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

July 20, 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#: **MF9K02**

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.

9754686

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: July 15, 2015

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

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

SUBJECT: CLP Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-12
ESAT Doc. No.:	1502-212-0014
TDF No.:	6-15-314A
ESAT File No.:	I-0668

Attached is the data review summary for Case # 45299
SDG # MF9K02
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#	MF9K02	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Sonya Meekins
SF#	303DD2GG	COMPLETION DATE	July 15, 2015

SAMPLE NO.					
	MF9K02	MF9K06	MF9K10	MF9K14	
	MF9K03	MF9K07	MF9K11		
	MF9K04	MF9K08	MF9K12		
	MF9K05	MF9K09	MF9K13		

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** MF9K02 **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 MF9K07 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. 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 results were 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	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7429905	Aluminum	3580		mg/kg	15.5	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440360	Antimony	0.92	UJ	mg/kg	0.92	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440382	Arsenic	2.4		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440393	Barium	61.9		mg/kg	4.6	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440417	Beryllium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440439	Cadmium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7440702	Calcium	1960		mg/kg	388	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440473	Chromium	11.3		mg/kg	0.92	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440484	Cobalt	3.3		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440508	Copper	96.8		mg/kg	0.92	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7439896	Iron	7640		mg/kg	7.8	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7439921	Lead	43.6		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7439954	Magnesium	632		mg/kg	388	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7439965	Manganese	194		mg/kg	1.2	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	07/01/2015	12:25:56	7439976	Mercury	0.018	LJ	mg/kg	0.095	06/08/2015	07/01/2015	06/13/2015	Low	94.093	0.56	100	CV	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440020	Nickel	6.7		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7440097	Potassium	825		mg/kg	388	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7782492	Selenium	2.3	U	mg/kg	2.3	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440224	Silver	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/30/2015	13:29:37	7440235	Sodium	388	U	mg/kg	388	06/08/2015	06/18/2015	06/13/2015	Low	94.093	1.3749	100	P	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440280	Thallium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440622	Vanadium	14.7		mg/kg	2.3	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K02	1516424001	S	Field_Sample	06/29/2015	16:08:34	7440666	Zinc	83.1		mg/kg	0.92	06/08/2015	06/26/2015	06/13/2015	Low	94.093	1.1549	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7429905	Aluminum	3010		mg/kg	15.6	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440360	Antimony	0.89	UJ	mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440382	Arsenic	2.0		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440393	Barium	43.8		mg/kg	4.5	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440417	Beryllium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440439	Cadmium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7440702	Calcium	1090		mg/kg	390	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440473	Chromium	9.1		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440484	Cobalt	2.3		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440508	Copper	104		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7439896	Iron	6460		mg/kg	7.8	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7439921	Lead	19.7		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7439954	Magnesium	417		mg/kg	390	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7439965	Manganese	119		mg/kg	1.2	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	07/01/2015	12:27:03	7439976	Mercury	0.053	LJ	mg/kg	0.092	06/08/2015	07/01/2015	06/13/2015	Low	95.682	0.57	100	CV	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440020	Nickel	5.3		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7440097	Potassium	549		mg/kg	390	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7782492	Selenium	2.2	U	mg/kg	2.2	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440224	Silver	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/30/2015	13:32:26	7440235	Sodium	390	U	mg/kg	390	06/08/2015	06/18/2015	06/13/2015	Low	95.682	1.3393	100	P	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440280	Thallium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440622	Vanadium	13.7		mg/kg	2.2	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K03	1516424002	S	Field_Sample	06/29/2015	16:12:54	7440666	Zinc	76.2		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	95.682	1.1676	100	MS	017
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7429905	Aluminum	2520		mg/kg	16.1	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440360	Antimony	0.89	UJ	mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440382	Arsenic	1.5		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440393	Barium	35.9		mg/kg	4.5	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440417	Beryllium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440439	Cadmium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7440702	Calcium	595		mg/kg	401	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440473	Chromium	6.2		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440484	Cobalt	2.9		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440508	Copper	24.6		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7439896	Iron	7770		mg/kg	8.0	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7439921	Lead	13.2		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7439954	Magnesium	401	U	mg/kg	401	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7439965	Manganese	225		mg/kg	1.2	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	07/01/2015	12:28:11	7439976	Mercury	0.023	LJ	mg/kg	0.090	06/08/2015	07/01/2015	06/13/2015	Low	97.303	0.57	100	CV	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440020	Nickel	3.3		mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7440097	Potassium	510		mg/kg	401	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7782492	Selenium	2.2	U	mg/kg	2.2	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440224	Silver	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/30/2015	13:35:16	7440235	Sodium	401	U	mg/kg	401	06/08/2015	06/18/2015	06/13/2015	Low	97.303	1.2787	100	P	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440280	Thallium	0.45	U	mg/kg	0.45	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440622	Vanadium	8.8		mg/kg	2.2	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K04	1516424003	S	Field_Sample	06/29/2015	16:17:14	7440666	Zinc	54.2		mg/kg	0.89	06/08/2015	06/26/2015	06/13/2015	Low	97.303	1.1453	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7429905	Aluminum	2450		mg/kg	17.7	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020

45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440360	Antimony	0.75	UJ	mg/kg	0.75	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440382	Arsenic	1.5		mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440393	Barium	36.0		mg/kg	3.7	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440417	Beryllium	0.37	U	mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440439	Cadmium	0.37	U	mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7440702	Calcium	640		mg/kg	442	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440473	Chromium	6.3		mg/kg	0.75	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440484	Cobalt	3.2		mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440508	Copper	48.5		mg/kg	0.75	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7439896	Iron	6240		mg/kg	8.8	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7439921	Lead	13.2		mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7439954	Magnesium	442	U	mg/kg	442	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7439965	Manganese	242		mg/kg	1.3	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	07/01/2015	12:29:19	7439976	Mercury	0.026	LJ	mg/kg	0.092	06/08/2015	07/01/2015	06/13/2015	Low	96.623	0.56	100	CV	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440020	Nickel	3.2		mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7440097	Potassium	525		mg/kg	442	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7782492	Selenium	1.9	U	mg/kg	1.9	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440224	Silver	0.37	U	mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/30/2015	13:38:06	7440235	Sodium	442	U	mg/kg	442	06/08/2015	06/18/2015	06/13/2015	Low	96.623	1.1741	100	P	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440280	Thallium	0.37	U	mg/kg	0.37	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440622	Vanadium	8.7		mg/kg	1.9	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K05	1516424004	S	Field_Sample	06/29/2015	16:21:35	7440666	Zinc	65.3		mg/kg	0.75	06/08/2015	06/26/2015	06/13/2015	Low	96.623	1.3769	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7429905	Aluminum	1910		mg/kg	18.7	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440360	Antimony	0.93	UJ	mg/kg	0.93	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440382	Arsenic	1.5		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440393	Barium	38.2		mg/kg	4.6	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440417	Beryllium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440439	Cadmium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7440702	Calcium	3340		mg/kg	468	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440473	Chromium	5.3		mg/kg	0.93	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440484	Cobalt	1.5		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440508	Copper	9.2		mg/kg	0.93	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7439896	Iron	3690		mg/kg	9.4	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7439921	Lead	34.5		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7439954	Magnesium	1500		mg/kg	468	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7439965	Manganese	193		mg/kg	1.4	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	07/01/2015	12:30:26	7439976	Mercury	0.10		mg/kg	0.089	06/08/2015	07/01/2015	06/13/2015	Low	98.903	0.57	100	CV	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440020	Nickel	3.1		mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7440097	Potassium	468	U	mg/kg	468	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7782492	Selenium	2.3	U	mg/kg	2.3	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440224	Silver	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/30/2015	13:40:56	7440235	Sodium	468	U	mg/kg	468	06/08/2015	06/18/2015	06/13/2015	Low	98.903	1.0769	100	P	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440280	Thallium	0.46	U	mg/kg	0.46	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440622	Vanadium	7.0		mg/kg	2.3	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K06	1516424005	S	Field_Sample	06/29/2015	16:25:55	7440666	Zinc	66.3		mg/kg	0.93	06/08/2015	06/26/2015	06/13/2015	Low	98.903	1.0891	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7429905	Aluminum	2200		mg/kg	16.4	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440360	Antimony	0.84	UJ	mg/kg	0.84	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440382	Arsenic	1.5		mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440393	Barium	40.0		mg/kg	4.2	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440417	Beryllium	0.42	U	mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440439	Cadmium	0.42	U	mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7440702	Calcium	4210		mg/kg	410	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440473	Chromium	5.5		mg/kg	0.84	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440484	Cobalt	1.6		mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440508	Copper	8.8		mg/kg	0.84	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7439896	Iron	4170		mg/kg	8.2	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7439921	Lead	31.6		mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7439954	Magnesium	1960		mg/kg	410	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7439965	Manganese	208		mg/kg	1.2	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	07/01/2015	12:31:32	7439976	Mercury	0.060	LJ	mg/kg	0.10	06/08/2015	07/01/2015	06/13/2015	Low	98.291	0.51	100	CV	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440020	Nickel	3.4		mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7440097	Potassium	431		mg/kg	410	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7782492	Selenium	2.1	U	mg/kg	2.1	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440224	Silver	0.42	U	mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/30/2015	13:43:45	7440235	Sodium	410	U	mg/kg	410	06/08/2015	06/18/2015	06/13/2015	Low	98.291	1.2405	100	P	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440280	Thallium	0.42	U	mg/kg	0.42	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440622	Vanadium	7.4		mg/kg	2.1	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K07	1516424006	S	Field_Sample	06/29/2015	16:30:16	7440666	Zinc	65.4		mg/kg	0.84	06/08/2015	06/26/2015	06/13/2015	Low	98.291	1.2102	100	MS	020
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7429905	Aluminum	2930		mg/kg	16.4	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440360	Antimony	0.94	UJ	mg/kg	0.94	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440382	Arsenic	1.4		mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017

45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440393	Barium	60.4		mg/kg	4.7	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440417	Beryllium	0.47	U	mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440439	Cadmium	0.47	U	mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7440702	Calcium	1980		mg/kg	410	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440473	Chromium	7.5		mg/kg	0.94	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440484	Cobalt	2.2		mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440508	Copper	108		mg/kg	0.94	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7439896	Iron	5340		mg/kg	8.2	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7439921	Lead	46.9		mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7439954	Magnesium	601		mg/kg	410	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7439965	Manganese	176		mg/kg	1.2	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	07/01/2015	12:34:54	7439976	Mercury	0.093	LJ	mg/kg	0.10	06/09/2015	07/01/2015	06/13/2015	Low	93.906	0.52	100	CV	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440020	Nickel	5.3		mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7440097	Potassium	553		mg/kg	410	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7782492	Selenium	2.4	U	mg/kg	2.4	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440224	Silver	0.47	U	mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/30/2015	13:54:56	7440235	Sodium	410	U	mg/kg	410	06/09/2015	06/18/2015	06/13/2015	Low	93.906	1.3018	100	P	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440280	Thallium	0.47	U	mg/kg	0.47	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440622	Vanadium	10.3		mg/kg	2.4	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K08	1516424009	S	Field_Sample	06/29/2015	16:51:56	7440666	Zinc	153		mg/kg	0.94	06/09/2015	06/26/2015	06/13/2015	Low	93.906	1.1344	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7429905	Aluminum	3100		mg/kg	15.0	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440360	Antimony	0.86	UJ	mg/kg	0.86	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440382	Arsenic	2.0		mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440393	Barium	51.3		mg/kg	4.3	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440417	Beryllium	0.43	U	mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440439	Cadmium	0.43	U	mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7440702	Calcium	1160		mg/kg	376	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440473	Chromium	9.2		mg/kg	0.86	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440484	Cobalt	3.3		mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440508	Copper	26.2		mg/kg	0.86	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7439896	Iron	6640		mg/kg	7.5	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7439921	Lead	36.2		mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7439954	Magnesium	470		mg/kg	376	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7439965	Manganese	202		mg/kg	1.1	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	07/01/2015	12:36:01	7439976	Mercury	0.033	LJ	mg/kg	0.095	06/09/2015	07/01/2015	06/13/2015	Low	97.117	0.54	100	CV	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440020	Nickel	5.7		mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7440097	Potassium	619		mg/kg	376	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7782492	Selenium	2.1	U	mg/kg	2.1	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440224	Silver	0.43	U	mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/30/2015	13:57:45	7440235	Sodium	376	U	mg/kg	376	06/09/2015	06/18/2015	06/13/2015	Low	97.117	1.3735	100	P	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440280	Thallium	0.43	U	mg/kg	0.43	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440622	Vanadium	12.4		mg/kg	2.1	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K09	1516424010	S	Field_Sample	06/29/2015	16:56:16	7440666	Zinc	64.9		mg/kg	0.86	06/09/2015	06/26/2015	06/13/2015	Low	97.117	1.2042	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7429905	Aluminum	3350		mg/kg	16.6	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440360	Antimony	0.72	UJ	mg/kg	0.72	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440382	Arsenic	2.0		mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440393	Barium	49.3		mg/kg	3.6	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440417	Beryllium	0.36	U	mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440439	Cadmium	0.36	U	mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7440702	Calcium	1240		mg/kg	414	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440473	Chromium	8.3		mg/kg	0.72	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440484	Cobalt	3.4		mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440508	Copper	93.7		mg/kg	0.72	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7439896	Iron	7100		mg/kg	8.3	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7439921	Lead	33.5		mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7439954	Magnesium	495		mg/kg	414	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7439965	Manganese	238		mg/kg	1.2	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	07/01/2015	12:37:08	7439976	Mercury	0.031	LJ	mg/kg	0.089	06/09/2015	07/01/2015	06/13/2015	Low	96.652	0.58	100	CV	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440020	Nickel	5.2		mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7440097	Potassium	658		mg/kg	414	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7782492	Selenium	1.8	U	mg/kg	1.8	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440224	Silver	0.36	U	mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/30/2015	14:00:34	7440235	Sodium	414	U	mg/kg	414	06/09/2015	06/18/2015	06/13/2015	Low	96.652	1.2486	100	P	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440280	Thallium	0.36	U	mg/kg	0.36	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440622	Vanadium	11.5		mg/kg	1.8	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K10	1516424011	S	Field_Sample	06/29/2015	17:00:36	7440666	Zinc	81.0		mg/kg	0.72	06/09/2015	06/26/2015	06/13/2015	Low	96.652	1.4431	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7429905	Aluminum	3400		mg/kg	16.7	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440360	Antimony	0.86	UJ	mg/kg	0.86	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440382	Arsenic	2.1		mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440393	Barium	45.8		mg/kg	4.3	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440417	Beryllium	0.43	U	mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017

45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440439	Cadmium	0.43	U	mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7440702	Calcium	1620		mg/kg	417	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440473	Chromium	9.7		mg/kg	0.86	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440484	Cobalt	2.6		mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440508	Copper	19.7		mg/kg	0.86	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7439896	Iron	7630		mg/kg	8.3	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7439921	Lead	22.8		mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7439954	Magnesium	594		mg/kg	417	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7439965	Manganese	134		mg/kg	1.3	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	07/01/2015	12:38:16	7439976	Mercury	0.033	LJ	mg/kg	0.10	06/10/2015	07/01/2015	06/13/2015	Low	95.83	0.52	100	CV	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440020	Nickel	6.6		mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7440097	Potassium	761		mg/kg	417	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7782492	Selenium	2.2	U	mg/kg	2.2	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440224	Silver	0.43	U	mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/30/2015	14:03:24	7440235	Sodium	417	U	mg/kg	417	06/10/2015	06/18/2015	06/13/2015	Low	95.83	1.247	100	P	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440280	Thallium	0.43	U	mg/kg	0.43	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440622	Vanadium	13.7		mg/kg	2.2	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K11	1516424012	S	Field_Sample	06/29/2015	17:04:56	7440666	Zinc	63.7		mg/kg	0.86	06/10/2015	06/26/2015	06/13/2015	Low	95.83	1.2102	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7429905	Aluminum	2910		mg/kg	15.6	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440360	Antimony	0.81	UJ	mg/kg	0.81	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440382	Arsenic	1.8		mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440393	Barium	62.8		mg/kg	4.0	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440417	Beryllium	0.40	U	mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440439	Cadmium	0.40	U	mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7440702	Calcium	1990		mg/kg	390	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440473	Chromium	8.5		mg/kg	0.81	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440484	Cobalt	3.6		mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440508	Copper	77.4		mg/kg	0.81	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7439896	Iron	6070		mg/kg	7.8	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7439921	Lead	38.9		mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7439954	Magnesium	538		mg/kg	390	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7439965	Manganese	235		mg/kg	1.2	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	07/01/2015	12:39:23	7439976	Mercury	0.047	LJ	mg/kg	0.094	06/10/2015	07/01/2015	06/13/2015	Low	93.651	0.57	100	CV	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440020	Nickel	5.3		mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7440097	Potassium	642		mg/kg	390	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7782492	Selenium	0.24	LJ	mg/kg	2.0	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440224	Silver	0.40	U	mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/30/2015	14:06:13	7440235	Sodium	390	U	mg/kg	390	06/10/2015	06/18/2015	06/13/2015	Low	93.651	1.3677	100	P	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440280	Thallium	0.40	U	mg/kg	0.40	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440622	Vanadium	12.4		mg/kg	2.0	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K12	1516424013	S	Field_Sample	06/29/2015	17:09:23	7440666	Zinc	127		mg/kg	0.81	06/10/2015	06/26/2015	06/13/2015	Low	93.651	1.3242	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7429905	Aluminum	2830		mg/kg	13.7	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440360	Antimony	0.89	UJ	mg/kg	0.89	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440382	Arsenic	1.3		mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440393	Barium	31.7		mg/kg	4.5	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440417	Beryllium	0.45	U	mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440439	Cadmium	0.45	U	mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7440702	Calcium	768		mg/kg	343	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440473	Chromium	6.0		mg/kg	0.89	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440484	Cobalt	2.2		mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440508	Copper	27.6		mg/kg	0.89	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7439896	Iron	4480		mg/kg	6.9	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7439921	Lead	19.2		mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7439954	Magnesium	382		mg/kg	343	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7439965	Manganese	151		mg/kg	1.0	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	07/01/2015	12:40:31	7439976	Mercury	0.057	LJ	mg/kg	0.10	06/10/2015	07/01/2015	06/13/2015	Low	98.377	0.51	100	CV	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440020	Nickel	3.6		mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7440097	Potassium	403		mg/kg	343	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7782492	Selenium	2.2	U	mg/kg	2.2	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440224	Silver	0.45	U	mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/30/2015	14:09:02	7440235	Sodium	343	U	mg/kg	343	06/10/2015	06/18/2015	06/13/2015	Low	98.377	1.4839	100	P	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440280	Thallium	0.45	U	mg/kg	0.45	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440622	Vanadium	9.8		mg/kg	2.2	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K13	1516424014	S	Field_Sample	06/29/2015	17:13:43	7440666	Zinc	49.5		mg/kg	0.89	06/10/2015	06/26/2015	06/13/2015	Low	98.377	1.1392	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7429905	Aluminum	3460		mg/kg	15.0	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440360	Antimony	0.94	UJ	mg/kg	0.94	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440382	Arsenic	3.4		mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440393	Barium	45.6		mg/kg	4.7	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440417	Beryllium	0.47	U	mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440439	Cadmium	0.47	U	mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7440702	Calcium	6610		mg/kg	374	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017

45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440473	Chromium	8.4		mg/kg	0.94	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440484	Cobalt	3.2		mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440508	Copper	24.9		mg/kg	0.94	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7439896	Iron	7310		mg/kg	7.5	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7439921	Lead	27.0		mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7439954	Magnesium	3260		mg/kg	374	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7439965	Manganese	309		mg/kg	1.1	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	07/01/2015	12:41:38	7439976	Mercury	0.039	LJ	mg/kg	0.090	06/10/2015	07/01/2015	06/13/2015	Low	96.194	0.58	100	CV	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440020	Nickel	5.1		mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7440097	Potassium	572		mg/kg	374	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7782492	Selenium	2.3	U	mg/kg	2.3	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440224	Silver	0.47	U	mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/30/2015	14:11:51	7440235	Sodium	374	U	mg/kg	374	06/10/2015	06/18/2015	06/13/2015	Low	96.194	1.3949	100	P	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440280	Thallium	0.47	U	mg/kg	0.47	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440622	Vanadium	13.2		mg/kg	2.3	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017
45299	MF9K02	MF9K14	1516424015	S	Field_Sample	06/29/2015	17:18:04	7440666	Zinc	68.3		mg/kg	0.94	06/10/2015	06/26/2015	06/13/2015	Low	96.194	1.1081	100	MS	017

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 45299 SDG No. MF9K02 SDG Nos. To Follow Mod. Ref. No. Date Rec 07/06/15

EPA Lab ID: DATAC

Lab location: Salt Lake City, UT

Region: 6 Audit No.: 45299/MF9K02

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 07/10/15

Audited by: Date

Signature Printed Name/Title

DC-2__

USEPA CLP COC (REGION COPY)
DateShipped: 6/12/2015
CarrierName: FedEx
AirbillNo: 773819840927

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

No: 6-061215-103311-0113
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-017-001-00-51S	MF9K02	Soil/ START	Composite/ Sieved	TM + Hg(21)	1815 (None) (1)	017	06/08/2015 11:00	Field Sample
WO-017-002-06-51S	MF9K03	Soil/ START	Composite/ Sieved	TM + Hg(21)	1816 (None) (1)	017	06/08/2015 13:51	Field Sample
WO-020-002-06-51S	MF9K04	Soil/ START	Composite/ Sieved	TM + Hg(21)	1817 (None) (1)	020	06/08/2015 15:00	Field Sample
WO-020-002-06-52S	MF9K05	Soil/ START	Composite/ Sieved	TM + Hg(21)	1818 (None) (1)	020	06/08/2015 15:05	Field Sample
WO-020-005-00-51S	MF9K06	Soil/ START	Composite/ Sieved	TM + Hg(21)	1819 (None) (1)	020	06/08/2015 15:42	Field Sample
WO-020-005-06-51S	MF9K07	Soil/ START	Composite/ Sieved	TM + Hg(21)	1820 (None) (1)	020	06/08/2015 16:25	Field Sample
WO-017-004-00-51S	MF9K08	Soil/ START	Composite/ Sieved	TM + Hg(21)	1821 (None) (1)	017	06/09/2015 11:26	Field Sample
WO-017-001-06-51S	MF9K09	Soil/ START	Composite/ Sieved	TM + Hg(21)	1822 (None) (1)	017	06/09/2015 16:00	Field Sample
WO-017-001-06-52S	MF9K10	Soil/ START	Composite/ Sieved	TM + Hg(21)	1823 (None) (1)	017	06/09/2015 16:05	Field Sample
WO-017-002-00-51S	MF9K11	Soil/ START	Composite/ Sieved	TM + Hg(21)	1824 (None) (1)	017	06/10/2015 09:43	Field Sample

Sample(s) to be used for Lab QC: WO-020-005-06-51S Tag 1820	**Shipment for Case Complete? Y**
	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
	Cherish Weston	6/12/15 2100	Fed Ex	6/12/15 2100	

Page 13 of 14

USEPA CLP COC (REGION COPY)
DateShipped: 6/12/2015
CarrierName: FedEx
AirbillNo: 773819840927

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

No: 6-061215-103311-0113
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-017-003-00-51S	MF9K12	Soil/ START	Composite/ Sieved	TM + Hg(21)	1825 (None) (1)	017	06/10/2015 11:00	Field Sample
WO-017-006-06-51S	MF9K13	Soil/ START	Composite/ Sieved	TM + Hg(21)	1826 (None) (1)	017	06/10/2015 11:50	Field Sample
WO-017-005-06-51S	MF9K14	Soil/ START	Composite/ Sieved	TM + Hg(21)	1827 (None) (1)	017	06/10/2015 14:33	Field Sample

Special Instructions:

Shipment for Case Complete? Y
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
	Oberch Weston	6/12/15 2100	FedEx	6/12/15 2100	

ADDENDUM

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **SOW** ISM01.3

Data Review Reports

Blanks

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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07S, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Mercury MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07S , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07S, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Mercury MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07S , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **SOW** ISM01.3

Data Review Reports

Blanks

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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07L, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Sodium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Magnesium MF9K04 , MF9K05 , MF9K07L
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
	Sodium LCS
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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Sodium MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Potassium MF9K06
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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07L, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Sodium LCS
	Calcium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Potassium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07L, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Antimony PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Thallium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Silver PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
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, MF9K07L, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Vanadium PBS , MF9K07L
	Cobalt PBS , MF9K07L
	Barium PBS
	Nickel PBS
	Beryllium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Antimony PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Thallium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Cadmium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Copper PBS
	Silver PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	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, MF9K07S, MF9K07A
	Antimony LCS , MF9K07S , MF9K07A
	Thallium LCS , MF9K07S
	Silver LCS , MF9K07S
Blanks	**ICP_MS**

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **SOW** ISM01.3

Data Review Reports

Blanks

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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07S, MF9K07D, MF9K07L, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14, MF9K07A
	Vanadium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Chromium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Cobalt LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Barium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Nickel LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Beryllium LCS , MF9K07S
	Antimony LCS , MF9K07S , MF9K07A
	Thallium LCS , MF9K07S
	Cadmium LCS , MF9K07S
	Copper LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Silver LCS , MF9K07S
	Lead LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Beryllium MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Antimony MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Thallium MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Cadmium MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Silver MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07S, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14, MF9K07L, MF9K07A

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
	Vanadium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Cobalt LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Barium LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Zinc LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Nickel LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Beryllium LCS , MF9K07S
	Antimony LCS , MF9K07S , MF9K07A
	Thallium LCS , MF9K07S
	Cadmium LCS , MF9K07S
	Copper LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Silver LCS , MF9K07S
	Lead LCS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07S , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K07, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Mercury MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K07 , MF9K07D , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **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, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K07L, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Sodium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Calcium PBS
	Potassium PBS , MF9K06 , MF9K07L
	Magnesium MF9K04 , MF9K05 , MF9K07L

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **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, MF9K07L, MF9K12, MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K07D, MF9K08, MF9K09, MF9K10, MF9K11, MF9K13, MF9K14
	Vanadium PBS , MF9K07L
	Selenium MF9K12
	Arsenic MF9K07L
	Cobalt PBS , MF9K07L
	Barium PBS
	Zinc PBS
	Nickel PBS
	Beryllium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Antimony PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Thallium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Cadmium PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Copper PBS
	Silver PBS , MF9K02 , MF9K03 , MF9K04 , MF9K05 , MF9K06 , MF9K07 , MF9K07D , MF9K07L , MF9K08 , MF9K09 , MF9K10 , MF9K11 , MF9K12 , MF9K13 , MF9K14
	Lead PBS

National Functional Guidelines Report #03

Lab DATAC(ALS Environmental) **SDG** MF9K02 **Case** 45299 **Contract** EPW09036 **Region** 6 **DDTID** 216900 **SOW** ISM01.3

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.
	MF9K02, MF9K03, MF9K04, MF9K05, MF9K06, MF9K07, MF9K08, MF9K09, MF9K10, MF9K11, MF9K12, MF9K13, MF9K14
	Antimony MF9K07S