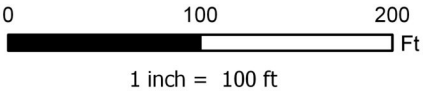




Legend

● Origin    ● Soil Sample Location    — Spill Path    ▨ Spill Areas



Project No: 018-065

Map By: NDB

Date: 7/12/2019

AC McLaughlin 69X Spill Response  
Chevron USA, Inc.  
Rio Blanco County, Colorado  
NW/4 NE/4 Sec 23 T2S R102W



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

Figure

1

**Table 1**  
**AC McLaughlin 69X Spill**  
**Soil Data Summary**

SAMPLE SUMMARY	
Location Description	AC McLaughlin 69X
Sample Type	Soil

LABORATORY DATA SUMMARY						
Sample ID	ACMCL69	ACMCL69X-SS1	ACMCL69X-SS2	ACMCL69X-BG1	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	4.5'	0-6"	0-6"	0-6"		
Sample Date	6/5/2019	6/17/2019	6/17/2019	6/17/2019		
Analytical Parameters						
TPH						
TPH Gasoline Range Organics	<2.9	<2.7	<2.5	NT	500	mg/kg
TPH Diesel Range Organics	18	31	3.8 J	NT		
BTEX						
Benzene	<0.0072 H	<0.0067	<0.0061	NT	0.17	mg/kg
Toluene	<0.040 JH	<0.011	<0.0097	NT	85	mg/kg
Ethylbenzene	<0.0089 H	<0.0083	<0.0075	NT	100	mg/kg
Total Xylene	<0.056 H	<0.053	<0.047	NT	175	mg/kg
SAR Metals Analysis						
Calcium	620	2700	400	97	NA	mg/L
Magnesium	5200	280	40	24	NA	mg/L
Sodium	1100	12000	94	15	NA	mg/L
Sodium Adsorption Ratio	29	59	1.2	0.36	<12	ratio
General Chemistry						
Specific Conductivity	36	89	3.3	0.71	<4 or 2 x the background	mmhos/cm
pH	8.23 H	7.76	7.97	8.30	6-9	su

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
H - analyzed outside of holding time  
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





03-Jul-2019

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

Re: **AC McLaughlin 69X Spill**

Work Order: **19061301**

Dear Tim,

ALS Environmental received 4 samples on 19-Jun-2019 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 21.

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: Alex J. Csaszar

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

Environmental 

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

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Work Order:** 19061301

## 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>
19061301-01	AC MCL69 (4.5ft. Bgs)	Soil		6/5/2019 12:00	6/19/2019 09:30	<input type="checkbox"/>
19061301-02	AC MCL69X-SS1	Soil		6/17/2019 12:15	6/19/2019 09:30	<input type="checkbox"/>
19061301-03	AC MCL69X-BG1	Soil		6/17/2019 12:20	6/19/2019 09:30	<input type="checkbox"/>
19061301-04	AC MCL69X-SS2	Soil		6/17/2019	6/19/2019 09:30	<input type="checkbox"/>

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**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Work Order:** 19061301

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**Case Narrative**

Samples for the above noted Work Order were received on 06/19/2019. 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. A copy of the laboratory's scope of accreditation is available upon request.

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

**Volatile Organics:**

Batch 137920, Method GRO\_8015\_S, Sample 19061301-01A: Sample analyzed after hold time due to being received after expiration date.

Batch 137925, Method VOC\_8260\_S, Sample 19061301-01A: Sample analyzed after hold time due to being received after expiration date.

**Extractable Organics:**

No other deviations or anomalies were noted.

**Metals:**

No other deviations or anomalies were noted.

**Wet Chemistry:**

Batch 137907, Method PH\_9045\_S, Sample 19061301-01A: Sample holding time expired before receipt by laboratory.

---

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**WorkOrder:** 19061301

---

**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>
% of sample	Percent of Sample
°C	Degrees Celcius
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

Date: 03-Jul-19

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Sample ID:** AC MCL69 (4.5ft. Bgs)  
**Collection Date:** 6/5/2019 12:00 PM

**Work Order:** 19061301  
**Lab ID:** 19061301-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015C</b>		Prep: SW3546 / 6/20/19		Analyst: <b>KB</b>
<b>DRO (C10-C28)</b>	<b>18</b>		<b>3.3</b>	<b>5.8</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/21/2019 02:50
Surr: 4-Terphenyl-d14	95.6			34-130	%REC	1	6/21/2019 02:50
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 6/20/19		Analyst: <b>KB</b>
<b>GRO (C6-C10)</b>	<b>U</b>	<b>H</b>	<b>2.9</b>	<b>7.0</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/21/2019 04:43
Surr: Toluene-d8	95.1			71-123	%REC	1	6/21/2019 04:43
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>ABL</b>
<b>Calcium</b>	<b>620</b>		<b>0.86</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:52
<b>Magnesium</b>	<b>1,100</b>		<b>0.068</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:52
<b>Sodium</b>	<b>5,200</b>		<b>3.4</b>	<b>20</b>	<b>mg/L</b>	<b>100</b>	6/28/2019 13:31
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>29</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	6/27/2019
<b>VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8260C</b>		Prep: SW5035 / 6/20/19		Analyst: <b>WH</b>
<b>Benzene</b>	<b>U</b>	<b>H</b>	<b>0.0072</b>	<b>0.042</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
<b>Ethylbenzene</b>	<b>U</b>	<b>H</b>	<b>0.0089</b>	<b>0.042</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
<b>m,p-Xylene</b>	<b>U</b>	<b>H</b>	<b>0.056</b>	<b>0.084</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
<b>o-Xylene</b>	<b>U</b>	<b>H</b>	<b>0.016</b>	<b>0.042</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
<b>Toluene</b>	<b>0.040</b>	<b>JH</b>	<b>0.011</b>	<b>0.042</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
<b>Xylenes, Total</b>	<b>U</b>	<b>H</b>	<b>0.056</b>	<b>0.13</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/20/2019 18:24
Surr: 1,2-Dichloroethane-d4	99.4			70-130	%REC	1	6/20/2019 18:24
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	6/20/2019 18:24
Surr: Dibromofluoromethane	95.5			70-130	%REC	1	6/20/2019 18:24
Surr: Toluene-d8	92.7			70-130	%REC	1	6/20/2019 18:24
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>36</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	<b>20</b>	6/28/2019 15:15
<b>MOISTURE</b>							
			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
<b>Moisture</b>	<b>15</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	<b>1</b>	6/19/2019 16:26
<b>PH</b>							
			Method: <b>SW9045D</b>		Prep: EXTRACT / 6/20/19		Analyst: <b>DNW</b>
<b>pH</b>	<b>8.23</b>	<b>H</b>	<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	<b>1</b>	6/20/2019 11:45
<b>Temperature</b>	<b>22.4</b>	<b>H</b>	<b>0.10</b>	<b>0.100</b>	<b>°C</b>	<b>1</b>	6/20/2019 11:45

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



# ALS Group, USA

Date: 03-Jul-19

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Sample ID:** AC MCL69X-SS1  
**Collection Date:** 6/17/2019 12:15 PM

**Work Order:** 19061301  
**Lab ID:** 19061301-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015C</b>		Prep: SW3546 / 6/20/19		Analyst: <b>KB</b>
<b>DRO (C10-C28)</b>	<b>31</b>		<b>3.1</b>	<b>5.4</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/21/2019 03:19
Surr: 4-Terphenyl-d14	84.6			34-130	%REC	1	6/21/2019 03:19
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 6/26/19		Analyst: <b>KB</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>2.7</b>	<b>6.6</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/27/2019 02:37
Surr: Toluene-d8	95.1			71-123	%REC	1	6/27/2019 02:37
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>STP</b>
<b>Calcium</b>	<b>2,700</b>		<b>8.6</b>	<b>50</b>	<b>mg/L</b>	<b>100</b>	6/28/2019 13:33
<b>Magnesium</b>	<b>280</b>		<b>0.068</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:53
<b>Sodium</b>	<b>12,000</b>		<b>3.4</b>	<b>20</b>	<b>mg/L</b>	<b>100</b>	6/28/2019 13:33
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>59</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	6/27/2019
<b>VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8260C</b>		Prep: SW5035 / 6/26/19		Analyst: <b>CKD</b>
Benzene	U		0.0067	0.039	mg/Kg-dry	1	6/28/2019 18:46
Ethylbenzene	U		0.0083	0.039	mg/Kg-dry	1	6/28/2019 18:46
m,p-Xylene	U		0.053	0.079	mg/Kg-dry	1	6/28/2019 18:46
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	6/28/2019 18:46
Toluene	U		0.011	0.039	mg/Kg-dry	1	6/28/2019 18:46
Xylenes, Total	U		0.053	0.12	mg/Kg-dry	1	6/28/2019 18:46
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	6/28/2019 18:46
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	6/28/2019 18:46
Surr: Dibromofluoromethane	104			70-130	%REC	1	6/28/2019 18:46
Surr: Toluene-d8	97.3			70-130	%REC	1	6/28/2019 18:46
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>89</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	<b>20</b>	6/28/2019 15:15
<b>MOISTURE</b>							
			Method: <b>SW3550C</b>				Analyst: <b>DVD</b>
<b>Moisture</b>	<b>12</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	<b>1</b>	6/28/2019 10:56
<b>PH</b>							
			Method: <b>SW9045D</b>		Prep: EXTRACT / 6/20/19		Analyst: <b>DNW</b>
<b>pH</b>	<b>7.76</b>		<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	<b>1</b>	6/18/2019 14:45
<b>Temperature</b>	<b>22.4</b>		<b>0.10</b>	<b>0.100</b>	<b>°C</b>	<b>1</b>	6/18/2019 14:45

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

**ALS Group, USA**

Date: 03-Jul-19

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Sample ID:** AC MCL69X-BG1  
**Collection Date:** 6/17/2019 12:20 PM

**Work Order:** 19061301  
**Lab ID:** 19061301-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>ABL</b>
Calcium	97		0.86	5.0	mg/L	10	6/27/2019 17:55
Magnesium	24		0.068	2.0	mg/L	10	6/27/2019 17:55
Sodium	15		0.34	2.0	mg/L	10	6/27/2019 17:55
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>STP</b>
Sodium Adsorption Ratio	0.36		0.010	0.010	none	1	6/27/2019
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>JB</b>
Electrical Conductivity @ Saturation	0.71		0.011	0.10	mmhos/cm @25°	20	6/28/2019 15:15
<b>PH</b>							
			Method: <b>SW9045D</b>		Prep: EXTRACT / 6/20/19		Analyst: <b>DNW</b>
pH	8.30		0.10	0.100	s.u.	1	6/18/2019 14:45
Temperature	22.3		0.10	0.100	°C	1	6/18/2019 14:45

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

# ALS Group, USA

Date: 03-Jul-19

**Client:** Entrada Consulting Group  
**Project:** AC McLaughlin 69X Spill  
**Sample ID:** AC MCL69X-SS2  
**Collection Date:** 6/17/2019

**Work Order:** 19061301  
**Lab ID:** 19061301-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015C</b>		Prep: SW3546 / 6/24/19		Analyst: <b>KB</b>
<b>DRO (C10-C28)</b>	<b>3.8</b>	<b>J</b>	<b>3.1</b>	<b>5.3</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/24/2019 16:33
Surr: 4-Terphenyl-d14	34.0			34-130	%REC	1	6/24/2019 16:33
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 6/26/19		Analyst: <b>KB</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>2.5</b>	<b>5.9</b>	<b>mg/Kg-dry</b>	<b>1</b>	6/27/2019 03:06
Surr: Toluene-d8	99.1			71-123	%REC	1	6/27/2019 03:06
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020A</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>ABL</b>
<b>Calcium</b>	<b>400</b>		<b>0.86</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:57
<b>Magnesium</b>	<b>40</b>		<b>0.068</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:57
<b>Sodium</b>	<b>94</b>		<b>0.34</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	6/27/2019 17:57
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>1.2</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	6/27/2019
<b>VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8260C</b>		Prep: SW5035 / 6/26/19		Analyst: <b>CKD</b>
Benzene	U		0.0061	0.035	mg/Kg-dry	1	6/28/2019 19:02
Ethylbenzene	U		0.0075	0.035	mg/Kg-dry	1	6/28/2019 19:02
m,p-Xylene	U		0.047	0.071	mg/Kg-dry	1	6/28/2019 19:02
o-Xylene	U		0.014	0.035	mg/Kg-dry	1	6/28/2019 19:02
Toluene	U		0.0097	0.035	mg/Kg-dry	1	6/28/2019 19:02
Xylenes, Total	U		0.047	0.11	mg/Kg-dry	1	6/28/2019 19:02
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	6/28/2019 19:02
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	6/28/2019 19:02
Surr: Dibromofluoromethane	103			70-130	%REC	1	6/28/2019 19:02
Surr: Toluene-d8	96.8			70-130	%REC	1	6/28/2019 19:02
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 6/27/19		Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>3.3</b>		<b>0.011</b>	<b>0.10</b>	<b>mmhos/cm @25°</b>	<b>20</b>	6/28/2019 15:15
<b>MOISTURE</b>							
			Method: <b>SW3550C</b>				Analyst: <b>DVD</b>
<b>Moisture</b>	<b>9.1</b>		<b>0.10</b>	<b>0.10</b>	<b>% of sample</b>	<b>1</b>	6/28/2019 10:56
<b>PH</b>							
			Method: <b>SW9045D</b>		Prep: EXTRACT / 6/20/19		Analyst: <b>DNW</b>
<b>pH</b>	<b>7.97</b>		<b>0.10</b>	<b>0.100</b>	<b>s.u.</b>	<b>1</b>	6/18/2019 14:45
<b>Temperature</b>	<b>22.5</b>		<b>0.10</b>	<b>0.100</b>	<b>°C</b>	<b>1</b>	6/18/2019 14:45

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

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

# QC BATCH REPORT

Batch ID: **137881** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: <b>DBLKS1-137881-137881</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/20/2019 03:08 PM</b>			
Client ID:		Run ID: <b>GC8_190620A</b>				SeqNo: <b>5731140</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	2.9	5.0								
<i>Surr: 4-Terphenyl-d14</i>	3.433	0	0	3.33	0	103	34-130	0			

LCS		Sample ID: <b>DLCSS1-137881-137881</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/20/2019 03:37 PM</b>			
Client ID:		Run ID: <b>GC8_190620A</b>				SeqNo: <b>5731141</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	343	2.9	5.0	333	0	103	65-122	0			
<i>Surr: 4-Terphenyl-d14</i>	3.217	0	0	3.33	0	96.6	34-130	0			

MS		Sample ID: <b>19060959-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/20/2019 04:36 PM</b>			
Client ID:		Run ID: <b>GC8_190620A</b>				SeqNo: <b>5731143</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	376.3	2.9	5.0	331.7	4.029	112	65-122	0			
<i>Surr: 4-Terphenyl-d14</i>	3.503	0	0	3.317	0	106	34-130	0			

MSD		Sample ID: <b>19060959-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/20/2019 05:05 PM</b>			
Client ID:		Run ID: <b>GC8_190620A</b>				SeqNo: <b>5731144</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	357.8	2.7	4.7	313.1	4.029	113	65-122	376.3	5.04	30	
<i>Surr: 4-Terphenyl-d14</i>	3.306	0	0	3.131	0	106	34-130	3.503	5.79	30	

The following samples were analyzed in this batch:

19061301-01A	19061301-02A
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**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **138085** Instrument ID **GC8** Method: **SW8015C**

<b>MBLK</b>		Sample ID: <b>DBLKS1-138085-138085</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/24/2019 02:06 PM</b>			
Client ID:		Run ID: <b>GC8_190624A</b>				SeqNo: <b>5737892</b>		Prep Date: <b>6/24/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	2.9	5.0	0	0	0		0			
Surr: 4-Terphenyl-d14	3.783	0	0	3.33	0	114	34-130	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-138085-138085</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/24/2019 02:36 PM</b>			
Client ID:		Run ID: <b>GC8_190624A</b>				SeqNo: <b>5737893</b>		Prep Date: <b>6/24/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	397	2.9	5.0	333	0	119	65-122	0			
Surr: 4-Terphenyl-d14	3.617	0	0	3.33	0	109	34-130	0			

<b>MS</b>		Sample ID: <b>19061578-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/24/2019 03:34 PM</b>			
Client ID:		Run ID: <b>GC8_190624A</b>				SeqNo: <b>5737895</b>		Prep Date: <b>6/24/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	452.2	2.8	4.9	325.8	81.28	114	65-122	0			
Surr: 4-Terphenyl-d14	3.636	0	0	3.258	0	112	34-130	0			

<b>MSD</b>		Sample ID: <b>19061578-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>6/24/2019 04:03 PM</b>			
Client ID:		Run ID: <b>GC8_190624A</b>				SeqNo: <b>5737896</b>		Prep Date: <b>6/24/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	416.7	2.9	5.0	332.1	81.28	101	65-122	452.2	8.17	30	
Surr: 4-Terphenyl-d14	3.856	0	0	3.321	0	116	34-130	3.636	5.86	30	

The following samples were analyzed in this batch:

19061301-04A

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

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **137920** Instrument ID **GC9** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-137920-137920</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/20/2019 07:54 PM</b>			
Client ID:		Run ID: <b>GC9_190620A</b>				SeqNo: <b>5731374</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2100	5,000								
<i>Surr: Toluene-d8</i>	4638	0	0	5000	0	92.8	71-123	0			

<b>LCS</b>		Sample ID: <b>LCS-137920-137920</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/20/2019 07:25 PM</b>			
Client ID:		Run ID: <b>GC9_190620A</b>				SeqNo: <b>5731373</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	499600	2100	5,000	5E+05	0	99.9	71-123	0			
<i>Surr: Toluene-d8</i>	5958	0	0	5000	0	119	71-123	0			

<b>MS</b>		Sample ID: <b>19061301-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/21/2019 09:05 AM</b>			
Client ID: <b>AC MCL69 (4.5ft. Bgs)</b>		Run ID: <b>GC9_190620A</b>				SeqNo: <b>5731398</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	729700	2900	6,800	7E+05	0	107	71-123	0			
<i>Surr: Toluene-d8</i>	7475	0	0	6842	0	109	71-123	0			

<b>MSD</b>		Sample ID: <b>19061301-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/21/2019 09:35 AM</b>			
Client ID: <b>AC MCL69 (4.5ft. Bgs)</b>		Run ID: <b>GC9_190620A</b>				SeqNo: <b>5731399</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	723300	2800	6,800	7E+05	0	107	71-123	729700	0.883	30	
<i>Surr: Toluene-d8</i>	7265	0	0	6782	0	107	71-123	7475	2.86	30	

The following samples were analyzed in this batch:

19061301-01A

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



**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **138292** Instrument ID **GC9** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-138292-138292</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/26/2019 06:18 PM</b>			
Client ID:		Run ID: <b>GC9_190626A</b>				SeqNo: <b>5743948</b>		Prep Date: <b>6/26/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2100	5,000								
<i>Surr: Toluene-d8</i>	<i>5210</i>	<i>0</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>104</i>	<i>71-123</i>	<i>0</i>			

<b>LCS</b>		Sample ID: <b>LCS-138292-138292</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/26/2019 05:48 PM</b>			
Client ID:		Run ID: <b>GC9_190626A</b>				SeqNo: <b>5743946</b>		Prep Date: <b>6/26/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	443300	2100	5,000	5E+05	0	88.7	71-123	0			
<i>Surr: Toluene-d8</i>	<i>5804</i>	<i>0</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>116</i>	<i>71-123</i>	<i>0</i>			

<b>MS</b>		Sample ID: <b>19061813-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/27/2019 04:05 AM</b>			
Client ID:		Run ID: <b>GC9_190626A</b>				SeqNo: <b>5743966</b>		Prep Date: <b>6/26/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	466300	1900	4,600	5E+05	0	102	71-123	0			
<i>Surr: Toluene-d8</i>	<i>5396</i>	<i>0</i>	<i>0</i>	<i>4591</i>	<i>0</i>	<i>118</i>	<i>71-123</i>	<i>0</i>			

<b>MSD</b>		Sample ID: <b>19061813-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>6/27/2019 04:34 AM</b>			
Client ID:		Run ID: <b>GC9_190626A</b>				SeqNo: <b>5743967</b>		Prep Date: <b>6/26/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	497900	2200	5,100	5E+05	0	96.9	71-123	466300	6.55	30	
<i>Surr: Toluene-d8</i>	<i>5820</i>	<i>0</i>	<i>0</i>	<i>5139</i>	<i>0</i>	<i>113</i>	<i>71-123</i>	<i>5396</i>	<i>7.56</i>	<i>30</i>	

The following samples were analyzed in this batch:

19061301-02A	19061301-04A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **138379** Instrument ID **ICPMS3** Method: **SW6020A**

<b>DUP</b>		Sample ID: <b>19061291-01ADUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/27/2019 05:41 PM</b>			
Client ID:		Run ID: <b>ICPMS3_190627A</b>				SeqNo: <b>5747616</b>		Prep Date: <b>6/27/2019</b>		DF: <b>10</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	628	0.86	5.0	0	0	0	0-0	675.4	7.27		
Magnesium	48.93	0.068	2.0	0	0	0	0-0	58.67	18.1		

<b>DUP</b>		Sample ID: <b>19061291-01ADUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>6/28/2019 01:30 PM</b>			
Client ID:		Run ID: <b>ICPMS3_190628A</b>				SeqNo: <b>5749265</b>		Prep Date: <b>6/27/2019</b>		DF: <b>100</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	1936	3.4	20	0	0	0	0-0	2422	22.3		

The following samples were analyzed in this batch:

19061301-01A	19061301-02B	19061301-03A
19061301-04B		

Batch ID: **138379** Instrument ID **SAR** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>19061291-01ADUP</b>				Units: <b>none</b>		Analysis Date: <b>6/27/2019</b>			
Client ID:		Run ID: <b>SAR_190627A</b>				SeqNo: <b>5746419</b>		Prep Date: <b>6/27/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	20.03	0.01	0.010	0	0	0		24	18.1	50	

The following samples were analyzed in this batch:

19061301-01A	19061301-02B	19061301-03A
19061301-04B		

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

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **137907** Instrument ID **WETCHEM** Method: **SW9045D**

<b>DUP</b>		Sample ID: <b>19061106-22A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/20/2019 11:45 AM</b>			
Client ID:		Run ID: <b>WETCHEM_190620C</b>				SeqNo: <b>5728089</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.74	0.1	0.10	0	0	0	0-0	8.65	1.04	20	HHH
Temperature	22.2	0.1	0.10	0	0	0		22.3	0.449		HHH

<b>DUP</b>		Sample ID: <b>19061250-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/20/2019 11:45 AM</b>			
Client ID:		Run ID: <b>WETCHEM_190620C</b>				SeqNo: <b>5728092</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.15	0.1	0.10	0	0	0	0-0	8.38	2.78	20	
Temperature	22.5	0.1	0.10	0	0	0		22.5	0		

The following samples were analyzed in this batch:

19061301-01A

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

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **137922**      Instrument ID **WETCHEM**      Method: **SW9045D**

<b>DUP</b>		Sample ID: <b>19061253-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/18/2019 02:45 PM</b>			
Client ID:		Run ID: <b>WETCHEM_190620W</b>				SeqNo: <b>5729396</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.9	0.1	0.10	0	0	0	0-0	7.87	0.38	20	
Temperature	22.5	0.1	0.10	0	0	0		22.6	0.443		

<b>DUP</b>		Sample ID: <b>19061291-02A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>6/18/2019 02:45 PM</b>			
Client ID:		Run ID: <b>WETCHEM_190620W</b>				SeqNo: <b>5729400</b>		Prep Date: <b>6/20/2019</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.77	0.1	0.10	0	0	0	0-0	7.68	1.17	20	
Temperature	22.7	0.1	0.10	0	0	0		22.7	0		

The following samples were analyzed in this batch:

19061301-02A	19061301-03A	19061301-04A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **138379** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>19061291-01A DUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>6/28/2019 03:15 PM</b>			
Client ID:		Run ID: <b>WETCHEM_190628N</b>				SeqNo: <b>5750154</b>		Prep Date: <b>6/27/2019</b>		DF: <b>20</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Satu	17.38	0.011	0.10	0	0	0		17	2.21	50	

The following samples were analyzed in this batch:

19061301-01A	19061301-02B	19061301-03A
19061301-04B		

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

**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

## QC BATCH REPORT

Batch ID: **R263100** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R263100</b>				Units: % of sample			Analysis Date: <b>6/19/2019 04:26 PM</b>		
Client ID:		Run ID: <b>MOIST_190619F</b>				SeqNo: <b>5727956</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

<b>LCS</b>		Sample ID: <b>LCS-R263100</b>				Units: % of sample			Analysis Date: <b>6/19/2019 04:26 PM</b>		
Client ID:		Run ID: <b>MOIST_190619F</b>				SeqNo: <b>5727955</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

<b>DUP</b>		Sample ID: <b>19061290-01A DUP</b>				Units: % of sample			Analysis Date: <b>6/19/2019 04:26 PM</b>		
Client ID:		Run ID: <b>MOIST_190619F</b>				SeqNo: <b>5727953</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.2	0.1	0.10	0	0	0	0-0	11.78	5.05	10	

The following samples were analyzed in this batch:

19061301-01A

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



**Client:** Entrada Consulting Group  
**Work Order:** 19061301  
**Project:** AC McLaughlin 69X Spill

# QC BATCH REPORT

Batch ID: **R263821** Instrument ID **MOIST** Method: **SW3550C**

<b>MBLK</b>		Sample ID: <b>WBLKS-R263821</b>				Units: % of sample			Analysis Date: <b>6/28/2019 10:56 AM</b>			
Client ID:		Run ID: <b>MOIST_190628A</b>				SeqNo: <b>5750691</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	U	0.1	0.10									

<b>LCS</b>		Sample ID: <b>LCS-R263821</b>				Units: % of sample			Analysis Date: <b>6/28/2019 10:56 AM</b>			
Client ID:		Run ID: <b>MOIST_190628A</b>				SeqNo: <b>5750690</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	99.4	0.1	0.10	100	0	99.4	98-102	0				

<b>DUP</b>		Sample ID: <b>19061269-16B DUP</b>				Units: % of sample			Analysis Date: <b>6/28/2019 10:56 AM</b>			
Client ID:		Run ID: <b>MOIST_190628A</b>				SeqNo: <b>5750670</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	19.67	0.1	0.10	0	0	0	0-0	30.15	42.1	10	R	

<b>DUP</b>		Sample ID: <b>19061872-05A DUP</b>				Units: % of sample			Analysis Date: <b>6/28/2019 10:56 AM</b>			
Client ID:		Run ID: <b>MOIST_190628A</b>				SeqNo: <b>5750684</b>			Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	5.53	0.1	0.10	0	0	0	0-0	5.51	0.362	10		

The following samples were analyzed in this batch:

19061301-02A	19061301-04A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



# Chain of Custody Form

Page 1 of 1

COC ID: 123456

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Cincinnati, OH<br>+1 513 733 5336   | <input checked="" 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>+1 281 530 5656            | <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           |

<b>ALS Project Manager:</b>				<b>Work Order #:</b>				<b>9061301</b>									
<b>Customer Information</b>				<b>Project Information</b>				<b>Parameter/Method Request for Analysis</b>									
Purchase Order				Project Name				A TPH (GRO & DRO)									
Work Order				Project Number				B BTEX									
Company Name				Bill To Company				C PAH (See Attached List) CO Table 910									
Send Report To				Invoice Attn				D Electrical Conductivity									
Address				Address				E Sodium Adsorption Ratio									
City/State/Zip				City/State/Zip				F pH									
Phone				Phone				G Metals (See Attached List) CO Table 910									
Fax				Fax				H Arsenic Only									
e-Mail Address				e-Mail Address				I									
e-Mail Address				e-Mail Address				J									
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	AC MCL69 (4.5ft. Bgs)	06/05/19	1200	Soil	8	2	X	X		X	X	X					
2	ACMCL69X-SS1	06/17/19	1215	Soil	8	2	X	X		X	X	X					
3	ACMCL69X-BG1	06/17/19	1220	Soil	8	1				X	X	X					
4	ACMCL69X-SS2	06/17/19		Soil	8	2	X	X		X	X	X					
5																	
6																	
7																	
8																	
9																	
10																	

<b>Sampler(s): Please Print &amp; Sign</b> Tim Dobransky			<b>Shipment Method:</b> FedEx		<b>Required Turnaround Time:</b> <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			<b>Results Due Date:</b>		
<b>Relinquished by:</b> 		<b>Date:</b> 6/17/19		<b>Time:</b> 1830		<b>Received by:</b> 		<b>Notes:</b> Chevron Pricing Applies - Per Bruce Schlatter		
<b>Relinquished by:</b> 		<b>Date:</b> 6-18-19		<b>Time:</b> 1830		<b>Received by (Laboratory):</b> 		<b>QC Package: (Check Box Below)</b>		
<b>Logged by (Laboratory):</b> DFS		<b>Date:</b> 6/19/19		<b>Time:</b> 1515		<b>Checked by (Laboratory):</b> 		<b>Cooler Temp.</b> 3.82		
<b>Preservative Key:</b> 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-3035								<b>Other:</b>		

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: **19-Jun-19 09:30**

Work Order: **19061301**

Received by: **DS**

Checklist completed by Diane Shaw 19-Jun-19  
eSignature Date

Reviewed by: Chad Whelton 19-Jun-19  
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 type="checkbox"/>	No <input checked="" 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>3.8/3.8 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>6/19/2019 3:22:33 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: