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

July 13, 2015

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

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

TO: Mark Hayes, On-Scene Coordinator (6SF-PR)
Katrina Coltrain, Remedial Project Manager (6SF-RL)

Site: **WILCOX OIL**

Case#: **45299**

SDG#: **MF9M15**

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.

9754709

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: July 10, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1502-212-0011
TDF No.:	6-15-298A
ESAT File No.:	I-0665

Attached is the data review summary for Case # 45299
SDG # MF9M15
Site Wilcox Oil

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

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	45299	SITE	Wilcox Oil
LABORATORY	DATAC	NO. OF SAMPLES	13
CONTRACT#	EP-W-09-036	MATRIX	Soil
SDG#	MF9M15	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Sonya Meekins
SF#	303DD2GG	COMPLETION DATE	July 10, 2015

SAMPLE NO.					
	MF9M15	MF9M71	MF9M75	MF9M79	
	MF9M20	MF9M72	MF9M76		
	MF9M69	MF9M73	MF9M77		
	MF9M70	MF9M74	MF9M78		

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	O	O
6. ICP QC	O	
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 matrix spike recovery was below 30 percent.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 45299 **SDG** MF9M15 **SITE** Wilcox Oil **LAB** DATAC

COMMENTS: This SDG consisted of 13 soil samples for total metals (by ICP-AES and ICP-MS) and mercury analyses following SOW ISM01.3. The sampler designated sample MF9M15 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 diluted (2X) and reanalyzed ICP-AES sample MF9M77 because of a high iron concentration. Most analytes were reported at concentrations above the SQLs in the 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: The antimony result was qualified for all samples because of a matrix spike recovery problem. 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	VALDQAI	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVI	FINVOL	METHOD	STATLOC
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7429905	Aluminum	4170		mg/kg	18.0	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440360	Antimony	0.89	UJ	mg/kg	0.89	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440382	Arsenic	1.0		mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440393	Barium	42.7		mg/kg	4.4	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440417	Beryllium	0.44	U	mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440439	Cadmium	0.44	U	mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7440702	Calcium	792		mg/kg	451	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440473	Chromium	9.2		mg/kg	0.89	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440484	Cobalt	2.4		mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440508	Copper	4.6		mg/kg	0.89	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7439896	Iron	5360		mg/kg	9.0	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7439921	Lead	19.0		mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7439954	Magnesium	451	U	mg/kg	451	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7439965	Manganese	141		mg/kg	1.4	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/12/2015	13:09:50	7439976	Mercury	0.082	LJ	mg/kg	0.11	06/01/2015	06/11/2015	06/02/2015	Low	87.327	0.51	100	CV	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440020	Nickel	5.2		mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7440097	Potassium	483		mg/kg	451	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7782492	Selenium	2.2	U	mg/kg	2.2	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440224	Silver	0.44	U	mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/19/2015	14:12:32	7440235	Sodium	451	U	mg/kg	451	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.265	100	P	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440280	Thallium	0.44	U	mg/kg	0.44	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440622	Vanadium	13.4		mg/kg	2.2	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M15	1515392001	S	Field_Sample	06/17/2015	18:04:23	7440666	Zinc	18.6		mg/kg	0.89	06/01/2015	06/10/2015	06/02/2015	Low	87.327	1.2933	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7429905	Aluminum	4270		mg/kg	19.6	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440360	Antimony	0.85	UJ	mg/kg	0.85	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440382	Arsenic	1.4		mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440393	Barium	51.9		mg/kg	4.3	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440417	Beryllium	0.43	U	mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440439	Cadmium	0.43	U	mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7440702	Calcium	4150		mg/kg	490	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440473	Chromium	10.0		mg/kg	0.85	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440484	Cobalt	2.7		mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440508	Copper	7.0		mg/kg	0.85	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7439896	Iron	7150		mg/kg	9.8	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7439921	Lead	28.6		mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7439954	Magnesium	1030		mg/kg	490	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7439965	Manganese	158		mg/kg	1.5	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/12/2015	13:13:14	7439976	Mercury	0.027	LJ	mg/kg	0.12	06/01/2015	06/11/2015	06/02/2015	Low	79.708	0.53	100	CV	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440020	Nickel	5.8		mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7440097	Potassium	704		mg/kg	490	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7782492	Selenium	0.44	LJ	mg/kg	2.1	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440224	Silver	0.43	U	mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/19/2015	13:36:06	7440235	Sodium	490	U	mg/kg	490	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.2786	100	P	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440280	Thallium	0.43	U	mg/kg	0.43	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440622	Vanadium	13.8		mg/kg	2.1	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M20	1515392004	S	Field_Sample	06/17/2015	18:26:17	7440666	Zinc	21.8		mg/kg	0.85	06/01/2015	06/10/2015	06/02/2015	Low	79.708	1.4742	100	MS	008
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7429905	Aluminum	3840		mg/kg	16.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440360	Antimony	1.1	UJ	mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440382	Arsenic	1.5		mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440393	Barium	46.3		mg/kg	5.3	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440417	Beryllium	0.53	U	mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440439	Cadmium	0.53	U	mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7440702	Calcium	1810		mg/kg	403	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440473	Chromium	8.8		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440484	Cobalt	1.7		mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440508	Copper	5.4		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7439896	Iron	5660		mg/kg	8.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7439921	Lead	31.6		mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7439954	Magnesium	595		mg/kg	403	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7439965	Manganese	169		mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/12/2015	13:14:20	7439976	Mercury	0.015	LJ	mg/kg	0.11	06/03/2015	06/11/2015	06/04/2015	Low	84.995	0.55	100	CV	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440020	Nickel	4.3		mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7440097	Potassium	597		mg/kg	403	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7782492	Selenium	0.33	LJ	mg/kg	2.7	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440224	Silver	0.53	U	mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/19/2015	13:38:56	7440235	Sodium	403	U	mg/kg	403	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.4559	100	P	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440280	Thallium	0.53	U	mg/kg	0.53	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440622	Vanadium	11.8		mg/kg	2.7	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M69	1515633001	S	Field_Sample	06/17/2015	18:30:40	7440666	Zinc	21.5		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	84.995	1.0993	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7429905	Aluminum	3540		mg/kg	19.7	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021

45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440360	Antimony	0.79	UJ	mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440382	Arsenic	1.4		mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440393	Barium	44.0		mg/kg	4.0	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440417	Beryllium	0.40	U	mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440439	Cadmium	0.40	U	mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7440702	Calcium	2670		mg/kg	492	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440473	Chromium	10.0		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440484	Cobalt	1.6		mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440508	Copper	4.0		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7439896	Iron	5310		mg/kg	9.8	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7439921	Lead	40.9		mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7439954	Magnesium	502		mg/kg	492	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7439965	Manganese	132		mg/kg	1.5	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/12/2015	13:15:27	7439976	Mercury	0.012	LJ	mg/kg	0.11	06/03/2015	06/11/2015	06/04/2015	Low	86.911	0.53	100	CV	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440020	Nickel	4.2		mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7440097	Potassium	492	U	mg/kg	492	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7782492	Selenium	0.30	LJ	mg/kg	2.0	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440224	Silver	0.40	U	mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/19/2015	13:41:46	7440235	Sodium	492	U	mg/kg	492	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.172	100	P	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440280	Thallium	0.40	U	mg/kg	0.40	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440622	Vanadium	13.1		mg/kg	2.0	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M70	1515633002	S	Field_Sample	06/17/2015	18:35:03	7440666	Zinc	8.6		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	86.911	1.4534	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7429905	Aluminum	5440		mg/kg	17.9	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440360	Antimony	0.87	UJ	mg/kg	0.87	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440382	Arsenic	1.8		mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440393	Barium	56.5		mg/kg	4.4	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440417	Beryllium	0.48		mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440439	Cadmium	0.44	U	mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7440702	Calcium	1010		mg/kg	448	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440473	Chromium	13.3		mg/kg	0.87	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440484	Cobalt	3.6		mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440508	Copper	4.7		mg/kg	0.87	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7439896	Iron	7100		mg/kg	9.0	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7439921	Lead	14.5		mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7439954	Magnesium	636		mg/kg	448	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7439965	Manganese	113		mg/kg	1.3	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/12/2015	13:16:34	7439976	Mercury	0.0062	LJ	mg/kg	0.11	06/03/2015	06/11/2015	06/04/2015	Low	83.253	0.55	100	CV	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440020	Nickel	6.0		mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7440097	Potassium	606		mg/kg	448	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7782492	Selenium	2.2	U	mg/kg	2.2	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440224	Silver	0.44	U	mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/19/2015	13:44:39	7440235	Sodium	448	U	mg/kg	448	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3416	100	P	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440280	Thallium	0.44	U	mg/kg	0.44	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440622	Vanadium	19.4		mg/kg	2.2	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M71	1515633003	S	Field_Sample	06/17/2015	18:39:26	7440666	Zinc	9.4		mg/kg	0.87	06/03/2015	06/10/2015	06/04/2015	Low	83.253	1.3822	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7429905	Aluminum	2730		mg/kg	16.5	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440360	Antimony	1.0	UJ	mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440382	Arsenic	1.8		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440393	Barium	36.6		mg/kg	5.1	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440417	Beryllium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440439	Cadmium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7440702	Calcium	995		mg/kg	412	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440473	Chromium	9.6		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440484	Cobalt	1.8		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440508	Copper	3.7		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7439896	Iron	5100		mg/kg	8.2	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7439921	Lead	11.1		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7439954	Magnesium	480		mg/kg	412	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7439965	Manganese	167		mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/12/2015	13:17:41	7439976	Mercury	0.011	LJ	mg/kg	0.11	06/03/2015	06/11/2015	06/04/2015	Low	84.284	0.55	100	CV	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440020	Nickel	4.1		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7440097	Potassium	412	U	mg/kg	412	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7782492	Selenium	2.6	U	mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440224	Silver	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/19/2015	13:47:29	7440235	Sodium	412	U	mg/kg	412	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.4434	100	P	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440280	Thallium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440622	Vanadium	12.6		mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M72	1515633004	S	Field_Sample	06/17/2015	18:43:49	7440666	Zinc	24.9		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	84.284	1.1584	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7429905	Aluminum	4300		mg/kg	18.4	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440360	Antimony	1.2	UJ	mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440382	Arsenic	1.5		mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021

45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440393	Barium	35.5		mg/kg	5.9	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440417	Beryllium	0.59	U	mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440439	Cadmium	0.59	U	mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7440702	Calcium	723		mg/kg	460	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440473	Chromium	10.7		mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440484	Cobalt	1.5		mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440508	Copper	3.2		mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7439896	Iron	7290		mg/kg	9.2	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7439921	Lead	4.1		mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7439954	Magnesium	497		mg/kg	460	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7439965	Manganese	83.7		mg/kg	1.4	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/12/2015	13:18:49	7439976	Mercury	0.0045	LJ	mg/kg	0.12	06/03/2015	06/11/2015	06/04/2015	Low	83.665	0.51	100	CV	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440020	Nickel	4.7		mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7440097	Potassium	460	U	mg/kg	460	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7782492	Selenium	3.0	U	mg/kg	3.0	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440224	Silver	0.59	U	mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/19/2015	13:50:19	7440235	Sodium	460	U	mg/kg	460	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.2996	100	P	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440280	Thallium	0.59	U	mg/kg	0.59	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440622	Vanadium	14.7		mg/kg	3.0	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M73	1515633005	S	Field_Sample	06/17/2015	18:48:13	7440666	Zinc	8.6		mg/kg	1.2	06/03/2015	06/10/2015	06/04/2015	Low	83.665	1.005	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7429905	Aluminum	5710		mg/kg	17.0	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440360	Antimony	1.0	UJ	mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440382	Arsenic	1.9		mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440393	Barium	44.9		mg/kg	5.2	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440417	Beryllium	0.52	U	mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440439	Cadmium	0.52	U	mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7440702	Calcium	809		mg/kg	424	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440473	Chromium	14.2		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440484	Cobalt	2.3		mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440508	Copper	3.9		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7439896	Iron	9170		mg/kg	8.5	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7439921	Lead	3.6		mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7439954	Magnesium	625		mg/kg	424	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7439965	Manganese	59.7		mg/kg	1.3	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/12/2015	13:19:56	7439976	Mercury	0.0030	LJ	mg/kg	0.099	06/03/2015	06/11/2015	06/04/2015	Low	86.022	0.59	100	CV	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440020	Nickel	7.1		mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7440097	Potassium	494		mg/kg	424	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7782492	Selenium	2.6	U	mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440224	Silver	0.52	U	mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/19/2015	13:53:09	7440235	Sodium	424	U	mg/kg	424	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.3719	100	P	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440280	Thallium	0.52	U	mg/kg	0.52	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440622	Vanadium	18.3		mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M74	1515633006	S	Field_Sample	06/17/2015	18:52:37	7440666	Zinc	7.9		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	86.022	1.1186	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7429905	Aluminum	2740		mg/kg	19.8	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440360	Antimony	0.86	UJ	mg/kg	0.86	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440382	Arsenic	1.2		mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440393	Barium	31.9		mg/kg	4.3	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440417	Beryllium	0.43	U	mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440439	Cadmium	0.43	U	mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7440702	Calcium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440473	Chromium	6.3		mg/kg	0.86	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440484	Cobalt	1.8		mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440508	Copper	2.2		mg/kg	0.86	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7439896	Iron	4170		mg/kg	9.9	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7439921	Lead	9.6		mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7439954	Magnesium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7439965	Manganese	107		mg/kg	1.5	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/12/2015	13:21:03	7439976	Mercury	0.016	LJ	mg/kg	0.12	06/03/2015	06/11/2015	06/04/2015	Low	80.362	0.52	100	CV	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440020	Nickel	3.0		mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7440097	Potassium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7782492	Selenium	2.2	U	mg/kg	2.2	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440224	Silver	0.43	U	mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/19/2015	13:55:59	7440235	Sodium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.2604	100	P	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440280	Thallium	0.43	U	mg/kg	0.43	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440622	Vanadium	10.4		mg/kg	2.2	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M75	1515633007	S	Field_Sample	06/17/2015	18:57:00	7440666	Zinc	18.4		mg/kg	0.86	06/03/2015	06/10/2015	06/04/2015	Low	80.362	1.4372	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7429905	Aluminum	2110		mg/kg	19.8	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440360	Antimony	1.0	UJ	mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440382	Arsenic	1.1		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440393	Barium	40.0		mg/kg	5.1	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440417	Beryllium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021

45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440439	Cadmium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7440702	Calcium	558		mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440473	Chromium	5.8		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440484	Cobalt	1.4		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440508	Copper	2.0		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7439896	Iron	3570		mg/kg	9.9	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7439921	Lead	9.2		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7439954	Magnesium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7439965	Manganese	97.9		mg/kg	1.5	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/12/2015	13:22:11	7439976	Mercury	0.013	LJ	mg/kg	0.10	06/03/2015	06/11/2015	06/04/2015	Low	82.282	0.58	100	CV	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440020	Nickel	2.6		mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7440097	Potassium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7782492	Selenium	2.6	U	mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440224	Silver	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/19/2015	13:58:52	7440235	Sodium	494	U	mg/kg	494	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.2341	100	P	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440280	Thallium	0.51	U	mg/kg	0.51	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440622	Vanadium	9.5		mg/kg	2.6	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M76	1515633008	S	Field_Sample	06/17/2015	19:01:25	7440666	Zinc	16.5		mg/kg	1.0	06/03/2015	06/10/2015	06/04/2015	Low	82.282	1.1858	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7429905	Aluminum	2520		mg/kg	17.7	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440360	Antimony	1.1	UJ	mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440382	Arsenic	1.0		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440393	Barium	30.2		mg/kg	5.6	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440417	Beryllium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440439	Cadmium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7440702	Calcium	1340		mg/kg	442	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440473	Chromium	6.4		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440484	Cobalt	1.5		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440508	Copper	2.3		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:15:23	7439896	Iron	72700		mg/kg	17.7	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7439921	Lead	8.1		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7439954	Magnesium	442	U	mg/kg	442	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7439965	Manganese	335		mg/kg	1.3	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/12/2015	13:23:18	7439976	Mercury	0.0095	LJ	mg/kg	0.12	06/03/2015	06/11/2015	06/04/2015	Low	82.633	0.52	100	CV	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440020	Nickel	3.5		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7440097	Potassium	442	U	mg/kg	442	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7782492	Selenium	2.8	U	mg/kg	2.8	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440224	Silver	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/19/2015	14:01:44	7440235	Sodium	442	U	mg/kg	442	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.3677	100	P	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440280	Thallium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440622	Vanadium	10.3		mg/kg	2.8	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M77	1515633009	S	Field_Sample	06/17/2015	19:05:48	7440666	Zinc	16.7		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.633	1.0833	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7429905	Aluminum	3800		mg/kg	17.3	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440360	Antimony	0.79	UJ	mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440382	Arsenic	1.3		mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440393	Barium	39.6		mg/kg	3.9	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440417	Beryllium	0.39	U	mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440439	Cadmium	0.39	U	mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7440702	Calcium	503		mg/kg	432	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440473	Chromium	9.3		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440484	Cobalt	1.7		mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440508	Copper	2.3		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7439896	Iron	4710		mg/kg	8.6	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7439921	Lead	5.2		mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7439954	Magnesium	432	U	mg/kg	432	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7439965	Manganese	85.2		mg/kg	1.3	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/12/2015	13:24:26	7439976	Mercury	0.012	LJ	mg/kg	0.10	06/03/2015	06/11/2015	06/04/2015	Low	85.732	0.57	100	CV	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440020	Nickel	4.4		mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7440097	Potassium	432	U	mg/kg	432	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7782492	Selenium	0.31	LJ	mg/kg	2.0	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440224	Silver	0.39	U	mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/19/2015	14:04:33	7440235	Sodium	432	U	mg/kg	432	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.3534	100	P.	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440280	Thallium	0.39	U	mg/kg	0.39	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440622	Vanadium	15.3		mg/kg	2.0	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M78	1515633010	S	Field_Sample	06/17/2015	19:10:11	7440666	Zinc	13.9		mg/kg	0.79	06/03/2015	06/10/2015	06/04/2015	Low	85.732	1.478	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7429905	Aluminum	5050		mg/kg	17.6	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440360	Antimony	1.1	UJ	mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440382	Arsenic	1.8		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440393	Barium	37.2		mg/kg	5.6	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440417	Beryllium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440439	Cadmium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7440702	Calcium	610		mg/kg	441	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021

45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440473	Chromium	9.9		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440484	Cobalt	2.0		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440508	Copper	2.5		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7439896	Iron	6500		mg/kg	8.8	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7439921	Lead	7.8		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7439954	Magnesium	483		mg/kg	441	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7439965	Manganese	87.8		mg/kg	1.3	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/12/2015	13:25:33	7439976	Mercury	0.010	LJ	mg/kg	0.10	06/03/2015	06/11/2015	06/04/2015	Low	82.229	0.58	100	CV	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440020	Nickel	4.7		mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7440097	Potassium	477		mg/kg	441	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7782492	Selenium	0.37	LJ	mg/kg	2.8	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440224	Silver	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/19/2015	14:09:42	7440235	Sodium	441	U	mg/kg	441	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.3846	100	P	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440280	Thallium	0.56	U	mg/kg	0.56	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440622	Vanadium	16.9		mg/kg	2.8	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021
45299	MF9M15	MF9M79	1515633011	S	Field_Sample	06/17/2015	19:14:34	7440666	Zinc	19.5		mg/kg	1.1	06/03/2015	06/10/2015	06/04/2015	Low	82.229	1.0914	100	MS	021

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45299 SDG No. MF9M15 SDG Nos. To Follow Mod. Ref. No. Date Rec 06/25/15

EPA Lab ID: DATAC

Lab location: Salt Lake City, UT

Region: 6 Audit No.: 45299/MF9M15

Resubmitted CSF? Yes No X

Box No(s): 1

COMMENTS:

14/15 The sampler is no longer using sample tags.

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 by: Sonya Meekins/ESAT Data Reviewer Date 07/02/15

Audited by: Date

Signature Printed Name/Title

DC-2_

USEPA CLP COC (REGION COPY)
DateShipped: 6/1/2015
CarrierName: FedEx
AirbillNo: 773724751870

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #:

No: 6-060115-162623-0069
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-008-004-12-51	MF9M10	Soil/ START	Composite	TM + Hg(21)	1373 (Ice) (1)	008	06/01/2015 11:15	Field Sample
WO-008-004-24-52	MF9M12	Soil/ START	Composite	TM + Hg(21)	1383 (Ice) (1)	008	06/01/2015 11:25	Field Sample
WO-008-003-06-51	MF9M13	Soil/ START	Composite	TM + Hg(21)	1388 (Ice) (1)	008	06/01/2015 11:50	Field Sample
WO-008-003-24-51	MF9M15	Soil/ START	Composite	TM + Hg(21)	1398 (Ice) (1)	008	06/01/2015 11:55	Field Sample

Sample(s) to be used for Lab QC: WO-008-003-24-51 Tag 1398

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=CLP TM + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Cherch Weston	6/1/15 2400	FedEx	6/1/15 2400	

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USEPA CLP COC (REGION COPY)
DateShipped: 6/1/2015
CarrierName: FedEx
AirbillNo: 773724826415

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45299
Cooler #:

No: 6-060115-181941-0074
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-008-001-00-51	MF9L98	Soil/ START	Composite	TM + Hg(21)	1313 (Ice) (1)	008	06/01/2015 09:00	Field Sample
WO-008-002-06-51	MF9M06	Soil/ START	Composite	TM + Hg(21)	1353 (Ice) (1)	008	06/01/2015 10:25	Field Sample
WO-008-004-24-51	MF9M11	Soil/ START	Composite	TM + Hg(21)	1378 (Ice) (1)	008	06/01/2015 11:20	Field Sample
WO-008-003-12-51	MF9M14	Soil/ START	Composite	TM + Hg(21)	1393 (Ice) (1)	008	06/01/2015 11:55	Field Sample
WO-011-002-00-51	MF9M17	Soil/ START	Composite	TM + Hg(21)	1407 (Ice) (1)	008	06/01/2015 15:40	Field Sample
WO-011-001-00-51	MF9M18	Soil/ START	Composite	TM + Hg(21)	1412 (Ice) (1)	008	06/01/2015 15:50	Field Sample
WO-011-003-00-51	MF9M19	Soil/ START	Composite	TM + Hg(21)	1417 (Ice) (1)	008	06/01/2015 16:15	Field Sample
WO-011-004-00-51	MF9M20	Soil/ START	Composite	TM + Hg(21)	1422 (Ice) (1)	008	06/01/2015 16:30	Field Sample

Sample(s) to be used for Lab QC: WO-008-001-00-51 Tag 1313

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=CLP TM + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Uberth Wesler	6/1/15 2100	FedEx	6/1/15 2100	

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USEPA CLP COC (REGION COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749203043

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060315-193715-0100
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-021-004-00-51	MF9M51	Soil/ START	Composite	TM + Hg(21)	1572 (Ice) (1)	021	06/03/2015 08:25	Field Sample
WO-021-004-00-52	MF9M52	Soil/ START	Composite	TM + Hg(21)	1577 (Ice) (1)	021	06/03/2015 08:30	Field Sample
WO-021-005-00-51	MF9M54	Soil/ START	Composite	TM + Hg(21)	1586 (Ice) (1)	021	06/03/2015 08:45	Field Sample
WO-021-007-00-51	MF9M55	Soil/ START	Composite	TM + Hg(21)	1591 (Ice) (1)	021	06/03/2015 09:00	Field Sample
WO-021-005-06-51	MF9M63	Soil/ START	Composite	TM + Hg(21)	1631 (Ice) (1)	021	06/03/2015 10:20	Field Sample
WO-021-005-12-51	MF9M64	Soil/ START	Composite	TM + Hg(21)	1636 (Ice) (1)	021	06/03/2015 10:25	Field Sample
WO-021-004-06-51	MF9M69	Soil/ START	Composite	TM + Hg(21)	1661 (Ice) (1)	021	06/03/2015 11:20	Field Sample
WO-021-004-12-51	MF9M70	Soil/ START	Composite	TM + Hg(21)	1666 (Ice) (1)	021	06/03/2015 11:25	Field Sample
WO-021-004-24-51	MF9M71	Soil/ START	Composite	TM + Hg(21)	1671 (Ice) (1)	021	06/03/2015 11:30	Field Sample
WO-021-007-06-51	MF9M72	Soil/ START	Composite	TM + Hg(21)	1676 (Ice) (1)	021	06/03/2015 11:40	Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=CLP TM + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerk Weston	6/3/15 2100	FedEx	6/3/15 2100	

USEPA CLP COC (REGION COPY)
DateShipped: 6/3/2015
CarrierName: FedEx
AirbillNo: 773749203043

CHAIN OF CUSTODY RECORD
Wilcox Oil
Case #: 45316
Cooler #:

No: 6-060315-193715-0100
Lab: ALS Laboratory Group - Salt Lake City
Lab Contact: Meredith Edwards
Lab Phone: 801-266-7700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
WO-021-007-12-51	MF9M73	Soil/ START	Composite	TM + Hg(21)	1681 (Ice) (1)	021	06/03/2015 11:45	Field Sample
WO-021-007-24-51	MF9M74	Soil/ START	Composite	TM + Hg(21)	1686 (Ice) (1)	021	06/03/2015 11:50	Field Sample
WO-019-001-00-51	MF9M75	Soil/ START	Composite	TM + Hg(21)	1691 (Ice) (1)	021	06/03/2015 14:40	Field Sample
WO-019-001-00-52	MF9M76	Soil/ START	Composite	TM + Hg(21)	1696 (Ice) (1)	021	06/03/2015 14:45	Field Sample
WO-019-002-00-51	MF9M77	Soil/ START	Composite	TM + Hg(21)	1701 (Ice) (1)	021	06/03/2015 15:00	Field Sample
WO-019-001-06-51	MF9M78	Soil/ START	Composite	TM + Hg(21)	1706 (Ice) (1)	021	06/03/2015 15:15	Field Sample
WO-019-002-06-51	MF9M79	Soil/ START	Composite	TM + Hg(21)	1711 (Ice) (1)	021	06/03/2015 15:15	Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=CLP TM + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	CBerch Weston	6/3/15 2100	FedEx	6/3/15 2100	

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ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	Hg
NCB05	The following samples have no detected analytes. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBS
	Mercury PBS
Blanks	**Hg**
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBS
	Mercury PBS
Blanks	**Hg**
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF9M15, MF9M15D, MF9M15S, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79
	Mercury MF9M15 , MF9M15D , MF9M15S , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
Blanks	**Hg**
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF9M15, MF9M15D, MF9M15S, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79
	Mercury MF9M15 , MF9M15D , MF9M15S , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **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.
	PBS, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium PBS , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
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.
	PBS, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium PBS , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
	Calcium PBS , MF9M15L , MF9M75
	Potassium MF9M15D , MF9M15L , MF9M70 , MF9M72 , MF9M73 , MF9M75 , MF9M76 , MF9M77 , MF9M78
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.
	LCS
	Sodium LCS
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.
	LCS, MF9M20, MF9M69, MF9M71, MF9M15S, MF9M15D, MF9M15L, MF9M70, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium LCS
	Potassium LCS , MF9M20 , MF9M69 , MF9M71
	Manganese LCS , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
Blanks	**ICP_AES**
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Magnesium LCS , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
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.

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
	MF9M15D, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
	Calcium MF9M75
	Magnesium MF9M15D , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M15
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.
	LCS, MF9M15D, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium LCS
	Calcium LCS , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
	Magnesium LCS , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M79

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

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.
	PBS, MF9M15, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79
	Cobalt PBS
	Antimony PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Thallium PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cadmium PBS , MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Silver PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Lead PBS
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.
	PBS, MF9M15, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M71
	Vanadium PBS
	Chromium PBS
	Cobalt PBS
	Barium PBS
	Nickel PBS
	Beryllium PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Antimony PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Thallium PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cadmium PBS , MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Copper PBS
	Silver PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Lead PBS
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.
	LCS, MF9M15, MF9M15S, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15A

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
	Cobalt LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Antimony LCS , MF9M15S , MF9M15A
	Thallium LCS , MF9M15S
	Cadmium LCS , MF9M15S
	Silver LCS , MF9M15S
	Lead LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
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.
	LCS, MF9M15, MF9M15S, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15A
	Vanadium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Chromium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cobalt LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Barium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Nickel LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Beryllium LCS , MF9M15S
	Antimony LCS , MF9M15S , MF9M15A
	Thallium LCS , MF9M15S
	Cadmium LCS , MF9M15S
	Copper LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Silver LCS , MF9M15S
	Lead LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
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.
	MF9M15, MF9M15D, MF9M20, MF9M69, MF9M70, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M71

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
	Beryllium MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Antimony MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Thallium MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cadmium MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Silver MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
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.
	LCS, MF9M15, MF9M15S, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15A
	Vanadium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Arsenic LCS , MF9M15 , MF9M15S , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Chromium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cobalt LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Barium LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Nickel LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Beryllium LCS , MF9M15S , MF9M71
	Antimony LCS , MF9M15S , MF9M15A
	Thallium LCS , MF9M15S
	Cadmium LCS , MF9M15S
	Copper LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Silver LCS , MF9M15S
	Lead LCS , MF9M15 , MF9M15S , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

Data Review Reports

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.
	MF9M15, MF9M15D, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79
	Mercury MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

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.
	PBS, MF9M15D, MF9M15L, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Sodium PBS , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79 , MF9M15
	Calcium PBS , MF9M15L , MF9M75
	Potassium MF9M15D , MF9M15L , MF9M70 , MF9M72 , MF9M73 , MF9M75 , MF9M76 , MF9M77 , MF9M78
	Magnesium PBS , MF9M15D , MF9M15L , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M15

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Lab DATAC(ALS Environmental) **SDG** MF9M15 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216766 **SOW** ISM01.3

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.
	PBS, MF9M20, MF9M69, MF9M70, MF9M78, MF9M79, MF9M15L, MF9M15, MF9M15D, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M71
	Vanadium PBS
	Selenium MF9M20 , MF9M69 , MF9M70 , MF9M78 , MF9M79
	Arsenic PBS , MF9M15L
	Chromium PBS
	Cobalt PBS
	Barium PBS
	Nickel PBS
	Beryllium PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Antimony PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Thallium PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Cadmium PBS , MF9M15 , MF9M15D , MF9M20 , MF9M69 , MF9M70 , MF9M72 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Copper PBS
	Silver PBS , MF9M15 , MF9M15D , MF9M15L , MF9M20 , MF9M69 , MF9M70 , MF9M71 , MF9M72 , MF9M73 , MF9M74 , MF9M75 , MF9M76 , MF9M77 , MF9M78 , MF9M79
	Lead PBS

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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.
	MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79, MF9M15
	Aluminum MF9M15D
	Manganese MF9M15D

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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.
	MF9M15, MF9M20, MF9M69, MF9M70, MF9M71, MF9M72, MF9M73, MF9M74, MF9M75, MF9M76, MF9M77, MF9M78, MF9M79
	Antimony MF9M15S