



Metals

Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200221032

Work Order Number: 0910289

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS on 10/28/09.
3. The sample was to be analyzed for dissolved metals. The sample was filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than two prior to analysis.
4. The sample was prepared for analysis based on Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures.

Prior to analysis by Trace ICP, an ionization buffer was added to the sample and associated QC to improve the sodium and potassium quantitation.

For analysis by Trace ICP and ICP-MS, the sample was digested following method 200.2 and SOP 806 Rev. 13.

The sample was prepared for ICP-MS analysis of arsenic and selenium by passing the digested sample and associated QC through a cation exchange column. The cation exchange column removes cations from the matrix and eliminates the CaCl⁺ (mass 75) interferences on arsenic.

5. The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures.

Analysis by Trace ICP followed method 200.7 and SOP 807 Rev. 12.

The relationship between intensity and concentration for each element is established using at least four standards, one of which is a blank solution.



During sample analysis concentrations are computed by the software and the results are printed in mg/L. The instrument software does not provide a printout which gives both intensity and concentration. The validity of the calibration equation is tested by analyzing the following solutions: a blank, a low level check solution with concentrations near the reporting limit, an Initial Calibration Verification (ICV) standard from a 2nd source standard solution with concentrations near the middle of the analytical range, a Continuing Calibration Verification (CCV) standard with concentrations at two times those in the ICV, and a readback of the highest calibration standard.

These solutions provide verification that the calibration equations are functioning properly throughout the analytical range of the instrument. During sample analysis dilutions are made for analytes found at concentrations above the highest calibration standard. No results are taken from extrapolations beyond the highest standard.

Analysis by ICP-MS followed method 200.8 and SOP 827 Rev. 7.

The relationship between intensity and concentration for each element is established using at least four standards, one of which is a blank solution. A calibration equation relating instrument response to concentration is developed by the instrument software. The equation is a higher order polynomial. This type of equation is used to improve quantitation accuracy at lower concentrations where the relationship between concentration and instrument response is non-linear.

During sample analysis concentrations are computed by the software and the results are printed in ug/L. The validity of the calibration equation is tested by analyzing the following solutions: a blank, a low level check solution with concentrations near the reporting limit, an Initial Calibration Verification (ICV) standard from a 2nd source standard solution with concentrations near the middle of the analytical range, a Continuing Calibration Verification (CCV) standard with concentrations near the middle of the analytical range but different than those in the ICV, and a readback of the highest calibration standard.

These solutions provide verification that the calibration equations are functioning properly throughout the analytical range of the instrument. During sample analysis dilutions are made for analytes found at concentrations above the highest calibration standard. No results are taken from extrapolations beyond the highest standard.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The sample was prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.



- A filter (method) blank and laboratory control sample were filtered, preserved, and digested at the same time as the samples. There were not more than 20 samples associated with each filtered blank and laboratory control sample.
- The preparation (method) blank associated with this digestion batch was below the reporting limit for the requested analytes.
- The laboratory control samples associated with this digestion batch were within the acceptance limits. This indicates complete digestions according to the method.
- All initial and continuing calibration blanks associated with each analytical batch were below the practical quantitation limits for the requested analytes with the exception of CCB7 for molybdenum and thallium. The analytes that exceeded acceptance criteria were not reported from the samples bracketed by this CCB.
- All initial and continuing calibration verifications associated with each analytical batch were within the acceptance criteria for the requested analytes with the exceptions of CCV6 for selenium and CCV7 for molybdenum and thallium. The analytes that exceeded acceptance criteria were not reported from the samples bracketed by these CCVs.
- The interference check samples associated with Method 200.7 were within acceptance criteria.
- The interference check samples associated with Method 200.8 were analyzed, and the high standard readbacks were within acceptance criteria.

9. Matrix specific quality control procedures.

Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. It is a standard practice that samples for ICP-MS are analyzed at a dilution.

11. Sodium Adsorption Ration (SAR) was determined by calculation based on a reference from the client. Calcium, magnesium, and sodium concentrations were determined by ICP, Method 200.7.

$$\text{SAR} = \text{Na} / (((\text{Ca} + \text{Mg}) / 2)^{1/2})$$

The analyte results are the me/L concentrations based on conversions from their mg/L concentrations. Please note that the SAR value is unitless.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Knodel
Emily Knodel
Inorganics Primary Data Reviewer

11-10-09
Date

Ray Loh
Inorganics Final Data Reviewer

11/10/09
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.

ALS Laboratory Group -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200221032

Client Project Number:

Client PO Number: OE PHA 09000000004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Meadows WW	0910289-1		WATER	27-Oct-09	11:14
Trip Blank	0910289-2		WATER	27-Oct-09	



ALS Laboratory Group

225 Commerce Drive, Fort Collins, CO 80524
TF: 800-443-1511 PH: 970-490-1511 FX: 970-490-1522

Chain-of-Custody

0910289

Date 27 Oct 2009 Page 1 of 1

Lab ID _____

Project Name/No.	Sampler(s) <u>Gintautas</u>	Turnaround	Standard or Due <u>Today</u>	Disposal	By Lab or Retu
REPORT TO: <u>Peter Gintautas</u>					
PHONE: <u>719-846-3091</u>					
FAX: <u>719-846-3384</u>					
E-MAIL: <u>peter.gintautas@state.co</u>					
COMPANY: <u>Colo. Oil & Gas. Comm.</u>					
ADDRESS: <u>PO Box 108 Trinidad CO 81082</u>					

Provide additional information as needed in Comments below.						Circle Analytical Method Above													Circle Analytical Method At														
Sample ID	Date	Time	Lab ID	Matrix	Preservative (Type HCl, etc.)	No. of Containers	VOCs	BTEX + MtBE	SVOCs	OC Pesticides	PCBs	TOL	Herbicides	Explosives	TCLP Organics SW1311	TCLP Metals SW1311	Total Metals (ICP) or Hg	Dissolved Metals (ICP) or Hg	Total Metals (ICP-MS)	Dissolved Metals (ICP-MS)	Hexavalent Chromium	Inorganic Anions	Solids	pH	Perchlorate	Actinides	Gamma Isotopes	Gross Alpha / Beta	Total Alpha-Emitting Radium	Radium 226	Radium 228	Strontium 90 (Total RadioSr)	Tritium
<u>Complaint 200221017</u>	<u>27 Oct</u>	<u>09:30</u>		<u>W</u>	<u>None</u>	<u>1</u>	X	X	X								X	X	X	X	X	X	X	X									
<u>Stevens WW</u>	<u>27 Oct</u>	<u>09:30</u>		<u>W</u>	<u>None</u>	<u>1</u>	X	X	X								X	X	X	X	X	X	X	X									
<u>Complaint 200221028</u>					<u>None</u>	<u>6</u>	X	X									X	X	X	X	X	X	X	X									
<u>Liceno WW</u>	<u>27 Oct</u>	<u>10:30</u>		<u>W</u>	<u>None</u>	<u>3</u>	X										X	X	X	X	X	X	X	X									
<u>Complaint 200221032</u>	<u>27 Oct</u>				<u>None</u>	<u>5</u>	X										X	X	X	X	X	X	X	X									
<u>Meadows WW</u>	<u>27 Oct</u>	<u>11:14</u>		<u>W</u>	<u>None</u>	<u>3</u>	X										X	X	X	X	X	X	X	X									
<u>Complaint 200221031</u>					<u>None</u>	<u>5</u>	X										X	X	X	X	X	X	X	X									
<u>Bieber WW</u>	<u>27 Oct</u>	<u>12:00</u>		<u>W</u>	<u>None</u>	<u>3</u>	X										X	X	X	X	X	X	X	X									

1 trip blanks
40 mL VCA
(2)

①

Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = Non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analyte list below.

Comments: (Trip blank + Complaint 200221032) = 8260-25 + tertbutanol / TLICs

Anions = Br, Cl, F, NO₂, NO₃, SO₄

Filter + Preserve metals upon receipt

200.7 = B, Ba, Be, Ca, Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Na, Sr, Zn, Si

200.8 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U

Relinquished By: (1) Signature <u>[Signature]</u> Printed Name <u>Peter Gintautas</u> Date <u>27 Oct 09</u> Time <u>16:20</u> Company <u>COGCC</u>	Relinquished By: Signature _____ Printed Name _____ Date _____ Time _____ Company _____
Received By: (1) Signature <u>[Signature]</u> Printed Name <u>Lauren Schmitz</u> Date <u>10/28/09</u> Time <u>10:15</u> Company <u>ALS</u>	Received By: Signature _____ Printed Name _____ Date _____ Time _____ Company _____

Originator: Retain pink page or a photocopy!



CONDITION OF SAMPLE UPON RECEIPT FORM

0910289

Client: COGCC

Workorder No: 0910288 ~~25~~ 10/28/09

Project Manager: AW

Initials: LAS Date: 10/28/09

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		YES	<input checked="" type="radio"/> NO *
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO 25 10/29/09
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO *
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice ?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u> <u>2</u>			
Temperature (°C): <u>2.7°</u> <u>3.8°</u>			
No. of custody seals on cooler: <u>1</u> <u>1</u>			
External µR/hr reading: <u>15</u> <u>15</u>			
Background µR/hr reading: <u>13</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

* 2 trip blanks not accounted for on COC - supplemental letter states they are to go with this workorder (sample #2 = 2 trip blanks)

* metals will be filtered and preserved by the lab (prior to analysis)

If applicable, was the client contacted? YES / NO NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 11/2/09

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Dissolved Metals by 200.7

Method EPA200.7 Revision 4.4

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Field ID:	Meadows WW
Lab ID:	0910289-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 27-Oct-09

Date Extracted: 05-Nov-09

Date Analyzed: 05-Nov-09

Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP091105-3

QC Batch ID: IP091105-3-1

Run ID: IT091105-2A5

Cleanup: NONE

Basis: As Received

File Name: 091105A.

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: mg/l

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7440-39-3	BARIUM	1	0.25	0.1		
7440-41-7	BERYLLIUM	1	0.002	0.002	U	
7440-42-8	BORON	1	0.1	0.1	U	
7440-70-2	CALCIUM	1	16	1		
7440-47-3	CHROMIUM	1	0.01	0.01	U	
7440-48-4	COBALT	1	0.01	0.01	U	
7440-50-8	COPPER	1	0.01	0.01	U	
7439-89-6	IRON	1	0.1	0.1	U	
7439-93-2	LITHIUM	1	0.01	0.01	U	
7439-95-4	MAGNESIUM	1	2.2	1		
7439-96-5	MANGANESE	1	0.01	0.01	U	
7440-02-0	NICKEL	1	0.02	0.02	U	
7440-09-7	POTASSIUM	1	1	1	U	
7440-21-3	SILICON	1	3.3	0.05		
7440-23-5	SODIUM	1	73	1		
	SODIUM ADSORPTION RATIO	1	4.5	0.17		
7440-24-6	STRONTIUM	1	0.55	0.01		
7440-66-6	ZINC	1	0.02	0.02	U	

Data Package ID: IT0910289-1

Dissolved Metals by 200.8

Method EPA200.8 Revision 5.4

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Field ID:	Meadows WW
Lab ID:	0910289-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 27-Oct-09

Date Extracted: 05-Nov-09

Date Analyzed: 06-Nov-09

Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP091105-3

QCBatchID: IP091105-3-2

Run ID: IM091106-1A2

Cleanup: NONE

Basis: As Received

File Name: 06NOV09A

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	10	0.94	0.3		
7440-38-2	ARSENIC	10	2	2	U	
7440-43-9	CADMIUM	10	0.3	0.3	U	
7439-92-1	LEAD	10	0.5	0.5	U	
7439-98-7	MOLYBDENUM	10	2.5	1		
7782-49-2	SELENIUM	10	1	1	U	
7440-22-4	SILVER	10	0.1	0.1	U	
7440-28-0	THALLIUM	10	0.2	0.2	U	
7440-61-1	URANIUM	10	0.1	0.1	U	

Data Package ID: IM0910289-1

Metals by 200.7

Method EPA200.7 Revision 4.4

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Lab ID: F091104-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05-Nov-09

Date Analyzed: 05-Nov-09

Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP091105-3

QCBatchID: IP091105-3-1

Run ID: IT091105-2A5

Cleanup: NONE

Basis: N/A

File Name: 091105A.

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: mg/l

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7440-39-3	BARIIUM	1	0.1	0.1	U	
7440-41-7	BERYLLIUM	1	0.002	0.002	U	
7440-42-8	BORON	1	0.1	0.1	U	
7440-70-2	CALCIUM	1	1	1	U	
7440-47-3	CHROMIUM	1	0.01	0.01	U	
7440-48-4	COBALT	1	0.01	0.01	U	
7440-50-8	COPPER	1	0.01	0.01	U	
7439-89-6	IRON	1	0.1	0.1	U	
7439-93-2	LITHIUM	1	0.01	0.01	U	
7439-95-4	MAGNESIUM	1	1	1	U	
7439-96-5	MANGANESE	1	0.01	0.01	U	
7440-02-0	NICKEL	1	0.02	0.02	U	
7440-09-7	POTASSIUM	1	1	1	U	
7440-21-3	SILICON	1	0.05	0.05	U	
7440-23-5	SODIUM	1	1	1	U	
7440-24-6	STRONTIUM	1	0.01	0.01	U	
7440-66-6	ZINC	1	0.02	0.02	U	

Data Package ID: IT0910289-1

Date Printed: Monday, November 09, 2009

ALS Laboratory Group -- FC

Page 1 of 1

LIMS Version: 6.307A

Metals by 200.7

Method EPA200.7 Revision 4.4

Laboratory Control Sample

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Lab ID: F091104-1LCS

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 11/05/2009
 Date Analyzed: 11/05/2009
 Prep Method: EPA200.22.8

Prep Batch: IP091105-3
 QCBatchID: IP091105-3-1
 Run ID: IT091105-2A5
 Cleanup: NONE
 Basis: N/A
 File Name: 091105A.

Sample Aliquot: 50 g
 Final Volume: 50 g
 Result Units: mg/l
 Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-39-3	BARIUM	2	1.96	0.1		98	85 - 115%
7440-41-7	BERYLLIUM	0.05	0.0494	0.002		99	85 - 115%
7440-42-8	BORON	1	0.983	0.1		98	85 - 115%
7440-70-2	CALCIUM	40	40.2	1		101	85 - 115%
7440-47-3	CHROMIUM	0.2	0.195	0.01		98	85 - 115%
7440-48-4	COBALT	0.5	0.513	0.01		103	85 - 115%
7440-50-8	COPPER	0.25	0.253	0.01		101	85 - 115%
7439-89-6	IRON	1	1.03	0.1		103	85 - 115%
7439-93-2	LITHIUM	0.5	0.467	0.01		93	85 - 115%
7439-95-4	MAGNESIUM	40	40.6	1		102	85 - 115%
7439-96-5	MANGANESE	0.5	0.488	0.01		98	85 - 115%
7440-02-0	NICKEL	0.5	0.51	0.02		102	85 - 115%
7440-09-7	POTASSIUM	40	36.8	1		92	85 - 115%
7440-21-3	SILICON	2	1.99	0.05		99	85 - 115%
7440-23-5	SODIUM	40	36.8	1		92	85 - 115%
7440-24-6	STRONTIUM	0.5	0.486	0.01		97	85 - 115%
7440-66-6	ZINC	0.5	0.493	0.02		99	85 - 115%

Data Package ID: *IT0910289-1*

Metals by 200.8

Method EPA200.8 Revision 5.4

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Lab ID: F091104-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05-Nov-09

Date Analyzed: 06-Nov-09

Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP091105-3

QCBatchID: IP091105-3-2

Run ID: IM091106-1A2

Cleanup: NONE

Basis: N/A

File Name: 06NOV09A

Sample Aliquot: 50 g

Final Volume: 50 g

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	10	0.3	0.3	U	
7440-38-2	ARSENIC	10	2	2	U	
7440-43-9	CADMIUM	10	0.3	0.3	U	
7439-92-1	LEAD	10	0.5	0.5	U	
7439-98-7	MOLYBDENUM	10	1	1	U	
7782-49-2	SELENIUM	10	1	1	U	
7440-22-4	SILVER	10	0.1	0.1	U	
7440-28-0	THALLIUM	10	0.2	0.2	U	
7440-61-1	URANIUM	10	0.1	0.1	U	

Data Package ID: IM0910289-1

Date Printed: Monday, November 09, 2009

ALS Laboratory Group -- FC

Page 1 of 1

LIMS Version: 6.307A

Metals by 200.8

Method EPA200.8 Revision 5.4

Laboratory Control Sample

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0910289

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200221032

Lab ID: FM91104-1LCS

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 11/05/2009
 Date Analyzed: 11/06/2009
 Prep Method: EPA200.22.8

Prep Batch: IP091105-3
 QCBatchID: IP091105-3-2
 Run ID: IM091106-1A2
 Cleanup: NONE
 Basis: N/A
 File Name: 06NOV09A

Sample Aliquot: 50 g
 Final Volume: 50 g
 Result Units: UG/L
 Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-36-0	ANTIMONY	20	20	0.3		100	85 - 115%
7440-38-2	ARSENIC	40	38.1	2		95	85 - 115%
7440-43-9	CADMIUM	20	19.9	0.3		100	85 - 115%
7439-92-1	LEAD	100	99.2	0.5		99	85 - 115%
7439-98-7	MOLYBDENUM	20	19.7	1		98	85 - 115%
7782-49-2	SELENIUM	40	35.8	1		89	85 - 115%
7440-22-4	SILVER	20	20	0.1		100	85 - 115%
7440-28-0	THALLIUM	1	0.849	0.2		85	85 - 115%
7440-61-1	URANIUM	20	19.6	0.1		98	85 - 115%

Data Package ID: *IM0910289-1*