Soil Condition Investigation Report
Denver Veteran Affairs Medical Center
1055 Clermont Street, Denver, Colorado
MEC^X Project No. 1244.013D.00
Contract GS-10F-0328R – VA259-10-F-3057

Prepared for:

Department of Veteran Affairs
Denver Veteran Affairs Medical Center
1055 Clermont Street
Denver, Colorado

February 24, 2014

Prepared by:

MEC^X
12269 East Vassar Drive
Auroroa, Colorado 80014
www.mecx.net

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Acronyms

CDPHE	Colorado Department of Public Health and Environment
DVAMC	Denver Veteran Affairs Medical Center
GRO	gasoline range organics
DRO	diesel range organics
IDW	Investigative derived wastes
OPS	Oil and Public Safety
ORO	oil range organics
PAH	polynuclear aromatic hydrocarbons
QA	quality assurance
RCRA	Resource Conservation and Recovery Act
RFQ	Request for Quote
RSLs	Regional Screening Levels

SB	soil boring
SCI	Soil Condition Investigation
SOW	Statement of Work
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VA	Department of Veterans Affairs
VAMC	Veteran Affairs Medical Center

Introduction

MEC^X is pleased to present the Denver Veteran Affairs Medical Center (DVAMC; Client) this Soil Condition Investigation Report for the DVAMC located at 1055 Clermont Street in Denver, Denver County, Colorado (Site). The Soil Condition Investigation (SCI) was performed as part of a Hazardous Material Assessment conducted by MEC^X for the Site. The work was completed in accordance with the terms and conditions outlined in the technical proposal issued to DVAMC by MEC^X (dated June 27, 2013) in response to solicitation number VA-259-13-R-0722.

Background

The Department of Veterans Affairs (VA) issued a Request for Quote (RFQ) and accompanying Statement of Work (SOW) for completing a Hazardous Material Assessment of the DVAMC (also referred to as the Eastern Colorado Health Care System – Denver Campus) located in the City and County of Denver, Colorado at 1055 Clermont Street.

The goal of the Hazardous Materials Assessment was to identify and determine the condition of hazardous materials within the VAMC in anticipation of transfer or demolition of the facility when the DVAMC relocates to new facilities. Subtask 3 of the Hazardous Materials Assessment was to complete the SCI, which entailed the sampling and analysis of soil at ten (10) predetermined locations selected by the VA to document past and current soil conditions.

Soil Condition Investigation

On October 16, 2013, MEC^X performed the SCI of the Site. The scope of the SCI consisted of advancing ten (10) soil borings (SBs) across the Site at locations identified selected by the VA based on the historic record of past uses at the Site. Prior to the start of sampling activities, MEC^X notified the publicly available Colorado One Call System (811) to locate utilities in the vicinity of the proposed soil boring locations. In addition, MEC^X reviewed the proposed boring locations in advance with the VA facility engineer in an effort to have all water and sewer utilities located, as these utilities were not generally included in One Call System notifications. Due to the close proximity of some SB locations to DVAMC owned utilities, MEC^X also contracted a private utility locator to further delineate utilities in the sampling area. As a result of the private locating service identifying electrical lines in the designated sampling location, MEC^X moved the location of the SB near the Chapel transformers (H-101) approximately four (4) feet west and two (2) feet north of the original location.

Decorative rock and/or sod layer was removed prior to soil boring advancement. The soil borings were advanced at the Site via hand auger. Locations of sampling are shown on Figure 1. The drilling/sampling locations are summarized in Table 1 (below).

Table 1: Summary of Soil Boring Locations

Soil Boring I.D.	Soil Boring Depth (ft.)	Location on Site
A-101	1.5 ft.	North end of Site, north side of Building 8
B-101	1.5 ft.	North end of Site, east of Building 8

C-101	1.5 ft.	North end of Site, between Buildings 20 and 25
D-101	1.5 ft.	North end of Site, east of Building 25
E-101	1.5 ft.	East-central portion of Site, northeast of Main Hospital
F-101	1.5 ft.	Southeast side of Site, southeast of Main Hospital
G-101	1.5 ft.	Northeast portion of Site, east of
H-101	1.5 ft.	West-central portion of Site, between Main Hospital and Chapel
I-101	1.5 ft.	West-central portion of Site, west of Chapel
J-101/K-101	1.5 ft.	West-central portion of Site, northwest corner of Building 24

Subsurface materials encountered beneath the Site during the sampling activities consisted of reddish-brown clays with sparse fill material (rock and/or soil) observed at or just below the ground surface.

Upon collection of soil samples, MEC^X packaged the samples on ice for transfer to TestAmerica - Denver, a Colorado accredited and certified laboratory. The samples were collected and transferred under standard chain-of-custody procedures for laboratory analyses. Sampling and analysis was conducted in accordance with Colorado Department of Public Health and Environment (CDPHE) regulations and/or current industry standards.

For quality assurance (QA) purposes, MEC^X collected a field duplicate, matrix spike sample, matrix spike duplicate, and equipment decontamination blank in addition to the site samples.

Following completion of the soil sampling activities, excess soil cuttings were returned to the soil borings and the ground surface was returned to pre-sampling conditions.

Analytical Testing

For the analysis proposed in the RFQ, MEC^X substituted SW-846 Method 8015B for gasoline range organics (GRO) and SW-846 Method 8015B for diesel and oil range organics (DRO/ORO) for the VA requested EPA Method 418.1. The substitutions were made because United States Environmental Protection Agency (USEPA) Method 418.1 was discontinued by the EPA in 2007. SW-846 Method 8015B GRO/DRO/ORO are the methods recognized by CDPHE as replacements for EPA Method 418.1. A summary of the soil samples collected and the laboratory analytical methods is presented in Table 2 below.

Table 2: Laboratory Methods

SB ID	TPH-GRO SW-846 Method 8015B	TPH-DRO SW-846 Method 8015B	TPH-ORO SW-846 Method 8015B	Resource Conservation and Recovery Act (RCRA) 8 METALS
A-101	1	1	1	1
B-101	1	1	1	1
C-101	1	1	1	1
D-101	1	1	1	1
E-101	1	1	1	1
F-101	1	1	1	1
G-101	1	1	1	1

H-101	1	1	1	1
I-101	1	1	1	1
J-101/K-101	2	2	2	2
TOTAL	**11**	**11**	**11**	**11**

Decontamination and Waste Management Procedures

The decontamination procedure for the drilling equipment consisted of using a citrus based, biodegradable detergent and potable water to clean and rinse the hand auger and sampling trowel prior to advancing each boring.

Investigative derived wastes (IDW), including a minimal amount of rinse water from decontamination of the sampling equipment, was added to the VA waste streams for disposal.

Data Evaluation

MEC^X utilized the USEPA Region 8 Regional Screening Levels (RSLs) (Summary Table, November 2013) as the established regulatory guidance to evaluate the laboratory results obtained from the soil samples collected at the Site.

The EPA RSLs are applicable screening levels for residential and industrial worker exposure scenarios, and are used to determine whether levels of contamination found at a site may warrant further investigation or cleanup, or whether no further investigation or action may be required.

For chromium, analytical results were compared to the RSLs for hexavalent chromium (chromium VI), which are the most conservative RSLs for chromium and its compounds.

Because arsenic is not suspected to have been used at the Site, MEC^X also compared the soil analytical results to the arsenic concentrations listed in the CDPHE guidance document titled *Risk Management Guidance for Evaluating Arsenic Concentration in Soil* (CDPHE Arsenic Guidance Document) dated June 2011.

TPH results were evaluated against a Total TPH concentration of 500 mg/Kg. This threshold value was established by the Colorado Department of Labor and Employment, Division of Oil and Public Safety (OPS), and outlined in their *Petroleum Storage Tank Owner/Operator Guidance Document* (Effective February 1999; Revised October, 2005).

Analytical Results

Results of the soil analytical testing are presented below:

RCRA Metals Analytical Results

Several RCRA metals were detected at concentrations above their laboratory detection limits; however, no metals were detected at concentrations exceeding their established RSLs with the exception of chromium and arsenic.

Total chromium was detected at concentrations above the chromium VI Industrial Soil RSL of 5.6 mg/Kg at all ten soil sample locations.

Arsenic was also detected at concentrations above the arsenic Industrial Soil RSL of 2.4 kg/Kg at all ten soil sample locations. Arsenic concentrations, however, were well below the CDPHE-published target concentration of 11 mg/Kg outlined in the CDPHE arsenic guidance document.

TPH Analytical Results

TPH-GRO was not detected in any soil sample locations at concentrations above their laboratory detection limits. TPH-DRO and ORO were detected at all ten sample locations at concentrations above their laboratory detection limits. Two sample locations, D-101 (east side of facility east of Building 18) and I-101 (north-central portion of facility north of chapel) contained Total TPH concentrations exceeding the 500 mg/Kg threshold value.

Conclusions

The subsurface investigation revealed evidence that affected environmental media is present beneath the Site. The affected conditions identified include the following:

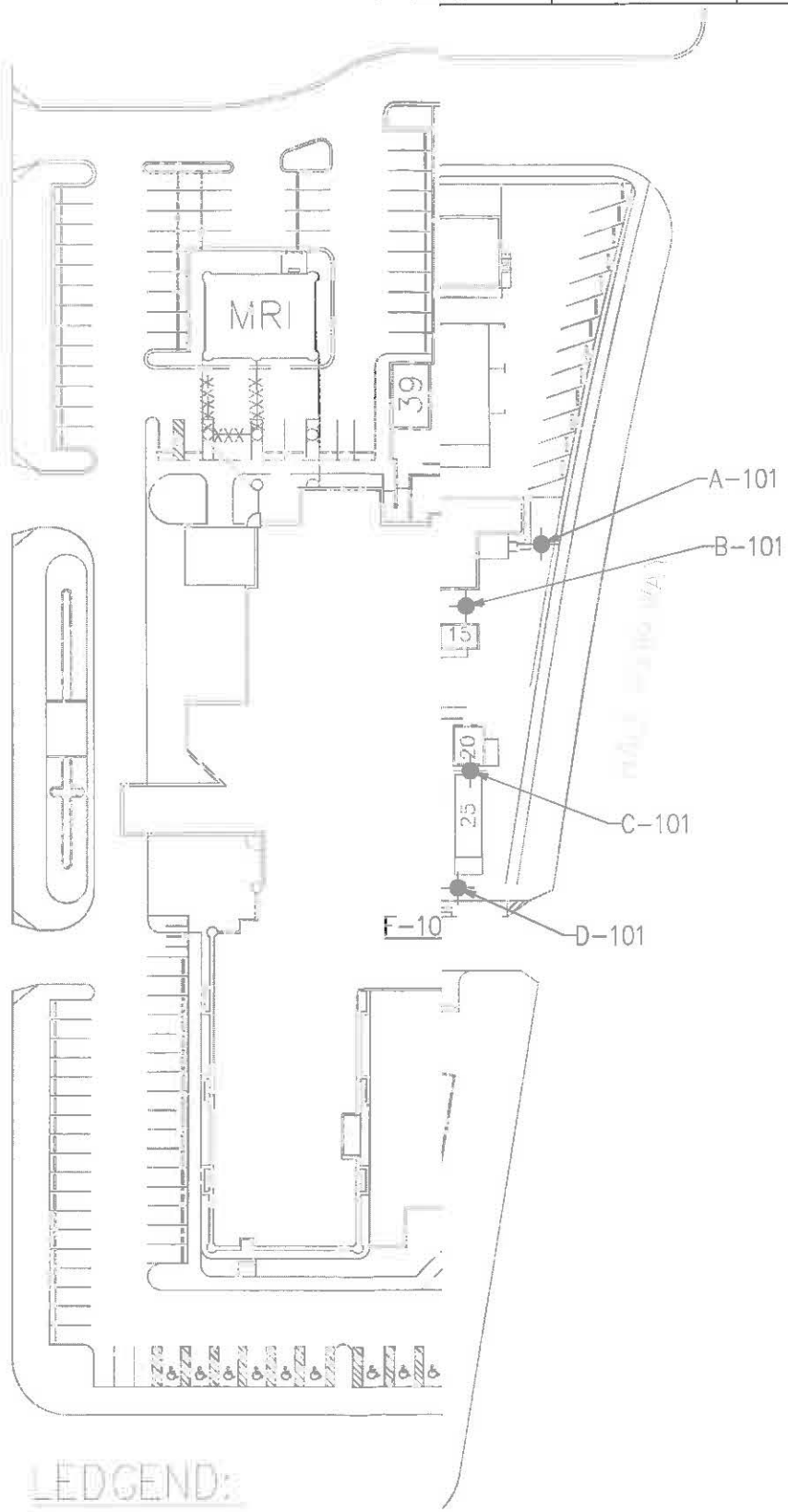
- ***Chromium in Soils-*** The elevated chromium concentrations observed in surface soils during the field investigation exceed the most conservative chromium VI RSLs, but do not exceed the RSLs for trivalent chromium (chromium III), insoluble salts. Additional soil sampling and analysis for chromium VI would be required to verify the specific chromium compounds in soils beneath the Site.
- ***TPH in Soils-*** The elevated TPH detected in soils beneath the Site at sample locations D-101 and I-101 are most likely due to historic operations at the Site. Because these two locations contain TPH concentrations exceeding 500 mg/Kg, additional sampling at these locations and analyses for polynuclear aromatic hydrocarbons (PAHs) would be required to verify the specific constituents present, and to determine if priority PAHs pose a risk to human health and the environment.

Recommendations

Based on results of the SCI, MEC^X makes the following recommendations:

- Additional soil sampling should be conducted and the samples should be analyzed for chromium VI to determine if this constituent is a concern for the Site.
- Additional soil samples at locations D-101 and I-101 should be analyzed for PAHs to verify the constituents present. Analysis for PAHs should be conducted using EPA method 8270 as presented in SW-846, or an equivalent method approved by the OPS. These results should then be compared to their applicable RSLs to determine if PAHs are a concern for the Site.

FIGURES



LEDGEND:

— SOIL BORING
(SYMBOL NOT TO SCALE)

50 75 150 225
GRAPHICAL SCALE

MEC^X, LP
3203 AUDLEY ST.
HOUSTON, TEXAS 77098

713.585.7000 PH.
713.585.7049 FAX

WWW.MECX.NET

OTHER OFFICES:

CHICAGO, IL

DENVER, CO

BUFFALO, NY

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ECHCS - DENVER CAMPUS
1055 CLERMONT STREET
DENVER, CO 80220

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SITEMAP

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1244.0130.00

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ORIGINAL 11/26/2013
REV. 1

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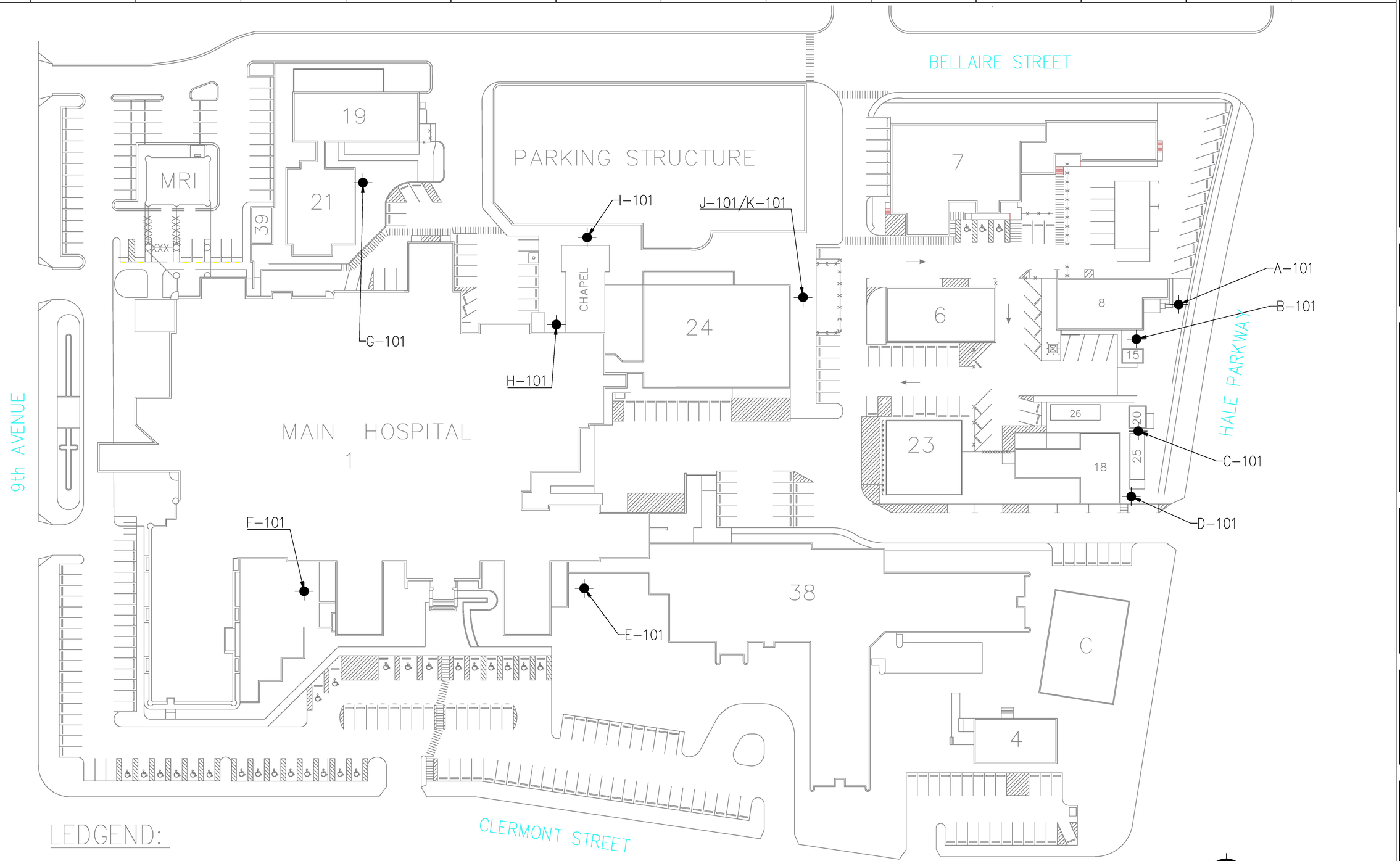
SITEMAP



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● – SOIL BORING
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MEC^X

MEC^X , LP
3203 AUDLEY ST.
HOUSTON, TEXAS 77098

713.585.7000 PH.
713.585.7049 FAX

WWW.MECX.NET

OTHER OFFICES:

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DENVER, CO 80220

SHEET TITLE:

ECHCS DENVER CAMPUS SITEMAP

PROJECT NUMBER:
1244.013D.00

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ORIGINAL 11/26/2013
REV. 1

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SITEMAP

ATTACHMENT 1 - Analytical Summary Table

Table 3
SUMMAY TABLE OF SOIL ANALYTICAL RESULTS
DENVER VETERAN AFFAIRS MEDICAL CENTER
DENVER, COLORADO

Sample Name Sample Date Constituents	A-101 10/16/2013	B-101 10/16/2013	C-101 10/16/2013	D-101 10/16/2013	E-101 10/16/2013	F-101 10/16/2013	G-101 10/16/2013	H-101 10/16/2013	I-101 10/16/2013	J-101 10/16/2013	K-101 10/16/2013	EPA RSL	EPA RSL	Colorado PST Owner/Operator Guidance Document TPH Threshold Value	CDPHE Arsenic Guidance Document
RCRA 8 Metals (mg/kg)															
Arsenic	4.2	6.0	3.9	5.0	4.6	4.6	3.2	4.5	6.2	3.9	2.9	0.61	2.4		11
Barium	210	190	160	210	150	200	180	160	140	120	110	15,000	190,000		
Cadmium	0.71	0.39	1.5	0.39	0.42	0.34	0.24	0.36	1.1	0.17	0.14	70	800		
Chromium	**17**	**21**	**23**	**14**	**15**	**14**	**10**	**13**	**17**	**12**	**8.1**	0.29(Cr 6)	5.6(Cr+3)		
Lead	100	41	92	26	42	19	26	30	260	15	13	400	800		
Mercury	220	140	49	86	700	39	71	130	210	53	65	10	43		
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	390	5,100		
Silver	1.3	0.92	0.52	ND	0.32	ND	ND	0.44	0.71	ND	ND	390	5,100		
Total Petroleum Hydrocarbons (TPH) (mg/kg)															
Gasoline Range Organics (GRO)-C6-C10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			500 mg/kg Combined TPH	
Diesel Range Organics [C10-C28]	140	7.4	60	**200**	12	7.3	11	13	**260**	14	13				
Motor Oil (C20-C38)	250	15	100	**640**	21	17	21	26	**720**	30	29				

Notes:
ND= Constituent Not Detected above Laboratory Detection Limits
Concentrations in BOLD Represent concentrations exceeding the EPA RSLs or PST Threshold Values
Chromium concentrations were compared to Chromium (VI) RSLs.
mg/Kg = milligrams per kilogram (ppm - parts per million).
NL= Compound Not Listed in RSL Tables

ATTACHMENT 2 – Laboratory Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-48043-1

Job Description: MECX - Denver VA Soil Sampling

For:
MECX LLC
12269 East Vassar Drive
Aurora, CO 80014

Attention: Elizabeth Wessling

Approved for release.
Lisa B Uriell
Project Manager II
10/30/2013 8:32 AM

Lisa B Uriell, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0103
lisa.uriell@testamericainc.com
10/30/2013

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: MECX LLC

Project: Denver VA Soil Sampling

Report Number: 280-48043-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Eleven soil samples and one water sample was received under Chain of Custody on October 17, 2013. The samples were received in good condition at temperatures of 3.9°C, 2.1°C and 1.8°C.

No anomalies were encountered during sample receipt.

GC Volatiles / GRO - SW846 Method 8015B
No anomalies were observed.

GC Semivolatiles / DRO & ORO - SW846 Method 8015B
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Sample I-101 (280-48043-9) exhibited elevated detection limits, due to elevated final extract volume. The method specified final extract volume is 1mL; however, the sample would not concentrate below 4mLs. The analyst noted that the sample was dark black and oily.

Surrogate o-Terphenyl was recovered above the QC control limits in sample A-101 (280-48043-1) at 152% (limits 49-115%). This anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

No other anomalies were observed.

RCRA Metals - SW846 Methods 6010B / 7471A / 7470A
Low levels of Barium and Lead were detected in the method 6010B blank associated with prep batch 280-196748. The values should be considered estimates, and have been flagged "J". Because the concentrations in the method blank were not present at levels greater than one half the reporting limits, corrective action was deemed unnecessary. The associated positive result in the analytical report has been flagged with a "B". Usability of the sample data is not compromised.

The MS/MSD analyses associated with prep batch 280-196678 were performed on sample A-101 (280-48043-1). The MS/MSD exhibited the matrix spike duplicate (MSD) percent recovery and relative percent difference (RPD) data outside the QC control limits for Lead. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD analyses associated with prep batch 280-198081 were performed on sample A-101 (280-48043-1). The MS/MSD exhibited the matrix spike duplicate (MSD) percent recovery outside the QC control limits for Mercury. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The 6010B serial dilution (SD) associated with prep batch 280-196678 was performed on sample A-101 (280-48043-1). The serial dilution exhibited the percent difference recovery outside the control limits for Barium, Chromium and Lead, indicating that physical and chemical interferences were present. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were observed.

General Chemistry - Percent Moisture
No anomalies were observed.

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 182243

Lab Sample ID: STD6 280-182243/6 IC Client Sample ID:

Date Analyzed: 07/11/13 10:28 Lab File ID: 006F0601.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.13	Baseline Smoothing	mooret	07/15/13 08:21
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 11:01
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 11:01
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 11:01
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:50

Lab Sample ID: STD5 280-182243/7 IC Client Sample ID:

Date Analyzed: 07/11/13 10:52 Lab File ID: 007F0701.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.14	Baseline Smoothing	mooret	07/15/13 08:21
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 11:56
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 11:56
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 11:56
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:50
1-Chloro-4-fluorobenzene	9.52	Baseline Smoothing	mooret	07/11/13 11:56

Lab Sample ID: STD4 280-182243/8 IC Client Sample ID:

Date Analyzed: 07/11/13 11:17 Lab File ID: 008F0801.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.13	Baseline Smoothing	mooret	07/15/13 08:22
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 12:33
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 12:33
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 12:33
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:50

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 182243

Lab Sample ID: STD3 280-182243/9 IC Client Sample ID:

Date Analyzed: 07/11/13 11:42 Lab File ID: 009F0901.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.14	Baseline Smoothing	mooret	07/15/13 08:23
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 12:32
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 12:32
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 12:32
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:50

Lab Sample ID: STD2 280-182243/10 IC Client Sample ID:

Date Analyzed: 07/11/13 12:07 Lab File ID: 010F1001.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.14	Incomplete Integration	mooret	07/15/13 08:24
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 12:34
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 12:34
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 12:34
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:50
1-Chloro-4-fluorobenzene	9.52	Baseline Smoothing	mooret	07/11/13 12:31

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 182243

Lab Sample ID: STD1 280-182243/11 IC Client Sample ID:

Date Analyzed: 07/11/13 12:32 Lab File ID: 011F1101.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methanol	3.14	Baseline Smoothing	mooret	07/15/13 08:24
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/15/13 08:51
C6-C12	9.17	Baseline Smoothing	mooret	07/15/13 08:51
Gasoline	9.17	Baseline Smoothing	mooret	07/15/13 08:51
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:51
1-Chloro-4-fluorobenzene	9.52	Baseline Smoothing	mooret	07/11/13 12:57

Lab Sample ID: ICV 280-182243/12 Client Sample ID:

Date Analyzed: 07/11/13 13:32 Lab File ID: 012F1201.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	07/11/13 14:32
C6-C12	9.17	Baseline Smoothing	mooret	07/11/13 14:32
Gasoline	9.17	Baseline Smoothing	mooret	07/11/13 14:32
C4-C12	9.20	Baseline Smoothing	mooret	07/15/13 08:57

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 197150

Lab Sample ID: CCVRT 280-197150/5 Client Sample ID:

Date Analyzed: 10/22/13 11:28 Lab File ID: 005F0501.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/22/13 11:54
C6-C12	9.17	Baseline Smoothing	mooret	10/22/13 11:54
Gasoline	9.17	Baseline Smoothing	mooret	10/22/13 11:54

Lab Sample ID: LCS 280-197148/2-A Client Sample ID:

Date Analyzed: 10/22/13 12:50 Lab File ID: 007F0701.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/23/13 11:23

Lab Sample ID: LCSD 280-197148/3-A Client Sample ID:

Date Analyzed: 10/22/13 13:16 Lab File ID: 008F0801.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/23/13 11:23

Lab Sample ID: CCV 280-197150/19 Client Sample ID:

Date Analyzed: 10/22/13 17:54 Lab File ID: 019F1901.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/23/13 11:25
C6-C12	9.17	Baseline Smoothing	mooret	10/23/13 11:25
Gasoline	9.17	Baseline Smoothing	mooret	10/23/13 11:25

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 197150

Lab Sample ID: CCV 280-197150/30 Client Sample ID:

Date Analyzed: 10/22/13 22:27 Lab File ID: 030F3001.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/23/13 11:27
C6-C12	9.17	Baseline Smoothing	mooret	10/23/13 11:27
Gasoline	9.17	Baseline Smoothing	mooret	10/23/13 11:27

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: VGC_Q Analysis Batch Number: 197425

Lab Sample ID: CCVRT 280-197425/4 Client Sample ID:

Date Analyzed: 10/23/13 15:45 Lab File ID: 004F0401.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/23/13 16:06
C6-C12	9.17	Baseline Smoothing	mooret	10/23/13 16:06
Gasoline	9.17	Baseline Smoothing	mooret	10/23/13 16:06

Lab Sample ID: LCS 280-197425/6 Client Sample ID:

Date Analyzed: 10/23/13 16:34 Lab File ID: 006F0601.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/24/13 14:30

Lab Sample ID: LCSD 280-197425/7 Client Sample ID:

Date Analyzed: 10/23/13 16:59 Lab File ID: 007F0701.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/24/13 14:30

Lab Sample ID: CCV 280-197425/17 Client Sample ID:

Date Analyzed: 10/23/13 21:08 Lab File ID: 017F1701.D GC Column: RTX 502.2 (105 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	8.24	Baseline Smoothing	mooret	10/24/13 14:31
C6-C12	9.17	Baseline Smoothing	mooret	10/24/13 14:31
Gasoline	9.17	Baseline Smoothing	mooret	10/24/13 14:31

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 195154

Lab Sample ID: STD 280-195154/4 IC Client Sample ID:

Date Analyzed: 10/09/13 13:37 Lab File ID: 10090004.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:05
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:05
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:05

Lab Sample ID: STD 280-195154/5 IC Client Sample ID:

Date Analyzed: 10/09/13 14:06 Lab File ID: 10090005.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:06
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:06
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:06
o-Terphenyl	5.62	Baseline Smoothing	birdsellm	10/10/13 10:07
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:06

Lab Sample ID: STD 280-195154/6 IC Client Sample ID:

Date Analyzed: 10/09/13 14:35 Lab File ID: 10090006.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:07
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:07
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:07
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/10/13 10:07
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:07

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 195154

Lab Sample ID: STD 280-195154/7 IC Client Sample ID:

Date Analyzed: 10/09/13 15:04 Lab File ID: 10090007.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.25	Baseline Smoothing	birdsellm	10/10/13 10:07
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:07
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:07
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/10/13 10:07
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:07

Lab Sample ID: STD 280-195154/8 IC Client Sample ID:

Date Analyzed: 10/09/13 15:32 Lab File ID: 10090008.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:08
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:08
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:08
o-Terphenyl	5.59	Baseline Smoothing	birdsellm	10/10/13 10:08
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:08

Lab Sample ID: STD 280-195154/9 IC Client Sample ID:

Date Analyzed: 10/09/13 16:01 Lab File ID: 10090009.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:08
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:08
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:08
o-Terphenyl	5.59	Baseline Smoothing	birdsellm	10/10/13 10:08
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:08

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 195154

Lab Sample ID: STD 280-195154/10 IC Client Sample ID:

Date Analyzed: 10/09/13 16:29 Lab File ID: 10090010.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:08
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:08
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:08
o-Terphenyl	5.59	Baseline Smoothing	birdsellm	10/10/13 10:08
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:08

Lab Sample ID: ICV 280-195154/11 Client Sample ID:

Date Analyzed: 10/09/13 16:58 Lab File ID: 10090011.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/10/13 10:09
Diesel Range Organics [C10-C28]	4.60	Baseline Smoothing	birdsellm	10/10/13 10:09
C10-C32	4.97	Baseline Smoothing	birdsellm	10/10/13 10:09
C10-C36	5.30	Baseline Smoothing	birdsellm	10/10/13 10:09
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/10/13 10:09

Lab Sample ID: STD 280-195154/12 IC Client Sample ID:

Date Analyzed: 10/09/13 17:26 Lab File ID: 10090012.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:30
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:30

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 195154

Lab Sample ID: STD 280-195154/13 IC Client Sample ID:

Date Analyzed: 10/09/13 17:54 Lab File ID: 10090013.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:30
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:30

Lab Sample ID: STD 280-195154/14 IC Client Sample ID:

Date Analyzed: 10/09/13 18:23 Lab File ID: 10090014.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:31
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:31

Lab Sample ID: STD 280-195154/15 IC Client Sample ID:

Date Analyzed: 10/09/13 18:51 Lab File ID: 10090015.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:31
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:31

Lab Sample ID: STD 280-195154/16 IC Client Sample ID:

Date Analyzed: 10/09/13 19:19 Lab File ID: 10090016.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:31
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:31

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 195154

Lab Sample ID: STD 280-195154/17 IC Client Sample ID:

Date Analyzed: 10/09/13 19:47 Lab File ID: 10090017.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:31
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:31

Lab Sample ID: STD 280-195154/18 IC Client Sample ID:

Date Analyzed: 10/09/13 20:15 Lab File ID: 10090018.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 08:31
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 08:31

Lab Sample ID: ICV 280-195154/19 Client Sample ID:

Date Analyzed: 10/09/13 20:44 Lab File ID: 10090019.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/10/13 09:26
C25-C36	8.23	Baseline Smoothing	birdsellm	10/10/13 09:26

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197165

Lab Sample ID: CCVRT 280-197165/4 Client Sample ID:

Date Analyzed: 10/22/13 14:02 Lab File ID: 10220004.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.25	Baseline Smoothing	birdsellm	10/23/13 08:21
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/23/13 08:21
C10-C32	4.97	Baseline Smoothing	birdsellm	10/23/13 08:21
C10-C36	5.28	Baseline Smoothing	birdsellm	10/23/13 08:21
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/23/13 08:21

Lab Sample ID: CCV 280-197165/5 Client Sample ID:

Date Analyzed: 10/22/13 14:32 Lab File ID: 10220005.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/23/13 08:21
C25-C36	8.22	Baseline Smoothing	birdsellm	10/23/13 08:21

Lab Sample ID: LCS 280-196902/2-A Client Sample ID:

Date Analyzed: 10/22/13 15:31 Lab File ID: 10220007.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 09:52

Lab Sample ID: 280-48043-1 Client Sample ID: A-101

Date Analyzed: 10/22/13 20:17 Lab File ID: 10220017.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 09:54
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 09:54
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 09:54

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197165

Lab Sample ID: 280-48043-2 Client Sample ID: B-101

Date Analyzed: 10/22/13 20:45 Lab File ID: 10220018.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 09:54
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 09:54
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 09:54

Lab Sample ID: 280-48043-3 Client Sample ID: C-101

Date Analyzed: 10/22/13 21:14 Lab File ID: 10220019.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 09:54
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 09:54
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 09:54

Lab Sample ID: CCV 280-197165/20 Client Sample ID:

Date Analyzed: 10/22/13 21:42 Lab File ID: 10220020.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.25	Baseline Smoothing	birdsellm	10/23/13 08:22
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/23/13 08:22
C10-C32	4.97	Baseline Smoothing	birdsellm	10/23/13 08:22
C10-C36	5.28	Baseline Smoothing	birdsellm	10/23/13 08:22
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/23/13 08:22

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197165

Lab Sample ID: CCV 280-197165/21 Client Sample ID:

Date Analyzed: 10/22/13 22:11 Lab File ID: 10220021.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/23/13 08:22
C25-C36	8.22	Baseline Smoothing	birdsellm	10/23/13 08:22

Lab Sample ID: 280-48043-4 Client Sample ID: D-101

Date Analyzed: 10/22/13 22:39 Lab File ID: 10220022.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 09:59
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/23/13 08:22
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 09:59

Lab Sample ID: 280-48043-5 Client Sample ID: E-101

Date Analyzed: 10/22/13 23:08 Lab File ID: 10220023.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:00
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:00

Lab Sample ID: 280-48043-6 Client Sample ID: F-101

Date Analyzed: 10/22/13 23:36 Lab File ID: 10220024.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:00
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:00

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197165

Lab Sample ID: 280-48043-7 Client Sample ID: G-101

Date Analyzed: 10/23/13 00:05 Lab File ID: 10220025.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:00
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 10:00
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:00

Lab Sample ID: 280-48043-8 Client Sample ID: H-101

Date Analyzed: 10/23/13 00:33 Lab File ID: 10220026.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:00
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 10:00
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:00

Lab Sample ID: 280-48043-9 Client Sample ID: I-101

Date Analyzed: 10/23/13 01:01 Lab File ID: 10220027.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:00
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 10:00
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:00

Lab Sample ID: 280-48043-10 Client Sample ID: J-101

Date Analyzed: 10/23/13 01:30 Lab File ID: 10220028.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:02
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 10:02
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:02

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197165

Lab Sample ID: 280-48043-11 Client Sample ID: K-101

Date Analyzed: 10/23/13 01:58 Lab File ID: 10220029.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/24/13 10:02
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/24/13 10:02
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/24/13 10:02

Lab Sample ID: CCV 280-197165/37 Client Sample ID:

Date Analyzed: 10/23/13 05:42 Lab File ID: 10220037.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.25	Baseline Smoothing	birdsellm	10/23/13 08:23
Diesel Range Organics [C10-C28]	4.62	Baseline Smoothing	birdsellm	10/23/13 08:23
C10-C32	4.97	Baseline Smoothing	birdsellm	10/23/13 08:23
C10-C36	5.28	Baseline Smoothing	birdsellm	10/23/13 08:23
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/23/13 08:23
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/23/13 08:23

Lab Sample ID: CCV 280-197165/38 Client Sample ID:

Date Analyzed: 10/23/13 06:09 Lab File ID: 10220038.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/23/13 08:23
C25-C36	8.22	Baseline Smoothing	birdsellm	10/23/13 08:23

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197842

Lab Sample ID: CCVRT 280-197842/4 Client Sample ID:

Date Analyzed: 10/25/13 15:31 Lab File ID: 10250004.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/28/13 08:03
Diesel Range Organics [C10-C28]	4.67	Baseline Smoothing	birdsellm	10/28/13 08:03
C10-C32	5.00	Baseline Smoothing	birdsellm	10/28/13 08:03
C10-C36	5.33	Baseline Smoothing	birdsellm	10/28/13 08:03
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/28/13 08:03

Lab Sample ID: CCV 280-197842/5 Client Sample ID:

Date Analyzed: 10/25/13 16:00 Lab File ID: 10250005.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/28/13 08:04
C25-C36	8.20	Baseline Smoothing	birdsellm	10/28/13 08:04

Lab Sample ID: LCS 280-197468/2-A Client Sample ID:

Date Analyzed: 10/25/13 16:58 Lab File ID: 10250007.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.67	Baseline Smoothing	birdsellm	10/28/13 09:53

Lab Sample ID: LCSD 280-197468/3-A Client Sample ID:

Date Analyzed: 10/25/13 17:27 Lab File ID: 10250008.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	4.67	Baseline Smoothing	birdsellm	10/28/13 09:53
o-Terphenyl	5.60	Baseline Smoothing	birdsellm	10/28/13 09:53

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-48043-1

SDG No.:

Instrument ID: SGC_U Analysis Batch Number: 197842

Lab Sample ID: CCV 280-197842/24 Client Sample ID:

Date Analyzed: 10/26/13 01:01 Lab File ID: 10250024.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C25	4.26	Baseline Smoothing	birdsellm	10/28/13 08:04
Diesel Range Organics [C10-C28]	4.67	Baseline Smoothing	birdsellm	10/28/13 08:04
C10-C32	5.00	Baseline Smoothing	birdsellm	10/28/13 08:04
C10-C36	5.33	Baseline Smoothing	birdsellm	10/28/13 08:04
n-Octacosane	7.83	Baseline Smoothing	birdsellm	10/28/13 08:04

Lab Sample ID: CCV 280-197842/25 Client Sample ID:

Date Analyzed: 10/26/13 01:30 Lab File ID: 10250025.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Motor Oil (C20-C38)	7.80	Baseline Smoothing	birdsellm	10/28/13 08:04
C25-C36	8.20	Baseline Smoothing	birdsellm	10/28/13 08:04

8015B

SAMPLE SUMMARY

Client: MECX LLC

Job Number: 280-48043-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-48043-1	A-101	Solid	10/16/2013 1450	10/17/2013 0959
280-48043-2	B-101	Solid	10/16/2013 1500	10/17/2013 0959
280-48043-3	C-101	Solid	10/16/2013 1515	10/17/2013 0959
280-48043-4	D-101	Solid	10/16/2013 1530	10/17/2013 0959
280-48043-5	E-101	Solid	10/16/2013 1600	10/17/2013 0959
280-48043-6	F-101	Solid	10/16/2013 1615	10/17/2013 0959
280-48043-7	G-101	Solid	10/16/2013 1630	10/17/2013 0959
280-48043-8	H-101	Solid	10/16/2013 1645	10/17/2013 0959
280-48043-9	I-101	Solid	10/16/2013 1700	10/17/2013 0959
280-48043-10	J-101	Solid	10/16/2013 1730	10/17/2013 0959
280-48043-11	K-101	Solid	10/16/2013 1745	10/17/2013 0959
280-48043-12	L-101	Water	10/16/2013 1726	10/17/2013 0959

EXECUTIVE SUMMARY - Detections

Client: MECX LLC

Job Number: 280-48043-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-48043-1	**A-101**					
Diesel Range Organics [C10-C28]		140		4.4	mg/Kg	8015B
Motor Oil (C20-C38)		250		13	mg/Kg	8015B
Arsenic		4.2		2.2	mg/Kg	6010B
Barium		210		1.1	mg/Kg	6010B
Cadmium		0.71		0.56	mg/Kg	6010B
Chromium		17		1.7	mg/Kg	6010B
Lead		100		0.90	mg/Kg	6010B
Silver		1.3		1.1	mg/Kg	6010B
Mercury		220		17	ug/Kg	7471A
Percent Moisture		11		0.10	%	Moisture
280-48043-2	**B-101**					
Diesel Range Organics [C10-C28]		7.4		4.6	mg/Kg	8015B
Motor Oil (C20-C38)		15		14	mg/Kg	8015B
Arsenic		6.0		2.1	mg/Kg	6010B
Barium		190		1.1	mg/Kg	6010B
Cadmium		0.39	J	0.53	mg/Kg	6010B
Chromium		21		1.6	mg/Kg	6010B
Lead		41		0.84	mg/Kg	6010B
Silver		0.92	J	1.1	mg/Kg	6010B
Mercury		140		19	ug/Kg	7471A
Percent Moisture		20		0.10	%	Moisture
280-48043-3	**C-101**					
Diesel Range Organics [C10-C28]		60		4.9	mg/Kg	8015B
Motor Oil (C20-C38)		100		15	mg/Kg	8015B
Arsenic		3.9		2.2	mg/Kg	6010B
Barium		160		1.1	mg/Kg	6010B
Cadmium		1.5		0.55	mg/Kg	6010B
Chromium		23		1.6	mg/Kg	6010B
Lead		92		0.88	mg/Kg	6010B
Silver		0.52	J	1.1	mg/Kg	6010B
Mercury		49		18	ug/Kg	7471A
Percent Moisture		19		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: MECX LLC

Job Number: 280-48043-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-48043-4	**D-101**					
Diesel Range Organics [C10-C28]		200		4.4	mg/Kg	8015B
Motor Oil (C20-C38)		640		13	mg/Kg	8015B
Arsenic		5.0		2.2	mg/Kg	6010B
Barium		210		1.1	mg/Kg	6010B
Cadmium		0.39	J	0.55	mg/Kg	6010B
Chromium		14		1.6	mg/Kg	6010B
Lead		26		0.87	mg/Kg	6010B
Mercury		86		17	ug/Kg	7471A
Percent Moisture		14		0.10	%	Moisture
280-48043-5	**E-101**					
Diesel Range Organics [C10-C28]		12		4.5	mg/Kg	8015B
Motor Oil (C20-C38)		21		13	mg/Kg	8015B
Arsenic		4.6		2.1	mg/Kg	6010B
Barium		150		1.0	mg/Kg	6010B
Cadmium		0.42	J	0.52	mg/Kg	6010B
Chromium		15		1.6	mg/Kg	6010B
Lead		42		0.83	mg/Kg	6010B
Silver		0.32	J	1.0	mg/Kg	6010B
Mercury		700		21	ug/Kg	7471A
Percent Moisture		18		0.10	%	Moisture
280-48043-6	**F-101**					
Diesel Range Organics [C10-C28]		7.3		4.4	mg/Kg	8015B
Motor Oil (C20-C38)		17		13	mg/Kg	8015B
Arsenic		4.6		2.2	mg/Kg	6010B
Barium		200		1.1	mg/Kg	6010B
Cadmium		0.34	J	0.56	mg/Kg	6010B
Chromium		14		1.7	mg/Kg	6010B
Lead		19		0.90	mg/Kg	6010B
Mercury		39		19	ug/Kg	7471A
Percent Moisture		15		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: MECX LLC

Job Number: 280-48043-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-48043-7	**G-101**					
Diesel Range Organics [C10-C28]		11		4.6	mg/Kg	8015B
Motor Oil (C20-C38)		21		14	mg/Kg	8015B
Arsenic		3.2		2.1	mg/Kg	6010B
Barium		180		1.0	mg/Kg	6010B
Cadmium		0.24	J	0.52	mg/Kg	6010B
Chromium		10		1.6	mg/Kg	6010B
Lead		26		0.84	mg/Kg	6010B
Mercury		71		17	ug/Kg	7471A
Percent Moisture		16		0.10	%	Moisture
280-48043-8	**H-101**					
Diesel Range Organics [C10-C28]		13		4.5	mg/Kg	8015B
Motor Oil (C20-C38)		26		14	mg/Kg	8015B
Arsenic		4.5		2.1	mg/Kg	6010B
Barium		160		1.1	mg/Kg	6010B
Cadmium		0.36	J	0.54	mg/Kg	6010B
Chromium		13		1.6	mg/Kg	6010B
Lead		30		0.86	mg/Kg	6010B
Silver		0.44	J	1.1	mg/Kg	6010B
Mercury		130		17	ug/Kg	7471A
Percent Moisture		14		0.10	%	Moisture
280-48043-9	**I-101**					
Diesel Range Organics [C10-C28]		260		18	mg/Kg	8015B
Motor Oil (C20-C38)		720		53	mg/Kg	8015B
Arsenic		6.2		2.2	mg/Kg	6010B
Barium		140		1.1	mg/Kg	6010B
Cadmium		1.1		0.56	mg/Kg	6010B
Chromium		17		1.7	mg/Kg	6010B
Lead		260		0.89	mg/Kg	6010B
Silver		0.71	J	1.1	mg/Kg	6010B
Mercury		210		16	ug/Kg	7471A
Percent Moisture		13		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: MECX LLC

Job Number: 280-48043-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-48043-10	**J-101**					
Diesel Range Organics [C10-C28]		14		4.3	mg/Kg	8015B
Motor Oil (C20-C38)		30		13	mg/Kg	8015B
Arsenic		3.9		2.0	mg/Kg	6010B
Barium		120		0.99	mg/Kg	6010B
Cadmium		0.17	J	0.50	mg/Kg	6010B
Chromium		12		1.5	mg/Kg	6010B
Lead		15		0.79	mg/Kg	6010B
Mercury		53		18	ug/Kg	7471A
Percent Moisture		15		0.10	%	Moisture
280-48043-11	**K-101**					
Diesel Range Organics [C10-C28]		13		4.6	mg/Kg	8015B
Motor Oil (C20-C38)		29		14	mg/Kg	8015B
Arsenic		2.9		2.1	mg/Kg	6010B
Barium		110		1.0	mg/Kg	6010B
Cadmium		0.14	J	0.51	mg/Kg	6010B
Chromium		8.1		1.5	mg/Kg	6010B
Lead		13		0.82	mg/Kg	6010B
Mercury		65		21	ug/Kg	7471A
Percent Moisture		13		0.10	%	Moisture
280-48043-12	**L-101**					
Gasoline Range Organics (GRO)-C6-C10		12	J	25	ug/L	8015B
Barium		4.4	J B	10	ug/L	6010B

METHOD SUMMARY

Client: MECX LLC

Job Number: 280-48043-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap	TAL DEN		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Microwave Extraction	TAL DEN		SW846 3546
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Percent Moisture	TAL DEN	EPA Moisture	
Matrix: Water			
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap	TAL DEN		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Metals	TAL DEN		SW846 3010A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury	TAL DEN		SW846 7470A

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: MECX LLC

Job Number: 280-48043-1

Method	Analyst	Analyst ID
SW846 8015B	Moore, Tegan E	TEM
SW846 8015B	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 6010B	Scott, Samantha J	SJS
SW846 7470A	Mooney, Joseph C	JM
SW846 7471A	Mooney, Joseph C	JM
EPA Moisture	Mooney, Joseph C	JM

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **A-101**

Lab Sample ID: 280-48043-1

Client Matrix: Solid

% Moisture: 10.7

Date Sampled: 10/16/2013 1450

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.22 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1704			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.36	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	89		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **B-101**

Lab Sample ID: 280-48043-2

Client Matrix: Solid

% Moisture: 19.5

Date Sampled: 10/16/2013 1500

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.23 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1729			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.39	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	90		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **C-101**

Lab Sample ID: 280-48043-3
Client Matrix: Solid

% Moisture: 18.8

Date Sampled: 10/16/2013 1515
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.42 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1819			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.38	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	84		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: D-101

Lab Sample ID: 280-48043-4
Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 10/16/2013 1530
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.44 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1844			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.36	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	84		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **E-101**

Lab Sample ID: 280-48043-5

Client Matrix: Solid

% Moisture: 18.4

Date Sampled: 10/16/2013 1600

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	9.93 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1909			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	86		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **F-101**

Lab Sample ID: 280-48043-6
Client Matrix: Solid
% Moisture: 15.2

Date Sampled: 10/16/2013 1615
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.31 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1934			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.37	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	83		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **G-101**

Lab Sample ID: 280-48043-7

Client Matrix: Solid

% Moisture: 15.6

Date Sampled: 10/16/2013 1630

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.12 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 1959			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.38	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	84		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: H-101

Lab Sample ID: 280-48043-8
Client Matrix: Solid

% Moisture: 13.9

Date Sampled: 10/16/2013 1645
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.49 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 2023			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.36	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	86		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **I-101**

Lab Sample ID: 280-48043-9

Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 10/16/2013 1700

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.29 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 2048			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.36	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	85		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: J-101

Lab Sample ID: 280-48043-10
Client Matrix: Solid

% Moisture: 15.2

Date Sampled: 10/16/2013 1730
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.01 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 2113			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.38	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	78		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **K-101**

Lab Sample ID: 280-48043-11

Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 10/16/2013 1745

Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-197148	Initial Weight/Volume:	10.14 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/22/2013 2138			Injection Volume:	
Prep Date:	10/22/2013 1015			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.37	1.4

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	80		77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **L-101**

Lab Sample ID: 280-48043-12
Client Matrix: Water

Date Sampled: 10/16/2013 1726
Date Received: 10/17/2013 0959

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-197425	Instrument ID:	VGC_Q
Prep Method:	5030B		N/A	Initial Weight/Volume:	5 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	10/23/2013 1724			Injection Volume:	
Prep Date:	10/23/2013 1724			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	12	J	10	25

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	103		82 - 110

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **A-101**

Lab Sample ID: 280-48043-1
Client Matrix: Solid
% Moisture: 10.7

Date Sampled: 10/16/2013 1450
Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2017			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		140		0.75	4.4
Motor Oil (C20-C38)		250		4.3	13

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	152	X	49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **B-101**

Lab Sample ID: 280-48043-2

Client Matrix: Solid

% Moisture: 19.5

Date Sampled: 10/16/2013 1500

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2045			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		7.4		0.79	4.6
Motor Oil (C20-C38)		15		4.5	14

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	58		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **C-101**

Lab Sample ID: 280-48043-3

Client Matrix: Solid

% Moisture: 18.8

Date Sampled: 10/16/2013 1515

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2114			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		60		0.83	4.9
Motor Oil (C20-C38)		100		4.8	15

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	106		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **D-101**

Lab Sample ID: 280-48043-4

Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 10/16/2013 1530

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2239			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		200		0.75	4.4
Motor Oil (C20-C38)		640		4.3	13

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	84		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **E-101**

Lab Sample ID: 280-48043-5

Client Matrix: Solid

% Moisture: 18.4

Date Sampled: 10/16/2013 1600

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	32.8 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2308			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	12		0.76	4.5
Motor Oil (C20-C38)	21		4.4	13

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	56		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **F-101**

Lab Sample ID: 280-48043-6

Client Matrix: Solid

% Moisture: 15.2

Date Sampled: 10/16/2013 1615

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/22/2013 2336			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	7.3		0.75	4.4
Motor Oil (C20-C38)	17		4.3	13

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	63		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **G-101**

Lab Sample ID: 280-48043-7

Client Matrix: Solid

% Moisture: 15.6

Date Sampled: 10/16/2013 1630

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/23/2013 0005			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		11		0.78	4.6
Motor Oil (C20-C38)		21		4.5	14

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	73		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **H-101**

Lab Sample ID: 280-48043-8

Client Matrix: Solid

% Moisture: 13.9

Date Sampled: 10/16/2013 1645

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/23/2013 0033			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		13		0.77	4.5
Motor Oil (C20-C38)		26		4.4	14

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **I-101**

Lab Sample ID: 280-48043-9

Client Matrix: Solid

% Moisture: 13.1

Date Sampled: 10/16/2013 1700

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	10/23/2013 0101			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		260		3.0	18
Motor Oil (C20-C38)		720		17	53

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	100		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **J-101**

Lab Sample ID: 280-48043-10

Client Matrix: Solid

% Moisture: 15.2

Date Sampled: 10/16/2013 1730

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/23/2013 0130			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	14		0.73	4.3
Motor Oil (C20-C38)	30		4.2	13

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **K-101**

Lab Sample ID: 280-48043-11

Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 10/16/2013 1745

Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Prep Method:	3546	Prep Batch:	280-196902	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/23/2013 0158			Injection Volume:	1 uL
Prep Date:	10/21/2013 1025			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		13		0.78	4.6
Motor Oil (C20-C38)		29		4.5	14

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	72		49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **L-101**

Lab Sample ID: 280-48043-12
Client Matrix: Water

Date Sampled: 10/16/2013 1726
Date Received: 10/17/2013 0959

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-197842	Instrument ID:	SGC_U
Prep Method:	3510C	Prep Batch:	280-197468	Initial Weight/Volume:	1053.8 mL
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	10/25/2013 2016			Injection Volume:	1 uL
Prep Date:	10/23/2013 2045			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]	ND		0.031	0.24
Motor Oil (C20-C38)	ND		0.053	0.47

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		50 - 115

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **A-101**

Lab Sample ID: 280-48043-1

Client Matrix: Solid

% Moisture: 10.7

Date Sampled: 10/16/2013 1450

Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	10/21/2013 2034			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.2		0.74	2.2
Barium		210		0.085	1.1
Cadmium		0.71		0.046	0.56
Chromium		17		0.065	1.7
Lead		100		0.30	0.90
Selenium		ND		0.96	1.5
Silver		1.3		0.18	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.69 g
Analysis Date:	10/29/2013 1531			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		220		5.4	17

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: B-101

Lab Sample ID: 280-48043-2
Client Matrix: Solid

% Moisture: 19.5

Date Sampled: 10/16/2013 1500
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	10/21/2013 2044			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.0		0.69	2.1
Barium		190		0.080	1.1
Cadmium		0.39	J	0.043	0.53
Chromium		21		0.061	1.6
Lead		41		0.28	0.84
Selenium		ND		0.91	1.4
Silver		0.92	J	0.17	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.66 g
Analysis Date:	10/29/2013 1542			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		140		6.2	19

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **C-101**

Lab Sample ID: 280-48043-3

Client Matrix: Solid

% Moisture: 18.8

Date Sampled: 10/16/2013 1515

Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	10/21/2013 2046			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.9		0.73	2.2
Barium		160		0.084	1.1
Cadmium		1.5		0.045	0.55
Chromium		23		0.064	1.6
Lead		92		0.30	0.88
Selenium		ND		0.95	1.4
Silver		0.52	J	0.18	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.69 g
Analysis Date:	10/29/2013 1544			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		49		5.9	18

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: D-101

Lab Sample ID: 280-48043-4

Client Matrix: Solid

% Moisture: 14.3

Date Sampled: 10/16/2013 1530

Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	10/21/2013 2048			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		5.0		0.72	2.2
Barium		210		0.083	1.1
Cadmium		0.39	J	0.045	0.55
Chromium		14		0.063	1.6
Lead		26		0.29	0.87
Selenium		ND		0.94	1.4
Silver		ND		0.17	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.70 g
Analysis Date:	10/29/2013 1547			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		86		5.5	17

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: E-101

Lab Sample ID: 280-48043-5
Client Matrix: Solid
% Moisture: 18.4

Date Sampled: 10/16/2013 1600
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	10/21/2013 2100			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.6		0.69	2.1
Barium		150		0.079	1.0
Cadmium		0.42	J	0.043	0.52
Chromium		15		0.060	1.6
Lead		42		0.28	0.83
Selenium		ND		0.89	1.4
Silver		0.32	J	0.17	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.60 g
Analysis Date:	10/29/2013 1549			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		700		6.8	21

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **F-101**

Lab Sample ID: 280-48043-6
Client Matrix: Solid
% Moisture: 15.2

Date Sampled: 10/16/2013 1615
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	10/21/2013 2102			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.6		0.74	2.2
Barium		200		0.085	1.1
Cadmium		0.34	J	0.046	0.56
Chromium		14		0.065	1.7
Lead		19		0.30	0.90
Selenium		ND		0.97	1.5
Silver		ND		0.18	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.63 g
Analysis Date:	10/29/2013 1551			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		39		6.2	19

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **G-101**

Lab Sample ID: 280-48043-7

Client Matrix: Solid

% Moisture: 15.6

Date Sampled: 10/16/2013 1630

Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	10/21/2013 2104			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.2		0.69	2.1
Barium		180		0.080	1.0
Cadmium		0.24	J	0.043	0.52
Chromium		10		0.061	1.6
Lead		26		0.28	0.84
Selenium		ND		0.90	1.4
Silver		ND		0.17	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.70 g
Analysis Date:	10/29/2013 1554			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		71		5.6	17

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: H-101

Lab Sample ID: 280-48043-8
Client Matrix: Solid
% Moisture: 13.9

Date Sampled: 10/16/2013 1645
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	10/21/2013 2107			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.5		0.71	2.1
Barium		160		0.082	1.1
Cadmium		0.36	J	0.044	0.54
Chromium		13		0.062	1.6
Lead		30		0.29	0.86
Selenium		ND		0.92	1.4
Silver		0.44	J	0.17	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.69 g
Analysis Date:	10/29/2013 1556			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		130		5.6	17

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **I-101**

Lab Sample ID: 280-48043-9
Client Matrix: Solid
% Moisture: 13.1

Date Sampled: 10/16/2013 1700
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	10/21/2013 2109			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.2		0.74	2.2
Barium		140		0.085	1.1
Cadmium		1.1		0.046	0.56
Chromium		17		0.065	1.7
Lead		260		0.30	0.89
Selenium		ND		0.96	1.5
Silver		0.71	J	0.18	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.72 g
Analysis Date:	10/29/2013 1558			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		210		5.3	16

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **J-101**

Lab Sample ID: 280-48043-10
Client Matrix: Solid
% Moisture: 15.2

Date Sampled: 10/16/2013 1730
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	10/21/2013 2111			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.9		0.65	2.0
Barium		120		0.075	0.99
Cadmium		0.17	J	0.041	0.50
Chromium		12		0.057	1.5
Lead		15		0.27	0.79
Selenium		ND		0.85	1.3
Silver		ND		0.16	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.67 g
Analysis Date:	10/29/2013 1601			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		53		5.8	18

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **K-101**

Lab Sample ID: 280-48043-11

Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 10/16/2013 1745

Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197098	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	10/21/2013 2114			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.9		0.68	2.1
Barium		110		0.078	1.0
Cadmium		0.14	J	0.042	0.51
Chromium		8.1		0.060	1.5
Lead		13		0.28	0.82
Selenium		ND		0.88	1.3
Silver		ND		0.16	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0			Initial Weight/Volume:	.57 g
Analysis Date:	10/29/2013 1603			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Mercury		65		6.7	21

Client: MECX LLC

Job Number: 280-48043-1

Client Sample ID: **L-101**

Lab Sample ID: 280-48043-12
Client Matrix: Water

Date Sampled: 10/16/2013 1726
Date Received: 10/17/2013 0959

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-197124	Instrument ID:	MT_026
Prep Method:	3010A	Prep Batch:	280-196748	Lab File ID:	26a03102113.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/21/2013 2342			Final Weight/Volume:	50 mL
Prep Date:	10/21/2013 1245				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		4.4	15
Barium	4.4	J B	0.58	10
Cadmium	ND		0.45	5.0
Chromium	ND		0.66	10
Lead	ND		2.6	9.0
Selenium	ND		4.9	15
Silver	ND		0.93	10

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-197376	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-196937	Lab File ID:	131022taa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/22/2013 1516			Final Weight/Volume:	30 mL
Prep Date:	10/22/2013 0930				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.027	0.20

General Chemistry

Client Sample ID: **A-101**

Lab Sample ID: 280-48043-1

Client Matrix: Solid

Date Sampled: 10/16/2013 1450

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

General Chemistry

Client Sample ID: **B-101**

Lab Sample ID: 280-48043-2

Client Matrix: Solid

Date Sampled: 10/16/2013 1500

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

General Chemistry

Client Sample ID: **C-101**

Lab Sample ID: 280-48043-3

Client Matrix: Solid

Date Sampled: 10/16/2013 1515

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

Client: MECX LLC

Job Number: 280-48043-1

General Chemistry

Client Sample ID: **D-101**

Lab Sample ID: 280-48043-4

Client Matrix: Solid

Date Sampled: 10/16/2013 1530

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

General Chemistry

Client Sample ID: **E-101**

Lab Sample ID: 280-48043-5

Client Matrix: Solid

Date Sampled: 10/16/2013 1600

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

Client: MECX LLC

Job Number: 280-48043-1

General Chemistry

Client Sample ID: **F-101**

Lab Sample ID: 280-48043-6

Client Matrix: Solid

Date Sampled: 10/16/2013 1615

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

General Chemistry

Client Sample ID: **G-101**

Lab Sample ID: 280-48043-7

Client Matrix: Solid

Date Sampled: 10/16/2013 1630

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

Client: MECX LLC

Job Number: 280-48043-1

General Chemistry

Client Sample ID: **H-101**

Lab Sample ID: 280-48043-8

Client Matrix: Solid

Date Sampled: 10/16/2013 1645

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

General Chemistry

Client Sample ID: **I-101**

Lab Sample ID: 280-48043-9

Client Matrix: Solid

Date Sampled: 10/16/2013 1700

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1309 DryWt Corrected: N

Client: MECX LLC

Job Number: 280-48043-1

General Chemistry

Client Sample ID: **J-101**

Lab Sample ID: 280-48043-10

Client Matrix: Solid

Date Sampled: 10/16/2013 1730

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1327 DryWt Corrected: N

General Chemistry

Client Sample ID: **K-101**

Lab Sample ID: 280-48043-11

Client Matrix: Solid

Date Sampled: 10/16/2013 1745

Date Received: 10/17/2013 0959

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture

Analysis Batch: 280-196689 Analysis Date: 10/18/2013 1327 DryWt Corrected: N

Client: MECX LLC

Job Number: 280-48043-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-48043-1	A-101	89
280-48043-2	B-101	90
280-48043-3	C-101	84
280-48043-4	D-101	84
280-48043-5	E-101	86
280-48043-6	F-101	83
280-48043-7	G-101	84
280-48043-8	H-101	86
280-48043-9	I-101	85
280-48043-10	J-101	78
280-48043-11	K-101	80
MB 280-197148/1-A		96
LCS 280-197148/2-A		101
LCSD 280-197148/3-A		104

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	77-123

Client: MECX LLC

Job Number: 280-48043-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-48043-12	L-101	103
MB 280-197425/5		96
LCS 280-197425/6		102
LCSD 280-197425/7		100

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	82-110

Client: MECX LLC

Job Number: 280-48043-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-48043-1	A-101	152X
280-48043-2	B-101	58
280-48043-3	C-101	106
280-48043-4	D-101	84
280-48043-5	E-101	56
280-48043-6	F-101	63
280-48043-7	G-101	73
280-48043-8	H-101	77
280-48043-9	I-101	100
280-48043-10	J-101	76
280-48043-11	K-101	72
MB 280-196902/1-A		79
LCS 280-196902/2-A		79

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Client: MECX LLC

Job Number: 280-48043-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-48043-12	L-101	82
MB 280-197468/1-A		80
LCS 280-197468/2-A		87
LCSD 280-197468/3-A		86

Surrogate	Acceptance Limits
OTPH = o-Terpheny!	50-115

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-197148

Method: 8015B
Preparation: 5030B

Lab Sample ID:	MB 280-197148/1-A	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-197148	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	10/22/2013 1225	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/22/2013 1015			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.33	1.2

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	96	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-197148

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-197148/2-A	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-197148	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	10/22/2013 1250	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/22/2013 1015			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-197148/3-A	Analysis Batch:	280-197150	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-197148	Lab File ID:	008F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	10/22/2013 1316	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/22/2013 1015			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C10	122	128	85 - 153	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	101	104	77 - 123

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-197148

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-197148/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 280-197148/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/22/2013 1250			Analysis Date:	10/22/2013 1316
Prep Date:	10/22/2013 1015			Prep Date:	10/22/2013 1015
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	5.50	5.50	6.72	7.03

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-197425

Method: 8015B
Preparation: 5030B

Lab Sample ID:	MB 280-197425/5	Analysis Batch:	280-197425	Instrument ID:	VGC_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 1610	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 1610			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		10	25

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	96	82 - 110

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-197425

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-197425/6	Analysis Batch:	280-197425	Instrument ID:	VGC_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 1634	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 1634			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-197425/7	Analysis Batch:	280-197425	Instrument ID:	VGC_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/23/2013 1659	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/23/2013 1659			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C10	106	107	79 - 149	1	27		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	102	100	82 - 110

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-197425

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-197425/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-197425/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/23/2013 1634			Analysis Date:	10/23/2013 1659
Prep Date:	10/23/2013 1634			Prep Date:	10/23/2013 1659
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	101	101	107	108

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-196902

Method: 8015B
Preparation: 3546

Lab Sample ID:	MB 280-196902/1-A	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-196902	Lab File ID:	10220006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.4 g
Analysis Date:	10/22/2013 1502	Units:	mg/Kg	Final Weight/Volume:	1000 uL
Prep Date:	10/21/2013 1025			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Diesel Range Organics [C10-C28]	ND		0.63	3.7
Motor Oil (C20-C38)	ND		3.6	11

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	79	49 - 115

Lab Control Sample - Batch: 280-196902

Method: 8015B
Preparation: 3546

Lab Sample ID:	LCS 280-196902/2-A	Analysis Batch:	280-197165	Instrument ID:	SGC_U
Client Matrix:	Solid	Prep Batch:	280-196902	Lab File ID:	10220007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	10/22/2013 1531	Units:	mg/Kg	Final Weight/Volume:	1000 uL
Prep Date:	10/21/2013 1025			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C28]	64.8	58.5	90	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	79	49 - 115

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-197468

Method: 8015B
Preparation: 3510C

Lab Sample ID:	MB 280-197468/1-A	Analysis Batch:	280-197842	Instrument ID:	SGC_U
Client Matrix:	Water	Prep Batch:	280-197468	Lab File ID:	10250006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/25/2013 1629	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	10/23/2013 2045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Diesel Range Organics [C10-C28]	ND		0.033	0.25
Motor Oil (C20-C38)	ND		0.056	0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	80	50 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-197468

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID:	LCS 280-197468/2-A	Analysis Batch:	280-197842	Instrument ID:	SGC_U
Client Matrix:	Water	Prep Batch:	280-197468	Lab File ID:	10250007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/25/2013 1658	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	10/23/2013 2045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-197468/3-A	Analysis Batch:	280-197842	Instrument ID:	SGC_U
Client Matrix:	Water	Prep Batch:	280-197468	Lab File ID:	10250008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/25/2013 1727	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	10/23/2013 2045			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	94	91	54 - 115	3	31		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	87	86	50 - 115

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-197468

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID:	LCS 280-197468/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-197468/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/25/2013 1658			Analysis Date:	10/25/2013 1727
Prep Date:	10/23/2013 2045			Prep Date:	10/23/2013 2045
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Diesel Range Organics [C10-C28]	2.00	2.00	1.89	1.83

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-196678

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-196678/1-A	Analysis Batch:	280-197098	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	10/21/2013 2030	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.66	2.0
Barium	ND		0.076	1.0
Cadmium	ND		0.041	0.50
Chromium	ND		0.058	1.5
Lead	ND		0.27	0.80
Selenium	ND		0.86	1.3
Silver	ND		0.16	1.0

Lab Control Sample - Batch: 280-196678

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-196678/2-A	Analysis Batch:	280-197098	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	10/21/2013 2032	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	109	109	85 - 110	
Barium	200	206	103	87 - 112	
Cadmium	10.0	10.7	107	87 - 110	
Chromium	20.0	20.5	102	84 - 114	
Lead	50.0	50.8	102	86 - 110	
Selenium	200	205	102	83 - 110	
Silver	5.00	5.11	102	87 - 114	

Client: MECX LLC

Job Number: 280-48043-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-196678

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	280-48043-1	Analysis Batch:	280-197098	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	10/21/2013 2039			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-48043-1	Analysis Batch:	280-197098	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	10/21/2013 2041			Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	97	87	76 - 111	8	20		
Barium	94	68	52 - 159	13	20		
Cadmium	94	84	40 - 130	7	20		
Chromium	104	82	70 - 200	11	20		
Lead	78	20	70 - 200	24	20		F
Selenium	89	80	76 - 104	6	20		
Silver	91	77	75 - 141	10	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-196678

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	280-48043-1	Units:	mg/Kg	MSD Lab Sample ID:	280-48043-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/21/2013 2039			Analysis Date:	10/21/2013 2041
Prep Date:	10/21/2013 1245			Prep Date:	10/21/2013 1245
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Arsenic	4.2	104	108	105	97.3	
Barium	210	207	215	400	352	
Cadmium	0.71	10.4	10.8	10.5	9.73	
Chromium	17	20.7	21.5	38.5	34.5	
Lead	100	51.9	53.8	141	111	F
Selenium	ND	207	215	184	173	
Silver	1.3	5.19	5.38	5.99	5.42	

Client: MECX LLC

Job Number: 280-48043-1

Serial Dilution - Batch: 280-196678

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-48043-1	Analysis Batch:	280-197098	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-196678	Lab File ID:	25A4102113.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	10/21/2013 2037	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	4.2	4.07	NC	10	J
Barium	210	229	11	10	V
Cadmium	0.71	0.750	NC	10	J
Chromium	17	19.3	14	10	V
Lead	100	119	18	10	V
Selenium	ND	ND	NC	10	
Silver	1.3	1.37	NC	10	J

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-196748

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 280-196748/1-A	Analysis Batch:	280-197124	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-196748	Lab File ID:	26a03102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/21/2013 2254	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		4.4	15
Barium	1.42	J	0.58	10
Cadmium	ND		0.45	5.0
Chromium	ND		0.66	10
Lead	2.99	J	2.6	9.0
Selenium	ND		4.9	15
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-196748

Method: 6010B
Preparation: 3010A

Lab Sample ID:	LCS 280-196748/2-A	Analysis Batch:	280-197124	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-196748	Lab File ID:	26a03102113.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/21/2013 2257	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/21/2013 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1080	108	88 - 110	
Barium	2000	2090	104	90 - 112	
Cadmium	100	99.1	99	88 - 111	
Chromium	200	195	97	90 - 113	
Lead	500	494	99	89 - 110	
Selenium	2000	2020	101	85 - 112	
Silver	50.0	51.4	103	86 - 115	

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-196937

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-196937/1-A	Analysis Batch:	280-197376	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-196937	Lab File ID:	131022taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/22/2013 1341	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	10/22/2013 0930				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.027	0.20

Lab Control Sample - Batch: 280-196937

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-196937/2-A	Analysis Batch:	280-197376	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-196937	Lab File ID:	131022taa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/22/2013 1343	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	10/22/2013 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.07	101	84 - 120	

Client: MECX LLC

Job Number: 280-48043-1

Method Blank - Batch: 280-198081

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-198081/1-A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	10/29/2013 1526	Units:	ug/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		5.5	17

Lab Control Sample - Batch: 280-198081

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-198081/2-A	Analysis Batch:	280-198345	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.6 g
Analysis Date:	10/29/2013 1528	Units:	ug/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	417	406	97	87 - 111	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-198081

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	280-48043-1	Analysis Batch:	280-198345	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.56 g
Analysis Date:	10/29/2013 1533			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				
Leach Date:	N/A				

MSD Lab Sample ID:	280-48043-1	Analysis Batch:	280-198345	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-198081	Lab File ID:	131029ac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.65 g
Analysis Date:	10/29/2013 1535			Final Weight/Volume:	50 mL
Prep Date:	10/29/2013 1010				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	88	83	87 - 111	13	20		F

Client: MECX LLC

Job Number: 280-48043-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-198081

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	280-48043-1	Units: ug/Kg	MSD Lab Sample ID:	280-48043-1
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	10/29/2013 1533		Analysis Date:	10/29/2013 1535
Prep Date:	10/29/2013 1010		Prep Date:	10/29/2013 1010
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Mercury	220	500	431	662	581	F

Client: MECX LLC

Job Number: 280-48043-1

Duplicate - Batch: 280-196689

Method: Moisture
Preparation: N/A

Lab Sample ID:	280-48043-9	Analysis Batch:	280-196689	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/18/2013 1327	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	13	12	10	20	

DATA REPORTING QUALIFIERS

Client: MECX LLC

Job Number: 280-48043-1

Lab Section	Qualifier	Description
GC VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	X	Surrogate is outside control limits
Metals		
	B	Compound was found in the blank and sample.
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	V	Serial Dilution exceeds the control limits

Client: MECX LLC

Job Number: 280-48043-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-197148					
LCS 280-197148/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-197148/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-197148/1-A	Method Blank	T	Solid	5030B	
280-48043-1	A-101	T	Solid	5030B	
280-48043-2	B-101	T	Solid	5030B	
280-48043-3	C-101	T	Solid	5030B	
280-48043-4	D-101	T	Solid	5030B	
280-48043-5	E-101	T	Solid	5030B	
280-48043-6	F-101	T	Solid	5030B	
280-48043-7	G-101	T	Solid	5030B	
280-48043-8	H-101	T	Solid	5030B	
280-48043-9	I-101	T	Solid	5030B	
280-48043-10	J-101	T	Solid	5030B	
280-48043-11	K-101	T	Solid	5030B	
Analysis Batch:280-197150					
LCS 280-197148/2-A	Lab Control Sample	T	Solid	8015B	280-197148
LCSD 280-197148/3-A	Lab Control Sample Duplicate	T	Solid	8015B	280-197148
MB 280-197148/1-A	Method Blank	T	Solid	8015B	280-197148
280-48043-1	A-101	T	Solid	8015B	280-197148
280-48043-2	B-101	T	Solid	8015B	280-197148
280-48043-3	C-101	T	Solid	8015B	280-197148
280-48043-4	D-101	T	Solid	8015B	280-197148
280-48043-5	E-101	T	Solid	8015B	280-197148
280-48043-6	F-101	T	Solid	8015B	280-197148
280-48043-7	G-101	T	Solid	8015B	280-197148
280-48043-8	H-101	T	Solid	8015B	280-197148
280-48043-9	I-101	T	Solid	8015B	280-197148
280-48043-10	J-101	T	Solid	8015B	280-197148
280-48043-11	K-101	T	Solid	8015B	280-197148
Analysis Batch:280-197425					
LCS 280-197425/6	Lab Control Sample	T	Water	8015B	
LCSD 280-197425/7	Lab Control Sample Duplicate	T	Water	8015B	
MB 280-197425/5	Method Blank	T	Water	8015B	
280-48043-12	L-101	T	Water	8015B	

Report Basis
T = Total

Client: MECX LLC

Job Number: 280-48043-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-196902					
LCS 280-196902/2-A	Lab Control Sample	T	Solid	3546	
MB 280-196902/1-A	Method Blank	T	Solid	3546	
280-48043-1	A-101	T	Solid	3546	
280-48043-2	B-101	T	Solid	3546	
280-48043-3	C-101	T	Solid	3546	
280-48043-4	D-101	T	Solid	3546	
280-48043-5	E-101	T	Solid	3546	
280-48043-6	F-101	T	Solid	3546	
280-48043-7	G-101	T	Solid	3546	
280-48043-8	H-101	T	Solid	3546	
280-48043-9	I-101	T	Solid	3546	
280-48043-10	J-101	T	Solid	3546	
280-48043-11	K-101	T	Solid	3546	
Analysis Batch:280-197165					
LCS 280-196902/2-A	Lab Control Sample	T	Solid	8015B	280-196902
MB 280-196902/1-A	Method Blank	T	Solid	8015B	280-196902
280-48043-1	A-101	T	Solid	8015B	280-196902
280-48043-2	B-101	T	Solid	8015B	280-196902
280-48043-3	C-101	T	Solid	8015B	280-196902
280-48043-4	D-101	T	Solid	8015B	280-196902
280-48043-5	E-101	T	Solid	8015B	280-196902
280-48043-6	F-101	T	Solid	8015B	280-196902
280-48043-7	G-101	T	Solid	8015B	280-196902
280-48043-8	H-101	T	Solid	8015B	280-196902
280-48043-9	I-101	T	Solid	8015B	280-196902
280-48043-10	J-101	T	Solid	8015B	280-196902
280-48043-11	K-101	T	Solid	8015B	280-196902
Prep Batch: 280-197468					
LCS 280-197468/2-A	Lab Control Sample	T	Water	3510C	
LCSD 280-197468/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 280-197468/1-A	Method Blank	T	Water	3510C	
280-48043-12	L-101	T	Water	3510C	
Analysis Batch:280-197842					
LCS 280-197468/2-A	Lab Control Sample	T	Water	8015B	280-197468
LCSD 280-197468/3-A	Lab Control Sample Duplicate	T	Water	8015B	280-197468
MB 280-197468/1-A	Method Blank	T	Water	8015B	280-197468
280-48043-12	L-101	T	Water	8015B	280-197468

Report Basis
T = Total

Client: MECX LLC

Job Number: 280-48043-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-196678					
LCS 280-196678/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-196678/1-A	Method Blank	T	Solid	3050B	
280-48043-1	A-101	T	Solid	3050B	
280-48043-1MS	Matrix Spike	T	Solid	3050B	
280-48043-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-48043-2	B-101	T	Solid	3050B	
280-48043-3	C-101	T	Solid	3050B	
280-48043-4	D-101	T	Solid	3050B	
280-48043-5	E-101	T	Solid	3050B	
280-48043-6	F-101	T	Solid	3050B	
280-48043-7	G-101	T	Solid	3050B	
280-48043-8	H-101	T	Solid	3050B	
280-48043-9	I-101	T	Solid	3050B	
280-48043-10	J-101	T	Solid	3050B	
280-48043-11	K-101	T	Solid	3050B	
Prep Batch: 280-196748					
LCS 280-196748/2-A	Lab Control Sample	T	Water	3010A	
MB 280-196748/1-A	Method Blank	T	Water	3010A	
280-48043-12	L-101	T	Water	3010A	
Prep Batch: 280-196937					
LCS 280-196937/2-A	Lab Control Sample	T	Water	7470A	
MB 280-196937/1-A	Method Blank	T	Water	7470A	
280-48043-12	L-101	T	Water	7470A	
Analysis Batch:280-197098					
LCS 280-196678/2-A	Lab Control Sample	T	Solid	6010B	280-196678
MB 280-196678/1-A	Method Blank	T	Solid	6010B	280-196678
280-48043-1	A-101	T	Solid	6010B	280-196678
280-48043-1MS	Matrix Spike	T	Solid	6010B	280-196678
280-48043-1MSD	Matrix Spike Duplicate	T	Solid	6010B	280-196678
280-48043-2	B-101	T	Solid	6010B	280-196678
280-48043-3	C-101	T	Solid	6010B	280-196678
280-48043-4	D-101	T	Solid	6010B	280-196678
280-48043-5	E-101	T	Solid	6010B	280-196678
280-48043-6	F-101	T	Solid	6010B	280-196678
280-48043-7	G-101	T	Solid	6010B	280-196678
280-48043-8	H-101	T	Solid	6010B	280-196678
280-48043-9	I-101	T	Solid	6010B	280-196678
280-48043-10	J-101	T	Solid	6010B	280-196678
280-48043-11	K-101	T	Solid	6010B	280-196678

Client: MECX LLC

Job Number: 280-48043-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-197124					
LCS 280-196748/2-A	Lab Control Sample	T	Water	6010B	280-196748
MB 280-196748/1-A	Method Blank	T	Water	6010B	280-196748
280-48043-12	L-101	T	Water	6010B	280-196748
Analysis Batch:280-197376					
LCS 280-196937/2-A	Lab Control Sample	T	Water	7470A	280-196937
MB 280-196937/1-A	Method Blank	T	Water	7470A	280-196937
280-48043-12	L-101	T	Water	7470A	280-196937
Prep Batch: 280-198081					
LCS 280-198081/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-198081/1-A	Method Blank	T	Solid	7471A	
280-48043-1	A-101	T	Solid	7471A	
280-48043-1MS	Matrix Spike	T	Solid	7471A	
280-48043-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
280-48043-2	B-101	T	Solid	7471A	
280-48043-3	C-101	T	Solid	7471A	
280-48043-4	D-101	T	Solid	7471A	
280-48043-5	E-101	T	Solid	7471A	
280-48043-6	F-101	T	Solid	7471A	
280-48043-7	G-101	T	Solid	7471A	
280-48043-8	H-101	T	Solid	7471A	
280-48043-9	I-101	T	Solid	7471A	
280-48043-10	J-101	T	Solid	7471A	
280-48043-11	K-101	T	Solid	7471A	
Analysis Batch:280-198345					
LCS 280-198081/2-A	Lab Control Sample	T	Solid	7471A	280-198081
MB 280-198081/1-A	Method Blank	T	Solid	7471A	280-198081
280-48043-1	A-101	T	Solid	7471A	280-198081
280-48043-1MS	Matrix Spike	T	Solid	7471A	280-198081
280-48043-1MSD	Matrix Spike Duplicate	T	Solid	7471A	280-198081
280-48043-2	B-101	T	Solid	7471A	280-198081
280-48043-3	C-101	T	Solid	7471A	280-198081
280-48043-4	D-101	T	Solid	7471A	280-198081
280-48043-5	E-101	T	Solid	7471A	280-198081
280-48043-6	F-101	T	Solid	7471A	280-198081
280-48043-7	G-101	T	Solid	7471A	280-198081
280-48043-8	H-101	T	Solid	7471A	280-198081
280-48043-9	I-101	T	Solid	7471A	280-198081
280-48043-10	J-101	T	Solid	7471A	280-198081
280-48043-11	K-101	T	Solid	7471A	280-198081

Client: MECX LLC

Job Number: 280-48043-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:280-196689					
280-48043-1	A-101	T	Solid	Moisture	
280-48043-2	B-101	T	Solid	Moisture	
280-48043-3	C-101	T	Solid	Moisture	
280-48043-4	D-101	T	Solid	Moisture	
280-48043-5	E-101	T	Solid	Moisture	
280-48043-6	F-101	T	Solid	Moisture	
280-48043-7	G-101	T	Solid	Moisture	
280-48043-8	H-101	T	Solid	Moisture	
280-48043-9	I-101	T	Solid	Moisture	
280-48043-9DU	Duplicate	T	Solid	Moisture	
280-48043-10	J-101	T	Solid	Moisture	
280-48043-11	K-101	T	Solid	Moisture	

Report Basis
T = Total

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: 280-48043-1 **Client ID:** A-101

Sample Date/Time: 10/16/2013 14:50 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-1-D		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-1-D		280-197150	280-197148	10/22/2013 17:04	1	TAL DEN	TEM
P:3546	280-48043-A-1-D		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-1-D		280-197165	280-196902	10/22/2013 20:17	1	TAL DEN	MRB
P:3050B	280-48043-B-1-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-1-A		280-197098	280-196678	10/21/2013 20:34	1	TAL DEN	JKH
P:7471A	280-48043-A-1-H		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-1-H		280-198345	280-198081	10/29/2013 15:31	1	TAL DEN	JM
A:Moisture	280-48043-A-1		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-1 MS **Client ID:** A-101

Sample Date/Time: 10/16/2013 14:50 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-48043-B-1-B MS		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-1-B MS		280-197098	280-196678	10/21/2013 20:39	1	TAL DEN	JKH
P:7471A	280-48043-A-1-I MS		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-1-I MS		280-198345	280-198081	10/29/2013 15:33	1	TAL DEN	JM

Lab ID: 280-48043-1 MSD **Client ID:** A-101

Sample Date/Time: 10/16/2013 14:50 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-48043-B-1-C MSD		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-1-C MSD		280-197098	280-196678	10/21/2013 20:41	1	TAL DEN	JKH
P:7471A	280-48043-A-1-J MSD		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-1-J MSD		280-198345	280-198081	10/29/2013 15:35	1	TAL DEN	JM

Lab ID: 280-48043-1 SD **Client ID:** A-101

Sample Date/Time: 10/16/2013 14:50 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-48043-B-1-A SD ^5		280-197098	280-196678	10/21/2013 12:45	5	TAL DEN	WAW
A:6010B	280-48043-B-1-A SD ^5		280-197098	280-196678	10/21/2013 20:37	5	TAL DEN	JKH

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: 280-48043-2 **Client ID:** B-101

Sample Date/Time: 10/16/2013 15:00 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-2-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-2-B		280-197150	280-197148	10/22/2013 17:29	1	TAL DEN	TEM
P:3546	280-48043-A-2-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-2-B		280-197165	280-196902	10/22/2013 20:45	1	TAL DEN	MRB
P:3050B	280-48043-B-2-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-2-A		280-197098	280-196678	10/21/2013 20:44	1	TAL DEN	JKH
P:7471A	280-48043-A-2-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-2-D		280-198345	280-198081	10/29/2013 15:42	1	TAL DEN	JM
A:Moisture	280-48043-A-2		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-3 **Client ID:** C-101

Sample Date/Time: 10/16/2013 15:15 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-3-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-3-B		280-197150	280-197148	10/22/2013 18:19	1	TAL DEN	TEM
P:3546	280-48043-A-3-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-3-B		280-197165	280-196902	10/22/2013 21:14	1	TAL DEN	MRB
P:3050B	280-48043-B-3-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-3-A		280-197098	280-196678	10/21/2013 20:46	1	TAL DEN	JKH
P:7471A	280-48043-A-3-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-3-D		280-198345	280-198081	10/29/2013 15:44	1	TAL DEN	JM
A:Moisture	280-48043-A-3		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-4 **Client ID:** D-101

Sample Date/Time: 10/16/2013 15:30 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-A-4-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-A-4-B		280-197150	280-197148	10/22/2013 18:44	1	TAL DEN	TEM
P:3546	280-48043-B-4-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-B-4-B		280-197165	280-196902	10/22/2013 22:39	1	TAL DEN	MRB
P:3050B	280-48043-B-4-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-4-A		280-197098	280-196678	10/21/2013 20:48	1	TAL DEN	JKH
P:7471A	280-48043-A-4-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-4-D		280-198345	280-198081	10/29/2013 15:47	1	TAL DEN	JM
A:Moisture	280-48043-A-4		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: 280-48043-5 **Client ID:** E-101

Sample Date/Time: 10/16/2013 16:00 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-A-5-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-A-5-B		280-197150	280-197148	10/22/2013 19:09	1	TAL DEN	TEM
P:3546	280-48043-B-5-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-B-5-B		280-197165	280-196902	10/22/2013 23:08	1	TAL DEN	MRB
P:3050B	280-48043-B-5-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-5-A		280-197098	280-196678	10/21/2013 21:00	1	TAL DEN	JKH
P:7471A	280-48043-A-5-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-5-D		280-198345	280-198081	10/29/2013 15:49	1	TAL DEN	JM
A:Moisture	280-48043-A-5		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-6 **Client ID:** F-101

Sample Date/Time: 10/16/2013 16:15 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-6-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-6-B		280-197150	280-197148	10/22/2013 19:34	1	TAL DEN	TEM
P:3546	280-48043-A-6-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-6-B		280-197165	280-196902	10/22/2013 23:36	1	TAL DEN	MRB
P:3050B	280-48043-B-6-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-6-A		280-197098	280-196678	10/21/2013 21:02	1	TAL DEN	JKH
P:7471A	280-48043-A-6-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-6-D		280-198345	280-198081	10/29/2013 15:51	1	TAL DEN	JM
A:Moisture	280-48043-A-6		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-7 **Client ID:** G-101

Sample Date/Time: 10/16/2013 16:30 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-7-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-7-B		280-197150	280-197148	10/22/2013 19:59	1	TAL DEN	TEM
P:3546	280-48043-A-7-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-7-B		280-197165	280-196902	10/23/2013 00:05	1	TAL DEN	MRB
P:3050B	280-48043-B-7-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-7-A		280-197098	280-196678	10/21/2013 21:04	1	TAL DEN	JKH
P:7471A	280-48043-A-7-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-7-D		280-198345	280-198081	10/29/2013 15:54	1	TAL DEN	JM
A:Moisture	280-48043-A-7		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: 280-48043-8 **Client ID:** H-101

Sample Date/Time: 10/16/2013 16:45 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-8-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-8-B		280-197150	280-197148	10/22/2013 20:23	1	TAL DEN	TEM
P:3546	280-48043-A-8-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-8-B		280-197165	280-196902	10/23/2013 00:33	1	TAL DEN	MRB
P:3050B	280-48043-B-8-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-8-A		280-197098	280-196678	10/21/2013 21:07	1	TAL DEN	JKH
P:7471A	280-48043-A-8-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-8-D		280-198345	280-198081	10/29/2013 15:56	1	TAL DEN	JM
A:Moisture	280-48043-A-8		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-9 **Client ID:** I-101

Sample Date/Time: 10/16/2013 17:00 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-9-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-9-B		280-197150	280-197148	10/22/2013 20:48	1	TAL DEN	TEM
P:3546	280-48043-A-9-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-9-B		280-197165	280-196902	10/23/2013 01:01	1	TAL DEN	MRB
P:3050B	280-48043-B-9-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-9-A		280-197098	280-196678	10/21/2013 21:09	1	TAL DEN	JKH
P:7471A	280-48043-A-9-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-9-D		280-198345	280-198081	10/29/2013 15:58	1	TAL DEN	JM
A:Moisture	280-48043-A-9		280-196689		10/18/2013 13:09	1	TAL DEN	JM

Lab ID: 280-48043-9 DU **Client ID:** I-101

Sample Date/Time: 10/16/2013 17:00 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-48043-A-9 DU		280-196689		10/18/2013 13:27	1	TAL DEN	JM

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: 280-48043-10 **Client ID:** J-101

Sample Date/Time: 10/16/2013 17:30 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-10-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-10-B		280-197150	280-197148	10/22/2013 21:13	1	TAL DEN	TEM
P:3546	280-48043-A-10-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-10-B		280-197165	280-196902	10/23/2013 01:30	1	TAL DEN	MRB
P:3050B	280-48043-B-10-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-10-A		280-197098	280-196678	10/21/2013 21:11	1	TAL DEN	JKH
P:7471A	280-48043-A-10-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-10-D		280-198345	280-198081	10/29/2013 16:01	1	TAL DEN	JM
A:Moisture	280-48043-A-10		280-196689		10/18/2013 13:27	1	TAL DEN	JM

Lab ID: 280-48043-11 **Client ID:** K-101

Sample Date/Time: 10/16/2013 17:45 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-B-11-B		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	280-48043-B-11-B		280-197150	280-197148	10/22/2013 21:38	1	TAL DEN	TEM
P:3546	280-48043-A-11-B		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	280-48043-A-11-B		280-197165	280-196902	10/23/2013 01:58	1	TAL DEN	MRB
P:3050B	280-48043-B-11-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-B-11-A		280-197098	280-196678	10/21/2013 21:14	1	TAL DEN	JKH
P:7471A	280-48043-A-11-D		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	280-48043-A-11-D		280-198345	280-198081	10/29/2013 16:03	1	TAL DEN	JM
A:Moisture	280-48043-A-11		280-196689		10/18/2013 13:27	1	TAL DEN	JM

Lab ID: 280-48043-12 **Client ID:** L-101

Sample Date/Time: 10/16/2013 17:26 Received Date/Time: 10/17/2013 09:59

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-48043-D-12		280-197425		10/23/2013 17:24	1	TAL DEN	TEM
A:8015B	280-48043-D-12		280-197425		10/23/2013 17:24	1	TAL DEN	TEM
P:3510C	280-48043-A-12-A		280-197842	280-197468	10/23/2013 20:45	1	TAL DEN	RJM
A:8015B	280-48043-A-12-A		280-197842	280-197468	10/25/2013 20:16	1	TAL DEN	MRB
P:3010A	280-48043-C-12-A		280-197124	280-196748	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	280-48043-C-12-A		280-197124	280-196748	10/21/2013 23:42	1	TAL DEN	SJS
P:7470A	280-48043-C-12-B		280-197376	280-196937	10/22/2013 09:30	1	TAL DEN	CRR
A:7470A	280-48043-C-12-B		280-197376	280-196937	10/22/2013 15:16	1	TAL DEN	JM

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-197148/1-A		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	MB 280-197148/1-A		280-197150	280-197148	10/22/2013 12:25	1	TAL DEN	TEM
P:5030B	MB 280-197425/5		280-197425		10/23/2013 16:10	1	TAL DEN	TEM
A:8015B	MB 280-197425/5		280-197425		10/23/2013 16:10	1	TAL DEN	TEM
P:3546	MB 280-196902/1-A		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	MB 280-196902/1-A		280-197165	280-196902	10/22/2013 15:02	1	TAL DEN	MRB
P:3510C	MB 280-197468/1-A		280-197842	280-197468	10/23/2013 20:45	1	TAL DEN	RJM
A:8015B	MB 280-197468/1-A		280-197842	280-197468	10/25/2013 16:29	1	TAL DEN	MRB
P:3050B	MB 280-196678/1-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	MB 280-196678/1-A		280-197098	280-196678	10/21/2013 20:30	1	TAL DEN	JKH
P:3010A	MB 280-196748/1-A		280-197124	280-196748	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	MB 280-196748/1-A		280-197124	280-196748	10/21/2013 22:54	1	TAL DEN	SJS
P:7470A	MB 280-196937/1-A		280-197376	280-196937	10/22/2013 09:30	1	TAL DEN	CRR
A:7470A	MB 280-196937/1-A		280-197376	280-196937	10/22/2013 13:41	1	TAL DEN	JM
P:7471A	MB 280-198081/1-A		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	MB 280-198081/1-A		280-198345	280-198081	10/29/2013 15:26	1	TAL DEN	JM

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-197148/2-A		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	LCS 280-197148/2-A		280-197150	280-197148	10/22/2013 12:50	1	TAL DEN	TEM
P:5030B	LCS 280-197425/6		280-197425		10/23/2013 16:34	1	TAL DEN	TEM
A:8015B	LCS 280-197425/6		280-197425		10/23/2013 16:34	1	TAL DEN	TEM
P:3546	LCS 280-196902/2-A		280-197165	280-196902	10/21/2013 10:25	1	TAL DEN	BMS
A:8015B	LCS 280-196902/2-A		280-197165	280-196902	10/22/2013 15:31	1	TAL DEN	MRB
P:3510C	LCS 280-197468/2-A		280-197842	280-197468	10/23/2013 20:45	1	TAL DEN	RJM
A:8015B	LCS 280-197468/2-A		280-197842	280-197468	10/25/2013 16:58	1	TAL DEN	MRB
P:3050B	LCS 280-196678/2-A		280-197098	280-196678	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	LCS 280-196678/2-A		280-197098	280-196678	10/21/2013 20:32	1	TAL DEN	JKH
P:3010A	LCS 280-196748/2-A		280-197124	280-196748	10/21/2013 12:45	1	TAL DEN	WAW
A:6010B	LCS 280-196748/2-A		280-197124	280-196748	10/21/2013 22:57	1	TAL DEN	SJS
P:7470A	LCS 280-196937/2-A		280-197376	280-196937	10/22/2013 09:30	1	TAL DEN	CRR
A:7470A	LCS 280-196937/2-A		280-197376	280-196937	10/22/2013 13:43	1	TAL DEN	JM
P:7471A	LCS 280-198081/2-A		280-198345	280-198081	10/29/2013 10:10	1	TAL DEN	CRR
A:7471A	LCS 280-198081/2-A		280-198345	280-198081	10/29/2013 15:28	1	TAL DEN	JM

Client: MECX LLC

Job Number: 280-48043-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-197148/3-A		280-197150	280-197148	10/22/2013 10:15	1	TAL DEN	TEM
A:8015B	LCSD 280-197148/3-A		280-197150	280-197148	10/22/2013 13:16	1	TAL DEN	TEM
P:5030B	LCSD 280-197425/7		280-197425		10/23/2013 16:59	1	TAL DEN	TEM
A:8015B	LCSD 280-197425/7		280-197425		10/23/2013 16:59	1	TAL DEN	TEM
P:3510C	LCSD 280-197468/3-A		280-197842	280-197468	10/23/2013 20:45	1	TAL DEN	RJM
A:8015B	LCSD 280-197468/3-A		280-197842	280-197468	10/25/2013 17:27	1	TAL DEN	MRB

Lab References:
TAL DEN = TestAmerica Denver

Shipping and Receiving Documents

280-48043 Chain of Custody

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: MEC x	Project Manager: Elizabeth Wessling	Date: 10/16/2013	Chain of Custody Number: 175468
Address: 12269 E. Vassar	Telephone Number (Area Code)/Fax Number: 720.535.5502 / 303 881 6816	Lab Number	Page 1 of 2
City: Aurora; State: CO; Zip Code: 80014	Site Contact	Lab Contact: Lisa Uriell	
Project Name and Location (State): Denver VA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	DRO	ORO	metals (pick 8)	GRO	Special Instructions/ Conditions of Receipt
A-101	10/16/2013	14:50				X	X						X	X	X	X	
B-101		15:00				X	X						X	X	X	X	
C-101		15:[illegible]				X	X						X	X	X	X	
D-101		15:30				X	[illegible]						X	X	X	X	
E-101		16:00				X	X						X	X	X	X	
F-101		16:15				X	X						X	X	X	X	
G-101		16:30				X	X						X	X	X	X	
H-101		16:45				X	X						X	X	X	X	
I-101		17:00				X	X						X	X	X	X	
J-101		17:30				X	X						X	X	X	X	
K-101		17:45				X	X						X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Patti Mez	10/17/13	0959	1. Received By: Stephanie O'Toole	10/17/13	0959
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.9, 0.1, 1.8 IRI KL 10/17

Drinking Water? Yes ☐ No ☐

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: MEC^X	Project Manager: Elizabeth Wessling	Date: 10/16/2013	Chain of Custody Number: 175469
Address: 12269 E Vassar	Telephone Number (Area Code)/Fax Number: 720.535.5502 / 303 881 6816	Lab Number	Page 2 of 2
City: Aurora; State: Co; Zip Code: 80014	Site Contact	Lab Contact: Lisa Uriell	
Project Name and Location (State): Denver VA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): GRO	RCRA 8 mt	DRO/ORO									Special Instructions/ Conditions of Receipt
L-101	10/16/2013	1726		X							X				X											
L-101	1	1726		X						X						X										
L-101		1726		X													X									

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Paul Mar	10/17/13	0959	1. Received By: Nathaniel O'Torney	10/17/13	0959
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: MECX LLC

Job Number: 280-48043-.

Login Number: 48043
List Number: 1
Creator: Knauf, James R

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT 3 – Guidance Documents

Risk Management Guidance for Evaluating Arsenic Concentrations in Soil

Colorado Department of Public Health and Environment

Hazardous Materials and Waste Management Division
(303) 692-3300

Second Edition

June 2011

Regulatory Limitation

This guidance does not modify, replace, or pre-empt any existing statutory or regulatory requirements, enforcement actions, agreements, policies or other legal mechanisms that may govern actions within the Hazardous Materials and Waste Management Division's (the "Division's") various remedial programs. In the event of a conflict between this guidance and existing risk assessment guidance and other programmatic requirements, this guidance defers to the various legal and operating mechanisms of those remedial programs.

This guidance was developed with the Division's remedial programs in mind. Other State and Federal agencies are not obligated to use the process outlined herein, although the same analysis could apply to other sites undergoing investigation and cleanup where testing for arsenic is required and it may be present in sampled environmental media. Parties wanting to use this guidance at their site must seek approval to do so from the regulatory agency responsible for overseeing their remedial activities.

Purpose

The Division has prepared this guidance for the purpose of making preliminary determinations when screening data collected from sites that don't necessarily have a reason to believe arsenic contamination may be present, such as a routine Phase II investigation conducted prior to a property transaction. This guidance is simply meant to inform the regulated community of their responsibilities in managing arsenic risks: it is not regulation, nor does it constitute an enforceable standard that must be complied with.

Background

Arsenic is naturally occurring in some geologic environments in Colorado due to weathering and erosion of bedrock and soil, including highly mineralized areas that are mined for metal ores. It is present in more than 200 different minerals, the most common of which is called arsenopyrite. It may also be present in the environment due to a number of anthropogenic activities including: military operations and firing ranges; mining, especially sulfide ores; smelting copper, gold and lead ores; preservation of wood (CCA); chicken feed operations and associated manures (CAFO) due to arsenic-containing growth promoters; tanning and taxidermy operations; coal-burning emissions and ash-derived residues from power plants; and may be present in landfills and landfill-derived leachate. Arsenic may also be found due to the manufacture, use and disposal of: ammunition; fireworks; pigments (paint, paper, ceramics, etc.); older herbicides, insecticides, and pesticides (examples: monosodium methanearsonate (MSMA), disodium methanearsonate (DSMA) and lead-arsonate); electronics containing Gallium-Arsenide-Selenium (GAS) semi-conductors; lead acid battery plates; glass; and some pharmaceuticals. Other anthropogenic arsenic sources may likely exist. Arsenic contamination in soil is of public health concern due to its toxic effects as a carcinogen and a non-carcinogen. Making risk management decisions about arsenic can be difficult because natural occurring concentrations in soil often exceed carcinogenic risk based exposure values.

This guidance was prepared by the Division using a data set of background arsenic concentrations developed by the U.S. EPA Region 8. The data set includes over 2,700 samples from 44 counties in Colorado. The areas sampled included: native grasslands; agricultural areas; urban mixed land use; and mining. A summary of the data set is presented in the table below. The complete data set may be found on the U.S. EPA Region 8's website at http://www.epa.gov/region8/r8risk/hh_exposure.html .

Region 8 U.S. EPA 95% UCLM Background Soil Arsenic Concentrations in Colorado

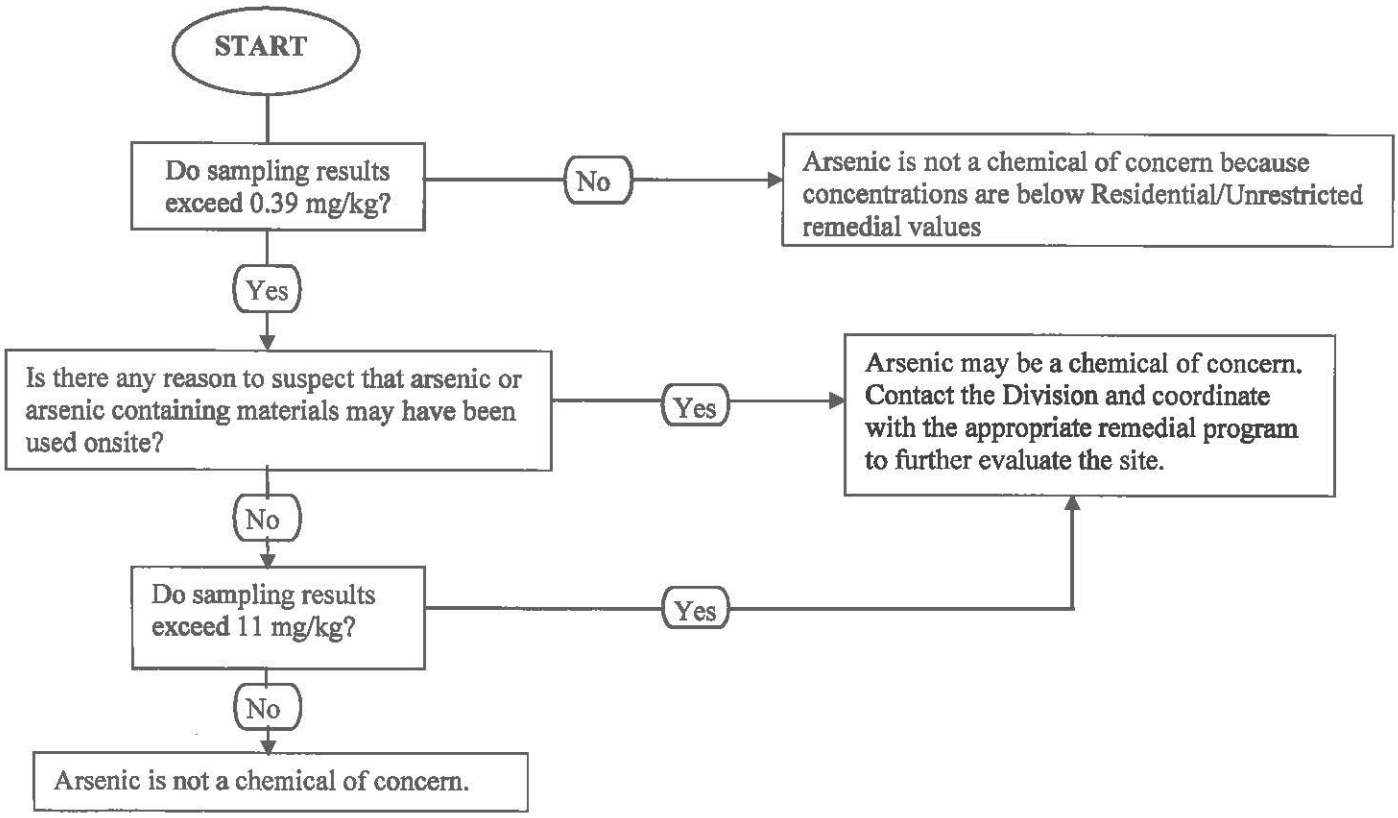
Land Use	Concentration (mg/kg)
Native Grassland, Rangeland, or Agriculture	3-14
Urban Mixed Use	19
Mining	10
Average of all land uses	11

Division Guidance Regarding Background Arsenic Concentration

The Division's approach to evaluating arsenic in soil is depicted in the following flowchart. This guidance assumes that, based upon the size, history and environmental concerns associated with a particular site, an adequate amount of arsenic data has been obtained to make a determination regarding arsenic concentrations in soil. It isn't meant to be a guide on how to conduct a background study for risk assessment and/or site closure purposes. Guidance on the

subject of data collection and analysis needs for conducting a background study should be sought from other published sources. Soil samples should be collected and analyzed for arsenic if the site history suggests it may be present as a result of anthropogenic activities. However, since arsenic is one of the chemicals included as part of a standard "metals" analysis package from a laboratory, you may already have obtained arsenic data for your site.

The current residential/unrestricted land use remedial objective for arsenic is 0.39 mg/kg (i.e., Colorado Soil Evaluation Value, which can be found on the Division's website). If arsenic concentrations at your site are lower than 0.39 mg/kg, the Division will require no further action to address arsenic in soil. If arsenic concentrations are lower than 11 mg/kg (the average of the 95% UCLM of background concentrations found by the U.S. EPA in Colorado), and releases of arsenic could not have occurred at the site, based on historical data or process knowledge, the Division will require no further action to address arsenic in soil. If arsenic concentrations are greater than 0.39 mg/kg, and the available information suggests that a release of arsenic could have occurred at the site, the Division will require additional evaluation of the data and possibly additional sampling to determine whether corrective measures for arsenic are required. This evaluation may include a site specific background study with sampling from offsite locations, and/or additional sampling in areas of the site where activities that could have contributed to environmental contamination never occurred. Please consult with the Division prior to performing any background study. If it can be demonstrated that arsenic concentrations in soil are unrelated to site activities, the Division will require no further action regarding arsenic. It should be noted that material such as arsenic-bearing mine tailings or oil and gas drill cuttings, although derived from a naturally occurring source material, are not considered to be naturally occurring background once they have been generated through human activity. Therefore, mine tailings and drill cuttings may be subject to remediation if ecological or health-based concentrations are exceeded.



For more information please contact:

Colorado Department of Public Health and Environment
Hazardous Materials and Waste Management Division
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

Customer Technical Assistance Line:
(303) 692-3320
(888) 569-1831 ext. 3320 toll-free
E-mail: comments.hmwmd@state.co.us
Website: **www.colorado.gov/cdphe/hm**