UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

November 1, 2013

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Brian Mueller, Superfund Project Manager (6SF-RL)

Site: **FALCON REFINERY**

Case#: **43795**

SDG#: **MF2A74**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

9598054

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: November 1, 2013

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins SM Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT MH for DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0166
TDF No.:	6-12-994B
ESAT File No.:	I-0630

Attached is the data review summary for Case # 43795
SDG # MF2A74
Site Falcon Refinery

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 43795	SITE Falcon Refinery
LABORATORY MITKEM	NO. OF SAMPLES 20
CONTRACT# EP-W-09-039	MATRIX Soil
SDG# MF2A74	REVIEWER (IF NOT ESB) ESAT
SOW# ISM01.3	REVIEWER'S NAME Sonya Meekins
SF# 303DD2MC	COMPLETION DATE November 1, 2013

SAMPLE NO.					
	MF2A00	MF2A18	MF2A26	MF2A74	MF2A79
	MF2A01	MF2A23	MF2A49	MF2A76	MF2A80
	MF2A02	MF2A24	MF2A51	MF2A77	MF2A82
	MF2A17	MF2A25	MF2A72	MF2A78	MF2A83

DATA ASSESSMENT SUMMARY

	ICP	HG
1. HOLDING TIMES	O	O
2. CALIBRATIONS	O	O
3. BLANKS	O	O
4. MATRIX SPIKES	M	O
5. DUPLICATE ANALYSIS	M	O
6. ICP QC	M	
7. LCS	O	
8. SAMPLE VERIFICATION	O	O
9. OTHER QC	N/A	N/A
10. OVERALL ASSESSMENT	M	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: The antimony and arsenic matrix spike recoveries were below the QC limits. Laboratory duplicate differences exceeded the expanded QC limit for soils for arsenic, iron, and manganese. The chromium and vanadium serial dilution differences exceeded the expanded QC limit for soils.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 43795 **SDG** MF2A74 **SITE** Falcon Refinery **LAB** MITKEM

COMMENTS: This SDG consisted of 20 soil samples for total metals (by ICP-AES and ICP-MS) and mercury analyses following SOW ISM01.3. The sampler designated sample MF2A00 for QC analyses.

The SOW requires that the soil sample results be adjusted for moisture content, which raised the adjusted QLs above the CRQLs specified in the SOW. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

All samples for ICP-MS were analyzed at 5X dilution only. The laboratory managed to meet the CRQL requirement by lowering the concentration for the low initial calibration standard to 1/5 the CRQLs specified in the SOW. Additionally, the laboratory diluted (up to 10X) and reanalyzed samples MF2A00, MF2A02, MF2A79, and MF2A83 because of high calcium, iron, manganese, and/or zinc concentrations in these samples.

S3VEM Review was performed for this data package as requested by the TDF. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with matrix spike recoveries, laboratory duplicate differences, and/or serial dilution differences. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRC	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSC	SMPW	FINVOL	METHOD	STATLOC
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7429905	Aluminum	3720		mg/kg	16.3	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440360	Antimony	0.75	UJ	mg/kg	0.75	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440382	Arsenic	2.0	J	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440393	Barium	167		mg/kg	3.8	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440417	Beryllium	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440439	Cadmium	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7440702	Calcium	21100		mg/kg	408	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440473	Chromium	4.6	J	mg/kg	0.75	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440484	Cobalt	1.7		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440508	Copper	5.2		mg/kg	0.75	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	15:54:37	7439896	Iron	42400	J	mg/kg	24.5	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7439921	Lead	16.4		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7439954	Magnesium	1850		mg/kg	408	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7439965	Manganese	375	J	mg/kg	1.2	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	10/03/2013	11:48:16	7439976	Mercury	0.0075	LJ	mg/kg	0.11	09/12/2013	10/01/2013	09/14/2013	Low	90.0	0.52	100	CV	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440020	Nickel	3.7		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7440097	Potassium	858		mg/kg	408	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7782492	Selenium	1.9	U	mg/kg	1.9	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440224	Silver	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	14:22:35	7440235	Sodium	1420		mg/kg	408	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.36	100	P	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440280	Thallium	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/29/2013	16:01:21	7440622	Vanadium	4.3	J	mg/kg	1.9	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A00	M1709-04A	S	Field_Sample	09/30/2013	12:01:14	7440666	Zinc	350		mg/kg	1.5	09/12/2013	09/25/2013	09/14/2013	Low	90.0	1.48	100	MS	MW-13-0.0-0.5
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7429905	Aluminum	929		mg/kg	20.9	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440360	Antimony	1.0	UJ	mg/kg	1.0	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440382	Arsenic	0.71	J	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440393	Barium	20.0		mg/kg	5.2	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440417	Beryllium	0.52	U	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440439	Cadmium	0.52	U	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7440702	Calcium	4260		mg/kg	523	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440473	Chromium	1.2	J	mg/kg	1.0	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440484	Cobalt	0.52	U	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440508	Copper	1.9		mg/kg	1.0	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7439896	Iron	1100	J	mg/kg	10.5	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7439921	Lead	4.7		mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7439954	Magnesium	522	LJ	mg/kg	523	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7439965	Manganese	30.1	J	mg/kg	1.6	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	10/03/2013	11:52:42	7439976	Mercury	0.0059	LJ	mg/kg	0.096	09/12/2013	10/01/2013	09/14/2013	Low	88.4	0.59	100	CV	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440020	Nickel	0.84		mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7440097	Potassium	264	LJ	mg/kg	523	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7782492	Selenium	2.6	U	mg/kg	2.6	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440224	Silver	0.52	U	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	14:44:39	7440235	Sodium	1460		mg/kg	523	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.08	100	P	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440280	Thallium	0.52	U	mg/kg	0.52	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440622	Vanadium	2.6	UJ	mg/kg	2.6	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A01	M1709-05A	S	Field_Sample	09/29/2013	16:43:25	7440666	Zinc	30.6		mg/kg	1.0	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.09	100	MS	MW-13-0.5-2.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7429905	Aluminum	4420		mg/kg	17.1	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440360	Antimony	0.95	UJ	mg/kg	0.95	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440382	Arsenic	0.48	UJ	mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440393	Barium	101		mg/kg	4.8	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440417	Beryllium	0.48	U	mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440439	Cadmium	0.48	U	mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7440702	Calcium	582		mg/kg	426	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440473	Chromium	2.2	J	mg/kg	0.95	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440484	Cobalt	6.5		mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440508	Copper	1.6		mg/kg	0.95	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7439896	Iron	3610	J	mg/kg	8.5	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7439921	Lead	2.0		mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7439954	Magnesium	1220		mg/kg	426	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:05:38	7439965	Manganese	2640	J	mg/kg	6.4	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	10/03/2013	11:54:10	7439976	Mercury	0.11	U	mg/kg	0.11	09/12/2013	10/01/2013	09/14/2013	Low	86.2	0.54	100	CV	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440020	Nickel	6.0		mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7440097	Potassium	941		mg/kg	426	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7782492	Selenium	2.4	U	mg/kg	2.4	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440224	Silver	0.48	U	mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	14:48:18	7440235	Sodium	1330		mg/kg	426	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.36	100	P	MW-13-2.0-5.0

43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440280	Thallium	0.48	U	mg/kg	0.48	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440622	Vanadium	2.9	J	mg/kg	2.4	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A02	M1709-06A	S	Field_Sample	09/29/2013	16:48:10	7440666	Zinc	5.9		mg/kg	0.95	09/12/2013	09/25/2013	09/14/2013	Low	86.2	1.22	100	MS	MW-13-2.0-5.0
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7429905	Aluminum	2160		mg/kg	15.9	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440360	Antimony	0.92	UJ	mg/kg	0.92	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440382	Arsenic	0.47	J	mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440393	Barium	107		mg/kg	4.6	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440417	Beryllium	0.46	U	mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440439	Cadmium	0.46	U	mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7440702	Calcium	3650		mg/kg	398	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440473	Chromium	2.0	J	mg/kg	0.92	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440484	Cobalt	0.50		mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440508	Copper	1.9		mg/kg	0.92	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7439896	Iron	1900	J	mg/kg	8.0	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7439921	Lead	3.0		mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7439954	Magnesium	1830		mg/kg	398	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7439965	Manganese	66.2	J	mg/kg	1.2	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	10/03/2013	12:19:37	7439976	Mercury	0.0046	LJ	mg/kg	0.099	09/09/2013	10/01/2013	09/14/2013	Low	85.5	0.59	100	CV	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440020	Nickel	1.2		mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7440097	Potassium	513		mg/kg	398	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7782492	Selenium	2.3	U	mg/kg	2.3	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440224	Silver	0.46	U	mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	15:43:39	7440235	Sodium	333	LJ	mg/kg	398	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.47	100	P	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440280	Thallium	0.46	U	mg/kg	0.46	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440622	Vanadium	2.4	J	mg/kg	2.3	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A17	M1709-19A	S	Field_Sample	09/29/2013	17:59:43	7440666	Zinc	65.9		mg/kg	0.92	09/09/2013	09/25/2013	09/14/2013	Low	85.5	1.27	100	MS	SO3-01-0.0-0.5
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7429905	Aluminum	1620		mg/kg	19.0	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440360	Antimony	1.0	UJ	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440382	Arsenic	0.52	J	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440393	Barium	11.6		mg/kg	5.1	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440417	Beryllium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440439	Cadmium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7440702	Calcium	921		mg/kg	475	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440473	Chromium	2.1	J	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440484	Cobalt	0.80		mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440508	Copper	1.1		mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7439896	Iron	1520	J	mg/kg	9.5	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7439921	Lead	2.2		mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7439954	Magnesium	1370		mg/kg	475	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7439965	Manganese	52.5	J	mg/kg	1.4	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	10/03/2013	12:06:07	7439976	Mercury	0.12	U	mg/kg	0.12	09/09/2013	10/01/2013	09/14/2013	Low	84.2	0.51	100	CV	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440020	Nickel	1.6		mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7440097	Potassium	510		mg/kg	475	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7782492	Selenium	2.5	U	mg/kg	2.5	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440224	Silver	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	15:10:34	7440235	Sodium	4730		mg/kg	475	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.25	100	P	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440280	Thallium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440622	Vanadium	2.8	J	mg/kg	2.5	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A18	M1709-12A	S	Field_Sample	09/29/2013	17:16:46	7440666	Zinc	7.7		mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	84.2	1.17	100	MS	SO3-01-0.5-2.0
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7429905	Aluminum	3220		mg/kg	17.1	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440360	Antimony	0.84	UJ	mg/kg	0.84	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440382	Arsenic	0.81	J	mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440393	Barium	191		mg/kg	4.2	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440417	Beryllium	0.42	U	mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440439	Cadmium	0.42	U	mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7440702	Calcium	11900		mg/kg	426	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440473	Chromium	3.6	J	mg/kg	0.84	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440484	Cobalt	1.1		mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440508	Copper	7.3		mg/kg	0.84	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7439896	Iron	3280	J	mg/kg	8.5	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7439921	Lead	3.6		mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7439954	Magnesium	918		mg/kg	426	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7439965	Manganese	56.3	J	mg/kg	1.3	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	10/03/2013	12:07:40	7439976	Mercury	0.037	LJ	mg/kg	0.098	09/09/2013	10/01/2013	09/14/2013	Low	93.1	0.55	100	CV	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440020	Nickel	2.3		mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7440097	Potassium	524		mg/kg	426	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7782492	Selenium	2.1	U	mg/kg	2.1	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5

43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440224	Silver	0.42	U	mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	15:14:13	7440235	Sodium	104	LJ	mg/kg	426	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.26	100	P	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440280	Thallium	0.42	U	mg/kg	0.42	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440622	Vanadium	4.3	J	mg/kg	2.1	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A23	M1709-13A	S	Field_Sample	09/29/2013	17:21:33	7440666	Zinc	199		mg/kg	0.84	09/09/2013	09/25/2013	09/14/2013	Low	93.1	1.28	100	MS	SO3-03-0.0-0.5
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7429905	Aluminum	2050		mg/kg	20.8	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440360	Antimony	0.86	UJ	mg/kg	0.86	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440382	Arsenic	0.52	J	mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440393	Barium	79.8		mg/kg	4.3	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440417	Beryllium	0.43	U	mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440439	Cadmium	0.43	U	mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7440702	Calcium	9720		mg/kg	520	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440473	Chromium	1.6	J	mg/kg	0.86	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440484	Cobalt	0.80		mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440508	Copper	2.1		mg/kg	0.86	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7439896	Iron	2070	J	mg/kg	10.4	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7439921	Lead	2.4		mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7439954	Magnesium	629		mg/kg	520	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7439965	Manganese	42.4	J	mg/kg	1.6	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	10/03/2013	12:09:08	7439976	Mercury	0.0055	LJ	mg/kg	0.099	09/09/2013	10/01/2013	09/14/2013	Low	93.3	0.54	100	CV	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440020	Nickel	1.2		mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7440097	Potassium	423	LJ	mg/kg	520	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7782492	Selenium	2.1	U	mg/kg	2.1	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440224	Silver	0.43	U	mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	15:17:54	7440235	Sodium	24.4	LJ	mg/kg	520	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.03	100	P	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440280	Thallium	0.43	U	mg/kg	0.43	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440622	Vanadium	2.6	J	mg/kg	2.1	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A24	M1709-14A	S	Field_Sample	09/29/2013	17:26:19	7440666	Zinc	52.1		mg/kg	0.86	09/09/2013	09/25/2013	09/14/2013	Low	93.3	1.25	100	MS	SO3-03-0.0-0.5 Dup
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7429905	Aluminum	2830		mg/kg	16.9	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440360	Antimony	1.0	UJ	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440382	Arsenic	0.80	J	mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440393	Barium	29.7		mg/kg	5.0	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440417	Beryllium	0.50	U	mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440439	Cadmium	0.50	U	mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7440702	Calcium	10200		mg/kg	422	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440473	Chromium	1.9	J	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440484	Cobalt	1.1		mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440508	Copper	1.7		mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7439896	Iron	2530	J	mg/kg	8.4	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7439921	Lead	2.3		mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7439954	Magnesium	833		mg/kg	422	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7439965	Manganese	42.8	J	mg/kg	1.3	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	10/03/2013	12:10:37	7439976	Mercury	0.0056	LJ	mg/kg	0.11	09/09/2013	10/01/2013	09/14/2013	Low	82.9	0.57	100	CV	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440020	Nickel	1.6		mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7440097	Potassium	598		mg/kg	422	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7782492	Selenium	2.5	U	mg/kg	2.5	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440224	Silver	0.50	U	mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	15:28:57	7440235	Sodium	25.1	LJ	mg/kg	422	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.43	100	P	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440280	Thallium	0.50	U	mg/kg	0.50	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440622	Vanadium	3.3	J	mg/kg	2.5	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A25	M1709-15A	S	Field_Sample	09/29/2013	17:40:41	7440666	Zinc	12.4		mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	82.9	1.2	100	MS	SO3-03-0.5-2.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7429905	Aluminum	721		mg/kg	14.9	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440360	Antimony	1.0	UJ	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440382	Arsenic	0.51	UJ	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440393	Barium	5.1	U	mg/kg	5.1	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440417	Beryllium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440439	Cadmium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7440702	Calcium	372	U	mg/kg	372	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440473	Chromium	0.73	LJ	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440484	Cobalt	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440508	Copper	1.0	U	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7439896	Iron	620	J	mg/kg	7.4	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7439921	Lead	1.0		mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7439954	Magnesium	188	LJ	mg/kg	372	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7439965	Manganese	7.1	J	mg/kg	1.1	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	10/03/2013	12:21:06	7439976	Mercury	0.097	U	mg/kg	0.097	09/09/2013	10/01/2013	09/14/2013	Low	94.1	0.55	100	CV	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440020	Nickel	0.30	LJ	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0

43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7440097	Potassium	192	LJ	mg/kg	372	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7782492	Selenium	2.6	U	mg/kg	2.6	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440224	Silver	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	15:47:20	7440235	Sodium	372	U	mg/kg	372	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.43	100	P	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440280	Thallium	0.51	U	mg/kg	0.51	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440622	Vanadium	2.6	UJ	mg/kg	2.6	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A26	M1709-20A	S	Field_Sample	09/29/2013	18:04:29	7440666	Zinc	1.0	U	mg/kg	1.0	09/09/2013	09/25/2013	09/14/2013	Low	94.1	1.04	100	MS	SO3-03-2.0-5.0
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7429905	Aluminum	476		mg/kg	17.2	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440360	Antimony	0.82	UJ	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440382	Arsenic	0.41	UJ	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440393	Barium	26.5		mg/kg	4.1	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440417	Beryllium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440439	Cadmium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7440702	Calcium	581		mg/kg	431	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440473	Chromium	0.73	LJ	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440484	Cobalt	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440508	Copper	3.5		mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7439896	Iron	455	J	mg/kg	8.6	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7439921	Lead	4.1		mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7439954	Magnesium	63.0	LJ	mg/kg	431	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7439965	Manganese	21.5	J	mg/kg	1.3	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	10/03/2013	11:58:41	7439976	Mercury	0.0071	LJ	mg/kg	0.10	09/11/2013	10/01/2013	09/14/2013	Low	92.8	0.54	100	CV	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440020	Nickel	0.40	LJ	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7440097	Potassium	80.2	LJ	mg/kg	431	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7782492	Selenium	2.0	U	mg/kg	2.0	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440224	Silver	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	14:52:11	7440235	Sodium	431	U	mg/kg	431	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.25	100	P	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440280	Thallium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440622	Vanadium	2.0	UJ	mg/kg	2.0	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A49	M1709-07A	S	Field_Sample	09/29/2013	16:52:55	7440666	Zinc	27.0		mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	92.8	1.32	100	MS	MW-01-0.0-0.5 Dup
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7429905	Aluminum	724		mg/kg	20.0	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440360	Antimony	0.82	UJ	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440382	Arsenic	0.41	UJ	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440393	Barium	4.1	U	mg/kg	4.1	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440417	Beryllium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440439	Cadmium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7440702	Calcium	500	U	mg/kg	500	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440473	Chromium	0.47	LJ	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440484	Cobalt	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440508	Copper	0.82	U	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7439896	Iron	186	J	mg/kg	10.0	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7439921	Lead	1.3		mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7439954	Magnesium	500	U	mg/kg	500	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7439965	Manganese	2.0	J	mg/kg	1.5	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	10/03/2013	12:00:12	7439976	Mercury	0.11	U	mg/kg	0.11	09/11/2013	10/01/2013	09/14/2013	Low	83.3	0.53	100	CV	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440020	Nickel	0.18	LJ	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7440097	Potassium	45.0	LJ	mg/kg	500	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7782492	Selenium	2.1	U	mg/kg	2.1	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440224	Silver	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	14:55:58	7440235	Sodium	500	U	mg/kg	500	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.2	100	P	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440280	Thallium	0.41	U	mg/kg	0.41	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440622	Vanadium	2.1	UJ	mg/kg	2.1	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A51	M1709-08A	S	Field_Sample	09/29/2013	16:57:39	7440666	Zinc	0.82	U	mg/kg	0.82	09/11/2013	09/25/2013	09/14/2013	Low	83.3	1.46	100	MS	MW-01-2.0-5.0
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7429905	Aluminum	2990		mg/kg	16.6	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440360	Antimony	0.98	UJ	mg/kg	0.98	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440382	Arsenic	0.91	J	mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440393	Barium	74.8		mg/kg	4.9	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440417	Beryllium	0.49	U	mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440439	Cadmium	0.49	U	mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7440702	Calcium	16200		mg/kg	415	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440473	Chromium	3.5	J	mg/kg	0.98	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440484	Cobalt	0.81		mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440508	Copper	6.1		mg/kg	0.98	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7439896	Iron	5060	J	mg/kg	8.3	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7439921	Lead	12.9		mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7439954	Magnesium	838		mg/kg	415	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7439965	Manganese	74.0	J	mg/kg	1.2	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5

43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	10/03/2013	12:12:05	7439976	Mercury	0.23		mg/kg	0.10	09/11/2013	10/01/2013	09/14/2013	Low	86.6	0.55	100	CV	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440020	Nickel	2.1		mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7440097	Potassium	688		mg/kg	415	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7782492	Selenium	2.4	U	mg/kg	2.4	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440224	Silver	0.49	U	mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	15:32:37	7440235	Sodium	15.4	LJ	mg/kg	415	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.39	100	P	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440280	Thallium	0.49	U	mg/kg	0.49	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440622	Vanadium	3.5	J	mg/kg	2.4	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A72	M1709-16A	S	Field_Sample	09/29/2013	17:45:26	7440666	Zinc	52.5		mg/kg	0.98	09/11/2013	09/25/2013	09/14/2013	Low	86.6	1.18	100	MS	MW-08-0.0-0.5
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7429905	Aluminum	4820		mg/kg	16.7	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440360	Antimony	0.95	UJ	mg/kg	0.95	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440382	Arsenic	0.47	UJ	mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440393	Barium	36.6		mg/kg	4.7	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440417	Beryllium	0.47	U	mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440439	Cadmium	0.47	U	mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7440702	Calcium	8000		mg/kg	419	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440473	Chromium	2.8	J	mg/kg	0.95	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440484	Cobalt	0.91		mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440508	Copper	2.4		mg/kg	0.95	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7439896	Iron	3550	J	mg/kg	8.4	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7439921	Lead	4.9		mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7439954	Magnesium	1070		mg/kg	419	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7439965	Manganese	48.6	J	mg/kg	1.3	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	10/03/2013	11:43:51	7439976	Mercury	0.014	LJ	mg/kg	0.10	09/11/2013	10/01/2013	09/13/2013	Low	88.5	0.54	100	CV	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440020	Nickel	1.7		mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7440097	Potassium	985		mg/kg	419	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7782492	Selenium	2.4	U	mg/kg	2.4	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440224	Silver	0.47	U	mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	14:11:34	7440235	Sodium	60.5	LJ	mg/kg	419	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.35	100	P	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440280	Thallium	0.47	U	mg/kg	0.47	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440622	Vanadium	3.8	J	mg/kg	2.4	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A74	M1709-01A	S	Field_Sample	09/29/2013	15:47:00	7440666	Zinc	7.8		mg/kg	0.95	09/11/2013	09/25/2013	09/13/2013	Low	88.5	1.19	100	MS	MW-08-2.0-5.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7429905	Aluminum	4630		mg/kg	21.1	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440360	Antimony	0.93	UJ	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440382	Arsenic	1.3	J	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440393	Barium	85.1		mg/kg	4.6	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440417	Beryllium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440439	Cadmium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7440702	Calcium	19600		mg/kg	527	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440473	Chromium	4.1	J	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440484	Cobalt	1.6		mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440508	Copper	3.3		mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7439896	Iron	4420	J	mg/kg	10.5	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7439921	Lead	32.5		mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7439954	Magnesium	1260		mg/kg	527	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7439965	Manganese	86.1	J	mg/kg	1.6	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	10/03/2013	12:16:38	7439976	Mercury	0.0072	LJ	mg/kg	0.11	09/11/2013	10/01/2013	09/14/2013	Low	87.0	0.51	100	CV	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440020	Nickel	2.3		mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7440097	Potassium	821		mg/kg	527	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7782492	Selenium	2.3	U	mg/kg	2.3	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440224	Silver	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	15:36:18	7440235	Sodium	157	LJ	mg/kg	527	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.09	100	P	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440280	Thallium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440622	Vanadium	5.0	J	mg/kg	2.3	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A76	M1709-17A	S	Field_Sample	09/29/2013	17:50:12	7440666	Zinc	15.0		mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	87.0	1.24	100	MS	MW-10-0.5-2.0
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7429905	Aluminum	1340		mg/kg	18.7	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440360	Antimony	0.93	UJ	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440382	Arsenic	0.46	UJ	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440393	Barium	9.7		mg/kg	4.6	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440417	Beryllium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440439	Cadmium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7440702	Calcium	2840		mg/kg	469	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440473	Chromium	0.77	LJ	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440484	Cobalt	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440508	Copper	0.93	U	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7439896	Iron	1090	J	mg/kg	9.4	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7439921	Lead	1.4		mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5

43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7439954	Magnesium	401	LJ	mg/kg	469	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7439965	Manganese	14.6	J	mg/kg	1.4	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	10/03/2013	12:18:08	7439976	Mercury	0.11	U	mg/kg	0.11	09/11/2013	10/01/2013	09/14/2013	Low	86.0	0.55	100	CV	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440020	Nickel	0.46	LJ	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7440097	Potassium	270	LJ	mg/kg	469	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7782492	Selenium	2.3	U	mg/kg	2.3	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440224	Silver	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	15:39:59	7440235	Sodium	469	U	mg/kg	469	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.24	100	P	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440280	Thallium	0.46	U	mg/kg	0.46	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440622	Vanadium	2.3	UJ	mg/kg	2.3	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A77	M1709-18A	S	Field_Sample	09/29/2013	17:54:57	7440666	Zinc	0.93	U	mg/kg	0.93	09/11/2013	09/25/2013	09/14/2013	Low	86.0	1.25	100	MS	MW-10-2.0-4.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7429905	Aluminum	2680		mg/kg	19.5	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440360	Antimony	0.88	UJ	mg/kg	0.88	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440382	Arsenic	0.91	J	mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440393	Barium	56.4		mg/kg	4.4	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440417	Beryllium	0.44	U	mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440439	Cadmium	0.44	U	mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7440702	Calcium	22000		mg/kg	487	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440473	Chromium	1.8	J	mg/kg	0.88	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440484	Cobalt	0.90		mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440508	Copper	2.3		mg/kg	0.88	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7439896	Iron	2270	J	mg/kg	9.7	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7439921	Lead	6.1		mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7439954	Magnesium	1100		mg/kg	487	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7439965	Manganese	56.8	J	mg/kg	1.5	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	10/03/2013	12:01:41	7439976	Mercury	0.11	U	mg/kg	0.11	09/12/2013	10/01/2013	09/14/2013	Low	86.3	0.52	100	CV	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440020	Nickel	1.5		mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7440097	Potassium	607		mg/kg	487	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7782492	Selenium	2.2	U	mg/kg	2.2	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440224	Silver	0.44	U	mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	14:59:38	7440235	Sodium	755		mg/kg	487	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.19	100	P	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440280	Thallium	0.44	U	mg/kg	0.44	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440622	Vanadium	4.1	J	mg/kg	2.2	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A78	M1709-09A	S	Field_Sample	09/29/2013	17:02:26	7440666	Zinc	13.4		mg/kg	0.88	09/12/2013	09/25/2013	09/14/2013	Low	86.3	1.32	100	MS	MW-11-0.0-0.5
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7429905	Aluminum	4230		mg/kg	18.3	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440360	Antimony	0.76	UJ	mg/kg	0.76	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440382	Arsenic	1.4	J	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440393	Barium	95.4		mg/kg	3.8	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440417	Beryllium	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440439	Cadmium	0.60		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/30/2013	12:19:31	7440702	Calcium	117000		mg/kg	2280	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440473	Chromium	3.5	J	mg/kg	0.76	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440484	Cobalt	1.6		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440508	Copper	3.6		mg/kg	0.76	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7439896	Iron	3620	J	mg/kg	9.1	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7439921	Lead	7.0		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7439954	Magnesium	2240		mg/kg	456	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7439965	Manganese	72.2	J	mg/kg	1.4	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	10/03/2013	12:03:10	7439976	Mercury	0.0050	LJ	mg/kg	0.11	09/12/2013	10/01/2013	09/14/2013	Low	88.4	0.53	100	CV	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440020	Nickel	2.5		mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7440097	Potassium	1000		mg/kg	456	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7782492	Selenium	1.9	U	mg/kg	1.9	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440224	Silver	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	15:03:11	7440235	Sodium	732		mg/kg	456	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.24	100	P	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440280	Thallium	0.38	U	mg/kg	0.38	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440622	Vanadium	6.3	J	mg/kg	1.9	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A79	M1709-10A	S	Field_Sample	09/29/2013	17:07:13	7440666	Zinc	20.8		mg/kg	0.76	09/12/2013	09/25/2013	09/14/2013	Low	88.4	1.49	100	MS	MW-11-0.0-0.5 Dup
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7429905	Aluminum	5770		mg/kg	15.6	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440360	Antimony	1.1	UJ	mg/kg	1.1	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440382	Arsenic	1.1	J	mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440393	Barium	58.0		mg/kg	5.4	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440417	Beryllium	0.54	U	mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440439	Cadmium	0.54	U	mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7440702	Calcium	16700		mg/kg	391	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440473	Chromium	4.4	J	mg/kg	1.1	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440484	Cobalt	1.7		mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440508	Copper	2.8		mg/kg	1.1	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0

43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7439896	Iron	3800	J	mg/kg	7.8	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7439921	Lead	6.0		mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7439954	Magnesium	2440		mg/kg	391	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7439965	Manganese	95.2	J	mg/kg	1.2	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	10/03/2013	12:04:38	7439976	Mercury	0.018	LJ	mg/kg	0.11	09/12/2013	10/01/2013	09/14/2013	Low	87.5	0.51	100	CV	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440020	Nickel	3.1		mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7440097	Potassium	1300		mg/kg	391	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7782492	Selenium	2.7	U	mg/kg	2.7	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440224	Silver	0.54	U	mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	15:06:52	7440235	Sodium	948		mg/kg	391	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.46	100	P	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440280	Thallium	0.54	U	mg/kg	0.54	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440622	Vanadium	5.8	J	mg/kg	2.7	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A80	M1709-11A	S	Field_Sample	09/29/2013	17:11:59	7440666	Zinc	12.5		mg/kg	1.1	09/12/2013	09/25/2013	09/14/2013	Low	87.5	1.06	100	MS	MW-11-0.5-2.0
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7429905	Aluminum	2260		mg/kg	19.4	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440360	Antimony	1.1	UJ	mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440382	Arsenic	1.0	J	mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440393	Barium	177		mg/kg	5.5	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440417	Beryllium	0.55	U	mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440439	Cadmium	0.55	U	mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7440702	Calcium	9570		mg/kg	486	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440473	Chromium	1.6	J	mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440484	Cobalt	0.79		mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440508	Copper	4.0		mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7439896	Iron	3180	J	mg/kg	9.7	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7439921	Lead	8.8		mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7439954	Magnesium	978		mg/kg	486	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7439965	Manganese	49.5	J	mg/kg	1.5	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	10/03/2013	11:45:20	7439976	Mercury	0.10	U	mg/kg	0.10	09/11/2013	10/01/2013	09/13/2013	Low	85.1	0.56	100	CV	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440020	Nickel	1.3		mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7440097	Potassium	515		mg/kg	486	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7782492	Selenium	2.7	U	mg/kg	2.7	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440224	Silver	0.55	U	mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	14:15:14	7440235	Sodium	825		mg/kg	486	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.21	100	P	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440280	Thallium	0.55	U	mg/kg	0.55	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440622	Vanadium	4.2	J	mg/kg	2.7	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A82	M1709-02A	S	Field_Sample	09/29/2013	15:51:47	7440666	Zinc	31.8		mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.1	1.07	100	MS	MW-12-0.0-0.5
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7429905	Aluminum	9000		mg/kg	19.7	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440360	Antimony	1.1	UJ	mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440382	Arsenic	2.5	J	mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440393	Barium	35.0		mg/kg	5.3	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440417	Beryllium	0.53	U	mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440439	Cadmium	0.53	U	mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:50:59	7440702	Calcium	38000		mg/kg	987	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440473	Chromium	5.8	J	mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440484	Cobalt	3.2		mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440508	Copper	3.2		mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7439896	Iron	9810	J	mg/kg	9.9	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7439921	Lead	4.8		mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7439954	Magnesium	2370		mg/kg	494	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7439965	Manganese	408	J	mg/kg	1.5	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	10/03/2013	11:46:48	7439976	Mercury	0.014	LJ	mg/kg	0.11	09/11/2013	10/01/2013	09/13/2013	Low	85.9	0.55	100	CV	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440020	Nickel	4.6		mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7440097	Potassium	1970		mg/kg	494	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7782492	Selenium	2.7	U	mg/kg	2.7	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440224	Silver	0.53	U	mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	14:18:54	7440235	Sodium	3160		mg/kg	494	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.18	100	P	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440280	Thallium	0.53	U	mg/kg	0.53	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440622	Vanadium	9.0	J	mg/kg	2.7	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0
43795	MF2A74	MF2A83	M1709-03A	S	Field_Sample	09/29/2013	15:56:35	7440666	Zinc	19.5		mg/kg	1.1	09/11/2013	09/25/2013	09/13/2013	Low	85.9	1.09	100	MS	MW-12-0.5-2.0

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 43795 SDG No. MF2A74 SDG Nos. To Follow Mod. Ref. No. Date Rec 10/22/13

EPA Lab ID: MITKEM

Lab location: North Kingstown, RI

Region: 6 Audit No.: 43795/MF2A74

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Item Description

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited [signature] Sonya Meekins/ESAT Data Reviewer Date 10/30/13

Audited ____ ____ Date ____

Signature Printed Name/Title

DC-2

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/13/2013

CarrierName: FedEx

AirbillNo: 7966 3717 3501

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091213-111016-0048

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A00	Soil/ Trent England	Grab	TM+HG(21)	6-451004 (Ice to 4C) (1)	MW-13-0.0-0.5	09/12/2013 08:15	F2A00	Field Sample
MF2A01	Soil/ Trent England	Grab	TM+HG(21)	6-451009 (Ice to 4C) (1)	MW-13-0.5-2.0	09/12/2013 08:25		Field Sample
MF2A02	Soil/ Trent England	Grab	TM+HG(21)	6-451014 (Ice to 4C) (1)	MW-13-2.0-5.0	09/12/2013 08:35		Field Sample
MF2A49	Soil/ Trent England	Grab	TM+HG(21)	6-451244 (Ice to 4C) (1)	MW-01-0.0-0.5 Dup	09/11/2013 08:25		Field Duplicate
MF2A51	Soil/ Trent England	Grab	TM+HG(21)	6-451254 (Ice to 4C) (1)	MW-01-2.0-5.0	09/11/2013 08:45		Field Sample
MF2A78	Soil/ Trent England	Grab	TM+HG(21)	6-451384 (Ice to 4C) (1)	MW-11-0.0-0.5	09/12/2013 09:10		Field Sample
MF2A79	Soil/ Trent England	Grab	TM+HG(21)	6-451389 (Ice to 4C) (1)	MW-11-0.0-0.5 Dup	09/12/2013 09:10		Field Duplicate
MF2A80	Soil/ Trent England	Grab	TM+HG(21)	6-451394 (Ice to 4C) (1)	MW-11-0.5-2.0	09/12/2013 09:20		Field Sample
MF2B39	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451647 (Ice to 4C) (1)	SDB-IC07-0.0-0.5	09/11/2013 16:00		Field Sample
MF2B54	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451695 (Ice to 4C) (1)	SD5-01-0.0-0.5 Dup	09/11/2013 10:40		Field Duplicate

Sample(s) to be used for Lab QC: MF2A00 - Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.

ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9-13-13	[signature]	09-13-13	0800						
	[signature]	9-13-13	[signature]	09-13-13	0800						
	[signature]	09-13-13									

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USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/13/2013

CarrierName: FedEx

AirbillNo: 7966 3717 3410

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091213-124747-0054

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A17	Soil/ Trent England	Grab	TM+HG(21)	6-451089 (Ice to 4C) (1)	SO3-01-0.0-0.5	09/09/2013 13:15		Field Sample
MF2A26	Soil/ Trent England	Grab	TM+HG(21)	6-451134 (Ice to 4C) (1)	SO3-03-2.0-5.0	09/09/2013 15:45		Field Sample
MF2A35	Soil/ Trent England	Grab	TM+HG(21)	6-451179 (Ice to 4C) (1)	SO4-02-0.5-2.0	09/10/2013 10:55		Field Sample
MF2A36	Soil/ Trent England	Grab	TM+HG(21)	6-451184 (Ice to 4C) (1)	SO4-02-2.0-3.0	09/10/2013 11:05		Field Sample
MF2A38	Soil/ Trent England	Grab	TM+HG(21)	6-451194 (Ice to 4C) (1)	SO4-03-0.5-2.0	09/10/2013 11:30		Field Sample
MF2B21	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451591 (Ice to 4C) (1)	SDB-IC02-0.0-0.5	09/09/2013 14:40		Field Sample
MF2B24	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451600 (Ice to 4C) (1)	SDB-IC02-0.0-0.5 Dup	09/09/2013 14:40		Field Duplicate
MF2B30	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451618 (Ice to 4C) (1)	SDB-IC04-0.0-0.5	09/10/2013 09:50		Field Sample
MF2B42	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451656 (Ice to 4C) (1)	SDB-IC08-0.0-0.5	09/10/2013 16:20		Field Sample
MF2B45	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451665 (Ice to 4C) (1)	SDB-IC09-0.0-0.5	09/10/2013 15:40		Field Sample

Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.
ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		9-13-13		09-13-13	0800						
		9-13-13		09-13-13	0800						
		09-13-13									

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USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/13/2013

CarrierName: FedEx

AirbillNo: 7966 3717 2560

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091213-131023-0055

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A18	Soil/ Trent England	Grab	TM+HG(21)	6-451094 (Ice to 4C) (1)	SO3-01-0.5-2.0	09/09/2013 13:30		Field Sample
MF2A23	Soil/ Trent England	Grab	TM+HG(21)	6-451119 (Ice to 4C) (1)	SO3-03-0.0-0.5	09/09/2013 15:15		Field Sample
MF2A24	Soil/ Trent England	Grab	TM+HG(21)	6-451124 (Ice to 4C) (1)	SO3-03-0.0-0.5 Dup	09/09/2013 15:15		Field Duplicate
MF2A25	Soil/ Trent England	Grab	TM+HG(21)	6-451129 (Ice to 4C) (1)	SO3-03-0.5-2.0	09/09/2013 15:30		Field Sample
MF2A72	Soil/ Trent England	Grab	TM+HG(21)	6-451354 (Ice to 4C) (1)	MW-08-0.0-0.5	09/11/2013 13:50		Field Sample
MF2A76	Soil/ Trent England	Grab	TM+HG(21)	6-451374 (Ice to 4C) (1)	MW-10-0.5-2.0	09/11/2013 13:00		Field Sample
MF2A77	Soil/ Trent England	Grab	TM+HG(21)	6-451379 (Ice to 4C) (1)	MW-10-2.0-4.5	09/11/2013 13:15		Field Sample
MF2B18	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451582 (Ice to 4C) (1)	SDB-IC01-0.0-0.5	09/09/2013 12:45		Field Sample
MF2B27	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451609 (Ice to 4C) (1)	SDB-IC03-0.0-0.5	09/09/2013 16:15		Field Sample
MF2B60	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451719 (Ice to 4C) (1)	SD5-03-0.0-0.5	09/11/2013 14:10		Field Sample

Sample(s) to be used for Lab QC: MF2B60 - Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.

ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9-13-13	[signature]	09-13-13							
	Alex Spill	9-13-13	[signature]	09-13-13							
	[signature]	9-13-13									

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USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/12/2013

CarrierName: FedEx

AirbillNo: 7966 3716 5890

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091213-065349-0035

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2A48	Soil/ Trent England	Grab	TM+HG(21)	6-451239 (Ice to 4C) (1)	MW-01-0.0-0.5	09/11/2013 08:25		Field Sample
MF2A50	Soil/ Trent England	Grab	TM+HG(21)	6-451249 (Ice to 4C) (1)	MW-01-0.5-2.0	09/11/2013 08:35		Field Sample
MF2A58	Soil/ Trent England	Grab	TM+HG(21)	6-451289 (Ice to 4C) (1)	MW-04-0.0-0.5	09/11/2013 09:10		Field Sample
MF2A59	Soil/ Trent England	Grab	TM+HG(21)	6-451294 (Ice to 4C) (1)	MW-04-0.5-2.0	09/11/2013 09:20		Field Sample
MF2A60	Soil/ Trent England	Grab	TM+HG(21)	6-451299 (Ice to 4C) (1)	MW-04-2.0-5.0	09/11/2013 09:30		Field Sample
MF2A74	Soil/ Trent England	Grab	TM+HG(21)	6-451364 (Ice to 4C) (1)	MW-08-2.0-5.0	09/11/2013 14:15		Field Sample
MF2A82	Soil/ Trent England	Grab	TM+HG(21)	6-451404 (Ice to 4C) (1)	MW-12-0.0-0.5	09/11/2013 10:50		Field Sample
MF2A83	Soil/ Trent England	Grab	TM+HG(21)	6-451409 (Ice to 4C) (1)	MW-12-0.5-2.0	09/11/2013 11:00		Field Sample
MF2B51	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451683 (Ice to 4C) (1)	SD5-01-0.0-0.5	09/11/2013 10:40		Field Sample
MF2B57	Sediment/ Alex Spiller	Grab	TM+HG(21)	6-451707 (Ice to 4C) (1)	SD5-02-0.0-0.5	09/11/2013 12:20		Field Sample

Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.
ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM+HG=TM+Hg by ISM01.3, ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Alex Spill	09-12-13	[signature]	09-12-13	0800						
	[signature]	9-12-13	[signature]	09-12-13	0800						
	[signature]	09-12-13									

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ADDENDUM

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2A74 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183650 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	**ICP_AES**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS51, MF2A26, MF2A51
	Calcium PBS51 , MF2A26 , MF2A51
Blanks	**ICP_AES**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS51, MF2A26, MF2A51
	Calcium PBS51 , MF2A26 , MF2A51
Blanks	**ICP_AES**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Calcium LCS51 , MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83
Blanks	**ICP_AES**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Calcium LCS51 , MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83
Blanks	**ICP_AES**
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A26, MF2A51
	Calcium MF2A26 , MF2A51
Blanks	**ICP_AES**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS51, MF2A00, MF2A00D, MF2A00L, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Calcium LCS51 , MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83

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Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A00, MF2A00D, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, PBS54
	Vanadium MF2A00L , MF2A01 , MF2A26 , MF2A49 , MF2A51 , MF2A77
	Barium MF2A26 , MF2A51
	Cobalt MF2A00L , MF2A01 , MF2A26 , MF2A49 , MF2A77
	Beryllium MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83
	Antimony MF2A25 , MF2A72 , PBS54
	Cadmium MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A80 , MF2A82 , MF2A83
	Silver MF2A00 , MF2A00D , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A51 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A02, MF2A00, MF2A00D, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, PBS54
	Vanadium MF2A01 , MF2A26 , MF2A49 , MF2A51 , MF2A77
	Arsenic MF2A02 , MF2A26 , MF2A49 , MF2A51 , MF2A77
	Barium MF2A26 , MF2A51
	Cobalt MF2A01 , MF2A26 , MF2A49 , MF2A77
	Beryllium MF2A00 , MF2A00D , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83
	Antimony MF2A25 , MF2A72 , PBS54
	Cadmium MF2A00 , MF2A00D , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A80 , MF2A82 , MF2A83
	Silver MF2A00 , MF2A00D , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A51 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82
Blanks	**ICP_MS**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A00A, MF2A00L, MF2A01, MF2A49,MF2A77, MF2A26, MF2A51
	Vanadium LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83

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Blanks

Blanks		ICP_MS
	Selenium LCS54 , MF2A00S	
	Arsenic MF2A00A	
	Cobalt LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83	
	Barium LCS54 , MF2A00 , MF2A00D , MF2A00L , MF2A00S , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83	
	Beryllium LCS54 , MF2A00S	
	Antimony LCS54 , MF2A00A , MF2A00S	
	Thallium LCS54 , MF2A00S	
	Cadmium LCS54 , MF2A00S , MF2A79	
	Silver LCS54 , MF2A00S	
	Lead LCS54 , MF2A00 , MF2A00D , MF2A00L , MF2A00S , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A26 , MF2A49 , MF2A51 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83	
Blanks		**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.	
	LCS54, MF2A00, MF2A00D, MF2A00S, MF2A02, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A17, MF2A77, MF2A00A, MF2A26	
	Vanadium LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A02 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83	
	Selenium LCS54 , MF2A00S	
	Arsenic MF2A25 , MF2A72 , MF2A76	
	Cobalt LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A82 , MF2A83	
	Barium LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A17 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A82 , MF2A83	
	Beryllium LCS54 , MF2A00S	
	Antimony LCS54 , MF2A00A	
	Thallium LCS54 , MF2A00S	
	Cadmium LCS54 , MF2A00S	
	Copper LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A74 , MF2A82 , MF2A83	
	Silver LCS54 , MF2A00S	
	Lead LCS54 , MF2A00 , MF2A00D , MF2A00S , MF2A17 , MF2A25 , MF2A26 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A82 , MF2A83	

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Blanks

Blanks	**ICP_MS**
Blanks	**ICP_MS**
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A26, MF2A51, MF2A77, MF2A25, MF2A72
	Zinc MF2A26 , MF2A51 , MF2A77
	Antimony MF2A25 , MF2A72
Blanks	**ICP_MS**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS54, MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A49, MF2A72, MF2A74, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83, MF2A00A
	Zinc LCS54 , MF2A00 , MF2A00D , MF2A00L , MF2A00S ,MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83
	Antimony LCS54 , MF2A00A , MF2A00S

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Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A00, MF2A00D, MF2A01, MF2A17, MF2A23, MF2A24, MF2A25, MF2A49, MF2A74, MF2A76, MF2A79, MF2A80, MF2A83
	Mercury MF2A00 , MF2A00D , MF2A01 , MF2A17 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A74 , MF2A76 , MF2A79 , MF2A80 , MF2A83

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Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A00L, MF2A17, MF2A23, MF2A24, MF2A25, MF2A72, MF2A74, MF2A76, PBS51, MF2A26, MF2A51, MF2A01, MF2A49, MF2A77
	Sodium MF2A00L , MF2A17 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76
	Calcium PBS51 , MF2A26 , MF2A51
	Potassium MF2A00L , MF2A01 , MF2A24 , MF2A26 , MF2A49 , MF2A51 , MF2A77
	Magnesium MF2A00L , MF2A01 , MF2A26 , MF2A49 , MF2A77

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Data Review Reports

Detection Limit

Detection Limit		ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.	
	MF2A00L, MF2A01, MF2A26, MF2A49, MF2A51, MF2A77, MF2A02, MF2A74, PBS54, MF2A00, MF2A00D, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A72, MF2A76, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83	
	Vanadium MF2A00L , MF2A01 , MF2A26 , MF2A49 , MF2A51 , MF2A77	
	Arsenic MF2A02 , MF2A26 , MF2A49 , MF2A51 , MF2A74 , MF2A77	
	Chromium MF2A26 , MF2A49 , MF2A51 , MF2A77	
	Barium MF2A26 , MF2A51	
	Cobalt MF2A00L , MF2A01 , MF2A26 , MF2A49 , MF2A77	
	Zinc MF2A26 , MF2A51 , MF2A77 , PBS54	
	Nickel MF2A26 , MF2A49 , MF2A51	
	Beryllium MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A79 , MF2A80 , MF2A82 , MF2A83	
	Antimony MF2A25 , MF2A72 , PBS54	
	Cadmium MF2A00 , MF2A00D , MF2A00L , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A72 , MF2A74 , MF2A76 , MF2A78 , MF2A80 , MF2A82 , MF2A83	
	Copper MF2A26 , MF2A51 , MF2A77	
	Silver MF2A00 , MF2A00D , MF2A01 , MF2A02 , MF2A17 , MF2A18 , MF2A23 , MF2A24 , MF2A25 , MF2A49 , MF2A51 , MF2A72 , MF2A74 , MF2A76 , MF2A77 , MF2A78 , MF2A79 , MF2A80 , MF2A82	

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Data Review Reports

Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Aluminum MF2A00D
	Manganese MF2A00D
	Iron MF2A00D
Duplicates	**ICP_AES**
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Magnesium MF2A00D

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Data Review Reports

Duplicates

Duplicates		**ICP_MS**
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.	
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83	
	Chromium MF2A00D	
	Nickel MF2A00D	
	Lead MF2A00D	
Duplicates		**ICP_MS**
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.	
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83	
	Arsenic MF2A00D	
	Cobalt MF2A00D	

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Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00D, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83

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Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83

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Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A00, MF2A00A, MF2A00D, MF2A00L, MF2A00S, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83

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Data Review Reports

Matrix Spikes

Matrix Spikes		**ICP_MS**
NG08	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.	
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83	
	Antimony MF2A00S	
Matrix Spikes		**ICP_MS**
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.	
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83	
	Arsenic MF2A00S	

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Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2A00, MF2A01, MF2A02, MF2A17, MF2A18, MF2A23, MF2A24, MF2A25, MF2A26, MF2A49, MF2A51, MF2A72, MF2A74, MF2A76, MF2A77, MF2A78, MF2A79, MF2A80, MF2A82, MF2A83
	Vanadium MF2A00L
	Chromium MF2A00L