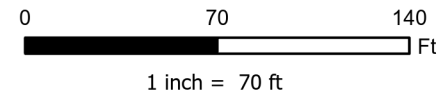




Legend

● Spill Origin ● Soil Sample Location ~ Spill Path ▨ Spill Area



Project No: 018-065

Map By: NDB

Date: 3/18/2020

Fee 137X Spill  
Chevron USA, Inc.  
Rio Blanco County, Colorado  
SE4 NE4 Section 19 T2S R102W  
SW4 NW4 Section 20 T2S R102W



330 Grand Avenue, Unit C  
Grand Junction, CO 81501  
970-549-1015

Figure

1

Table 1  
FEE 137X  
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Fee 137X Spill
Sample Type	Grab Soil

LABORATORY DATA SUMMARY														
Sample ID	FEE137X-SS1	FEE137X-SS1	FEE137X-SS2	FEE137X-SS2	FEE137X-SS2	FEE137X-SS2	FEE137X-SS3	FEE137X-SS3	FEE137X-SS4	FEE137X-SS4	FEE137X-BG1	FEE137X-BG2	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"		
Sample Date	4/2/2015	6/21/2018	4/2/2015	6/21/2018	8/7/2020	4/2/2015	6/21/2018	4/2/2015	6/21/2018	4/2/2015	4/2/2015			
Analytical Parameters														
TPH														
TPH Gasoline Range Organics	<2.8	NT	<2.8	NT	NT	<2.8	NT	<2.9	NT	NT	NT	NT	500	mg/kg
TPH Diesel Range Organics	180	NT	76	NT	NT	9.7	NT	9	NT	NT	NT	NT		
BTEX														
Benzene	<0.034	NT	<0.033	NT	NT	<0.033	NT	<0.035	NT	NT	NT	NT	0.17	mg/kg
Toluene	<0.034	NT	<0.033	NT	NT	<0.033	NT	<0.035	NT	NT	NT	NT	85	mg/kg
Ethylbenzene	<0.034	NT	<0.033	NT	NT	<0.033	NT	<0.035	NT	NT	NT	NT	100	mg/kg
Total Xylene	<0.100	NT	<0.100	NT	NT	<0.100	NT	<0.100	NT	NT	NT	NT	175	mg/kg
Metals														
Arsenic	7.8	NT	7.1	NT	NT	8.5	NT	9.7	NT	7.3	8.3	NT	0.39	mg/kg
Barium	550	NT	840	NT	NT	350	NT	230	NT	1600	NT	NT	15,000	mg/kg
Cadmium	<0.37	NT	<0.40	NT	NT	<0.44	NT	<0.42	NT	<0.39	NT	NT	70	mg/kg
Chromium	12	NT	12	NT	NT	13	NT	13	NT	12	NT	NT	NA	mg/kg
Copper	16	NT	16	NT	NT	18	NT	18	NT	16	NT	NT	3,100	mg/kg
Lead	20	NT	19	NT	NT	16	NT	18	NT	17	NT	NT	400	mg/kg
Mercury	0.085	NT	0.072	NT	NT	0.032	NT	0.038	NT	0.043	NT	NT	23	mg/kg
Nickel	21	NT	21	NT	NT	25	NT	23	NT	22	NT	NT	1,600	mg/kg
Selenium	1	NT	1.3	NT	NT	0.98	NT	1.2	NT	0.89	NT	NT	390	mg/kg
Silver	<0.37	NT	<0.40	NT	NT	<0.44	NT	<0.42	NT	<0.39	NT	NT	390	mg/kg
Zinc	80	NT	81	NT	NT	90	NT	85	NT	83	NT	NT	23,000	mg/kg
SAR Metals Analysis														
Calcium	630	370	950	2200	NT	1200	640	220	640	660	NT	NT	NA	mg/L
Magnesium	220	21	320	48	NT	86	21	42	24	26	NT	NT	NA	mg/L
Sodium	2600	33	4200	49	NT	5200	20	780	60	29	NT	NT	NA	mg/L
Sodium Adsorption Ratio	23	0.45	30	0.28	NT	38	0.21	12	0.64	0.3	NT	NT	<12	ratio
Polynuclear Aromatic Hydrocarbons														
Acenaphthene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	1,000	mg/kg
Anthracene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	1,000	mg/kg
Benzo(a)anthracene	0.0094	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	0.22	mg/kg
Benzo(a)pyrene	0.0092	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	0.02	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	2.2	mg/kg
Chrysene	0.03	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	0.022	mg/kg
Fluoranthene	0.031	NT	0.012	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	1,000	mg/kg
Fluorene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	0.013	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	0.22	mg/kg
Naphthalene	<0.0072	NT	<0.0073	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	23	mg/kg
Pyrene	0.031	NT	0.0098	NT	NT	<0.0074	NT	<0.0076	NT	NT	NT	NT	1,000	mg/kg
General Chemistry														
Chromium, Hexavalent	<1.1	NT	<1.1	NT	NT	<1.1	NT	<1.1	NT	<1.0	NT	NT	23	mg/kg
Chromium, Trivalent	12	NT	11	NT	NT	13	NT	13	NT	12	NT	NT	120,000	mg/kg
Specific Conductivity	20	2.5	31	10	0.63	37	3.8	6.4	NT	4.2	NT	NT	<4 or 2 x the background	mmhos/cm
pH	8.1	NT	7.9	NT	NT	7.9	NT	8.2	NT	7.8	NT	NT	6-9	su

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
mmhos/cm - millimhos per centimeter  
mv - millivolt  
su - standard units  
NA - not applicable  
NT - parameter was not tested

Over COGCC Table 910-1 concentration levels but under BACKGROUND level.  
Over COGCC Table 910-1 concentration levels and not within BACKGROUND level.  
Over COGCC Table 910-1 concentration levels





17-Apr-2015

Tim Dobransky  
Olsson Associates  
760 Horizon Drive  
Suite 102  
Grand Junction, CO 81506

Re: **Chevron Fee 137 X Spill 4.2.14**

Work Order: **1504276**

Dear Tim,

ALS Environmental received 6 samples on 04-Apr-2015 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

*Chad Whelton*

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager



Certificate No: MN 532786

### Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Work Order:** 1504276

## Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1504276-01	FEE 137 X - SS1	Soil		4/2/2015 11:20	4/4/2015 10:30	<input type="checkbox"/>
1504276-02	FEE 137 X - SS2	Soil		4/2/2015 11:25	4/4/2015 10:30	<input type="checkbox"/>
1504276-03	FEE 137 X - BG 1	Soil		4/2/2015 11:40	4/4/2015 10:30	<input type="checkbox"/>
1504276-04	FEE 137 X - SS3	Soil		4/2/2015 11:50	4/4/2015 10:30	<input type="checkbox"/>
1504276-05	FEE 137 X - SS4	Soil		4/2/2015 12:00	4/4/2015 10:30	<input type="checkbox"/>
1504276-06	FEE 137 X - BG2	Soil		4/2/2015 12:02	4/4/2015 10:30	<input type="checkbox"/>

---

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Work Order:** 1504276

---

**Case Narrative**

Batch 69440, Method ICP\_6010\_S, Sample 1504276-06A MS/MSD: The MS and/or MSD recoveries were outside of the control limits for Barium and Zinc; however, the results in the parent sample are greater than 4x the spike amount. No qualification is required.

Batch 69440, Method ICP\_6010\_S, Sample 1504276-06A MS/MSD: The MS and MSD recovery was above the upper control limit for Chromium. The corresponding result in the parent sample may be biased high.

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS1  
**Collection Date:** 4/2/2015 11:20 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep: SW3541 / 4/10/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>180</b>		<b>4.5</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/13/2015 04:49 PM
<i>Surr: 4-Terphenyl-d14</i>	66.8		39-133	%REC	1	4/13/2015 04:49 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015D</b>		Prep: SW5035 / 4/6/15	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.8</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 01:20 PM
<i>Surr: Toluene-d8</i>	99.0		50-150	%REC	1	4/6/2015 01:20 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 / 4/6/15	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.085</b>		<b>0.015</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 08:20 PM
<b>METALS ANALYSIS BY ICP</b>						
			<b>SW846 6010C</b>		Prep: SW3050B / 4/4/15	Analyst: <b>JEC</b>
<b>Arsenic</b>	<b>7.8</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Barium</b>	<b>550</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Cadmium</b>	<b>ND</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Chromium</b>	<b>12</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Copper</b>	<b>16</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Lead</b>	<b>20</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Nickel</b>	<b>21</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Selenium</b>	<b>1.0</b>		<b>0.74</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2015 04:27 PM
<b>Silver</b>	<b>ND</b>		<b>0.37</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/6/2015 04:43 PM
<b>Zinc</b>	<b>80</b>		<b>0.74</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2015 04:27 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>630</b>		<b>5.0</b>	<b>mg/Kg</b>	<b>10</b>	4/8/2015 10:44 AM
<b>Magnesium</b>	<b>220</b>		<b>2.0</b>	<b>mg/Kg</b>	<b>10</b>	4/8/2015 10:44 AM
<b>Sodium</b>	<b>2,600</b>		<b>2.0</b>	<b>mg/Kg</b>	<b>10</b>	4/8/2015 10:44 AM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>23</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	4/8/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 4/12/15	Analyst: <b>RM</b>
<b>Acenaphthene</b>	<b>ND</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Anthracene</b>	<b>ND</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Benzo(a)anthracene</b>	<b>9.4</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Benzo(a)pyrene</b>	<b>9.8</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Benzo(b)fluoranthene</b>	<b>20</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Chrysene</b>	<b>30</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM
<b>Fluoranthene</b>	<b>31</b>		<b>7.2</b>	<b>µg/Kg-dry</b>	<b>1</b>	4/13/2015 05:02 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS1  
**Collection Date:** 4/2/2015 11:20 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.2	µg/Kg-dry	1	4/13/2015 05:02 PM
Indeno(1,2,3-cd)pyrene	13		7.2	µg/Kg-dry	1	4/13/2015 05:02 PM
Naphthalene	ND		7.2	µg/Kg-dry	1	4/13/2015 05:02 PM
Pyrene	31		7.2	µg/Kg-dry	1	4/13/2015 05:02 PM
Surr: 2-Fluorobiphenyl	83.9		12-100	%REC	1	4/13/2015 05:02 PM
Surr: 4-Terphenyl-d14	88.0		25-137	%REC	1	4/13/2015 05:02 PM
Surr: Nitrobenzene-d5	75.4		37-107	%REC	1	4/13/2015 05:02 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 4/6/15	Analyst: <b>AK</b>	
Benzene	ND		34	µg/Kg-dry	1	4/14/2015 12:50 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	4/14/2015 12:50 PM
m,p-Xylene	ND		67	µg/Kg-dry	1	4/14/2015 12:50 PM
o-Xylene	ND		34	µg/Kg-dry	1	4/14/2015 12:50 PM
Toluene	ND		34	µg/Kg-dry	1	4/14/2015 12:50 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/14/2015 12:50 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	4/14/2015 12:50 PM
Surr: 4-Bromofluorobenzene	97.1		70-130	%REC	1	4/14/2015 12:50 PM
Surr: Dibromofluoromethane	102		70-130	%REC	1	4/14/2015 12:50 PM
Surr: Toluene-d8	95.1		70-130	%REC	1	4/14/2015 12:50 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 4/7/15	Analyst: <b>JB</b>	
Electrical Conductivity @ Saturation	20		0.050	mmhos/cm @2	10	4/8/2015 05:45 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>	Analyst: <b>JB</b>		
Chromium, Trivalent	12		0.56	mg/Kg-dry	1	4/11/2015 10:30 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 4/6/15	Analyst: <b>MB</b>	
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	4/7/2015 03:30 PM
<b>MOISTURE</b>			<b>E160.3M</b>	Analyst: <b>EVB</b>		
Moisture	11		0.050	% of sample	1	4/13/2015 06:30 PM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 4/4/15	Analyst: <b>JRF</b>	
pH	8.1			s.u.	1	4/4/2015 04:15 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS2  
**Collection Date:** 4/2/2015 11:25 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>76</b>		<b>SW8015M</b>		Prep: SW3541 / 4/10/15	Analyst: <b>IT</b>
<i>Surr: 4-Terphenyl-d14</i>	79.1		4.6	mg/Kg-dry	1	4/13/2015 05:19 PM
			39-133	%REC	1	4/13/2015 05:19 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015D</b>		Prep: SW5035 / 4/6/15	Analyst: <b>IT</b>
<i>Surr: Toluene-d8</i>	102		2.8	mg/Kg-dry	1	4/6/2015 01:44 PM
			50-150	%REC	1	4/6/2015 01:44 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.072</b>		<b>SW7471B</b>		Prep: SW7471 / 4/6/15	Analyst: <b>LR</b>
			0.015	mg/Kg-dry	1	4/6/2015 08:22 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>7.1</b>		<b>SW846 6010C</b>		Prep: SW3050B / 4/4/15	Analyst: <b>JEC</b>
<b>Barium</b>	<b>840</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Cadmium</b>	<b>ND</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Chromium</b>	<b>11</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Copper</b>	<b>16</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Lead</b>	<b>19</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Nickel</b>	<b>21</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Selenium</b>	<b>1.3</b>		0.79	mg/Kg-dry	1	4/7/2015 04:32 PM
<b>Silver</b>	<b>ND</b>		0.40	mg/Kg-dry	1	4/6/2015 04:49 PM
<b>Zinc</b>	<b>81</b>		0.79	mg/Kg-dry	1	4/7/2015 04:32 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>950</b>		5.0	mg/L	10	4/8/2015 11:08 AM
<b>Magnesium</b>	<b>320</b>		2.0	mg/L	10	4/8/2015 11:08 AM
<b>Sodium</b>	<b>4,200</b>		20	mg/L	100	4/8/2015 02:00 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>30</b>		0.010	none	1	4/8/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 4/12/15	Analyst: <b>RM</b>
<b>Acenaphthene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Anthracene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Benzo(a)anthracene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Benzo(a)pyrene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Benzo(b)fluoranthene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Benzo(k)fluoranthene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Chrysene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Dibenzo(a,h)anthracene</b>	<b>ND</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Fluoranthene</b>	<b>12</b>		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS2  
**Collection Date:** 4/2/2015 11:25 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
Naphthalene	ND		7.3	µg/Kg-dry	1	4/13/2015 05:22 PM
<b>Pyrene</b>	<b>9.8</b>		<b>7.3</b>	<b>µg/Kg-dry</b>	1	4/13/2015 05:22 PM
Surr: 2-Fluorobiphenyl	77.5		12-100	%REC	1	4/13/2015 05:22 PM
Surr: 4-Terphenyl-d14	98.1		25-137	%REC	1	4/13/2015 05:22 PM
Surr: Nitrobenzene-d5	68.3		37-107	%REC	1	4/13/2015 05:22 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 4/6/15	Analyst: <b>AK</b>	
Benzene	ND		33	µg/Kg-dry	1	4/14/2015 01:14 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	4/14/2015 01:14 AM
m,p-Xylene	ND		67	µg/Kg-dry	1	4/14/2015 01:14 AM
o-Xylene	ND		33	µg/Kg-dry	1	4/14/2015 01:14 AM
Toluene	ND		33	µg/Kg-dry	1	4/14/2015 01:14 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/14/2015 01:14 AM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	4/14/2015 01:14 AM
Surr: 4-Bromofluorobenzene	93.0		70-130	%REC	1	4/14/2015 01:14 AM
Surr: Dibromofluoromethane	99.2		70-130	%REC	1	4/14/2015 01:14 AM
Surr: Toluene-d8	94.0		70-130	%REC	1	4/14/2015 01:14 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 4/7/15	Analyst: <b>JB</b>	
Electrical Conductivity @ Saturation	31		0.050	mmhos/cm @2	10	4/8/2015 05:45 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>	Analyst: <b>JB</b>		
Chromium, Trivalent	11		0.56	mg/Kg-dry	1	4/8/2015 02:00 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 4/6/15	Analyst: <b>MB</b>	
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	4/7/2015 03:30 PM
<b>MOISTURE</b>			<b>E160.3M</b>	Analyst: <b>EVB</b>		
Moisture	10		0.050	% of sample	1	4/13/2015 06:30 PM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 4/4/15	Analyst: <b>JRF</b>	
pH	7.9			s.u.	1	4/4/2015 04:15 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - BG 1  
**Collection Date:** 4/2/2015 11:40 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
Mercury	0.043		SW7471B 0.014	mg/Kg-dry	Prep: SW7471 / 4/6/15 1	Analyst: LR 4/6/2015 08:24 PM
<b>METALS ANALYSIS BY ICP</b>						
Arsenic	7.3		SW846 6010C 0.39	mg/Kg-dry	Prep: SW3050B / 4/4/15 1	Analyst: JEC 4/6/2015 04:55 PM
Barium	1,600		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Cadmium	ND		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Chromium	12		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Copper	16		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Lead	17		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Nickel	22		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Selenium	0.89		0.78	mg/Kg-dry	1	4/8/2015 09:49 AM
Silver	ND		0.39	mg/Kg-dry	1	4/6/2015 04:55 PM
Zinc	83		0.78	mg/Kg-dry	1	4/7/2015 04:38 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
Calcium	660		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 4/7/15 10	Analyst: JEC 4/8/2015 11:14 AM
Magnesium	26		2.0	mg/L	10	4/8/2015 11:14 AM
Sodium	29		2.0	mg/L	10	4/8/2015 11:14 AM
<b>SODIUM ADSORPTION RATIO</b>						
Sodium Adsorption Ratio	0.30		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 4/7/15 1	Analyst: JEC 4/8/2015
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>						
Electrical Conductivity @ Saturation	4.2		USDA H60 METHO 0.050	mmhos/cm @2	Prep: USDA Method 20B / 4/7/15 10	Analyst: JB 4/8/2015 05:45 PM
<b>CHROMIUM, TRIVALENT</b>						
Chromium, Trivalent	12		CALCULATION 0.54	mg/Kg-dry	1	Analyst: JB 4/8/2015 02:00 PM
<b>CHROMIUM, HEXAVALENT</b>						
Chromium, Hexavalent	ND		SW7196A 1.0	mg/Kg-dry	Prep: SW3060A / 4/6/15 1	Analyst: MB 4/7/2015 03:30 PM
<b>MOISTURE</b>						
Moisture	7.8		E160.3M 0.050	% of sample	1	Analyst: EVB 4/13/2015 06:30 PM
<b>PH</b>						
pH	7.8		SW9045D	s.u.	Prep: EXTRACT / 4/4/15 1	Analyst: JRF 4/4/2015 04:15 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS3  
**Collection Date:** 4/2/2015 11:50 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep: SW3541 / 4/10/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>9.7</b>		<b>4.6</b>	<b>mg/Kg-dry</b>	1	4/13/2015 05:49 PM
Surr: 4-Terphenyl-d14	67.2		39-133	%REC	1	4/13/2015 05:49 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015D</b>		Prep: SW5035 / 4/6/15	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.8</b>	<b>mg/Kg-dry</b>	1	4/6/2015 02:09 PM
Surr: Toluene-d8	98.4		50-150	%REC	1	4/6/2015 02:09 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 / 4/6/15	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.032</b>		<b>0.014</b>	<b>mg/Kg-dry</b>	1	4/6/2015 08:34 PM
<b>METALS ANALYSIS BY ICP</b>						
			<b>SW846 6010C</b>		Prep: SW3050B / 4/4/15	Analyst: <b>JEC</b>
<b>Arsenic</b>	<b>8.5</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
<b>Barium</b>	<b>350</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
Cadmium	ND		0.44	mg/Kg-dry	1	4/6/2015 05:01 PM
<b>Chromium</b>	<b>13</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
<b>Copper</b>	<b>18</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
<b>Lead</b>	<b>16</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
<b>Nickel</b>	<b>25</b>		<b>0.44</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:01 PM
<b>Selenium</b>	<b>0.98</b>		<b>0.89</b>	<b>mg/Kg-dry</b>	1	4/7/2015 04:44 PM
Silver	ND		0.44	mg/Kg-dry	1	4/6/2015 05:01 PM
<b>Zinc</b>	<b>90</b>		<b>0.89</b>	<b>mg/Kg-dry</b>	1	4/7/2015 04:44 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>1,200</b>		<b>5.0</b>	<b>mg/L</b>	10	4/8/2015 11:19 AM
<b>Magnesium</b>	<b>86</b>		<b>2.0</b>	<b>mg/L</b>	10	4/8/2015 11:19 AM
<b>Sodium</b>	<b>5,200</b>		<b>20</b>	<b>mg/L</b>	100	4/8/2015 02:06 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>38</b>		<b>0.010</b>	<b>none</b>	1	4/8/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 4/12/15	Analyst: <b>RM</b>
Acenaphthene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Anthracene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Chrysene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Fluoranthene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS3  
**Collection Date:** 4/2/2015 11:50 AM

**Work Order:** 1504276  
**Lab ID:** 1504276-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Naphthalene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Pyrene	ND		7.4	µg/Kg-dry	1	4/13/2015 05:42 PM
Surr: 2-Fluorobiphenyl	78.0		12-100	%REC	1	4/13/2015 05:42 PM
Surr: 4-Terphenyl-d14	84.8		25-137	%REC	1	4/13/2015 05:42 PM
Surr: Nitrobenzene-d5	77.4		37-107	%REC	1	4/13/2015 05:42 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 4/6/15		Analyst: <b>AK</b>
Benzene	ND		33	µg/Kg-dry	1	4/14/2015 01:38 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	4/14/2015 01:38 AM
m,p-Xylene	ND		67	µg/Kg-dry	1	4/14/2015 01:38 AM
o-Xylene	ND		33	µg/Kg-dry	1	4/14/2015 01:38 AM
Toluene	ND		33	µg/Kg-dry	1	4/14/2015 01:38 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/14/2015 01:38 AM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	4/14/2015 01:38 AM
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	4/14/2015 01:38 AM
Surr: Dibromofluoromethane	100		70-130	%REC	1	4/14/2015 01:38 AM
Surr: Toluene-d8	93.4		70-130	%REC	1	4/14/2015 01:38 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 4/7/15		Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	37		0.050	mmhos/cm @2	10	4/8/2015 05:45 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JB</b>
Chromium, Trivalent	13		0.56	mg/Kg-dry	1	4/8/2015 02:00 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 4/6/15		Analyst: <b>MB</b>
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	4/7/2015 03:30 PM
<b>MOISTURE</b>			<b>E160.3M</b>			Analyst: <b>EVB</b>
Moisture	10		0.050	% of sample	1	4/13/2015 06:30 PM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 4/4/15		Analyst: <b>JRF</b>
pH	7.9			s.u.	1	4/4/2015 04:15 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS4  
**Collection Date:** 4/2/2015 12:00 PM

**Work Order:** 1504276  
**Lab ID:** 1504276-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015M</b>		Prep: SW3541 / 4/13/15	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>9.0</b>		<b>4.7</b>	<b>mg/Kg-dry</b>	1	4/14/2015 05:19 AM
Surr: 4-Terphenyl-d14	65.7		39-133	%REC	1	4/14/2015 05:19 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
			<b>SW8015D</b>		Prep: SW5035 / 4/6/15	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>2.9</b>	<b>mg/Kg-dry</b>	1	4/6/2015 02:34 PM
Surr: Toluene-d8	88.1		50-150	%REC	1	4/6/2015 02:34 PM
<b>MERCURY BY CVAA</b>						
			<b>SW7471B</b>		Prep: SW7471 / 4/6/15	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.038</b>		<b>0.015</b>	<b>mg/Kg-dry</b>	1	4/6/2015 08:36 PM
<b>METALS ANALYSIS BY ICP</b>						
			<b>SW846 6010C</b>		Prep: SW3050B / 4/4/15	Analyst: <b>JEC</b>
<b>Arsenic</b>	<b>9.7</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
<b>Barium</b>	<b>230</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
Cadmium	ND		0.42	mg/Kg-dry	1	4/6/2015 05:06 PM
<b>Chromium</b>	<b>13</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
<b>Copper</b>	<b>18</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
<b>Lead</b>	<b>18</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
<b>Nickel</b>	<b>23</b>		<b>0.42</b>	<b>mg/Kg-dry</b>	1	4/6/2015 05:06 PM
<b>Selenium</b>	<b>1.2</b>		<b>0.84</b>	<b>mg/Kg-dry</b>	1	4/8/2015 09:55 AM
Silver	ND		0.42	mg/Kg-dry	1	4/6/2015 05:06 PM
<b>Zinc</b>	<b>85</b>		<b>0.84</b>	<b>mg/Kg-dry</b>	1	4/7/2015 04:49 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>220</b>		<b>5.0</b>	<b>mg/L</b>	10	4/8/2015 11:31 AM
<b>Magnesium</b>	<b>42</b>		<b>2.0</b>	<b>mg/L</b>	10	4/8/2015 11:31 AM
<b>Sodium</b>	<b>780</b>		<b>2.0</b>	<b>mg/L</b>	10	4/8/2015 11:31 AM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 4/7/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>12</b>		<b>0.010</b>	<b>none</b>	1	4/8/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 4/12/15	Analyst: <b>RM</b>
Acenaphthene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Anthracene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Chrysene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



# ALS Group USA, Corp

Date: 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - SS4  
**Collection Date:** 4/2/2015 12:00 PM

**Work Order:** 1504276  
**Lab ID:** 1504276-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Pyrene	ND		7.6	µg/Kg-dry	1	4/13/2015 06:02 PM
Surr: 2-Fluorobiphenyl	66.6		12-100	%REC	1	4/13/2015 06:02 PM
Surr: 4-Terphenyl-d14	77.7		25-137	%REC	1	4/13/2015 06:02 PM
Surr: Nitrobenzene-d5	65.2		37-107	%REC	1	4/13/2015 06:02 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 4/6/15	Analyst: <b>AK</b>	
Benzene	ND		35	µg/Kg-dry	1	4/14/2015 02:02 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	4/14/2015 02:02 AM
m,p-Xylene	ND		70	µg/Kg-dry	1	4/14/2015 02:02 AM
o-Xylene	ND		35	µg/Kg-dry	1	4/14/2015 02:02 AM
Toluene	ND		35	µg/Kg-dry	1	4/14/2015 02:02 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	4/14/2015 02:02 AM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	4/14/2015 02:02 AM
Surr: 4-Bromofluorobenzene	97.3		70-130	%REC	1	4/14/2015 02:02 AM
Surr: Dibromofluoromethane	99.3		70-130	%REC	1	4/14/2015 02:02 AM
Surr: Toluene-d8	94.4		70-130	%REC	1	4/14/2015 02:02 AM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 4/7/15	Analyst: <b>JB</b>	
Electrical Conductivity @ Saturation	6.4		0.050	mmhos/cm @2	10	4/8/2015 05:45 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>	Analyst: <b>JB</b>		
Chromium, Trivalent	13		0.58	mg/Kg-dry	1	4/8/2015 02:00 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 4/6/15	Analyst: <b>MB</b>	
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	4/7/2015 03:30 PM
<b>MOISTURE</b>			<b>E160.3M</b>	Analyst: <b>EVB</b>		
Moisture	14		0.050	% of sample	1	4/13/2015 06:30 PM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 4/4/15	Analyst: <b>JRF</b>	
pH	8.2			s.u.	1	4/4/2015 04:15 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group USA, Corp****Date:** 17-Apr-15

**Client:** Olsson Associates  
**Project:** Chevron Fee 137 X Spill 4.2.14  
**Sample ID:** FEE 137 X - BG2  
**Collection Date:** 4/2/2015 12:02 PM

**Work Order:** 1504276  
**Lab ID:** 1504276-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS ANALYSIS BY ICP</b>						
Arsenic	8.3		<b>SW846 6010C</b> 0.38	mg/Kg-dry	Prep: SW3050B / 4/4/15 1	Analyst: <b>JEC</b> 4/6/2015 02:11 PM
<b>MOISTURE</b>						
Moisture	8.8		<b>E160.3M</b> 0.050	% of sample	1	Analyst: <b>EVB</b> 4/13/2015 06:30 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group USA, Corp

Date: 17-Apr-15

Client: Olsson Associates

Work Order: 1504276

Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: 69683

Instrument ID GC8

Method: SW8015M

<b>MBLK</b>		Sample ID: <b>DBLKS1-69683-69683</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/13/2015 10:49 AM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3223259</b>		Prep Date: <b>4/10/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.566	0	2	0	78.3	39-133	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-69683-69683</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/13/2015 11:19 AM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3223260</b>		Prep Date: <b>4/10/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	196.8	5.0	200	0	98.4	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.348	0	2	0	67.4	39-133	0			

<b>MS</b>		Sample ID: <b>1504382-08B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/13/2015 11:49 AM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3223261</b>		Prep Date: <b>4/10/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	295.4	8.1	322.8	0	91.5	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	2.073	0	3.228	0	64.2	39-133	0			

<b>MSD</b>		Sample ID: <b>1504382-08B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/13/2015 12:19 PM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3223262</b>		Prep Date: <b>4/10/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	292	8.1	322.8	0	90.4	48-110	295.4	1.16	30	
<i>Surr: 4-Terphenyl-d14</i>	2.095	0	3.228	0	64.9	39-133	2.073	1.08	30	

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-04B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69757** Instrument ID **GC8** Method: **SW8015M**

<b>MBLK</b>		Sample ID: <b>DBLKS1-69757-69757</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/13/2015 11:49 PM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3224178</b>		Prep Date: <b>4/13/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.672	0	2	0	83.6	39-133	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-69757-69757</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/14/2015 12:19 PM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3224186</b>		Prep Date: <b>4/13/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	190.9	5.0	200	0	95.5	61-109	0			
Surr: 4-Terphenyl-d14	1.368	0	2	0	68.4	39-133	0			

<b>MS</b>		Sample ID: <b>1504277-08B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/14/2015 12:49 PM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3224187</b>		Prep Date: <b>4/13/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	790	81	322.1	424	114	48-110	0			S
Surr: 4-Terphenyl-d14	2.744	0	3.221	0	85.2	39-133	0			

<b>MSD</b>		Sample ID: <b>1504277-08B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/14/2015 01:19 AM</b>		
Client ID:		Run ID: <b>GC8_150413A</b>				SeqNo: <b>3224179</b>		Prep Date: <b>4/13/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	722.6	81	323	424	92.4	48-110	790	8.91	30	
Surr: 4-Terphenyl-d14	2.733	0	3.23	0	84.6	39-133	2.744	0.416	30	

The following samples were analyzed in this batch:

1504276-05B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69455** Instrument ID **GC9** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-69455-69455</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/6/2015 12:55 PM</b>		
Client ID:		Run ID: <b>GC9_150406A</b>				SeqNo: <b>3213817</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	5404	0	5000	0	108	50-150	0			

<b>LCS</b>		Sample ID: <b>LCS-69455-69455</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/6/2015 12:30 PM</b>		
Client ID:		Run ID: <b>GC9_150406A</b>				SeqNo: <b>3213816</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	385800	2,500	500000	0	77.2	70-130	0			
Surr: Toluene-d8	5108	0	5000	0	102	50-150	0			

<b>MS</b>		Sample ID: <b>1504276-01A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/6/2015 08:20 PM</b>		
Client ID: <b>FEE 137 X - SS1</b>		Run ID: <b>GC9_150406A</b>				SeqNo: <b>3213843</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	451700	2,500	500000	0	90.3	70-130	0			
Surr: Toluene-d8	5736	0	5000	0	115	50-150	0			

<b>MSD</b>		Sample ID: <b>1504276-01A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/6/2015 08:45 PM</b>		
Client ID: <b>FEE 137 X - SS1</b>		Run ID: <b>GC9_150406A</b>				SeqNo: <b>3213844</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	447100	2,500	500000	0	89.4	70-130	451700	1.03	30	
Surr: Toluene-d8	5540	0	5000	0	111	50-150	5736	3.47	30	

The following samples were analyzed in this batch:

1504276-01A	1504276-02A	1504276-04A
1504276-05A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69468** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-69468-69468				Units: mg/Kg		Analysis Date: 4/6/2015 07:38 PM		
Client ID:		Run ID: HG1_150406A				SeqNo: 3213757		Prep Date: 4/6/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-69468-69468				Units: mg/Kg		Analysis Date: 4/6/2015 07:40 PM		
Client ID:		Run ID: HG1_150406A				SeqNo: 3213758		Prep Date: 4/6/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1883 0.020 0.1665 0 113 80-120 0

MS		Sample ID: 1504160-08AMS					Units: mg/Kg		Analysis Date: 4/6/2015 08:04 PM		
Client ID:			Run ID: HG1_150406A			SeqNo: 3213768		Prep Date: 4/6/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1521 0.014 0.1125 0.03129 107 75-125 0

MSD		Sample ID: 1504160-08AMSD				Units: mg/Kg		Analysis Date: 4/6/2015 08:06 PM		
Client ID:		Run ID: HG1_150406A				SeqNo: 3213769		Prep Date: 4/6/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1533 0.014 0.1135 0.03129 107 75-125 0.1521 0.794 35

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69440**      Instrument ID **ICP2**      Method: **SW846 6010C**

<b>MBLK</b>		Sample ID: <b>MBLK-69440-69440</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/6/2015 02:00 PM</b>		
Client ID:		Run ID: <b>ICP2_150406A</b>				SeqNo: <b>3212290</b>		Prep Date: <b>4/4/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01175	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

<b>LCS</b>		Sample ID: <b>LCS-69440-69440</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/6/2015 02:06 PM</b>		
Client ID:		Run ID: <b>ICP2_150406A</b>				SeqNo: <b>3212291</b>		Prep Date: <b>4/4/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.933	0.25	5	0	98.7	80-120	0			
Barium	4.774	0.25	5	0	95.5	80-120	0			
Cadmium	4.869	0.50	5	0	97.4	80-120	0			
Chromium	5.274	0.25	5	0	105	80-120	0			
Copper	5.051	0.50	5	0	101	80-120	0			
Lead	4.974	0.25	5	0	99.5	80-120	0			
Nickel	5.215	0.25	5	0	104	80-120	0			
Selenium	5.183	0.50	5	0	104	80-120	0			
Silver	5.321	0.25	5	0	106	80-120	0			
Zinc	5.047	0.50	5	0	101	80-120	0			

<b>MS</b>		Sample ID: <b>1504276-06AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/6/2015 02:16 PM</b>		
Client ID: <b>FEE 137 X - BG2</b>		Run ID: <b>ICP2_150406A</b>				SeqNo: <b>3212293</b>		Prep Date: <b>4/4/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.43	0.35	7.022	7.601	111	75-125	0			
Barium	170.2	0.35	7.022	164.7	77.7	75-125	0			O
Cadmium	7.287	0.70	7.022	0.06439	103	75-125	0			
Chromium	21.97	0.35	7.022	10.7	160	75-125	0			S
Copper	22.78	0.70	7.022	15.04	110	75-125	0			
Lead	22.47	0.35	7.022	15.39	101	75-125	0			
Nickel	27.53	0.35	7.022	20.06	106	75-125	0			
Selenium	8.535	0.70	7.022	1.147	105	75-125	0			
Silver	8.281	0.35	7.022	-0.09526	119	75-125	0			
Zinc	86.79	0.70	7.022	77.94	126	75-125	0			SO

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69440**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD				Sample ID: 1504276-06AMSD			Units: mg/Kg		Analysis Date: 4/6/2015 02:22 PM		
Client ID: FEE 137 X - BG2				Run ID: ICP2_150406A			SeqNo: 3212294		Prep Date: 4/4/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.59	0.35	7.013	7.601	114	75-125	15.43	1.03	20		
Barium	174	0.35	7.013	164.7	132	75-125	170.2	2.2	20	SO	
Cadmium	7.152	0.70	7.013	0.06439	101	75-125	7.287	1.86	20		
Chromium	21.78	0.35	7.013	10.7	158	75-125	21.97	0.862	20	S	
Copper	22.77	0.70	7.013	15.04	110	75-125	22.78	0.0723	20		
Lead	22.72	0.35	7.013	15.39	105	75-125	22.47	1.12	20		
Nickel	27.08	0.35	7.013	20.06	100	75-125	27.53	1.64	20		
Selenium	8.662	0.70	7.013	1.147	107	75-125	8.535	1.48	20		
Silver	8.487	0.35	7.013	-0.09526	122	75-125	8.281	2.46	20		
Zinc	89.8	0.70	7.013	77.94	169	75-125	86.79	3.42	20	SO	

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	1504276-06A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69465**      Instrument ID **ICP2**      Method: **SW846 6010C**

DUP				Sample ID: 1504276-04BDUP			Units: mg/L		Analysis Date: 4/8/2015 11:25 AM		
Client ID: FEE 137 X - SS3			Run ID: ICP2_150408A			SeqNo: 3216064		Prep Date: 4/7/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Calcium	1231	5.0	0	0	0	0-0	0	0			
Magnesium	89.49	2.0	0	0	0	0-0	0	0			

DUP				Sample ID: 1504276-04BDUP			Units: mg/L		Analysis Date: 4/8/2015 02:11 PM		
Client ID: FEE 137 X - SS3				Run ID: ICP2_150408A			SeqNo: 3217117		Prep Date: 4/7/2015		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sodium	5451	20	0	0	0	0-0	5172	5.24			

DUP				Sample ID: 1504276-04BDUP				Units: none			Analysis Date: 4/8/2015			
Client ID: FEE 137 X - SS3				Run ID: SAR_150408A				SeqNo: 3217924			Prep Date: 4/7/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Sodium Adsorption Ratio	40.43	0.010	0	0	0		38.3	5.4	50					

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69747** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-69747-69747</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/13/2015 11:12 AM</b>		
Client ID:		Run ID: <b>SVMS8_150413A</b>				SeqNo: <b>3224758</b>		Prep Date: <b>4/12/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1176	0	1667	0	70.5	12-100	0			
Surr: 4-Terphenyl-d14	1859	0	1667	0	112	25-137	0			
Surr: Nitrobenzene-d5	1168	0	1667	0	70.1	37-107	0			

LCS		Sample ID: <b>SLCSS1-69747-69747</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/13/2015 11:33 AM</b>		
Client ID:		Run ID: <b>SVMS8_150413A</b>				SeqNo: <b>3224760</b>		Prep Date: <b>4/12/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	469	6.7	666.7	0	70.3	45-110	0			
Anthracene	541.7	6.7	666.7	0	81.2	55-105	0			
Benzo(a)anthracene	575	6.7	666.7	0	86.2	50-110	0			
Benzo(a)pyrene	664	6.7	666.7	0	99.6	50-110	0			
Benzo(b)fluoranthene	677.3	6.7	666.7	0	102	45-115	0			
Benzo(k)fluoranthene	654	6.7	666.7	0	98.1	45-115	0			
Chrysene	584.3	6.7	666.7	0	87.6	55-110	0			
Dibenzo(a,h)anthracene	647	6.7	666.7	0	97	40-125	0			
Fluoranthene	553.3	6.7	666.7	0	83	55-115	0			
Fluorene	488.3	6.7	666.7	0	73.2	50-110	0			
Indeno(1,2,3-cd)pyrene	659.3	6.7	666.7	0	98.9	40-120	0			
Naphthalene	351.7	6.7	666.7	0	52.7	40-105	0			
Pyrene	604.7	6.7	666.7	0	90.7	45-125	0			
Surr: 2-Fluorobiphenyl	1051	0	1667	0	63	12-100	0			
Surr: 4-Terphenyl-d14	1695	0	1667	0	102	25-137	0			
Surr: Nitrobenzene-d5	1073	0	1667	0	64.4	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69747** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: <b>1504428-13A MS</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/13/2015 02:02 PM</b>	
Client ID:				Run ID: <b>SVMS8_150413A</b>			SeqNo: <b>3224761</b>		Prep Date: <b>4/12/2015</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	916.1	13	1278	0	71.7	45-110	0			
Anthracene	955	13	1278	0	74.7	55-105	0			
Benzo(a)anthracene	1039	13	1278	8.922	80.6	50-110	0			
Benzo(a)pyrene	1186	13	1278	9.913	92	50-110	0			
Benzo(b)fluoranthene	1168	13	1278	13.55	90.3	45-115	0			
Benzo(k)fluoranthene	1151	13	1278	5.287	89.7	45-115	0			
Chrysene	1017	13	1278	9.583	78.8	55-110	0			
Dibenzo(a,h)anthracene	1190	13	1278	0	93.1	40-125	0			
Fluoranthene	965.2	13	1278	11.9	74.6	55-115	0			
Fluorene	907.1	13	1278	0	71	50-110	0			
Indeno(1,2,3-cd)pyrene	1221	13	1278	6.609	95	40-120	0			
Naphthalene	770.4	13	1278	0	60.3	40-105	0			
Pyrene	1148	13	1278	13.22	88.8	45-125	0			
Surr: 2-Fluorobiphenyl	2260	0	3194	0	70.8	12-100	0			
Surr: 4-Terphenyl-d14	3199	0	3194	0	100	25-137	0			
Surr: Nitrobenzene-d5	2378	0	3194	0	74.4	37-107	0			

MSD				Sample ID: <b>1504428-13A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/13/2015 02:22 PM</b>	
Client ID:				Run ID: <b>SVMS8_150413A</b>			SeqNo: <b>3224763</b>		Prep Date: <b>4/12/2015</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	900.9	13	1313	0	68.6	45-110	916.1	1.67	30	
Anthracene	964.5	13	1313	0	73.4	55-105	955	0.991	30	
Benzo(a)anthracene	1049	13	1313	8.922	79.2	50-110	1039	1.01	30	
Benzo(a)pyrene	1188	13	1313	9.913	89.7	50-110	1186	0.181	30	
Benzo(b)fluoranthene	1192	13	1313	13.55	89.8	45-115	1168	2.09	30	
Benzo(k)fluoranthene	1192	13	1313	5.287	90.3	45-115	1151	3.46	30	
Chrysene	1061	13	1313	9.583	80.1	55-110	1017	4.24	30	
Dibenzo(a,h)anthracene	1185	13	1313	0	90.2	40-125	1190	0.472	30	
Fluoranthene	937.6	13	1313	11.9	70.5	55-115	965.2	2.9	30	
Fluorene	913.3	13	1313	0	69.5	50-110	907.1	0.683	30	
Indeno(1,2,3-cd)pyrene	1213	13	1313	6.609	91.9	40-120	1221	0.606	30	
Naphthalene	792.5	13	1313	0	60.3	40-105	770.4	2.83	30	
Pyrene	1227	13	1313	13.22	92.4	45-125	1148	6.62	30	
Surr: 2-Fluorobiphenyl	2349	0	3283	0	71.6	12-100	2260	3.87	40	
Surr: 4-Terphenyl-d14	3397	0	3283	0	103	25-137	3199	5.99	40	
Surr: Nitrobenzene-d5	2437	0	3283	0	74.2	37-107	2378	2.48	40	

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-04B
1504276-05B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69453**      Instrument ID **VMS6**      Method: **SW8260B**

MBLK				Sample ID: MBLK-69453-69453				Units: µg/Kg			Analysis Date: 4/6/2015 01:38 PM		
Client ID:			Run ID: VMS6_150406A				SeqNo: 3213306		Prep Date: 4/6/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	ND	30											
Ethylbenzene	ND	30											
m,p-Xylene	ND	60											
o-Xylene	ND	30											
Toluene	ND	30											
Xylenes, Total	ND	90											
Surr: 1,2-Dichloroethane-d4	987.5	0	1000	0	98.8	70-130		0					
Surr: 4-Bromofluorobenzene	985.5	0	1000	0	98.6	70-130		0					
Surr: Dibromofluoromethane	910.5	0	1000	0	91	70-130		0					
Surr: Toluene-d8	998	0	1000	0	99.8	70-130		0					

LCS				Sample ID: LCS-69453-69453				Units: µg/Kg			Analysis Date: 4/6/2015 12:20 PM		
Client ID:			Run ID: VMS6_150406A			SeqNo: 3213305		Prep Date: 4/6/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	933.5	30	1000	0	93.4	75-125	0						
Ethylbenzene	934	30	1000	0	93.4	75-125	0						
m,p-Xylene	1866	60	2000	0	93.3	80-125	0						
o-Xylene	913.5	30	1000	0	91.4	75-125	0						
Toluene	929	30	1000	0	92.9	70-125	0						
Xylenes, Total	2780	90	3000	0	92.6	75-125	0						
Surr: 1,2-Dichloroethane-d4	996	0	1000	0	99.6	70-130	0						
Surr: 4-Bromofluorobenzene	1004	0	1000	0	100	70-130	0						
Surr: Dibromofluoromethane	990.5	0	1000	0	99	70-130	0						
Surr: Toluene-d8	989	0	1000	0	98.9	70-130	0						

MS				Sample ID: 1504276-04A MS				Units: µg/Kg		Analysis Date: 4/14/2015 09:35 PM	
Client ID: FEE 137 X - SS3			Run ID: VMS8_150414A			SeqNo: 3226218		Prep Date: 4/6/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	875	30	1000	0	87.5	75-125		0			
Ethylbenzene	846.5	30	1000	0	84.6	75-125		0			
m,p-Xylene	1640	60	2000	0	82	80-125		0			
o-Xylene	807	30	1000	0	80.7	75-125		0			
Toluene	880	30	1000	0	88	70-125		0			
Xylenes, Total	2448	90	3000	0	81.6	75-125		0			
Surr: 1,2-Dichloroethane-d4	1008	0	1000	0	101	70-130		0			
Surr: 4-Bromofluorobenzene	1018	0	1000	0	102	70-130		0			
Surr: Dibromofluoromethane	974	0	1000	0	97.4	70-130		0			
Surr: Toluene-d8	967.5	0	1000	0	96.8	70-130		0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69453**      Instrument ID **VMS6**      Method: **SW8260B**

MSD				Sample ID: <b>1504276-04A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/14/2015 10:00 PM</b>	
Client ID: <b>FEE 137 X - SS3</b>				Run ID: <b>VMS8_150414A</b>			SeqNo: <b>3226223</b>		Prep Date: <b>4/6/2015</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	855.5	30	1000	0	85.6	75-125	875	2.25	30	
Ethylbenzene	799.5	30	1000	0	80	75-125	846.5	5.71	30	
m,p-Xylene	1604	60	2000	0	80.2	80-125	1640	2.22	30	
o-Xylene	797	30	1000	0	79.7	75-125	807	1.25	30	
Toluene	860	30	1000	0	86	70-125	880	2.3	30	
Xylenes, Total	2402	90	3000	0	80	75-125	2448	1.9	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1038</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>1008</i>	<i>2.98</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1002</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>1018</i>	<i>1.68</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>980</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>974</i>	<i>0.614</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>967</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.7</i>	<i>70-130</i>	<i>967.5</i>	<i>0.0517</i>	<i>30</i>	

The following samples were analyzed in this batch:

1504276-01A	1504276-02A	1504276-04A
1504276-05A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69441** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-69441-69441				Units: s.u.		Analysis Date: 4/4/2015 04:15 PM		
Client ID:		Run ID: WETCHEM_150404B			SeqNo: 3210470		Prep Date: 4/4/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.96	0	4	0	99	90-110	0			

DUP				Sample ID: 1504229-01A DUP				Units: s.u.			Analysis Date: 4/4/2015 04:15 PM			
Client ID:				Run ID: WETCHEM_150404B				SeqNo: 3210477			Prep Date: 4/4/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		6.91	0	0	0	0	0-0	6.89	0.29	20				

DUP				Sample ID: 1504277-08B DUP				Units: s.u.			Analysis Date: 4/4/2015 04:15 PM			
Client ID:				Run ID: WETCHEM_150404B				SeqNo: 3210492			Prep Date: 4/4/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	8.18	0	0	0	0	0-0	8.21	0.366	20					

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 1504276  
**Project:** Chevron Fee 137 X Spill 4.2.14

## QC BATCH REPORT

Batch ID: **69465** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>1504276-04B DUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>4/8/2015 05:45 PM</b>		
Client ID: <b>FEE 137 X - SS3</b>			Run ID: <b>WETCHEM_150408R</b>			SeqNo: <b>3216935</b>		Prep Date: <b>4/7/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	37.7	0.050	0	0	0		37.2	1.34	50	

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

# QC BATCH REPORT

Batch ID: **69551** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-69551-69551</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2015 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150407K</b>		SeqNo: <b>3214737</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

<b>LCS</b>		Sample ID: <b>LCS-69551-69551</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2015 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150407K</b>		SeqNo: <b>3214736</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.65 1.0 5 0 93 80-120 0

<b>MS</b>		Sample ID: <b>1504277-04B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2015 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150407K</b>		SeqNo: <b>3214729</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.347 0.99 4.95 0.12 85.4 75-125 0

<b>MS</b>		Sample ID: <b>1504277-04B MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2015 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150407K</b>		SeqNo: <b>3214731</b>		Prep Date: <b>4/6/2015</b>		DF: <b>100</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2005 100 2124 0.12 94.4 75-125 0

<b>MSD</b>		Sample ID: <b>1504277-04B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2015 03:30 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150407K</b>		SeqNo: <b>3214730</b>		Prep Date: <b>4/6/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.39 1.0 5 0.12 85.4 75-125 4.347 0.995 20

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 1504276  
 Project: Chevron Fee 137 X Spill 4.2.14

# QC BATCH REPORT

Batch ID: **R161268** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R161268					Units: % of sample		Analysis Date: 4/13/2015 06:30 PM		
Client ID:			Run ID: MOIST_150413D			SeqNo: 3224738		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: LCS-R161268				Units: % of sample		Analysis Date: 4/13/2015 06:30 PM		
Client ID:		Run ID: MOIST_150413D				SeqNo: 3224736		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP				Sample ID: 1504276-01B DUP				Units: % of sample			Analysis Date: 4/13/2015 06:30 PM			
Client ID: FEE 137 X - SS1				Run ID: MOIST_150413D				SeqNo: 3224701			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

Moisture 10.84 0.050 0 0 0 10.71 1.21 20

DUP		Sample ID: 1504513-01B DUP					Units: % of sample		Analysis Date: 4/13/2015 06:30 PM		
Client ID:			Run ID: MOIST_150413D			SeqNo: 3224717		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 16.79 0.050 0 0 0 17.07 1.65 20

The following samples were analyzed in this batch:

1504276-01B	1504276-02B	1504276-03A
1504276-04B	1504276-05B	1504276-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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 Nick Martinez  
 ALS Environmental  
 127 E. 1st Street

Origin ID: RILA

FedEx  
Express

J151215022303UN

PARACHUTE, CO 81635

Ship Date: 03APR15  
 ActWgt: 60.0 LB  
 CAD: 2264840/NET3610

Dims: 14 X 26 X 15 IN

Delivery Address Bar Code



Ref # 040315-1  
 Invoice #  
 PO # Parachute  
 Dept #

SHIP TO: (616) 399-6070

BILL SENDER

sample receiving  
 ALS Laboratory Group  
 3352 128TH AVE

HOLLAND, MI 49424

1 of 3

SATURDAY 12:00P  
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TRK# 7732 9271 8572

0281

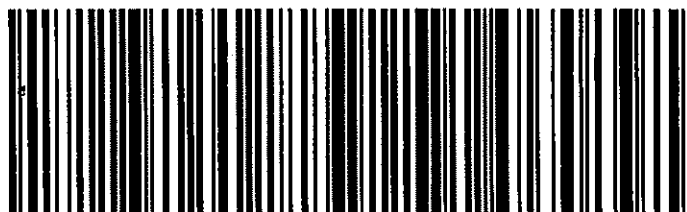
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Time 1700

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Name

Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **04-Apr-15 10:30**

Work Order: **1504276**

Received by: **KRW**

Checklist completed by Keith Wurenga  
eSignature

04-Apr-15  
Date

Reviewed by: Chad Whelton  
eSignature

06-Apr-15  
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>4/4/2015 11:30:29 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:





02-Jul-2018

Tim Dobransky  
Olsson Associates  
760 Horizon Drive  
Suite 102  
Grand Junction, CO 81506

Re: **FEE 137X Spill Resampling**

Work Order: **18061622**

Dear Tim,

ALS Environmental received 4 samples on 23-Jun-2018 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: MN 998501

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**Work Order:** 18061622

## Work Order Sample Summary

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
18061622-01	FEE137X-SS1	Soil		6/21/2018 13:25	6/23/2018 10:30	<input type="checkbox"/>
18061622-02	FEE137X-SS2	Soil		6/21/2018 13:30	6/23/2018 10:30	<input type="checkbox"/>
18061622-03	FEE137X-SS3	Soil		6/21/2018 13:40	6/23/2018 10:30	<input type="checkbox"/>
18061622-04	FEE137X-SS4	Soil		6/21/2018 13:40	6/23/2018 10:30	<input type="checkbox"/>

**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**WorkOrder:** 18061622

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

**ALS Group, USA****Date:** 02-Jul-18

**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**Sample ID:** FEE137X-SS1  
**Collection Date:** 6/21/2018 01:25 PM

**Work Order:** 18061622  
**Lab ID:** 18061622-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
<b>SOLUBLE CATIONS FOR SAR</b>			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Calcium	370		0.86	5.0	mg/L	10	6/29/2018 14:14
Magnesium	21		0.068	2.0	mg/L	10	6/29/2018 14:14
Sodium	33		0.34	2.0	mg/L	10	6/29/2018 14:14
<b>SODIUM ADSORPTION RATIO</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Sodium Adsorption Ratio	0.45		0.010	0.010	none	1	6/29/2018
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>ED</b>
Electrical Conductivity @ Saturation	2.5		0.011	0.10	mmhos/cm @25°	20	6/29/2018 16:30

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA****Date:** 02-Jul-18

**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**Sample ID:** FEE137X-SS2  
**Collection Date:** 6/21/2018 01:30 PM

**Work Order:** 18061622  
**Lab ID:** 18061622-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
<b>SOLUBLE CATIONS FOR SAR</b>			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Calcium	2,200		8.6	50	mg/L	100	6/29/2018 16:13
Magnesium	48		0.068	2.0	mg/L	10	6/29/2018 14:16
Sodium	49		0.34	2.0	mg/L	10	6/29/2018 14:16
<b>SODIUM ADSORPTION RATIO</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Sodium Adsorption Ratio	0.28		0.010	0.010	none	1	6/29/2018
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>ED</b>
Electrical Conductivity @ Saturation	10		0.011	0.10	mmhos/cm @25°	20	6/29/2018 16:30

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA****Date:** 02-Jul-18

**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**Sample ID:** FEE137X-SS3  
**Collection Date:** 6/21/2018 01:40 PM

**Work Order:** 18061622  
**Lab ID:** 18061622-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
<b>SOLUBLE CATIONS FOR SAR</b>			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Calcium	640		0.86	5.0	mg/L	10	6/29/2018 14:18
Magnesium	21		0.068	2.0	mg/L	10	6/29/2018 14:18
Sodium	20		0.34	2.0	mg/L	10	6/29/2018 14:18
<b>SODIUM ADSORPTION RATIO</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Sodium Adsorption Ratio	0.21		0.010	0.010	none	1	6/29/2018
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>ED</b>
Electrical Conductivity @ Saturation	3.8		0.011	0.10	mmhos/cm @25°	20	6/29/2018 16:30

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA****Date:** 02-Jul-18

**Client:** Olsson Associates  
**Project:** FEE 137X Spill Resampling  
**Sample ID:** FEE137X-SS4  
**Collection Date:** 6/21/2018 01:40 PM

**Work Order:** 18061622  
**Lab ID:** 18061622-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
<b>SOLUBLE CATIONS FOR SAR</b>			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Calcium	640		0.86	5.0	mg/L	10	6/29/2018 14:19
Magnesium	24		0.068	2.0	mg/L	10	6/29/2018 14:19
Sodium	60		0.34	2.0	mg/L	10	6/29/2018 14:19
<hr/>							
<b>SODIUM ADSORPTION RATIO</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/29/18		Analyst: <b>RH</b>
Sodium Adsorption Ratio	0.64		0.010	0.010	none	1	6/29/2018

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Client: Olsson Associates

Work Order: 18061622

Project: FEE 137X Spill Resampling

## QC BATCH REPORT

Batch ID: 120632

Instrument ID ICPMS3

Method: SW6020A

<b>DUP</b>	Sample ID: 18061620-01ADUP					Units: mg/L	Analysis Date: 6/29/2018 01:45 PM			
Client ID:	Run ID: ICPMS3_180629A				SeqNo: 5120899	Prep Date: 6/29/2018		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	103.9	5.0	0	0	0	0-0	101.7	2.19		
Magnesium	12.05	2.0	0	0	0	0-0	11.04	8.71		
Sodium	28.72	2.0	0	0	0	0-0	28.04	2.41		

The following samples were analyzed in this batch:

18061622-01A	18061622-02A	18061622-03A
18061622-04A		

Batch ID: 120632

Instrument ID SAR

Method: USDA H60 Metho

<b>DUP</b>	Sample ID: 18061620-01ADUP					Units: none	Analysis Date: 6/29/2018			
Client ID:	Run ID: SAR_180629A				SeqNo: 5122643	Prep Date: 6/29/2018		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.711	0.010	0	0	0		0.7053	0.804	50	

The following samples were analyzed in this batch:

18061622-01A	18061622-02A	18061622-03A
18061622-04A		

Batch ID: 120632

Instrument ID Titrator 1

Method: USDA H60 Metho

<b>DUP</b>	Sample ID: 18061620-01ADUP					Units: mmhos/cm @25°	Analysis Date: 6/29/2018 04:30 PM			
Client ID:	Run ID: TITRATOR 1_180629F				SeqNo: 5121513	Prep Date: 6/29/2018		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.8006	0.10	0	0	0		0.7248	9.94	50	

The following samples were analyzed in this batch:

18061622-01A	18061622-02A	18061622-03A
18061622-04A		





# Chain of Custody Form

Page 1 of 1

COC ID: 123456

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☐ Holland, MI  
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☒ Houston, TX  
+1 281 530 5656

☐ Middletown, PA  
+1 717 944 5541

☐ Salt Lake City, UT  
+1 801 266 7700

☐ Spring City, PA  
+1 610 948 4903

☐ York, PA  
+1 717 505 5280

Customer Information		Project Information					Parameter/Method Request for Analysis												
Purchase Order		Project Name	FEE 137X Spill Resampling					A TPH (GRO & DRO)											
Work Order		Project Number	013.3287.400.400004					B BTEX											
Company Name	Olsson Associates	Bill To Company	Olsson Associates					C PAH (See Attached List) CO Table 910											
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky					D Electrical Conductivity											
Address	760 Horizon Drive, Ste. 102	Address	760 Horizon Drive, Ste. 102					E Sodium Adsorption Ratio											
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506					F pH											
Phone	970.263.7800	Phone	970.263.7800					G Metals (See Attached List) CO Table 910											
Fax	970.263.7456	Fax	970.263.7456					H Arsenic Only											
e-Mail Address	tdobransky@entradainc.com	e-Mail Address	dmack@olssonassociates.com					I											
								J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	FEE137X-SS1	06/21/18	1325	Soil	8	1				X	X								
	FEE137X-SS2	06/21/18	1330	Soil	8	1				X	X								
3	FEE137X-SS3	06/21/18	1340	Soil	8	1				X	X								
4	FEE137X-SS4	06/21/18	1345	Soil	8	1					X								
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx		Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: [Signature]		Date: 6/22/18	Time:	Received by: [Signature]		Notes: Chevron Pricing Applies - Per Bruce Schlatter	
Relinquished by: [Signature]		Date: 6-27-18	Time: 1830	Received by (Laboratory): [Signature]		Cooler Temp. 3.0°	
Logged by (Laboratory): [Signature]		Date: 6/25/18	Time: 1430	Checked by (Laboratory): [Signature]		QC Package: (Check Box Below)	
						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:	
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **23-Jun-18 10:30**

Work Order: **18061622**

Received by: **KRW**

Checklist completed by Keith Wurenga  
eSignature

25-Jun-18  
Date

Reviewed by: Tom Bramish  
eSignature

25-Jun-18  
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.0/3.0 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>6/25/2018 2:56:27 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



21-Aug-2020

Tim Dobransky  
Entrada Consulting Group  
240 Mesa Ave.  
Grand Junction, CO 81501

Re: **FEE 137X Spill Resampling**

Work Order: **20080805**

Dear Tim,

ALS Environmental received 1 sample on 11-Aug-2020 11:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 6.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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**Client:** Entrada Consulting Group  
**Project:** FEE 137X Spill Resampling  
**Work Order:** 20080805

## Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20080805-01	FEE137X-SS2	Soil		8/7/2020 08:05	8/11/2020 11:30	<input type="checkbox"/>

**Client:** Entrada Consulting Group  
**Project:** FEE 137X Spill Resampling  
**WorkOrder:** 20080805

## **QUALIFIERS, ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius

## ALS Group, USA

Date: 21-Aug-20

**Client:** Entrada Consulting Group  
**Project:** FEE 137X Spill Resampling  
**Sample ID:** FEE137X-SS2  
**Collection Date:** 8/7/2020 08:05 AM

**Work Order:** 20080805  
**Lab ID:** 20080805-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
				Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 8/21/20	Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	0.63		0.011	0.10	mmhos/cm @25°	20	8/21/2020 14:35

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



Environmental

# Chain of Custody Form

Page 1 of 1

COC ID: 123456

- ☐ Cincinnati, OH  
+1 513 733 5336
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- ☐ Fort Collins, CO  
+1 970 490 1511
- ☐ Holland, MI  
+1 616 399 6070
- ☐ Houston, TX  
+1 281 530 5656
- ☐ Middletown, PA  
+1 717 944 5541
- ☐ Salt Lake City, UT  
+1 801 266 7700
- ☐ Spring City, PA  
+1 610 948 4903
- ☐ York, PA  
+1 717 505 5280

Customer Information		Project Information					Parameter/Method Request for Analysis												
Purchase Order		Project Name	FEE 137X Spill Resampling					A TPH (GRO & DRO)											
Work Order		Project Number	018-065					B BTEX											
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group					C PAH (See Attached List) CO Table 910											
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky					D Electrical Conductivity											
Address	330 Grand Ave. STE C	Address						E Sodium Adsorption Ratio											
								F pH											
City/State/Zip	Grand Junction, CO 81501	City/State/Zip						G Metals (See Attached List) CO Table 910											
Phone	970.549.1015	Phone						H Arsenic Only											
Fax		Fax						I											
e-Mail Address	tdobransky@entradainc.com	e-Mail Address						J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	FEE137X-SS2	8/7/20	805	Soil	8	1				X									
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx		Required Turnaround Time: <input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:											
Relinquished by:		Date:	Time:	Received by:			Notes: Chevron Pricing Applies - Per Bruce Schlatter												
Relinquished by:		Date:	Time:	Received by (Laboratory):			QC Package: (Check Box Below)												
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):			Cooler Temp.												
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035							Other:												

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

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Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **11-Aug-20 11:30**

Work Order: **20080805**

Received by: **DS**

Checklist completed by **Diane Shaw**

11-Aug-20

Reviewed by: **Chad Whelton**

12-Aug-20

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): **3.6/3.6 c** **IR1**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **8/11/2020 4:03:17 PM**

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: