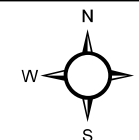
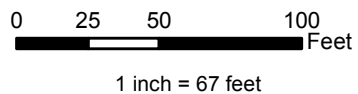




**Legend**

- Spill Origin
- Other Soil Sample Location
- Spill Area



PROJECT NO:	013-3287	AC MCLAUGHLIN 60X SPILL RESPONSE CHEVRON USA, INC RIO BLANCO COUNTY, COLORADO NWSE S14 T2N R103W		Entrada Consulting Group 240 Mesa Avenue Grand Junction, CO 81501 (970) 270-2986 <a href="http://www.entradainc.com">www.entradainc.com</a>	FIGURE
DRAWN BY:	SBS				1
DATE:	1/13/2016				

**Table 1**  
**AC McLaughlin 60X**  
**Soil Data Summary**

SAMPLE SUMMARY	
Location Description	Chevron AC McLaughlin 60X Spill
Sample Type	Soil

LABORATORY DATA SUMMARY					
Sample ID	ACM60X-SS1	ACM60X-SS1	ACM60X-BG1	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0"-6"	0"-6"	0"-6"		
Sample Date	8/25/2015	10/19/2017	8/25/2015		
Analytical Parameters					
TPH					
TPH Gasoline Range Organics	<2.6	NT	NT	500	mg/kg
TPH Diesel Range Organics	22	NT	NT		
BTEX					
Benzene	<0.031	NT	NT	0.17	mg/kg
Toluene	<0.031	NT	NT	85	mg/kg
Ethylbenzene	0.33	NT	NT	100	mg/kg
Total Xylene	<0.093	NT	NT	175	mg/kg
Metals					
Arsenic	7.1	NT	8.1	0.39	mg/kg
Barium	120	NT	110	15,000	mg/kg
Cadmium	<0.38	NT	<0.40	70	mg/kg
Chromium	13	NT	13	NA	mg/kg
Copper	15	NT	16	3,100	mg/kg
Lead	13	NT	14	400	mg/kg
Mercury	0.025	NT	0.03	23	mg/kg
Nickel	31	NT	32	1,600	mg/kg
Selenium	1.2	NT	<4.0	390	mg/kg
Silver	1.2	NT	<0.40	390	mg/kg
Zinc	54	NT	58	23,000	mg/kg
SAR Metals Analysis					
Calcium	740	NT	50	NA	mg/L
Magnesium	290	NT	11	NA	mg/L
Sodium	940	NT	21	NA	mg/L
Sodium Adsorption Ratio	7.4	NT	0.68	<12	ratio
Polynuclear Aromatic Hydrocarbons					
Acenaphthene	<0.0068	NT	NT	1,000	mg/kg
Anthracene	<0.0068	NT	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0068	NT	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0068	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0068	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0068	NT	NT	2.2	mg/kg
Chrysene	<0.0068	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0068	NT	NT	0.022	mg/kg
Fluoranthene	<0.0068	NT	NT	1,000	mg/kg
Fluorene	<0.0068	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0068	NT	NT	0.22	mg/kg
Napthalene	<0.0068	NT	NT	23	mg/kg
Pyrene	<0.0068	NT	NT	1,000	mg/kg
General Chemistry					
Chromium, Hexavalent	<0.98	NT	<1.0	23	mg/kg
Chromium, Trivalent	12	NT	12	120,000	mg/kg
Specific Conductivity	11.0	1.2	0.50	<4 or 2 x the background	mmhos/cm
pH	8.5	NT	8.5	6-9	su

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
mmhos/cm - millimhos per centimeter  
mv - millivolts  
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



07-Sep-2015

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

Re: **Chevron AC McLaughlin 60X Spill**

Work Order: **15081464**

Dear Tim,

ALS Environmental received 2 samples on 27-Aug-2015 09:00 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 25.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold  
Senior 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 The ALS logo, a stylized blue triangle with a yellow flame.

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

RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** Olsson Associates  
**Project:** Chevron AC McLaughlin 60X Spill  
**Work Order:** 15081464

**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>
15081464-01	ACM60X-SS1	Soil		8/25/2015 13:40	8/27/2015 09:00	<input type="checkbox"/>
15081464-02	ACM60X-BG1	Soil		8/25/2015 13:50	8/27/2015 09:00	<input type="checkbox"/>

---

**Client:** Olsson Associates  
**Project:** Chevron AC McLaughlin 60X Spill  
**Work Order:** 15081464

---

**Case Narrative**

BSamples for the above noted Work Order were received on 08/27/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

**Sample Receiving:**

No deviations or anomalies were noted.

**Volatile Organics:**

No deviations or anomalies were noted.

**Extractable Organics:**

No deviations or anomalies were noted.

**Metals:**

No deviations or anomalies were noted.

**Wet Chemistry:**

No deviations or anomalies were noted.

# ALS Group USA, Corp

Date: 07-Sep-15

Client: Olsson Associates

Project: Chevron AC McLaughlin 60X Spill

Work Order: 15081464

Sample ID: ACM60X-SS1

Lab ID: 15081464-01

Collection Date: 8/25/2015 01:40 PM

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>22</b>		<b>SW8015M</b>		Prep: SW3541 / 8/31/15	Analyst: <b>IT</b>
			<b>4.3</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/31/2015 07:12 PM
Surr: 4-Terphenyl-d14	69.1		39-133	%REC	1	8/31/2015 07:12 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>ND</b>		<b>SW8015D</b>		Prep: SW5035 / 8/28/15	Analyst: <b>IT</b>
			<b>2.6</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/29/2015 12:58 PM
Surr: Toluene-d8	103		50-150	%REC	1	8/29/2015 12:58 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.025</b>		<b>SW7471B</b>		Prep: SW7471 / 8/29/15	Analyst: <b>LR</b>
			<b>0.013</b>	<b>mg/Kg-dry</b>	<b>1</b>	8/31/2015 04:04 PM
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>7.1</b>		<b>SW846 6010C</b>		Prep: SW3050B / 8/28/15	Analyst: <b>JEC</b>
			<b>1.9</b>	<b>mg/Kg-dry</b>	<b>5</b>	9/3/2015 04:36 PM
<b>Barium</b>	<b>120</b>		<b>0.38</b>	<b>mg/L-dry</b>	<b>1</b>	9/1/2015 04:42 PM
Cadmium	ND		0.38	mg/L-dry	1	9/1/2015 04:42 PM
<b>Chromium</b>	<b>13</b>		<b>1.9</b>	<b>mg/Kg-dry</b>	<b>5</b>	9/3/2015 04:36 PM
<b>Copper</b>	<b>15</b>		<b>0.38</b>	<b>mg/L-dry</b>	<b>1</b>	9/1/2015 04:42 PM
<b>Lead</b>	<b>13</b>		<b>1.9</b>	<b>mg/Kg-dry</b>	<b>5</b>	9/3/2015 04:36 PM
<b>Nickel</b>	<b>31</b>		<b>0.38</b>	<b>mg/L-dry</b>	<b>1</b>	9/1/2015 04:42 PM
Selenium	ND		3.8	mg/Kg-dry	5	9/3/2015 04:36 PM
<b>Silver</b>	<b>1.2</b>		<b>0.38</b>	<b>mg/L-dry</b>	<b>1</b>	9/1/2015 04:42 PM
<b>Zinc</b>	<b>54</b>		<b>3.8</b>	<b>mg/Kg-dry</b>	<b>5</b>	9/3/2015 04:36 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
			<b>SW846 6010C</b>		Prep: USDA Method 20B / 8/28/15	Analyst: <b>JEC</b>
<b>Calcium</b>	<b>740</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	8/28/2015 08:03 PM
<b>Magnesium</b>	<b>290</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/28/2015 08:03 PM
<b>Sodium</b>	<b>940</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	8/28/2015 08:03 PM
<b>SODIUM ADSORPTION RATIO</b>						
			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 8/28/15	Analyst: <b>JEC</b>
<b>Sodium Adsorption Ratio</b>	<b>7.4</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	8/28/2015
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
			<b>SW846 8270D</b>		Prep: SW3541 / 9/3/15	Analyst: <b>RS</b>
Acenaphthene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Anthracene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Benzo(a)anthracene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Benzo(a)pyrene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Benzo(b)fluoranthene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Benzo(k)fluoranthene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Chrysene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Dibenzo(a,h)anthracene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Fluoranthene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM

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



# ALS Group USA, Corp

Date: 07-Sep-15

Client: Olsson Associates

Project: Chevron AC McLaughlin 60X Spill

Work Order: 15081464

Sample ID: ACM60X-SS1

Lab ID: 15081464-01

Collection Date: 8/25/2015 01:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Indeno(1,2,3-cd)pyrene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Naphthalene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Pyrene	ND		6.8	µg/Kg-dry	1	9/4/2015 02:55 PM
Surr: 2-Fluorobiphenyl	81.5		12-100	%REC	1	9/4/2015 02:55 PM
Surr: 4-Terphenyl-d14	85.6		25-137	%REC	1	9/4/2015 02:55 PM
Surr: Nitrobenzene-d5	81.1		37-107	%REC	1	9/4/2015 02:55 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>	Prep: SW5035 / 8/28/15	Analyst: <b>JNJ</b>	
Benzene	ND		31	µg/Kg-dry	1	8/28/2015 09:38 PM
<b>Ethylbenzene</b>	<b>330</b>		<b>31</b>	<b>µg/Kg-dry</b>	1	8/28/2015 09:38 PM
m,p-Xylene	ND		62	µg/Kg-dry	1	8/28/2015 09:38 PM
o-Xylene	ND		31	µg/Kg-dry	1	8/28/2015 09:38 PM
Toluene	ND		31	µg/Kg-dry	1	8/28/2015 09:38 PM
Xylenes, Total	ND		93	µg/Kg-dry	1	8/28/2015 09:38 PM
Surr: 1,2-Dichloroethane-d4	94.1		70-130	%REC	1	8/28/2015 09:38 PM
Surr: 4-Bromofluorobenzene	101		70-130	%REC	1	8/28/2015 09:38 PM
Surr: Dibromofluoromethane	90.8		70-130	%REC	1	8/28/2015 09:38 PM
Surr: Toluene-d8	99.0		70-130	%REC	1	8/28/2015 09:38 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>	Prep: USDA Method 20B / 8/28/15	Analyst: <b>JB</b>	
Electrical Conductivity @ Saturation	11		0.050	mmhos/cm @25	10	8/28/2015 04:50 PM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>	Analyst: <b>JB</b>		
Chromium, Trivalent	12		0.52	mg/Kg-dry	1	9/4/2015 04:00 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A / 8/31/15	Analyst: <b>MB</b>	
Chromium, Hexavalent	ND		0.98	mg/Kg-dry	1	9/2/2015 11:30 AM
<b>MOISTURE</b>			<b>E160.3M</b>	Analyst: <b>TM</b>		
Moisture	3.2		0.050	% of sample	1	9/2/2015 10:27 AM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT / 8/31/15	Analyst: <b>JB</b>	
pH	7.9			s.u.	1	8/31/2015 03:00 PM

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

# ALS Group USA, Corp

Date: 07-Sep-15

**Client:** Olsson Associates  
**Project:** Chevron AC McLaughlin 60X Spill  
**Sample ID:** ACM60X-BG1  
**Collection Date:** 8/25/2015 01:50 PM

**Work Order:** 15081464  
**Lab ID:** 15081464-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>						
Mercury	0.030		SW7471B 0.014	mg/Kg-dry	Prep: SW7471 / 8/29/15 1	Analyst: LR 8/31/2015 04:06 PM
<b>METALS ANALYSIS BY ICP</b>						
Arsenic	8.1		SW846 6010C 2.0	mg/Kg-dry	Prep: SW3050B / 8/28/15 5	Analyst: JEC 9/3/2015 04:41 PM
Barium	110		0.40	mg/L-dry	1	9/1/2015 04:47 PM
Cadmium	ND		0.40	mg/L-dry	1	9/1/2015 04:47 PM
Chromium	13		2.0	mg/Kg-dry	5	9/3/2015 04:41 PM
Copper	16		0.40	mg/L-dry	1	9/1/2015 04:47 PM
Lead	14		2.0	mg/Kg-dry	5	9/3/2015 04:41 PM
Nickel	32		0.40	mg/L-dry	1	9/1/2015 04:47 PM
Selenium	ND		4.0	mg/Kg-dry	5	9/3/2015 04:41 PM
Silver	ND		0.40	mg/L-dry	1	9/1/2015 04:47 PM
Zinc	58		4.0	mg/Kg-dry	5	9/3/2015 04:41 PM
<b>SOLUBLE CATIONS FOR SAR</b>						
Calcium	50		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 8/28/15 10	Analyst: JEC 8/28/2015 08:09 PM
Magnesium	11		2.0	mg/L	10	8/28/2015 08:09 PM
Sodium	21		2.0	mg/L	10	8/28/2015 08:09 PM
<b>SODIUM ADSORPTION RATIO</b>						
Sodium Adsorption Ratio	0.68		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 8/28/15 1	Analyst: JEC 8/28/2015
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>						
Electrical Conductivity @ Saturation	0.50		USDA H60 METHO 0.050	mmhos/cm @25	Prep: USDA Method 20B / 8/28/15 10	Analyst: JB 8/28/2015 04:50 PM
<b>CHROMIUM, TRIVALENT</b>						
Chromium, Trivalent	12		CALCULATION 0.52	mg/Kg-dry	1	Analyst: JB 9/4/2015 04:00 PM
<b>CHROMIUM, HEXAVALENT</b>						
Chromium, Hexavalent	ND		SW7196A 1.0	mg/Kg-dry	Prep: SW3060A / 8/31/15 1	Analyst: MB 9/2/2015 11:30 AM
<b>MOISTURE</b>						
Moisture	3.7		E160.3M 0.050	% of sample	1	Analyst: TM 9/2/2015 10:27 AM
<b>PH</b>						
pH	8.5		SW9045D	s.u.	Prep: EXTRACT / 8/31/15 1	Analyst: JB 8/31/2015 02:00 PM

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



<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-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

Client: Olsson Associates

Work Order: 15081464

Project: Chevron AC McLaughlin 60X Spill

# QC BATCH REPORT

Batch ID: 75442

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-75442-75442				Units: mg/Kg		Analysis Date: 8/31/2015 04:42 PM		
Client ID:		Run ID: GC8_150831B			SeqNo: 3440678		Prep Date: 8/31/2015		DF: 1	
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	1.265	0	2	0	63.2	39-133	0			

LCS		Sample ID: <b>DLCSS1-75442-75442</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/31/2015 05:12 PM</b>		
Client ID:		Run ID: <b>GC8_150831B</b>			SeqNo: <b>3440679</b>		Prep Date: <b>8/31/2015</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)	171.8	5.0	200	0	85.9	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.994</i>	0	2	0	49.7	39-133	0			

MS		Sample ID: 15081471-02A MS				Units: mg/Kg		Analysis Date: 8/31/2015 05:42 PM		
Client ID:			Run ID: GC8_150831B			SeqNo: 3440681		Prep Date: 8/31/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	2386	41	162	989.5	862	48-110		0		SO
Surr: 4-Terphenyl-d14	1.591	0	1.62	0	98.2	39-133		0		

MSD		Sample ID: 15081471-02A MSD				Units: mg/Kg		Analysis Date: 8/31/2015 06:12 PM		
Client ID:		Run ID: GC8_150831B			SeqNo: 3440683		Prep Date: 8/31/2015		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	2171	41	163.8	989.5	722	48-110	2386	9.41	30	SO
Surr: 4-Terphenyl-d14	1.608	0	1.638	0	98.2	39-133	1.591	1.07	30	

The following samples were analyzed in this batch:

15081464-01A

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75385**      Instrument ID **GC9**      Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-75385-75385</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2015 08:27 PM</b>		
Client ID:		Run ID: <b>GC9_150828A</b>				SeqNo: <b>3438527</b>		Prep Date: <b>8/28/2015</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								
<i>Surr: Toluene-d8</i>	4990	0	5000	0	99.8	50-150	0			

<b>LCS</b>		Sample ID: <b>LCS-75385-75385</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2015 08:02 PM</b>		
Client ID:		Run ID: <b>GC9_150828A</b>				SeqNo: <b>3438526</b>		Prep Date: <b>8/28/2015</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)	438500	2,500	500000	0	87.7	70-130	0			
<i>Surr: Toluene-d8</i>	5282	0	5000	0	106	50-150	0			

<b>MS</b>		Sample ID: <b>15081471-03A MS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2015 09:41 PM</b>		
Client ID:		Run ID: <b>GC9_150828A</b>				SeqNo: <b>3438530</b>		Prep Date: <b>8/28/2015</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)	654900	2,500	500000	83230	114	70-130	0			
<i>Surr: Toluene-d8</i>	4963	0	5000	0	99.3	50-150	0			

<b>MSD</b>		Sample ID: <b>15081471-03A MSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>8/28/2015 10:06 PM</b>		
Client ID:		Run ID: <b>GC9_150828A</b>				SeqNo: <b>3438531</b>		Prep Date: <b>8/28/2015</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)	660100	2,500	500000	83230	115	70-130	654900	0.785	30	
<i>Surr: Toluene-d8</i>	5104	0	5000	0	102	50-150	4963	2.81	30	

The following samples were analyzed in this batch:

15081464-01A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75400** Instrument ID **HG1** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-75400-75400</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/31/2015 03:39 PM</b>		
Client ID:		Run ID: <b>HG1_150831A</b>				SeqNo: <b>3439959</b>		Prep Date: <b>8/29/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

<b>LCS</b>		Sample ID: <b>LCS-75400-75400</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/31/2015 03:41 PM</b>		
Client ID:		Run ID: <b>HG1_150831A</b>				SeqNo: <b>3439960</b>		Prep Date: <b>8/29/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1865 0.020 0.1665 0 112 80-120 0

<b>MS</b>		Sample ID: <b>15081392-03BMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/31/2015 03:52 PM</b>		
Client ID:		Run ID: <b>HG1_150831A</b>				SeqNo: <b>3439965</b>		Prep Date: <b>8/29/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1332 0.013 0.1059 0.02019 107 75-125 0

<b>MSD</b>		Sample ID: <b>15081392-03BMSSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/31/2015 03:55 PM</b>		
Client ID:		Run ID: <b>HG1_150831A</b>				SeqNo: <b>3439966</b>		Prep Date: <b>8/29/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1373 0.013 0.1048 0.02019 112 75-125 0.1332 3.04 35

The following samples were analyzed in this batch:

15081464-01A	15081464-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75316**      Instrument ID **ICP2**      Method: **SW846 6010C**

<b>DUP</b>		Sample ID: <b>15081355-01ADUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/28/2015 03:37 PM</b>		
Client ID:		Run ID: <b>ICP2_150828A</b>				SeqNo: <b>3436527</b>		Prep Date: <b>8/28/2015</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	669.4	5.0	0	0	0	0-0	693.7	3.57		
Magnesium	380.4	2.0	0	0	0	0-0	395.9	4		
Sodium	719.6	2.0	0	0	0	0-0	747.5	3.81		

<b>DUP</b>		Sample ID: <b>15081355-01ADUP</b>				Units: <b>none</b>		Analysis Date: <b>8/28/2015</b>		
Client ID:		Run ID: <b>SAR_150828A</b>				SeqNo: <b>3436706</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	5.503	0.010	0	0	0		5.61	1.92	50	

The following samples were analyzed in this batch:

15081464-01B	15081464-02B
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates  
 Work Order: 15081464  
 Project: Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75372** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK		Sample ID: <b>MBLK-75372-75372</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/28/2015 04:08 PM</b>		
Client ID:		Run ID: <b>ICP2_150828A</b>				SeqNo: <b>3436733</b>		Prep Date: <b>8/28/2015</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	ND	0.25								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	0.1322	0.50								J

LCS		Sample ID: <b>LCS-75372-75372</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/28/2015 04:14 PM</b>		
Client ID:		Run ID: <b>ICP2_150828A</b>				SeqNo: <b>3436734</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.026	0.25	5	0	101	80-120	0			
Barium	4.946	0.25	5	0	98.9	80-120	0			
Cadmium	4.654	0.50	5	0	93.1	80-120	0			
Chromium	5.311	0.25	5	0	106	80-120	0			
Copper	5.211	0.50	5	0	104	80-120	0			
Lead	5.173	0.25	5	0	103	80-120	0			
Nickel	5.515	0.25	5	0	110	80-120	0			
Selenium	5.292	0.50	5	0	106	80-120	0			
Silver	5.454	0.25	5	0	109	80-120	0			
Zinc	4.884	0.50	5	0	97.7	80-120	0			

MS		Sample ID: <b>15081526-01AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/28/2015 04:25 PM</b>		
Client ID:		Run ID: <b>ICP2_150828A</b>				SeqNo: <b>3436759</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.87	0.38	7.669	7.568	121	75-125	0			
Barium	1503	0.38	7.669	1591	-1150	75-125	0			SO
Cadmium	7.713	0.77	7.669	0.3502	96	75-125	0			
Chromium	19.23	0.38	7.669	10.06	120	75-125	0			
Copper	24.36	0.77	7.669	15.34	118	75-125	0			
Lead	18.78	0.38	7.669	10.85	103	75-125	0			
Nickel	38.9	0.38	7.669	28.57	135	75-125	0			S
Selenium	9.125	0.77	7.669	0.7475	109	75-125	0			
Silver	8.692	0.38	7.669	-0.08388	114	75-125	0			
Zinc	59.95	0.77	7.669	49.28	139	75-125	0			SO

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75372**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD		Sample ID: <b>15081526-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>8/28/2015 04:31 PM</b>		
Client ID:		Run ID: <b>ICP2_150828A</b>				SeqNo: <b>3436766</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.53	0.39	7.752	7.568	116	75-125	16.87	2.01	20	
Barium	1766	0.39	7.752	1591	2250	75-125	1503	16.1	20	SO
Cadmium	8.209	0.78	7.752	0.3502	101	75-125	7.713	6.23	20	
Chromium	19.38	0.39	7.752	10.06	120	75-125	19.23	0.76	20	
Copper	24.11	0.78	7.752	15.34	113	75-125	24.36	1.04	20	
Lead	19.9	0.39	7.752	10.85	117	75-125	18.78	5.78	20	
Nickel	38.11	0.39	7.752	28.57	123	75-125	38.9	2.07	20	
Selenium	9.15	0.78	7.752	0.7475	108	75-125	9.125	0.281	20	
Silver	8.909	0.39	7.752	-0.08388	116	75-125	8.692	2.47	20	
Zinc	59.98	0.78	7.752	49.28	138	75-125	59.95	0.0442	20	SO

The following samples were analyzed in this batch:

15081464-01A	15081464-02A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Olsson Associates  
 Work Order: 15081464  
 Project: Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75593** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-75593-75593</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>9/3/2015 05:29 PM</b>		
Client ID:		Run ID: <b>SVMS4_150903A</b>				SeqNo: <b>3445761</b>		Prep Date: <b>9/3/2015</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	1318	0	1667	0	79.1	12-100	0			
Surr: 4-Terphenyl-d14	1538	0	1667	0	92.3	25-137	0			
Surr: Nitrobenzene-d5	1354	0	1667	0	81.2	37-107	0			

LCS		Sample ID: <b>SLCSS1-75593-75593</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>9/3/2015 05:55 PM</b>		
Client ID:		Run ID: <b>SVMS4_150903A</b>				SeqNo: <b>3445762</b>		Prep Date: <b>9/3/2015</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	594.3	6.7	666.7	0	89.1	45-110	0			
Anthracene	628.7	6.7	666.7	0	94.3	55-105	0			
Benzo(a)anthracene	677	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	681.7	6.7	666.7	0	102	50-110	0			
Benzo(b)fluoranthene	677.3	6.7	666.7	0	102	45-115	0			
Benzo(k)fluoranthene	703.3	6.7	666.7	0	105	45-115	0			
Chrysene	693.7	6.7	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	697.3	6.7	666.7	0	105	40-125	0			
Fluoranthene	643	6.7	666.7	0	96.4	55-115	0			
Fluorene	589	6.7	666.7	0	88.3	50-110	0			
Indeno(1,2,3-cd)pyrene	673.7	6.7	666.7	0	101	40-120	0			
Naphthalene	569.7	6.7	666.7	0	85.4	40-105	0			
Pyrene	740.3	6.7	666.7	0	111	45-125	0			
Surr: 2-Fluorobiphenyl	1453	0	1667	0	87.2	12-100	0			
Surr: 4-Terphenyl-d14	1632	0	1667	0	97.9	25-137	0			
Surr: Nitrobenzene-d5	1442	0	1667	0	86.5	37-107	0			

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

Client: Olsson Associates  
 Work Order: 15081464  
 Project: Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: 75593 Instrument ID SVMS4 Method: SW846 8270D

MS				Sample ID: 1509062-02B MS				Units: µg/Kg			Analysis Date: 9/3/2015 06:20 PM			
Client ID:				Run ID: SVMS4_150903A				SeqNo: 3445763			Prep Date: 9/3/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Acenaphthene	540.2	6.6	664	0	81.3	45-110	0							
Anthracene	580	6.6	664	0	87.3	55-105	0							
Benzo(a)anthracene	589.3	6.6	664	0	88.7	50-110	0							
Benzo(a)pyrene	580.3	6.6	664	0	87.4	50-110	0							
Benzo(b)fluoranthene	581.7	6.6	664	0	87.6	45-115	0							
Benzo(k)fluoranthene	586	6.6	664	0	88.2	45-115	0							
Chrysene	598.6	6.6	664	0	90.1	55-110	0							
Dibenzo(a,h)anthracene	519.9	6.6	664	0	78.3	40-125	0							
Fluoranthene	627.8	6.6	664	6.157	93.6	55-115	0							
Fluorene	562.4	6.6	664	0	84.7	50-110	0							
Indeno(1,2,3-cd)pyrene	529.2	6.6	664	0	79.7	40-120	0							
Naphthalene	516.6	6.6	664	0	77.8	40-105	0							
Pyrene	540.8	6.6	664	6.482	80.5	45-125	0							
Surr: 2-Fluorobiphenyl	1189	0	1660	0	71.6	12-100	0							
Surr: 4-Terphenyl-d14	1229	0	1660	0	74.1	25-137	0							
Surr: Nitrobenzene-d5	1260	0	1660	0	75.9	37-107	0							

MSD				Sample ID: 1509062-02B MSD				Units: µg/Kg		Analysis Date: 9/3/2015 06:46 PM	
Client ID:			Run ID: SVMS4_150903A			SeqNo: 3445764		Prep Date: 9/3/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	540.4	6.6	658.6	0	82	45-110	540.2	0.0368	30		
Anthracene	607.2	6.6	658.6	0	92.2	55-105	580	4.58	30		
Benzo(a)anthracene	614.8	6.6	658.6	0	93.3	50-110	589.3	4.23	30		
Benzo(a)pyrene	634.5	6.6	658.6	0	96.3	50-110	580.3	8.92	30		
Benzo(b)fluoranthene	643.7	6.6	658.6	0	97.7	45-115	581.7	10.1	30		
Benzo(k)fluoranthene	637.5	6.6	658.6	0	96.8	45-115	586	8.42	30		
Chrysene	628.9	6.6	658.6	0	95.5	55-110	598.6	4.94	30		
Dibenzo(a,h)anthracene	560.8	6.6	658.6	0	85.1	40-125	519.9	7.56	30		
Fluoranthene	639.1	6.6	658.6	6.157	96.1	55-115	627.8	1.79	30		
Fluorene	568.7	6.6	658.6	0	86.3	50-110	562.4	1.11	30		
Indeno(1,2,3-cd)pyrene	592.7	6.6	658.6	0	90	40-120	529.2	11.3	30		
Naphthalene	499.9	6.6	658.6	0	75.9	40-105	516.6	3.29	30		
Pyrene	615.8	6.6	658.6	6.482	92.5	45-125	540.8	13	30		
Surr: 2-Fluorobiphenyl	1247	0	1646	0	75.7	12-100	1189	4.8	40		
Surr: 4-Terphenyl-d14	1334	0	1646	0	81	25-137	1229	8.18	40		
Surr: Nitrobenzene-d5	1252	0	1646	0	76	37-107	1260	0.688	40		

The following samples were analyzed in this batch:

15081464-01A

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

Client: Olsson Associates  
 Work Order: 15081464  
 Project: Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75373** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: <b>MBLK-75373-75373</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>8/28/2015 01:12 PM</b>			
Client ID:		Run ID: <b>VMS5_150828A</b>		SeqNo: <b>3436124</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	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	1003	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	984.5	0	1000	0	98.4	70-130	0			
Surr: Dibromofluoromethane	998	0	1000	0	99.8	70-130	0			
Surr: Toluene-d8	983.5	0	1000	0	98.4	70-130	0			

LCS Sample ID: <b>LCS-75373-75373</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>8/28/2015 11:56 AM</b>			
Client ID:		Run ID: <b>VMS5_150828A</b>		SeqNo: <b>3436123</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1098	30	1000	0	110	75-125	0			
Ethylbenzene	1079	30	1000	0	108	75-125	0			
m,p-Xylene	2164	60	2000	0	108	80-125	0			
o-Xylene	1052	30	1000	0	105	75-125	0			
Toluene	1070	30	1000	0	107	70-125	0			
Xylenes, Total	3216	90	3000	0	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	1000	0	1000	0	100	70-130	0			
Surr: 4-Bromofluorobenzene	1024	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	1008	0	1000	0	101	70-130	0			
Surr: Toluene-d8	991	0	1000	0	99.1	70-130	0			

MS Sample ID: <b>15081534-01A MS</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>9/1/2015 09:56 AM</b>			
Client ID:		Run ID: <b>VMS9_150831B</b>		SeqNo: <b>3440722</b>		Prep Date: <b>8/28/2015</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1490	42	1410	0	106	75-125	0			
Ethylbenzene	1680	42	1410	456.7	86.8	75-125	0			
m,p-Xylene	2881	85	2819	0	102	80-125	0			
o-Xylene	1405	42	1410	0	99.6	75-125	0			
Toluene	1437	42	1410	0	102	70-125	0			
Xylenes, Total	4285	130	4229	0	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	1377	0	1410	0	97.7	70-130	0			
Surr: 4-Bromofluorobenzene	1546	0	1410	0	110	70-130	0			
Surr: Dibromofluoromethane	1356	0	1410	0	96.2	70-130	0			
Surr: Toluene-d8	1435	0	1410	0	102	70-130	0			

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75373**      Instrument ID **VMS5**      Method: **SW8260B**

MSD				Sample ID: <b>15081534-01A MSD</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>9/1/2015 10:21 AM</b>	
Client ID:				Run ID: <b>VMS9_150831B</b>			SeqNo: <b>3440723</b>		Prep Date: <b>8/28/2015</b>	
									DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1367	42	1410	0	97	75-125	1490	8.58	30	
Ethylbenzene	1561	42	1410	456.7	78.4	75-125	1680	7.35	30	
m,p-Xylene	2611	85	2819	0	92.6	80-125	2881	9.8	30	
o-Xylene	1283	42	1410	0	91	75-125	1405	9.07	30	
Toluene	1295	42	1410	0	91.9	70-125	1437	10.4	30	
Xylenes, Total	3894	130	4229	0	92.1	75-125	4285	9.56	30	
Surr: 1,2-Dichloroethane-d4	1350	0	1410	0	95.8	70-130	1377	1.96	30	
Surr: 4-Bromofluorobenzene	1521	0	1410	0	108	70-130	1546	1.65	30	
Surr: Dibromofluoromethane	1325	0	1410	0	94	70-130	1356	2.31	30	
Surr: Toluene-d8	1408	0	1410	0	99.9	70-130	1435	1.88	30	

The following samples were analyzed in this batch:

15081464-01A

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75316** Instrument ID **WETCHEM** Method: **USDA H60 Method**

<b>DUP</b>		Sample ID: <b>15081355-01A DUP</b>				Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>8/28/2015 04:50 PM</b>		
Client ID:		Run ID: <b>WETCHEM_150828M</b>				SeqNo: <b>3436754</b>		Prep Date: <b>8/28/2015</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	8.88	0.050	0	0	0		9.26	4.19	50	

The following samples were analyzed in this batch:

15081464-01B	15081464-02B
--------------	--------------

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75458** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-75458-75458					Units: s.u.		Analysis Date: 8/31/2015 02:00 PM		
Client ID:			Run ID: WETCHEM_150831L			SeqNo: 3439476		Prep Date: 8/31/2015		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: 15081347-01A DUP					Units: s.u.		Analysis Date: 8/31/2015 02:00 PM		
Client ID:		Run ID: WETCHEM_150831L			SeqNo: 3439478		Prep Date: 8/31/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 8.14 0 0 0 0 0-0 8.19 0.612 20

DUP				Sample ID: 15081524-01A DUP				Units: s.u.			Analysis Date: 8/31/2015 02:00 PM			
Client ID:				Run ID: WETCHEM_150831L				SeqNo: 3439489			Prep Date: 8/31/2015		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 8.85 0 0 0 0 0-0 8.84 0.113 20

The following samples were analyzed in this batch:

15081464-02A

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75472** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-75472-75472					Units: s.u.			Analysis Date: 8/31/2015 03:00 PM				
Client ID:					Run ID: WETCHEM_150831N					SeqNo: 3439540			Prep Date: 8/31/2015			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: 15081010-01A DUP					Units: s.u.			Analysis Date: 8/31/2015 03:00 PM		
Client ID:					Run ID: WETCHEM_150831N					SeqNo: 3439542		Prep Date: 8/31/2015		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					2.48	0	0	0	0	0-0	2.4	3.28	20	H	

The following samples were analyzed in this batch:

15081464-01A

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



Client: Olsson Associates  
 Work Order: 15081464  
 Project: Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **75550** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-75550-75550</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/2/2015 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150902N</b>				SeqNo: <b>3442934</b>		Prep Date: <b>8/31/2015</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-75550-75550</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/2/2015 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150902N</b>				SeqNo: <b>3442933</b>		Prep Date: <b>8/31/2015</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 4.68 1.0 5 0 93.6 80-120 0

<b>MS</b>		Sample ID: <b>15081520-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/2/2015 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150902N</b>				SeqNo: <b>3442925</b>		Prep Date: <b>8/31/2015</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 4.01 0.96 4.808 0.3299 76.5 75-125 0

<b>MS</b>		Sample ID: <b>15081520-01B MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/2/2015 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150902N</b>				SeqNo: <b>3442927</b>		Prep Date: <b>8/31/2015</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 2485 97 2453 0.3299 101 75-125 0

<b>MSD</b>		Sample ID: <b>15081520-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>9/2/2015 11:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_150902N</b>				SeqNo: <b>3442926</b>		Prep Date: <b>8/31/2015</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 3.99 1.0 5.102 0.3299 71.7 75-125 4.01 0.496 20 S

The following samples were analyzed in this batch:

15081464-01A	15081464-02A
--------------	--------------

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

**Client:** Olsson Associates  
**Work Order:** 15081464  
**Project:** Chevron AC McLaughlin 60X Spill

## QC BATCH REPORT

Batch ID: **R170932** Instrument ID **MOIST** Method: **E160.3M**

<b>MBLK</b>		Sample ID: <b>WBLKS-R170932</b>				Units: % of sample			Analysis Date: <b>9/2/2015 10:27 AM</b>		
Client ID:		Run ID: <b>MOIST_150902A</b>				SeqNo: <b>3444603</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

<b>LCS</b>		Sample ID: <b>LCS-R170932</b>				Units: % of sample			Analysis Date: <b>9/2/2015 10:27 AM</b>		
Client ID:		Run ID: <b>MOIST_150902A</b>				SeqNo: <b>3444602</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 99.99 0.050 100 0 100 99.5-100.5 0

<b>DUP</b>		Sample ID: <b>15081550-01A DUP</b>				Units: % of sample			Analysis Date: <b>9/2/2015 10:27 AM</b>		
Client ID:		Run ID: <b>MOIST_150902A</b>				SeqNo: <b>3444592</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.69 0.050 0 0 0 13.87 1.31 20

<b>DUP</b>		Sample ID: <b>15081550-02A DUP</b>				Units: % of sample			Analysis Date: <b>9/2/2015 10:27 AM</b>		
Client ID:		Run ID: <b>MOIST_150902A</b>				SeqNo: <b>3444596</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.27 0.050 0 0 0 14.82 11 20

The following samples were analyzed in this batch:

15081464-01A	15081464-02A
--------------	--------------

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



## Page 1 of 1

COC ID: 123456

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Cincinnati, OH<br>+1 513 733 5336   | <input type="checkbox"/> Holland, MI<br>+1 616 399 6070    | <input type="checkbox"/> Salt Lake City, UT<br>+1 801 266 7700 |
| <input type="checkbox"/> Everett, WA<br>+1 425 356 2600      | <input type="checkbox"/> Houston, TX<br>+1 281 330 3656    | <input type="checkbox"/> Spring City, PA<br>+1 610 948 4903    |
| <input type="checkbox"/> Fort Collins, CO<br>+1 970 490 1511 | <input type="checkbox"/> Middletown, PA<br>+1 717 944 5541 | <input type="checkbox"/> York, PA<br>+1 717 505 5280           |

Work Order #:

150414164

Customer Information							Project Information						Parameter/Method Request for Analysis								
Purchase Order		Project Name	Chevron AC McLaughlin 80X Spill				A	TPH (GRO & BRO)													
Work Order		Project Number	013.3287.200.200004				B	BTEX													
Company Name	Olsson Associates	Bill To Company	Olsson Associates				G	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 81508	City/State/Zip	Grand Junction, CO 81508				F	pH													
Phone	970.263.7800	Phone	970.263.7800				I	Metals (See Attached List) CO Table 910													
Fax	970.263.7458	Fax	970.263.7458				H	Arsenic Only													
e-Mail Address	tdobransky@coasoneviro.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	ACM60X-SS1	08/25/15	1340	Soil	8	2	X	X	X	X	X	X	X				
	ACM60X-BG1	08/25/15	1350	Soil	8	2				X	X	X	X				
3																	
4																	
5																	
6																	

**Sampler(s): Please Print & Sign**

Jason McLarty [Signature]

**Shipment Method:**

FedEx

**Required Turnaround Time:**

☐ STD 10 Wk Days    ☒ 5 Wk Days    ☐ 2 Wk Days    ☐ 24 Hour

**Results Due Date:**

**Relinquished by:** [Signature]    **Date:** 8/26/15    **Time:** 1108

**Received by:** [Signature]    **Date:** 8/26/15    **Time:** 1501

**Accepted by (Laboratory):** [Signature]    **Date:** 8/27/15    **Time:** 0900

**Notes:** Chevron Pricing Applies - Per Bruce Schletter

**Cooler Temp:** 4.5°C

**QC Package: (Check Box Below)**

☒ Level II: Standard QC

☐ Level III: Std QC + Raw Data

☐ 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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ORIGIN ID: RLA  
NICK MARTINEZ  
ALS ENVIRONMENTAL  
PARACHUTE SERVICE  
127 EAST 1ST ST  
PARACHUTE, CO 81631  
UNITED STATES US

#16) 288-1033

PARACHUTE  
CENTER

SHIP DATE: 26AUG15  
ACTWGT: 76.00 LB  
CAD: 2264840/NET3870  
DIMS: 26x18x16 IN

BILL SENDER

TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

53911FECA3100

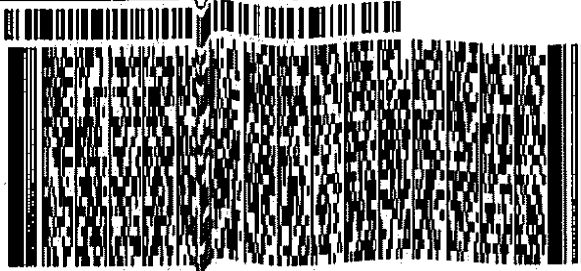
**HOLLAND MI 49424**

(816) 399-6070

REF: 082615-1

KV:  
PO PARACHUTE

DEPT.

**FedEx**  
ExpressREL#  
3785346

THU - 27 AUG 10:30A  
PRIORITY OVERNIGHT

MPS#

2 of 5

0263

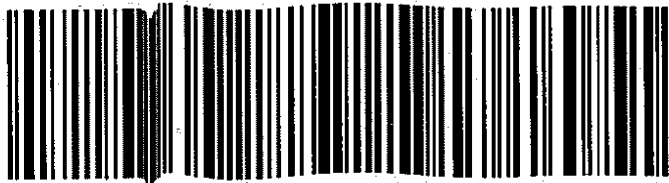
7743 765 7687

Mstr# 7743 765 7676

0201

**XX H-MA**

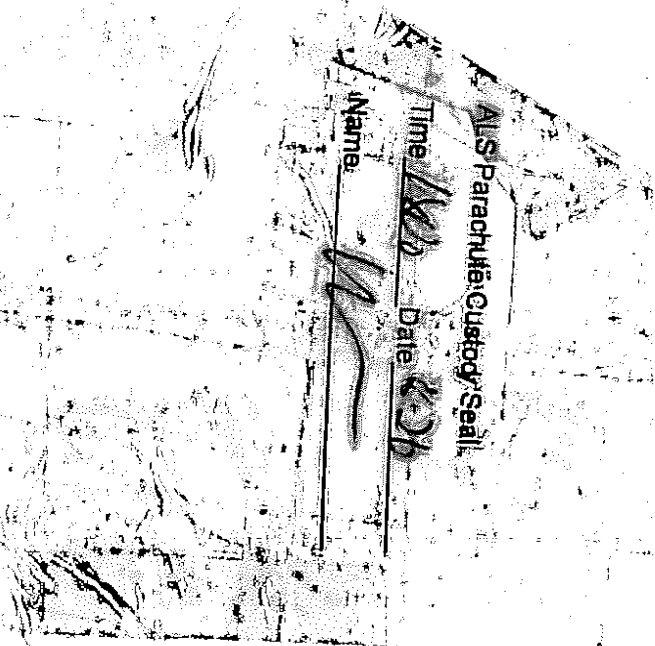
MI-US

**49424**  
**GRR****After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits; see current FedEx Service Guide.



Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **27-Aug-15 09:00**

Work Order: **15081464**

Received by: **KRW**

Checklist completed by <u>Keith Wurenga</u>	27-Aug-15	Reviewed by: <u>Lee Arnold</u>	27-Aug-15
eSignature	Date	eSignature	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>4.8/4.8 C</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>8/27/2015 11:39:48 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:



30-Oct-2017

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

Re: **ACM 60 Spill Resampling**

Work Order: **17101503**

Dear Tim,

ALS Environmental received 1 sample on 23-Oct-2017 09:00 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 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 7.

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

Sincerely,

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

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

Certificate No: MN 998501

### Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | 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:** ACM 60 Spill Resampling  
**Work Order:** 17101503

**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>
17101503-01	ACM60-SS1	Soil		10/19/2017 10:55	10/23/2017 09:00	<input type="checkbox"/>



**Client:** Olsson Associates  
**Project:** ACM 60 Spill Resampling  
**WorkOrder:** 17101503

## QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

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

# ALS Group, USA

Date: 30-Oct-17

**Client:** Olsson Associates  
**Project:** ACM 60 Spill Resampling  
**Sample ID:** ACM60-SS1  
**Collection Date:** 10/19/2017 10:55 AM

**Work Order:** 17101503  
**Lab ID:** 17101503-01  
**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 / 10/27/17	Analyst: <b>ED</b>
Electrical Conductivity @ Saturation	1.2		0.011	0.10	mmhos/cm @25°	20	10/28/2017 17:10

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

Client: Olsson Associates

Work Order: 17101503

Project: ACM 60 Spill Resampling

## QC BATCH REPORT

Batch ID: 109683

Instrument ID WETCHEM

Method: USDA H60 Metho

DUP	Sample ID: 17101506-01ADUP				Units: mmhos/cm @25°		Analysis Date: 10/28/2017 05:10 PM			
Client ID:		Run ID: WETCHEM_171028E			SeqNo: 4726791		Prep Date: 10/27/2017		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.544	0.10	0	0	0		1.542	0.13	50	

The following samples were analyzed in this batch:

17101503-01A



# Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH  
+1 513 733 5336

☐ Everett, WA  
+1 425 356 2600

☐ 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

17101503

Customer Information		Project Information						Parameter/Method Request for Analysis											
Purchase Order		Project Name	ACM 60 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@olssonassociates.com	e-Mail Address	tdobransky@olssonassociates.com					I DRO Only											
								J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	ACM60-SS1	10/19/17	1055	Soil	8	1				X									
2																			
3																			
4																			
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:		Date: 10-23-17	Time: 0900	Received by:			Notes: Chevron Pricing Applies - Per Bruce Schlatter												
Relinquished by:		Date:	Time:	Received by (Laboratory):			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 <input type="checkbox"/> 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: **OLSSON**

Date/Time Received: **23-Oct-17 09:00**

Work Order: **17101503**

Received by: **NCF**

Checklist completed by Nicole Fredericks  
eSignature

23-Oct-17  
Date

Reviewed by: Chad Whelton  
eSignature

24-Oct-17  
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>5.2/5.2</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/23/2017 1:40:22 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: