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

November 18, 2013

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores

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

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

Site: **FALCON REFINERY**

Case#: **43795**

SDG#: **MF2C06**

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.

9598011

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: November 12, 2013

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

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

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0173
TDF No.:	6-12-021C
ESAT File No.:	I-0638

Attached is the data review summary for Case # 43795
SDG # MF2C06
Site Falcon Refinery

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

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	43795	SITE	Falcon Refinery
LABORATORY	MITKEM	NO. OF SAMPLES	9
CONTRACT#	EP-W-09-039	MATRIX	Water
SDG#	MF2C06	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2MC	COMPLETION DATE	November 12, 2013

SAMPLE NO.					
	MF2C06	MF2C24	MF2C82		
	MF2C08	MF2C28			
	MF2C16	MF2C38			
	MF2C22	MF2C44			

DATA ASSESSMENT SUMMARY

	ICP	HG
1. HOLDING TIMES	O	O
2. CALIBRATIONS	O	O
3. BLANKS	M	O
4. MATRIX SPIKES	O	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: Laboratory blank readings caused the qualification of one cobalt, one zinc, and two arsenic results.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 43795 **SDG** MF2C06 **SITE** Falcon Refinery **LAB** MITKEM

COMMENTS: This SDG consisted of nine water samples for dissolved metals (by ICP-MS and ICP-AES) and mercury analyses following SOW ISM01.3. The sampler designated sample MF2C38 for laboratory QC analyses.

The laboratory stated that because of very high concentrations of sodium the ICP-MS analyses were performed at up to 200X dilution for samples MF2C16, MF2C22, MF2C24, MF2C28, and MF2C82 and the ICP-AES analyses were performed at up to 5X dilution for samples MF2C22 and MF2C82. Samples MF2C16, MF2C22, MF2C24, and MF2C82 were also diluted up to 100X to bring concentrations of calcium, magnesium, and/or sodium within the calibrated ranges.

S3VEM Review was performed for this package as requested by the Region. 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: Samples MF2C16, MF2C38, MF2C44, and MF2C82 had one result each qualified because of a problem with laboratory blank readings. 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
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440360	Antimony	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440382	Arsenic	8.6		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440393	Barium	43.9		ug/L	10.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440417	Beryllium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440439	Cadmium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7440702	Calcium	70500		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440473	Chromium	0.58	LJ	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440484	Cobalt	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440508	Copper	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7439896	Iron	938		ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7439921	Lead	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7439954	Magnesium	15200		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7439965	Manganese	164		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	09:36:18	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440020	Nickel	2.3		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7440097	Potassium	5000	U	ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7782492	Selenium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440224	Silver	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/01/2013	14:49:31	7440235	Sodium	66300		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440280	Thallium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440622	Vanadium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C06	M1767-03A	W	Field_Sample	10/08/2013	14:47:45	7440666	Zinc	9.0		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-05
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440360	Antimony	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440382	Arsenic	5.3		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440393	Barium	231		ug/L	10.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440417	Beryllium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440439	Cadmium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7440702	Calcium	117000		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440473	Chromium	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440484	Cobalt	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440508	Copper	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7439896	Iron	2510		ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7439921	Lead	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7439954	Magnesium	15900		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7439965	Manganese	253		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	09:37:47	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440020	Nickel	2.9		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7440097	Potassium	8130		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7782492	Selenium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440224	Silver	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/01/2013	14:53:12	7440235	Sodium	72800		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440280	Thallium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440622	Vanadium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C08	M1767-04A	W	Field_Sample	10/08/2013	14:52:32	7440666	Zinc	13.7		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-06
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	14:56:54	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440360	Antimony	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440382	Arsenic	29.1	J+	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440393	Barium	430		ug/L	250	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440417	Beryllium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440439	Cadmium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	16:27:25	7440702	Calcium	344000		ug/L	10000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440473	Chromium	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440484	Cobalt	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440508	Copper	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	14:56:54	7439896	Iron	1190		ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7439921	Lead	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	16:27:25	7439954	Magnesium	582000		ug/L	10000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	14:56:54	7439965	Manganese	950		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	09:39:15	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440020	Nickel	12.1	LJ	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	14:56:54	7440097	Potassium	148000		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7782492	Selenium	125	U	ug/L	125	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440224	Silver	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/01/2013	15:56:55	7440235	Sodium	4060000		ug/L	100000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440280	Thallium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440622	Vanadium	125	U	ug/L	125	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10
43795	MF2C06	MF2C16	M1767-05A	W	Field_Sample	10/08/2013	14:57:18	7440666	Zinc	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-10

43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:42:27	7429905	Aluminum	1000	U	ug/L	1000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440360	Antimony	400	U	ug/L	400	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440382	Arsenic	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440393	Barium	2000	U	ug/L	2000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440417	Beryllium	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440439	Cadmium	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:42:27	7440702	Calcium	730000		ug/L	25000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440473	Chromium	400	U	ug/L	400	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440484	Cobalt	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440508	Copper	400	U	ug/L	400	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:42:27	7439896	Iron	1370		ug/L	500	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7439921	Lead	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:19:41	7439954	Magnesium	3290000		ug/L	100000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:42:27	7439965	Manganese	2040		ug/L	75.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	09:33:20	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440020	Nickel	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	16:42:27	7440097	Potassium	697000		ug/L	25000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7782492	Selenium	1000	U	ug/L	1000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440224	Silver	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/01/2013	15:49:19	7440235	Sodium	21900000		ug/L	500000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440280	Thallium	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440622	Vanadium	1000	U	ug/L	1000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C22	M1767-01A	W	Field_Sample	10/08/2013	14:38:13	7440666	Zinc	400	U	ug/L	400	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-12
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	14:41:59	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440360	Antimony	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440382	Arsenic	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440393	Barium	254		ug/L	250	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440417	Beryllium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440439	Cadmium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	16:23:31	7440702	Calcium	593000		ug/L	15000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440473	Chromium	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440484	Cobalt	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440508	Copper	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	14:41:59	7439896	Iron	103		ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7439921	Lead	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	16:23:31	7439954	Magnesium	625000		ug/L	15000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	14:41:59	7439965	Manganese	2220		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	09:34:49	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440020	Nickel	15.8	LJ	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	14:41:59	7440097	Potassium	122000		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7782492	Selenium	125	U	ug/L	125	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440224	Silver	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/01/2013	15:53:07	7440235	Sodium	4370000		ug/L	100000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440280	Thallium	25.0	U	ug/L	25.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440622	Vanadium	125	U	ug/L	125	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C24	M1767-02A	W	Field_Sample	10/08/2013	14:42:59	7440666	Zinc	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-13
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440360	Antimony	4.0	U	ug/L	4.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440382	Arsenic	21.8		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440393	Barium	170		ug/L	20.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440417	Beryllium	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440439	Cadmium	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7440702	Calcium	29700		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440473	Chromium	4.0	U	ug/L	4.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440484	Cobalt	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440508	Copper	4.0	U	ug/L	4.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7439896	Iron	100	U	ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7439921	Lead	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7439954	Magnesium	29400		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7439965	Manganese	54.1		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	09:43:46	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440020	Nickel	3.3		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7440097	Potassium	30500		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7782492	Selenium	10.0	U	ug/L	10.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440224	Silver	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/01/2013	15:04:27	7440235	Sodium	281000		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440280	Thallium	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440622	Vanadium	10.0	U	ug/L	10.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15
43795	MF2C06	MF2C28	M1767-06A	W	Field_Sample	10/08/2013	15:02:03	7440666	Zinc	4.0	U	ug/L	4.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-15

43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7429905	Aluminum	215		ug/L	200	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440360	Antimony	2.0	U	ug/L	2.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440382	Arsenic	2.6		ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440393	Barium	118		ug/L	10.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440417	Beryllium	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440439	Cadmium	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7440702	Calcium	25400		ug/L	5000	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440473	Chromium	2.5		ug/L	2.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440484	Cobalt	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440508	Copper	2.0	U	ug/L	2.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7439896	Iron	4500		ug/L	100	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7439921	Lead	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7439954	Magnesium	18500		ug/L	5000	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7439965	Manganese	95.4		ug/L	15.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	09:45:18	7439976	Mercury	0.20	U	ug/L	0.20	09/17/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440020	Nickel	1.4		ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7440097	Potassium	5990		ug/L	5000	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7782492	Selenium	5.0	U	ug/L	5.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440224	Silver	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/01/2013	15:08:15	7440235	Sodium	102000		ug/L	5000	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440280	Thallium	1.0	U	ug/L	1.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440622	Vanadium	5.0	U	ug/L	5.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C38	M1767-07A	W	Field_Sample	10/08/2013	15:06:49	7440666	Zinc	3.0	J+	ug/L	2.0	09/17/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-03 R
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7429905	Aluminum	200	U	ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440360	Antimony	2.0	U	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440382	Arsenic	3.0		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440393	Barium	341		ug/L	10.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440417	Beryllium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440439	Cadmium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7440702	Calcium	57600		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440473	Chromium	0.80	LJ	ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440484	Cobalt	1.4	J+	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440508	Copper	23.0		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7439896	Iron	1180		ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7439921	Lead	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7439954	Magnesium	18100		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7439965	Manganese	453		ug/L	15.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	09:49:44	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440020	Nickel	14.0		ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7440097	Potassium	8010		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7782492	Selenium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440224	Silver	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/01/2013	15:30:25	7440235	Sodium	80100		ug/L	5000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440280	Thallium	1.0	U	ug/L	1.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440622	Vanadium	5.0	U	ug/L	5.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C44	M1767-08A	W	Field_Sample	10/08/2013	15:26:02	7440666	Zinc	23.0		ug/L	2.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	TWB-06
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7429905	Aluminum	400	U	ug/L	400	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440360	Antimony	100	U	ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440382	Arsenic	55.5	J+	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440393	Barium	500	U	ug/L	500	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440417	Beryllium	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440439	Cadmium	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7440702	Calcium	395000		ug/L	10000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440473	Chromium	100	U	ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440484	Cobalt	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440508	Copper	100	U	ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7439896	Iron	2310		ug/L	200	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7439921	Lead	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7439954	Magnesium	589000		ug/L	10000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7439965	Manganese	1730		ug/L	30.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	09:51:13	7439976	Mercury	0.20	U	ug/L	0.20	09/18/2013	10/07/2013	09/19/2013	Low	0.0	100	100	CV	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440020	Nickel	21.0	LJ	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	16:46:10	7440097	Potassium	220000		ug/L	10000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7782492	Selenium	250	U	ug/L	250	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440224	Silver	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/01/2013	15:34:07	7440235	Sodium	9830000		ug/L	250000	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	P	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440280	Thallium	50.0	U	ug/L	50.0	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440622	Vanadium	250	U	ug/L	250	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16
43795	MF2C06	MF2C82	M1767-09A	W	Field_Sample	10/08/2013	15:30:47	7440666	Zinc	100	U	ug/L	100	09/18/2013	09/24/2013	09/19/2013	Low	0.0	50	50	MS	MW-16

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 43795 SDG No. MF2C06 SDG Nos. To Follow Mod. Ref. No. Date Rec 10/22/13

EPA Lab ID: MITKEM

Lab location: N. Kingstown, RI

Region: 6 Audit No.: 43795/MF2C06

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Item	Description
16.	Photocopies of the sample tags were not included in the data package.

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 _____ Linda Hoffman/ESAT Data Reviewer Date 11/06/13

Audited _____ _____ Date _____

Signature Printed Name/Title

DC-2_

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/18/2013

CarrierName: FedEx

AirbillNo: 7966 3718 5045

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091813-122213-0107

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2C06	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451920 (HNO3 pH<2 Ice to 4C) (1)	MW-05	09/18/2013 08:45		Field Sample
MF2C08	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451929 (HNO3 pH<2 Ice to 4C) (1)	MW-06	09/18/2013 10:00		Field Sample
MF2C16	Ground Water/ Trent England	Grab	DM+HG(21)	6-451965 (HNO3 pH<2 Ice to 4C) (1)	MW-10	09/18/2013 12:12		Field Sample
MF2C28	Ground Water/ Trent England	Grab	DM+HG(21)	6-452020 (HNO3 pH<2 Ice to 4C) (1)	MW-15	09/18/2013 09:29		Field Sample
MF2C38	Ground Water/ Trent England	Grab	DM+HG(21), DM+HG(21)	6-452019 (HNO3 pH<2 Ice to 4C), 6-452047 (HNO3 pH<2 Ice to 4C) (2)	TWB-03 R	09/17/2013 11:39		Field Sample
MF2C44	Ground Water/ Trent England	Grab	DM+HG(21)	6-452053 (HNO3 pH<2 Ice to 4C) (1)	TWB-06	09/18/2013 07:53		Field Sample
MF2C82	Ground Water/ Trent England	Grab	DM+HG(21)	6-452030 (HNO3 pH<2 Ice to 4C) (1)	MW-16	09/18/2013 10:33		Field Sample

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Sample(s) to be used for Lab QC: MF2C38 - Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium.

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

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: DM+HG=DM+Hg by ISM01.3/ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9-18-13	[signature]	09-18-13	1200						
	[signature]	09/18/13	[signature]	09-18-13	1200						
	[signature]	09-18-13									

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 9/18/2013

CarrierName: FedEx

AirbillNo: 7966 3718 5711

CHAIN OF CUSTODY RECORD

Falcon Refinery Superfund Site/TX

Case #: 43795

No: 6-091813-154841-0116

Lab: Spectrum Analytical, Inc. DBA: MITKEM Laboratories

Lab Contact: Dawne Smart

Lab Phone: 401-732-3400

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF2C10	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451938 (HNO3 pH<2 Ice to 4C) (1)	MW-07	09/18/2013 11:10		Field Sample
MF2C12	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451947 (HNO3 pH<2 Ice to 4C) (1)	MW-08	09/18/2013 14:45		Field Sample
MF2C14	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451956 (HNO3 pH<2 Ice to 4C) (1)	MW-09	09/18/2013 12:25		Field Sample
MF2C18	Ground Water/ Trent England	Grab	DM+HG(21)	6-451974 (HNO3 pH<2 Ice to 4C) (1)	MW-10 Dup	09/18/2013 12:12		Field Duplicate
MF2C20	Ground Water/ Duane Thomas	Grab	DM+HG(21)	6-451983 (HNO3 pH<2 Ice to 4C) (1)	MW-11	09/18/2013 16:00		Field Sample
MF2C22	Ground Water/ Trent England	Grab	DM+HG(21)	6-451992 (HNO3 pH<2 Ice to 4C) (1)	MW-12	09/18/2013 14:32		Field Sample
MF2C24	Ground Water/ Trent England	Grab	DM+HG(21)	6-452001 (HNO3 pH<2 Ice to 4C) (1)	MW-13	09/18/2013 13:27		Field Sample

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Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potasium, Sodium. ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickle, Selenium, Silver, Thallium, Vanadium, Zinc	**Shipment for Case Complete? Y** **Samples Transferred From Chain of Custody #**
Analysis Key: DM+HG=DM+Hg by ISM01.3/ICP-AES+MS	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		09/18/13		09-18-13	1700						
		9/18/13		09-18-13	1700						
		09-18-13									

ADDENDUM

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2C06 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 184077 **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.
	PBW49
	Calcium PBW49
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.
	PBW49
	Calcium PBW49
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.
	LCS49, MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C28, MF2C38, MF2C38D, MF2C38L, MF2C38S, MF2C44, MF2C82
	Calcium LCS49 , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C38 , MF2C38D , MF2C38L , MF2C38S , MF2C44 , MF2C82
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.
	MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C28, MF2C38, MF2C38D, MF2C38L, MF2C38S, MF2C44, MF2C82, LCS49
	Sodium MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C38 , MF2C38D , MF2C38L , MF2C38S , MF2C44 , MF2C82
	Calcium LCS49 , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C38 , MF2C38D , MF2C38L , MF2C38S , MF2C44 , MF2C82
	Potassium LCS49
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.
	LCS49, MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C28, MF2C38, MF2C38D, MF2C38L, MF2C38S, MF2C44, MF2C82
	Calcium LCS49 , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C38 , MF2C38D , MF2C38L , MF2C38S , MF2C44 , MF2C82

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Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2C22, MF2C82, PBW48, MF2C38D, MF2C38L, MF2C06, MF2C08, MF2C16, MF2C24, MF2C28, MF2C38, MF2C44
	Barium MF2C22 , MF2C82 , PBW48
	Cobalt MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C82 , MF2C28 , PBW48 , MF2C38
	Zinc MF2C38L , MF2C28
	Beryllium MF2C38D , MF2C38L , MF2C44 , MF2C06 , MF2C38
	Antimony PBW48
	Cadmium MF2C38D , MF2C38L , MF2C44 , MF2C06 , MF2C08 , MF2C22 , PBW48 , MF2C38
	Lead MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C44 , PBW48 , MF2C38
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.
	MF2C38D, MF2C38L, MF2C06, MF2C08, MF2C16, MF2C44, MF2C24, MF2C28, MF2C82, MF2C38, MF2C22, PBW48
	Vanadium MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C44 , MF2C24 , MF2C28 , MF2C82 , MF2C38
	Selenium MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C44 , MF2C28 , MF2C82 , PBW48 , MF2C38
	Arsenic MF2C38L , MF2C22 , MF2C24 , PBW48
	Barium MF2C22 , MF2C82 , PBW48
	Cobalt MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C82 , MF2C28 , PBW48 , MF2C38
	Beryllium MF2C38D , MF2C38L , MF2C44 , MF2C06 , MF2C38
	Antimony PBW48
	Cadmium MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C22 , MF2C44 , PBW48 , MF2C38
	Copper MF2C38D , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C82 , MF2C28 , MF2C38
	Lead MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C44 , PBW48 , MF2C38
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.
	MF2C38S, LCS48, MF2C44, MF2C38D, MF2C38L, MF2C06, MF2C08, MF2C16, MF2C24, MF2C28, MF2C38
	Cobalt MF2C38S , LCS48 , MF2C44

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Blanks

Blanks	ICP_MS
	Barium MF2C38D , MF2C38L , MF2C38S , MF2C44 , LCS48 , MF2C06 , MF2C08 , MF2C16 , MF2C24 , MF2C28 , MF2C38
	Beryllium MF2C38S , LCS48
	Zinc MF2C38D , MF2C38S , LCS48 , MF2C06 , MF2C08 , MF2C44 , MF2C38
	Antimony MF2C38S , LCS48
	Thallium MF2C38S , LCS48
	Cadmium MF2C38S , LCS48
	Silver MF2C38S , LCS48
	Lead MF2C38S , LCS48
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.
	LCS48, MF2C38S, MF2C16, MF2C22, MF2C24, MF2C82, MF2C38D, MF2C38L, MF2C44, MF2C06, MF2C08, MF2C28, MF2C38
	Vanadium LCS48
	Selenium MF2C38S , LCS48 , MF2C16 , MF2C22 , MF2C24 , MF2C82
	Arsenic MF2C38D , MF2C38L , MF2C38S , MF2C44 , LCS48 , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C82 , MF2C28 , MF2C38
	Cobalt MF2C38L , MF2C38S , LCS48 , MF2C16 , MF2C22 , MF2C24 , MF2C44 , MF2C82
	Barium MF2C38D , MF2C38L , MF2C38S , MF2C44 , LCS48 , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C82 , MF2C28 , MF2C38
	Beryllium MF2C38S , LCS48
	Antimony MF2C38S , LCS48
	Thallium MF2C38S , LCS48
	Cadmium MF2C38S , LCS48 , MF2C22
	Silver MF2C38S , LCS48
	Lead MF2C38S , LCS48
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.
	MF2C38, MF2C38D, MF2C06, MF2C08, MF2C16, MF2C22, MF2C44, MF2C24, MF2C28, MF2C82
	Selenium MF2C38 , MF2C38D , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C44 , MF2C24 , MF2C28 , MF2C82
	Arsenic MF2C22 , MF2C24

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Blanks

Blanks	ICP_MS
	Barium MF2C22 , MF2C82
	Cobalt MF2C38D , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C82 , MF2C38
	Cadmium MF2C38D , MF2C06 , MF2C08 , MF2C22 , MF2C44 , MF2C38
	Lead MF2C38D , MF2C06 , MF2C08 , MF2C44 , MF2C38
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.
	MF2C38S, LCS48, MF2C38D, MF2C06, MF2C08, MF2C16, MF2C44, MF2C28, MF2C82, MF2C38, MF2C38L, MF2C24
	Selenium MF2C38S , LCS48
	Arsenic MF2C38D , MF2C38S , LCS48 , MF2C06 , MF2C08 , MF2C16 , MF2C44 , MF2C28 , MF2C82 , MF2C38
	Cobalt MF2C38S , LCS48 , MF2C44
	Barium MF2C38D , MF2C38L , MF2C38S , LCS48 , MF2C06 , MF2C08 , MF2C16 , MF2C44 , MF2C24 , MF2C28 , MF2C38
	Antimony MF2C38S , LCS48
	Cadmium MF2C38S , LCS48
	Lead MF2C38S , LCS48

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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.
	PBW49, MF2C06, MF2C38L
	Calcium PBW49
	Potassium MF2C06 , MF2C38L
	Magnesium MF2C38L

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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.
	MF2C38, MF2C38D, MF2C38L, MF2C06, MF2C08, MF2C16, MF2C44, MF2C24, MF2C82, MF2C28, MF2C22, PBW48
	Vanadium MF2C38 , MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C44 , MF2C24 , MF2C82 , MF2C28
	Selenium MF2C38 , MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C44 , MF2C24 , MF2C28 , MF2C82 , PBW48
	Arsenic MF2C38L , MF2C22 , MF2C24 , PBW48
	Chromium MF2C38L , MF2C06 , MF2C44
	Barium MF2C22 , MF2C82 , PBW48
	Cobalt MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C82 , MF2C38 , PBW48
	Zinc MF2C38L , MF2C28
	Nickel MF2C38L , MF2C16 , MF2C24 , MF2C82
	Beryllium MF2C38D , MF2C38L , MF2C06 , MF2C44 , MF2C38
	Antimony PBW48
	Cadmium MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C22 , MF2C44 , MF2C38 , PBW48
	Copper MF2C38D , MF2C06 , MF2C08 , MF2C16 , MF2C22 , MF2C24 , MF2C28 , MF2C82 , MF2C38
	Lead MF2C38D , MF2C38L , MF2C06 , MF2C08 , MF2C44 , MF2C38 , PBW48

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Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C28, MF2C38, MF2C38D, MF2C38S, MF2C44, MF2C82

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Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C28, MF2C38, MF2C38D, MF2C38L, MF2C38S, MF2C44, MF2C82

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Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2C38D, MF2C38L, MF2C38S, MF2C44, MF2C06, MF2C08, MF2C16, MF2C22, MF2C24, MF2C82, MF2C28, MF2C38