.19	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.33		1	0.289	0.437	0.874	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	72.1		1	0.35	2.19	4.37	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.262	U	1	0.052	0.131	0.262	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.87	N	1	0.052	0.131	0.262	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	109000		1	0.936	43.7	87.4	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	12.4		1	0.114	0.219	0.437	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	5.21	N	1	0.498	0.656	1.31	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	89.3	N	1	0.28	0.437	0.874	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	28000		1	1.16	2.19	4.37	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	339		1	0.105	0.262	0.525	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4220		1	4	43.7	87.4	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	234		1	0.166	0.437	0.874	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.061		1	0.005	0.005	0.01	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	24.6		1	0.402	0.874	1.75	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	516		1	3.06	43.7	87.4	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	0.874	UN	1	0.359	0.437	0.874	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.348	J	1	0.131	0.219	0.437	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	159		1	2.2	43.7	87.4	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	1.75	UN	1	0.236	0.874	1.75	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	6.16		1	0.516	0.874	1.75	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	284		1	0.612	0.874	1.75	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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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-55(2-3)	SDG No.:	F1488
Lab Sample ID:	F1488-12	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	11700		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	42.2		1	0.351	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	787		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	47.5	N	1	0.064	0.16	0.319	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	36700		1	1.14	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	132		1	0.138	0.266	0.532	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	32.6	N	1	0.607	0.798	1.6	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	484	N	1	0.341	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	242000	D	10	14.2	26.6	53.2	mg/Kg	02/25/14	02/26/14	SW6010
7439-92-1	Lead	8210		1	0.128	0.319	0.638	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	1960		1	4.87	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	1310		1	0.202	0.532	1.06	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.199		1	0.006	0.006	0.011	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	245		1	0.49	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	771		1	3.72	53.2	106	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.06	UN	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	904		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	19.8		1	0.628	1.06	2.13	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	2.13	U	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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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-55(10-11)	SDG No.:	F1488
Lab Sample ID:	F1488-13	Matrix:	SOIL
Level (low/med):	low	% Solid:	70.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	7190		1	1	2.99	5.98	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.99	UN	1	0.669	1.49	2.99	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	4		1	0.394	0.598	1.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	47.6		1	0.478	2.99	5.98	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.359	U	1	0.072	0.179	0.359	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.165	JN	1	0.072	0.179	0.359	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	1790		1	1.28	59.8	120	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	11.7		1	0.155	0.299	0.598	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	6.84	N	1	0.681	0.897	1.79	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	17.2	N	1	0.383	0.598	1.2	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	13100		1	1.59	2.99	5.98	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	10.88		1	0.143	0.359	0.717	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	2630		1	5.47	59.8	120	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	103		1	0.227	0.598	1.2	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.018		1	0.006	0.006	0.013	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	23.9		1	0.55	1.2	2.39	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	792		1	4.18	59.8	120	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	0.653	JN	1	0.49	0.598	1.2	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.598	U	1	0.179	0.299	0.598	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	45.1	J	1	3.01	59.8	120	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.39	UN	1	0.323	1.2	2.39	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	14.3		1	0.705	1.2	2.39	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	63		1	0.837	1.2	2.39	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-56(0-1)	SDG No.:	F1488
Lab Sample ID:	F1488-14	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	10200		1	0.945	2.81	5.62	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.81	UN	1	0.63	1.41	2.81	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	9.8		1	0.371	0.562	1.12	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	117		1	0.45	2.81	5.62	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.337	U	1	0.067	0.169	0.337	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	2.09	N	1	0.067	0.169	0.337	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	32700		1	1.2	56.2	112	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	18.3		1	0.146	0.281	0.562	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	12	N	1	0.641	0.844	1.69	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	55.4	N	1	0.36	0.562	1.12	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	38300		1	1.5	2.81	5.62	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	141		1	0.135	0.337	0.675	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	5160		1	5.15	56.2	112	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	430		1	0.214	0.562	1.12	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.053		1	0.006	0.006	0.013	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	35.1		1	0.517	1.12	2.25	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	792		1	3.94	56.2	112	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.2	N	1	0.461	0.562	1.12	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.376	J	1	0.169	0.281	0.562	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	82.3	J	1	2.83	56.2	112	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.25	UN	1	0.304	1.12	2.25	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	16.5		1	0.664	1.12	2.25	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	357		1	0.787	1.12	2.25	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-56(1-2)	SDG No.:	F1488
Lab Sample ID:	F1488-15	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	13200		1	0.913	2.72	5.44	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.72	UN	1	0.609	1.36	2.72	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	7.06		1	0.359	0.544	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	106		1	0.435	2.72	5.44	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.326	U	1	0.065	0.163	0.326	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.15	N	1	0.065	0.163	0.326	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	6700		1	1.16	54.4	109	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	19.3		1	0.141	0.272	0.544	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	16.8	N	1	0.62	0.816	1.63	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	29.2	N	1	0.348	0.544	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	34200		1	1.45	2.72	5.44	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	56		1	0.13	0.326	0.652	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4450		1	4.98	54.4	109	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	518		1	0.207	0.544	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.046		1	0.006	0.006	0.013	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	45.8		1	0.5	1.09	2.17	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	758		1	3.81	54.4	109	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.33	N	1	0.446	0.544	1.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.519	J	1	0.163	0.272	0.544	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	38.6	J	1	2.74	54.4	109	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.17	UN	1	0.294	1.09	2.17	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21		1	0.642	1.09	2.17	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	161		1	0.761	1.09	2.17	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-56(2-3)	SDG No.:	F1488
Lab Sample ID:	F1488-18	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	13700		1	0.903	2.69	5.38	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.69	UN	1	0.602	1.34	2.69	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.87		1	0.355	0.538	1.08	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	105		1	0.43	2.69	5.38	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.323	U	1	0.065	0.161	0.323	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.68	N	1	0.065	0.161	0.323	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	2950		1	1.15	53.8	108	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	19.9		1	0.14	0.269	0.538	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	16.6	N	1	0.613	0.807	1.61	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	25.6	N	1	0.344	0.538	1.08	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	34500		1	1.43	2.69	5.38	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	17.7		1	0.129	0.323	0.645	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4620		1	4.93	53.8	108	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	480		1	0.204	0.538	1.08	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.035		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	46.3		1	0.495	1.08	2.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	801		1	3.76	53.8	108	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.46	N	1	0.441	0.538	1.08	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.55		1	0.161	0.269	0.538	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	33.8	J	1	2.71	53.8	108	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.15	UN	1	0.29	1.08	2.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.5		1	0.635	1.08	2.15	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	110		1	0.753	1.08	2.15	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-56(3-4)	SDG No.:	F1488
Lab Sample ID:	F1488-19	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9220		1	0.881	2.62	5.24	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.62	UN	1	0.587	1.31	2.62	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	5.25		1	0.346	0.524	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	66		1	0.419	2.62	5.24	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.315	U	1	0.063	0.157	0.315	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.525	N	1	0.063	0.157	0.315	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	1830		1	1.12	52.4	105	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	13.3		1	0.136	0.262	0.524	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	12.7	N	1	0.598	0.786	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	20.4	N	1	0.336	0.524	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	23800		1	1.39	2.62	5.24	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	14.3		1	0.126	0.315	0.629	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	3090		1	4.8	52.4	105	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	383		1	0.199	0.524	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.031		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	33.7		1	0.482	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	653		1	3.67	52.4	105	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	0.639	JN	1	0.43	0.524	1.05	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.235	J	1	0.157	0.262	0.524	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	33.9	J	1	2.64	52.4	105	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.1	UN	1	0.283	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	16.5		1	0.619	1.05	2.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	75.2		1	0.734	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.
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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-57(0-1)	SDG No.:	F1488
Lab Sample ID:	F1488-20	Matrix:	SOIL
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12100		1	0.876	2.61	5.21	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.61	UN	1	0.584	1.3	2.61	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	9.48		1	0.344	0.521	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	89.1		1	0.417	2.61	5.21	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.313	U	1	0.063	0.156	0.313	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	1.38	N	1	0.063	0.156	0.313	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	17400		1	1.12	52.1	104	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	19.5		1	0.136	0.261	0.521	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	15.5	N	1	0.594	0.782	1.56	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	34.4	N	1	0.334	0.521	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	34000		1	1.39	2.61	5.21	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	79.5		1	0.125	0.313	0.625	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	7240		1	4.77	52.1	104	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	443		1	0.198	0.521	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.032		1	0.006	0.006	0.013	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	41		1	0.479	1.04	2.08	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	1430		1	3.65	52.1	104	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.06	N	1	0.427	0.521	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.322	J	1	0.156	0.261	0.521	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	69.1	J	1	2.63	52.1	104	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.08	UN	1	0.281	1.04	2.08	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.3		1	0.615	1.04	2.08	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	193		1	0.73	1.04	2.08	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-57(1-2)	SDG No.:	F1488
Lab Sample ID:	F1488-21	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	15200		1	0.921	2.74	5.48	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.74	UN	1	0.614	1.37	2.74	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	6.77		1	0.362	0.548	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	111		1	0.439	2.74	5.48	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.329	U	1	0.066	0.165	0.329	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.654	N	1	0.066	0.165	0.329	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	3160		1	1.17	54.8	110	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	22		1	0.143	0.274	0.548	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	16.5	N	1	0.625	0.823	1.65	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	23.1	N	1	0.351	0.548	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	36900		1	1.46	2.74	5.48	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	18.3		1	0.132	0.329	0.658	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	5120		1	5.02	54.8	110	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	571		1	0.208	0.548	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.048		1	0.006	0.006	0.012	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	48.2		1	0.504	1.1	2.19	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	928		1	3.84	54.8	110	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.52	N	1	0.45	0.548	1.1	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.603		1	0.165	0.274	0.548	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	35.7	J	1	2.76	54.8	110	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.19	UN	1	0.296	1.1	2.19	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	24		1	0.647	1.1	2.19	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	121		1	0.768	1.1	2.19	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-57(2-3)	SDG No.:	F1488
Lab Sample ID:	F1488-22	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	12800		1	0.878	2.61	5.22	mg/Kg	02/25/14	02/25/14	SW6010
7440-36-0	Antimony	2.61	UN	1	0.585	1.31	2.61	mg/Kg	02/25/14	02/25/14	SW6010
7440-38-2	Arsenic	7.79		1	0.345	0.522	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7440-39-3	Barium	89.7		1	0.418	2.61	5.22	mg/Kg	02/25/14	02/25/14	SW6010
7440-41-7	Beryllium	0.313	U	1	0.063	0.157	0.313	mg/Kg	02/25/14	02/25/14	SW6010
7440-43-9	Cadmium	0.91	N	1	0.063	0.157	0.313	mg/Kg	02/25/14	02/25/14	SW6010
7440-70-2	Calcium	3520		1	1.12	52.2	104	mg/Kg	02/25/14	02/25/14	SW6010
7440-47-3	Chromium	18.6		1	0.136	0.261	0.522	mg/Kg	02/25/14	02/25/14	SW6010
7440-48-4	Cobalt	20.1	N	1	0.596	0.784	1.57	mg/Kg	02/25/14	02/25/14	SW6010
7440-50-8	Copper	23	N	1	0.334	0.522	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7439-89-6	Iron	35500		1	1.39	2.61	5.22	mg/Kg	02/25/14	02/25/14	SW6010
7439-92-1	Lead	21.5		1	0.125	0.313	0.627	mg/Kg	02/25/14	02/25/14	SW6010
7439-95-4	Magnesium	4420		1	4.79	52.2	104	mg/Kg	02/25/14	02/25/14	SW6010
7439-96-5	Manganese	634		1	0.199	0.522	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7439-97-6	Mercury	0.04		1	0.006	0.006	0.011	mg/Kg	02/25/14	02/26/14	SW7471A
7440-02-0	Nickel	42.3		1	0.481	1.04	2.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-09-7	Potassium	802		1	3.66	52.2	104	mg/Kg	02/25/14	02/25/14	SW6010
7782-49-2	Selenium	1.41	N	1	0.428	0.522	1.04	mg/Kg	02/25/14	02/25/14	SW6010
7440-22-4	Silver	0.472	J	1	0.157	0.261	0.522	mg/Kg	02/25/14	02/25/14	SW6010
7440-23-5	Sodium	36.2	J	1	2.63	52.2	104	mg/Kg	02/25/14	02/25/14	SW6010
7440-28-0	Thallium	2.09	UN	1	0.282	1.04	2.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-62-2	Vanadium	21.4		1	0.616	1.04	2.09	mg/Kg	02/25/14	02/25/14	SW6010
7440-66-6	Zinc	107		1	0.731	1.04	2.09	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.
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METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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	1003	109.2	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	1003	106.8	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals

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CRDL STANDARD FOR AA & ICP

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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	0.2125	0.2	106.3	40 - 160	CV	02/26/2014	14:32	LB69944

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB75153BL		**SOLID**		**Batch Number:**		**PB75153**		**Prep Date:**	**02/25/2014**	
	Mercury	0.01	<0.01	U	0.005	0.01	CV	02/26/2014	15:42	LB69944

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PREPARATION BLANK SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB75149BL		**SOLID**		**Batch Number:**		**PB75149**		**Prep Date:**	**02/25/2014**	
	Aluminum	5.0	<5.0	U	2.5	5.0	P	02/25/2014	19:36	LB69931
	Antimony	2.5	<2.5	U	1.25	2.5	P	02/25/2014	19:36	LB69931
	Arsenic	1.0	<1.0	U	0.5	1.0	P	02/25/2014	19:36	LB69931
	Barium	5.0	<5.0	U	2.5	5.0	P	02/25/2014	19:36	LB69931
	Beryllium	0.3	<0.3	U	0.15	0.3	P	02/25/2014	19:36	LB69931
	Cadmium	0.3	<0.3	U	0.15	0.3	P	02/25/2014	19:36	LB69931
	Calcium	1.21	<100	J	50.0	100	P	02/25/2014	19:36	LB69931
	Chromium	0.5	<0.5	U	0.25	0.5	P	02/25/2014	19:36	LB69931
	Cobalt	1.5	<1.5	U	0.75	1.5	P	02/25/2014	19:36	LB69931
	Copper	1.0	<1.0	U	0.5	1.0	P	02/25/2014	19:36	LB69931
	Iron	5.0	<5.0	U	2.5	5.0	P	02/25/2014	19:36	LB69931
	Lead	0.6	<0.6	U	0.3	0.6	P	02/25/2014	19:36	LB69931
	Magnesium	100	<100	U	50.0	100	P	02/25/2014	19:36	LB69931
	Manganese	1.0	<1.0	U	0.5	1.0	P	02/25/2014	19:36	LB69931
	Nickel	2.0	<2.0	U	1.0	2.0	P	02/25/2014	19:36	LB69931
	Potassium	100	<100	U	50.0	100	P	02/25/2014	19:36	LB69931
	Selenium	1.0	<1.0	U	0.5	1.0	P	02/25/2014	19:36	LB69931
	Silver	0.5	<0.5	U	0.25	0.5	P	02/25/2014	19:36	LB69931
	Sodium	100	<100	U	50.0	100	P	02/25/2014	19:36	LB69931
	Thallium	2.0	<2.0	U	1.0	2.0	P	02/25/2014	19:36	LB69931
	Vanadium	2.0	<2.0	U	1.0	2.0	P	02/25/2014	19:36	LB69931
	Zinc	2.0	<2.0	U	1.0	2.0	P	02/25/2014	19:36	LB69931

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Metals
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INTERFERENCE CHECK SAMPLE

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals
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INTERFERENCE CHECK SAMPLE

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1488

contract: EAEN05 **lab code:** CHEM **case no.:** F1488 **sas no.:** F1488

matrix: Solid **sample id:** F1488-02 **client id:** 915206-SS-56MS

Percent Solids for Sample: 58.9 **Spiked ID:** F1488-03 **Percent Solids for Spike Sample:** 58.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	11500		10400		170	647		P
Antimony	mg/Kg	47 - 131	23.3		3.54	U	66.6	35	N	P
Arsenic	mg/Kg	73 - 117	76.7		8.4		66.6	103		P
Barium	mg/Kg	39 - 158	122		103		16.6	114		P
Beryllium	mg/Kg	79 - 112	16.3		0.424	U	16.6	98.2		P
Cadmium	mg/Kg	73 - 114	21.7		1.53		16.6	122	N	P
Calcium	mg/Kg	10 - 194	17200		15500		83.2	2043		P
Chromium	mg/Kg	68 - 122	55.3		19.9		33.3	106		P
Cobalt	mg/Kg	68 - 119	32.8		12.9		16.6	120	N	P
Copper	mg/Kg	59 - 132	181		49.5		25	526	N	P
Iron	mg/Kg	10 - 289	34800		32000		250	1120		P
Lead	mg/Kg	66 - 125	250		151		83.2	119		P
Magnesium	mg/Kg	10 - 208	4720		4330		170	229		P
Manganese	mg/Kg	10 - 205	532		499		16.6	199		P
Mercury	mg/Kg	34 - 153	0.365		0.07		0.34	87		CV
Nickel	mg/Kg	64 - 129	89.2		39.9		41.6	119		P
Potassium	mg/Kg	37 - 158	2260		1310		830	114		P
Selenium	mg/Kg	69 - 105	177		1.09	J	170	103		P
Silver	mg/Kg	54 - 131	7.71		0.428	J	6.2	117		P
Sodium	mg/Kg	10 - 139	333		58.2	J	250	110		P
Thallium	mg/Kg	74 - 116	201		2.83	U	170	118.2	N	P
Vanadium	mg/Kg	67 - 127	45.2		18.5		25	107		P
Zinc	mg/Kg	67 - 127	316		279		16.6	223		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1488

contract: EAEN05 **lab code:** CHEM **case no.:** F1488 **sas no.:** F1488

matrix: Solid **sample id:** F1488-02 **client id:** 915206-SS-56MSD

Percent Solids for Sample: 58.9 **Spiked ID:** F1488-04 **Percent Solids for Spike Sample:** 58.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	11500		10400		160	688		P
Antimony	mg/Kg	47 - 131	23.1		3.54	U	65.9	35.1	N	P
Arsenic	mg/Kg	73 - 117	75.8		8.4		65.9	102		P
Barium	mg/Kg	39 - 158	121		103		16.5	109		P
Beryllium	mg/Kg	79 - 112	16		0.424	U	16.5	97		P
Cadmium	mg/Kg	73 - 114	21.6		1.53		16.5	122	N	P
Calcium	mg/Kg	10 - 194	17000		15500		82.4	1820		P
Chromium	mg/Kg	68 - 122	55.7		19.9		33	108		P
Cobalt	mg/Kg	68 - 119	32.7		12.9		16.5	120	N	P
Copper	mg/Kg	59 - 132	184		49.5		24.7	545	N	P
Iron	mg/Kg	10 - 289	34300		32000		250	920		P
Lead	mg/Kg	66 - 125	250		151		82.4	120		P
Magnesium	mg/Kg	10 - 208	4680		4330		160	219		P
Manganese	mg/Kg	10 - 205	532		499		16.5	200		P
Mercury	mg/Kg	34 - 153	0.369		0.07		0.34	88		CV
Nickel	mg/Kg	64 - 129	89		39.9		41.2	119		P
Potassium	mg/Kg	37 - 158	2240		1310		820	113		P
Selenium	mg/Kg	69 - 105	174		1.09	J	160	108	N	P
Silver	mg/Kg	54 - 131	7.52		0.428	J	6.2	114		P
Sodium	mg/Kg	10 - 139	328		58.2	J	250	108		P
Thallium	mg/Kg	74 - 116	201		2.83	U	160	125.6	N	P
Vanadium	mg/Kg	67 - 127	44.8		18.5		24.7	106		P
Zinc	mg/Kg	67 - 127	311		279		16.5	194		P

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metals
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MATRIX SPIKE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1488

contract: EAEN05 **lab code:** CHEM **case no.:** F1488 **sas no.:** F1488

matrix: Solid **sample id:** F1488-15 **client id:** 915206-SB-56(1-2)MS

Percent Solids for Sample: 77.6 **Spiked ID:** F1488-16 **Percent Solids for Spike Sample:** 77.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	14100		13200		130	692		P
Antimony	mg/Kg	47 - 131	13.4		2.72	U	50.3	26.6	N	P
Arsenic	mg/Kg	73 - 117	49.6		7.06		50.3	85		P
Barium	mg/Kg	39 - 158	116		106		12.6	79		P
Beryllium	mg/Kg	79 - 112	10.14		0.326	U	12.6	80.5		P
Cadmium	mg/Kg	73 - 114	15.6		1.15		12.6	115	N	P
Calcium	mg/Kg	10 - 194	4110		6700		62.9	-4118		P
Chromium	mg/Kg	68 - 122	43.1		19.3		25.1	95		P
Cobalt	mg/Kg	68 - 119	30.5		16.8		12.6	109		P
Copper	mg/Kg	59 - 132	44.6		29.2		18.9	81		P
Iron	mg/Kg	10 - 289	33600		34200		190	-316		P
Lead	mg/Kg	66 - 125	113		56		62.9	91		P
Magnesium	mg/Kg	10 - 208	4620		4450		130	131		P
Manganese	mg/Kg	10 - 205	528		518		12.6	79		P
Mercury	mg/Kg	34 - 153	0.291		0.046		0.26	94		CV
Nickel	mg/Kg	64 - 129	83.1		45.8		31.4	119		P
Potassium	mg/Kg	37 - 158	1330		758		630	91		P
Selenium	mg/Kg	69 - 105	109		1.33		130	83		P
Silver	mg/Kg	54 - 131	5.09		0.519	J	4.7	97		P
Sodium	mg/Kg	10 - 139	205		38.6	J	190	88		P
Thallium	mg/Kg	74 - 116	143		2.17	U	130	110		P
Vanadium	mg/Kg	67 - 127	39.2		21		18.9	96		P
Zinc	mg/Kg	67 - 127	160		161		12.6	-8		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: EA Engineering Science & Technology **level:** low **sdg no.:** F1488

contract: EAEN05 **lab code:** CHEM **case no.:** F1488 **sas no.:** F1488

matrix: Solid **sample id:** F1488-15 **client id:** 915206-SB-56(1-2)MSD

Percent Solids for Sample: 77.6 **Spiked ID:** F1488-17 **Percent Solids for Spike Sample:** 77.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	10 - 240	14200		13200		120	833		P
Antimony	mg/Kg	47 - 131	13.3		2.72	U	49.8	26.7	N	P
Arsenic	mg/Kg	73 - 117	49.3		7.06		49.8	85		P
Barium	mg/Kg	39 - 158	115		106		12.5	72		P
Beryllium	mg/Kg	79 - 112	10.03		0.326	U	12.5	80.2		P
Cadmium	mg/Kg	73 - 114	15.6		1.15		12.5	116	N	P
Calcium	mg/Kg	10 - 194	4070		6700		62.3	-4222		P
Chromium	mg/Kg	68 - 122	43.2		19.3		24.9	96		P
Cobalt	mg/Kg	68 - 119	30.5		16.8		12.5	110		P
Copper	mg/Kg	59 - 132	44		29.2		18.7	79		P
Iron	mg/Kg	10 - 289	33700		34200		190	-263		P
Lead	mg/Kg	66 - 125	113		56		62.3	91		P
Magnesium	mg/Kg	10 - 208	4600		4450		120	125		P
Manganese	mg/Kg	10 - 205	523		518		12.5	40		P
Mercury	mg/Kg	34 - 153	0.288		0.046		0.26	93		CV
Nickel	mg/Kg	64 - 129	83.2		45.8		31.1	120		P
Potassium	mg/Kg	37 - 158	1320		758		620	91		P
Selenium	mg/Kg	69 - 105	108		1.33		120	89		P
Silver	mg/Kg	54 - 131	5.13		0.519	J	4.7	98		P
Sodium	mg/Kg	10 - 139	203		38.6	J	190	87		P
Thallium	mg/Kg	74 - 116	142		2.17	U	120	118.3	N	P
Vanadium	mg/Kg	67 - 127	39		21		18.7	96		P
Zinc	mg/Kg	67 - 127	159		161		12.5	-16		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Level:** LOW **Client ID:** 915206-SS-56A

Sample ID: F1488-02 **Spiked ID:** F1488-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	47 - 131	50.1		3.54	U	56.6	88.5		P
Cadmium	mg/Kg	73 - 114	15.3		1.53		14.1	98		P
Cobalt	mg/Kg	68 - 119	26.8		12.9		14.1	99		P
Copper	mg/Kg	59 - 132	66		49.5		21.2	78		P
Selenium	mg/Kg	69 - 105	124		1.09	J	140	88		P
Thallium	mg/Kg	74 - 116	142		2.83	U	140	101.4		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Level:** LOW **Client ID:** 915206-SB-56(1-2)A

Sample ID: F1488-15 **Spiked ID:** F1488-15A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	47 - 131	34.2		2.72	U	43.5	78.6		P
Cadmium	mg/Kg	73 - 114	12.3		1.15		10.9	102		P
Thallium	mg/Kg	74 - 116	110		2.17	U	110	100		P

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Sample ID:** F1488-02 **Client ID:** 915206-SS-56DUP

Percent Solids for Sample: 58.9 **Duplicate ID** F1488-02DUP **Percent Solids for Spike Sample:** 58.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	10400		10600		2		P
Antimony	mg/Kg	20	3.54	U	3.51	U			P
Arsenic	mg/Kg	20	8.4		8.62		3		P
Barium	mg/Kg	20	103		103		0		P
Beryllium	mg/Kg	20	0.424	U	0.421	U			P
Cadmium	mg/Kg	20	1.53		1.35		12		P
Calcium	mg/Kg	20	15500		15400		1		P
Chromium	mg/Kg	20	19.9		20.2		1		P
Cobalt	mg/Kg	20	12.9		13		1		P
Copper	mg/Kg	20	49.5		49.5		0		P
Iron	mg/Kg	20	32000		33300		4		P
Lead	mg/Kg	20	151		152		1		P
Magnesium	mg/Kg	20	4330		4340		0		P
Manganese	mg/Kg	20	499		502		1		P
Mercury	mg/Kg	20	0.07		0.064		9		CV
Nickel	mg/Kg	20	39.9		40.6		2		P
Potassium	mg/Kg	20	1310		1320		1		P
Selenium	mg/Kg	20	1.09	J	1.22	J	11		P
Silver	mg/Kg	20	0.428	J	0.525	J	20		P
Sodium	mg/Kg	20	58.2	J	58.7	J	1		P
Thallium	mg/Kg	20	2.83	U	2.81	U			P
Vanadium	mg/Kg	20	18.5		18.5		0		P
Zinc	mg/Kg	20	279		287		3		P

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

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Sample ID:** F1488-03 **Client ID:** 915206-SS-56MSD

Percent Solids for Sample: 58.9 **Duplicate ID** F1488-04 **Percent Solids for Spike Sample:** 58.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11500		11500		0		P
Antimony	mg/Kg	20	23.3		23.1		1		P
Arsenic	mg/Kg	20	76.7		75.8		1		P
Barium	mg/Kg	20	122		121		1		P
Beryllium	mg/Kg	20	16.3		16		2		P
Cadmium	mg/Kg	20	21.7		21.6		0		P
Calcium	mg/Kg	20	17200		17000		1		P
Chromium	mg/Kg	20	55.3		55.7		1		P
Cobalt	mg/Kg	20	32.8		32.7		0		P
Copper	mg/Kg	20	181		184		2		P
Iron	mg/Kg	20	34800		34300		1		P
Lead	mg/Kg	20	250		250		0		P
Magnesium	mg/Kg	20	4720		4680		1		P
Manganese	mg/Kg	20	532		532		0		P
Mercury	mg/Kg	20	0.365		0.369		1		CV
Nickel	mg/Kg	20	89.2		89		0		P
Potassium	mg/Kg	20	2260		2240		1		P
Selenium	mg/Kg	20	177		174		2		P
Silver	mg/Kg	20	7.71		7.52		2		P
Sodium	mg/Kg	20	333		328		2		P
Thallium	mg/Kg	20	201		201		0		P
Vanadium	mg/Kg	20	45.2		44.8		1		P
Zinc	mg/Kg	20	316		311		2		P

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

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Sample ID:** F1488-15 **Client ID:** 915206-SB-56(1-2)DUP

Percent Solids for Sample: 77.6 **Duplicate ID** F1488-15DUP **Percent Solids for Spike Sample:** 77.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	13200		13300		1		P
Antimony	mg/Kg	20	2.72	U	2.72	U			P
Arsenic	mg/Kg	20	7.06		7.07		0		P
Barium	mg/Kg	20	106		106		0		P
Beryllium	mg/Kg	20	0.326	U	0.326	U			P
Cadmium	mg/Kg	20	1.15		1.07		7		P
Calcium	mg/Kg	20	6700		6830		2		P
Chromium	mg/Kg	20	19.3		19.6		2		P
Cobalt	mg/Kg	20	16.8		16.8		0		P
Copper	mg/Kg	20	29.2		29.2		0		P
Iron	mg/Kg	20	34200		34700		1		P
Lead	mg/Kg	20	56		57.3		2		P
Magnesium	mg/Kg	20	4450		4440		0		P
Manganese	mg/Kg	20	518		515		1		P
Mercury	mg/Kg	20	0.046		0.046		0		CV
Nickel	mg/Kg	20	45.8		46.3		1		P
Potassium	mg/Kg	20	758		758		0		P
Selenium	mg/Kg	20	1.33		1.14		15		P
Silver	mg/Kg	20	0.519	J	0.537	J	3		P
Sodium	mg/Kg	20	38.6	J	38.4	J	1		P
Thallium	mg/Kg	20	2.17	U	2.17	U			P
Vanadium	mg/Kg	20	21		21.1		0		P
Zinc	mg/Kg	20	161		163		1		P

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

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DUPLICATE SAMPLE SUMMARY

Client: EA Engineering Science & Technology **Level:** LOW **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Matrix: Solid **Sample ID:** F1488-16 **Client ID:** 915206-SB-56(1-2)MSD

Percent Solids for Sample: 77.6 **Duplicate ID** F1488-17 **Percent Solids for Spike Sample:** 77.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	14100		14200		1		P
Antimony	mg/Kg	20	13.4		13.3		1		P
Arsenic	mg/Kg	20	49.6		49.3		1		P
Barium	mg/Kg	20	116		115		1		P
Beryllium	mg/Kg	20	10.14		10.03		1		P
Cadmium	mg/Kg	20	15.6		15.6		0		P
Calcium	mg/Kg	20	4110		4070		1		P
Chromium	mg/Kg	20	43.1		43.2		0		P
Cobalt	mg/Kg	20	30.5		30.5		0		P
Copper	mg/Kg	20	44.6		44		1		P
Iron	mg/Kg	20	33600		33700		0		P
Lead	mg/Kg	20	113		113		0		P
Magnesium	mg/Kg	20	4620		4600		0		P
Manganese	mg/Kg	20	528		523		1		P
Mercury	mg/Kg	20	0.291		0.288		1		CV
Nickel	mg/Kg	20	83.1		83.2		0		P
Potassium	mg/Kg	20	1330		1320		1		P
Selenium	mg/Kg	20	109		108		1		P
Silver	mg/Kg	20	5.09		5.13		1		P
Sodium	mg/Kg	20	205		203		1		P
Thallium	mg/Kg	20	143		142		1		P
Vanadium	mg/Kg	20	39.2		39		1		P
Zinc	mg/Kg	20	160		159		1		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75149BS							
Aluminum	mg/Kg	100	86.4		86.4	76 - 118	P
Antimony	mg/Kg	40	40		100	81 - 112	P
Arsenic	mg/Kg	40	37.5		93.8	82 - 112	P
Barium	mg/Kg	10	9.37		93.7	83 - 118	P
Beryllium	mg/Kg	10	9.8		98	84 - 113	P
Cadmium	mg/Kg	10	9.67		96.7	82 - 117	P
Calcium	mg/Kg	50	48.2	J	96.4	78 - 138	P
Chromium	mg/Kg	20	18.5		92.5	84 - 115	P
Cobalt	mg/Kg	10	9.27		92.7	84 - 114	P
Copper	mg/Kg	15	14.5		96.7	80 - 115	P
Iron	mg/Kg	150	139		92.7	78 - 109	P
Lead	mg/Kg	50	47.7		95.4	82 - 117	P
Magnesium	mg/Kg	100	95.2	J	95.2	80 - 121	P
Manganese	mg/Kg	10	9.53		95.3	84 - 114	P
Nickel	mg/Kg	25	23.8		95.2	85 - 118	P
Potassium	mg/Kg	500	460		92	67 - 116	P
Selenium	mg/Kg	100	106		106	74 - 110	P
Silver	mg/Kg	3.8	3.34		87.9	81 - 123	P
Sodium	mg/Kg	150	137		91.3	70 - 135	P
Thallium	mg/Kg	100	96		96	86 - 119	P
Vanadium	mg/Kg	15	13.3		88.7	84 - 113	P
Zinc	mg/Kg	10	9.53		95.3	88 - 127	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB75153BS							
Mercury	mg/Kg	0.2	0.189		94.5	73 - 121	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

915206-SS-56L

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

Lab Code: CHEM **Lb No.:** lb69931 **Lab Sample ID :** F1488-02L **SDG No.:** F1488

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	10400		11700		13		P
Antimony	3.54	U	17.7	U			P
Arsenic	8.4		9.28		10		P
Barium	103		120		17		P
Beryllium	0.424	U	2.12	U			P
Cadmium	1.53		0.87	J	43		P
Calcium	15500		18100		17		P
Chromium	19.9		24.1		21		P
Cobalt	12.9		13.2		2		P
Copper	49.5		59.3		20		P
Iron	32000		33400		4		P
Lead	151		155		3		P
Magnesium	4330		5120		18		P
Manganese	499		624		25		P
Mercury	0.07		0.089		27		CV
Nickel	39.9		40.9		3		P
Potassium	1310		1480		13		P
Selenium	1.09	J	7.07	U	100.0		P
Silver	0.428	J	3.54	U	100.0		P
Sodium	58.2	J	65.6	J	13		P
Thallium	2.83	U	14.1	U			P
Vanadium	18.5		21.8		18		P
Zinc	279		280		0		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

915206-SB-56(1-2)L

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

Lab Code: CHEM **Lb No.:** lb69931 **Lab Sample ID :** F1488-15L **SDG No.:** F1488

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	13200		15500		17		P
Antimony	2.72	U	13.6	U			P
Arsenic	7.06		8.53		21		P
Barium	106		127		20		P
Beryllium	0.326	U	1.63	U			P
Cadmium	1.15		0.332	J	71		P
Calcium	6700		8240		23		P
Chromium	19.3		24		24		P
Cobalt	16.8		16.5		2		P
Copper	29.2		38		30		P
Iron	34200		35200		3		P
Lead	56		56.3		1		P
Magnesium	4450		5420		22		P
Manganese	518		677		31		P
Mercury	0.046		0.06	J	30		CV
Nickel	45.8		45.5		1		P
Potassium	758		884		17		P
Selenium	1.33		5.44	U	100.0		P
Silver	0.519	J	2.72	U	100.0		P
Sodium	38.6	J	43.3	J	12		P
Thallium	2.17	U	10.87	U			P
Vanadium	21		25.8		23		P
Zinc	161		161		0		P

METAL PREPARATION & INSTRUMENT DATA

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Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Instrument ID: P4 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
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	
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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Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

Instrument ID: CV1 **Preparation Method:**

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: EA Engineering Science & Technology **SDG No.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

Contract: EAEN05 **Lab Code:** CHEM **Case No.:** F1488 **SAS No.:** F1488

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.:** F1488

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

Case No.: F1488 **SAS No.:** F1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB75149**						
F1488-01	915206-SS-55	SAM	SOLID	02/25/2014	2.41	100.0	45.40
F1488-02	915206-SS-56	SAM	SOLID	02/25/2014	2.40	100.0	58.90
F1488-02DUP	915206-SS-56DUP	DUP	SOLID	02/25/2014	2.42	100.0	58.90
F1488-03	915206-SS-56MS	MS	SOLID	02/25/2014	2.04	100.0	58.90
F1488-04	915206-SS-56MSD	MSD	SOLID	02/25/2014	2.06	100.0	58.90
F1488-05	915206-SS-57	SAM	SOLID	02/25/2014	2.37	100.0	53.60
F1488-06	915206-SS-58	SAM	SOLID	02/25/2014	2.43	100.0	45.20
F1488-07	915206-SS-59	SAM	SOLID	02/25/2014	2.45	100.0	55.40
F1488-08	915206-SS-60	SAM	SOLID	02/25/2014	2.36	100.0	50.40
F1488-09	915206-SS-DUPLICATE022414	SAM	SOLID	02/25/2014	2.31	100.0	55.20
F1488-10	915206-SB-55(0-1)	SAM	SOLID	02/25/2014	2.43	100.0	59.00
F1488-11	915206-SB-55(1-2)	SAM	SOLID	02/25/2014	2.40	100.0	95.30
F1488-12	915206-SB-55(2-3)	SAM	SOLID	02/25/2014	2.46	100.0	76.40
F1488-13	915206-SB-55(10-11)	SAM	SOLID	02/25/2014	2.38	100.0	70.30
F1488-14	915206-SB-56(0-1)	SAM	SOLID	02/25/2014	2.30	100.0	77.30
F1488-15	915206-SB-56(1-2)	SAM	SOLID	02/25/2014	2.37	100.0	77.60
F1488-15DUP	915206-SB-56(1-2)DUP	DUP	SOLID	02/25/2014	2.37	100.0	77.60
F1488-16	915206-SB-56(1-2)MS	MS	SOLID	02/25/2014	2.05	100.0	77.60
F1488-17	915206-SB-56(1-2)MSD	MSD	SOLID	02/25/2014	2.07	100.0	77.60
F1488-18	915206-SB-56(2-3)	SAM	SOLID	02/25/2014	2.36	100.0	78.80
F1488-19	915206-SB-56(3-4)	SAM	SOLID	02/25/2014	2.43	100.0	78.50
F1488-20	915206-SB-57(0-1)	SAM	SOLID	02/25/2014	2.46	100.0	78.00
F1488-21	915206-SB-57(1-2)	SAM	SOLID	02/25/2014	2.35	100.0	77.60
F1488-22	915206-SB-57(2-3)	SAM	SOLID	02/25/2014	2.42	100.0	79.10
PB75149BL	PB75149BL	MB	SOLID	02/25/2014	2.00	100.0	100.00
PB75149BS	PB75149BS	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.:** F1488

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

Case No.: F1488 **SAS No.:** F1488

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB75153**						
F1488-01	915206-SS-55	SAM	SOLID	02/25/2014	0.67	30.0	45.40
F1488-02	915206-SS-56	SAM	SOLID	02/25/2014	0.60	30.0	58.90
F1488-02DUP	915206-SS-56DUP	DUP	SOLID	02/25/2014	0.60	30.0	58.90
F1488-03	915206-SS-56MS	MS	SOLID	02/25/2014	0.60	30.0	58.90
F1488-04	915206-SS-56MSD	MSD	SOLID	02/25/2014	0.60	30.0	58.90
F1488-05	915206-SS-57	SAM	SOLID	02/25/2014	0.67	30.0	53.60
F1488-06	915206-SS-58	SAM	SOLID	02/25/2014	0.65	30.0	45.20
F1488-07	915206-SS-59	SAM	SOLID	02/25/2014	0.66	30.0	55.40
F1488-08	915206-SS-60	SAM	SOLID	02/25/2014	0.66	30.0	50.40
F1488-09	915206-SS-DUPLICATE022414	SAM	SOLID	02/25/2014	0.66	30.0	55.20
F1488-10	915206-SB-55(0-1)	SAM	SOLID	02/25/2014	0.61	30.0	59.00
F1488-11	915206-SB-55(1-2)	SAM	SOLID	02/25/2014	0.63	30.0	95.30
F1488-12	915206-SB-55(2-3)	SAM	SOLID	02/25/2014	0.69	30.0	76.40
F1488-13	915206-SB-55(10-11)	SAM	SOLID	02/25/2014	0.67	30.0	70.30
F1488-14	915206-SB-56(0-1)	SAM	SOLID	02/25/2014	0.62	30.0	77.30
F1488-15	915206-SB-56(1-2)	SAM	SOLID	02/25/2014	0.60	30.0	77.60
F1488-15DUP	915206-SB-56(1-2)DUP	DUP	SOLID	02/25/2014	0.60	30.0	77.60
F1488-16	915206-SB-56(1-2)MS	MS	SOLID	02/25/2014	0.60	30.0	77.60
F1488-17	915206-SB-56(1-2)MSD	MSD	SOLID	02/25/2014	0.60	30.0	77.60
F1488-18	915206-SB-56(2-3)	SAM	SOLID	02/25/2014	0.61	30.0	78.80
F1488-19	915206-SB-56(3-4)	SAM	SOLID	02/25/2014	0.62	30.0	78.50
F1488-20	915206-SB-57(0-1)	SAM	SOLID	02/25/2014	0.61	30.0	78.00
F1488-21	915206-SB-57(1-2)	SAM	SOLID	02/25/2014	0.63	30.0	77.60
F1488-22	915206-SB-57(2-3)	SAM	SOLID	02/25/2014	0.66	30.0	79.10
PB75153BL	PB75153BL	MB	SOLID	02/25/2014	0.60	30.0	100.00
PB75153BS	PB75153BS	LCS	SOLID	02/25/2014	0.60	30.0	100.00

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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** F1488 **Sas no.:** F1488 **Sdg no.:** F1488

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
PB75149BS	PB75149BS	1	1808	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
PB75149BL	PB75149BL	1	1936	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-01	915206-SS-55	1	1941	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-02	915206-SS-56	1	1946	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
F1488-02DUP	915206-SS-56DUP	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-02L	915206-SS-56L	5	2011	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-03	915206-SS-56MS	1	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-04	915206-SS-56MSD	1	2021	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-02A	915206-SS-56A	1	2026	Cd,Co,Cu,Sb,Se,Tl
F1488-05	915206-SS-57	1	2031	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-06	915206-SS-58	1	2036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-07	915206-SS-59	1	2041	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.:** F1488 **Sas no.:** F1488 **Sdg no.:** F1488

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
F1488-08	915206-SS-60	1	2046	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-09	915206-SS-DUPLICATE022414	1	2051	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,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
F1488-10	915206-SB-55(0-1)	1	2105	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-11	915206-SB-55(1-2)	1	2110	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-12	915206-SB-55(2-3)	1	2115	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-13	915206-SB-55(10-11)	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-14	915206-SB-56(0-1)	1	2126	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-15	915206-SB-56(1-2)	1	2131	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-15DUP	915206-SB-56(1-2)DUP	1	2136	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-15L	915206-SB-56(1-2)L	5	2141	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-16	915206-SB-56(1-2)MS	1	2146	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-17	915206-SB-56(1-2)MSD	1	2152	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
F1488-15A	915206-SB-56(1-2)A	1	2207	Cd,Sb,Tl
F1488-18	915206-SB-56(2-3)	1	2212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-19	915206-SB-56(3-4)	1	2217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-20	915206-SB-57(0-1)	1	2222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-21	915206-SB-57(1-2)	1	2227	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
F1488-22	915206-SB-57(2-3)	1	2232	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
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
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

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

metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** F1488 **Sas no.:** F1488 **Sdg no.:** F1488

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
CCV38	CCV38	1	1454	HG
CCB38	CCB38	1	1456	HG
CCV39	CCV39	1	1519	HG
CCB39	CCB39	1	1521	HG
PB75153BL	PB75153BL	1	1542	HG
CCV40	CCV40	1	1545	HG
CCB40	CCB40	1	1547	HG
PB75153BS	PB75153BS	1	1549	HG
F1488-01	915206-SS-55	1	1551	HG
F1488-02	915206-SS-56	1	1553	HG
F1488-02DUP	915206-SS-56DUP	1	1555	HG
F1488-03	915206-SS-56MS	1	1557	HG
F1488-04	915206-SS-56MSD	1	1559	HG
F1488-02L	915206-SS-56L	5	1604	HG
F1488-05	915206-SS-57	1	1606	HG
F1488-06	915206-SS-58	1	1608	HG
CCV41	CCV41	1	1610	HG
CCB41	CCB41	1	1612	HG
F1488-07	915206-SS-59	1	1614	HG
F1488-08	915206-SS-60	1	1616	HG
F1488-09	915206-SS-DUPLICATE022414	1	1618	HG
F1488-10	915206-SB-55(0-1)	1	1621	HG
F1488-11	915206-SB-55(1-2)	1	1623	HG
F1488-12	915206-SB-55(2-3)	1	1625	HG
F1488-13	915206-SB-55(10-11)	1	1627	HG
F1488-14	915206-SB-56(0-1)	1	1629	HG
F1488-15	915206-SB-56(1-2)	1	1631	HG
F1488-15DUP	915206-SB-56(1-2)DUP	1	1633	HG
CCV42	CCV42	1	1636	HG
CCB42	CCB42	1	1638	HG
F1488-16	915206-SB-56(1-2)MS	1	1640	HG
F1488-17	915206-SB-56(1-2)MSD	1	1642	HG

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** F1488 **Sas no.:** F1488 **Sdg no.:** F1488

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
F1488-15L	915206-SB-56(1-2)L	5	1646	HG
F1488-18	915206-SB-56(2-3)	1	1648	HG
F1488-19	915206-SB-56(3-4)	1	1650	HG
F1488-20	915206-SB-57(0-1)	1	1652	HG
F1488-21	915206-SB-57(1-2)	1	1655	HG
F1488-22	915206-SB-57(2-3)	1	1657	HG
CCV43	CCV43	1	1659	HG
CCB43	CCB43	1	1701	HG

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** F1488 **Sas no.:** F1488 **Sdg no.:** F1488

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
F1488-01	915206-SS-55	10	1248	Fe
F1488-09	915206-SS-DUPLICATE022414	10	1252	Fe
F1488-10	915206-SB-55(0-1)	10	1259	Fe
F1488-12	915206-SB-55(2-3)	10	1305	Fe
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
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
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

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. F1488
QUOTE NO.
COC Number 028687

6.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: EA Engineering
ADDRESS: 6712 Brooklawn Pkwy Ste. 104
CITY: Syracuse STATE: NY ZIP: 13211
ATTENTION: Lynette Molony
PHONE: 315-431-4610 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: Lackawanna Incinerator
PROJECT NO.: 1490710 LOCATION: Lackawanna, NY
PROJECT MANAGER: Jen Martin-Bouchard
e-mail: jmartinbouchard@eaest.com
PHONE: 315-431-4610 FAX: —

CLIENT BILLING INFORMATION

BILL TO: northeastap@eaest.com PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: STANDARD DAYS *
HARD COPY: 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: NYS Equis EDD
☒ Others Full Cat. B

ANALYSIS

TAL Metals + Mercury 6010B

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-SS-55	Soil	X		2-24-14	0745	1	1									
2.	915206-SS-56		X			0750	1	1									NOTE:
3.	915206-SS-57		X			0805	1	1									Discussed
4.	915206-SS-58		X			0815	1	1									empty glassware
5.	915206-SS-59		X			0840	1	1									left to fill space
6.	915206-SS-60		X			0845	1	1									
7.	915206-SS-56(MS)		X			0750	1	1									
8.	915206-SS-56(MSD)		X			0750	1	1									
9.	915206-SS-DUPLICATE022414		X		—	—	1	1									
10.	915206-SB-[illegible]55(0-1)	Soil	X		2-24-14	1055	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: 2/25/2014 10:20	RECEIVED FOR LAB BY: 3. Corey Pettitt

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 2

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

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. F148B
QUOTE NO.
COC Number 028688

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: [illegible]@geosyst.com 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 Equis EDD
☒ Others: Full Cat. B

ANALYSIS
TAL Metals Mercury 6010B

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-55(1-2)	SOIL	X		2-24-14	1055	1	1									
2.	915206-SB-55(2-3)	↓	↓		↓	1055	1	1									
3.	915206-SB-55(10-11)					1055	1	1									
4.	915206-SB-56(0-1)					1125	1	1									
5.	915206-SB-56(1-2)					1125	3	3									MS/MSD
6.	915206-SB-56(2-3)					1125	1	1									
7.	915206-SB-56(3-4)					1125	1	1									
8.	915206-SB-57(0-1)					1135	1	1									
9.	915206-SB-57(1-2)					1135	1	1									
10.	915206-SB-57(2-3)	↓	↓		↓	1135	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: 2-25-2014 1020	RECEIVED FOR LAB BY: 3. Corey Pettit

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 2 of 2

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

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

CS 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