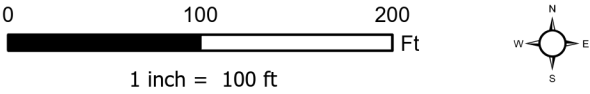





Legend

● Spill Origin    ● Soil Sample Location



Project No: 018-065	<b>FV Larson B-11 Spill</b> Chevron USA, Inc. Rio Blanco County, Colorado L4 Section 36 T2N R102W L6 Section 36 T2N R102W	 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB			1
Date: 5/15/2020			

**Table 1**  
**FV Larson B11 Spill**  
**Soil Data Summary**

SAMPLE SUMMARY	
Location Description	FV Larson B11
Sample Type	Grab Soil

LABORATORY DATA SUMMARY								
Sample ID	FVLARB11-SS1	FVLARB11-SS2	FVLARB11-SS3	FVLARB11-BG1	FVLARB11-BG2	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS	
Depth	0-6"	0-6"	0-6"	0-6"	0-6"			
Sample Date	3/31/2020	3/31/2020	3/31/2020	3/31/2020	3/31/2020			
Analytical Parameters								
TPH								
TPH Gasoline Range Organics	<2.6	18	<2.5	NT	NT	500	mg/kg	
TPH Diesel Range Organics	15	11	10 J	NT	NT			
BTEX								
Benzene	<0.0063	<0.0066	<0.0060	NT	NT	0.17	mg/kg	
Toluene	<0.010	<0.011	<0.0096	NT	NT	85	mg/kg	
Ethylbenzene	<0.0078	<0.0081	<0.0074	NT	NT	100	mg/kg	
Total Xylene	<0.049	<0.051	<0.047	NT	NT	175	mg/kg	
Metals								
Arsenic	3.3	4.8	5.1	5.7	6.5	0.39	mg/kg	
Barium	100	280	170	210	NT	15,000	mg/kg	
Cadmium	0.14 J	0.17	0.19	0.21	NT	70	mg/kg	
Chromium	5.6	6.8	7.9	8.3	NT	NA	mg/kg	
Copper	4.7	6.8	6.9	8.5	NT	3,100	mg/kg	
Lead	6.0	8.9	9.3	21	NT	400	mg/kg	
Mercury	0.020	0.029	0.025	0.051	NT	23	mg/kg	
Nickel	6.2	8.3	8.2	9.7	NT	1,600	mg/kg	
Selenium	<0.35	0.38	0.44	0.37	NT	390	mg/kg	
Silver	<0.050	<0.049	<0.048	0.053	NT	390	mg/kg	
Zinc	21	28	30	38	NT	23,000	mg/kg	
SAR Metals Analysis								
Calcium	48	51	32	99	NT	NA	mg/L	
Magnesium	5.3	4.6	4.9	8.1	NT	NA	mg/L	
Sodium	7.0	6.8	4.3	6.3	NT	NA	mg/L	
Sodium Adsorption Ratio	0.26	0.25	0.19	0.16	NT	<12	ratio	
Polynuclear Aromatic Hydrocarbons								
Acenaphthene	<0.00085	<0.00085	<0.00090	<0.0010	NT	1,000	mg/kg	
Anthracene	<0.0015	<0.0015	<0.0016	<0.0017	NT	1,000	mg/kg	
Benzo(a)anthracene	0.0042 J	0.0061	<0.0019	<0.0021	NT	0.22	mg/kg	
Benzo(a)pyrene	<0.0012	0.0028 J	<0.0013	<0.0014	NT	0.022	mg/kg	
Benzo(b)fluoranthene	0.0029 J	0.0035 J	<0.0011	<0.0012	NT	0.22	mg/kg	
Benzo(k)fluoranthene	<0.0013	<0.0013	<0.0014	<0.0015	NT	2.2	mg/kg	
Chrysene	0.0026 J	0.0042 J	<0.00096	<0.0011	NT	22	mg/kg	
Dibenzo(a,h)anthracene	<0.0010	<0.0010	<0.0011	<0.0012	NT	0.022	mg/kg	
Fluoranthene	0.0080	0.0190	<0.00086	<0.00095	NT	1,000	mg/kg	
Fluorene	<0.0015	<0.0014	<0.0015	<0.0017	NT	1,000	mg/kg	
Indeno(1,2,3-cd)pyrene	0.0018 J	<0.0016	<0.0017	<0.0019	NT	0.22	mg/kg	
Napthalene	<0.0019	<0.0019	<0.0020	0.0050 J	NT	23	mg/kg	
Pyrene	0.0059	0.013	<0.00077	<0.00085	NT	1,000	mg/kg	
General Chemistry								
Chromium, Hexavalent	<0.88	<0.92	<0.95	1.1 J	NT	23	mg/kg	
Chromium, Trivalent	5.6	6.8	7.9	7.3	NT	120,000	mg/kg	
Specific Conductivity	0.40	0.34	0.21	0.55	NT	<4 or 2 x the background	mmhos/cm	
pH	8.07	8.12	8.02	7.78	NT	6-9	su	

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
H - analyzed outside of holding time  
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





10-Apr-2020

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

Re: **FV Larson B1/Spill**

Work Order: **20040273**

Dear Tim,

ALS Environmental received 5 samples on 03-Apr-2020 09:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 30.

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

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

Sincerely,

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

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Work Order:** 20040273

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**Work Order Sample Summary**

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<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>
20040273-01	FVLARB11-SS1	Soil		3/31/2020 14:00	4/3/2020 09:00	<input type="checkbox"/>
20040273-02	FVLARB11-SS2	Soil		3/31/2020 14:10	4/3/2020 09:00	<input type="checkbox"/>
20040273-03	FVLARB11-SS3	Soil		3/31/2020 14:20	4/3/2020 09:00	<input type="checkbox"/>
20040273-04	FVLARB11-BG1	Soil		3/31/2020 14:30	4/3/2020 09:00	<input type="checkbox"/>
20040273-05	FVLARB11-BG2	Soil		3/31/2020 14:40	4/3/2020 09:00	<input type="checkbox"/>

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**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Work Order:** 20040273

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**Case Narrative**

Batch 154368, Method ICP\_6020\_S, Sample 20040273-03A MS/MSD: The MS/MSD recovery was outside of the control limit for Barium; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Batch 154368, Method ICP\_6020\_S, Sample 20040273-03A MS: The MS recoveries were outside of the control limits for Copper and Silver. However, the MSD recoveries and the RPDs between the MS and MSD were in control. No qualification is required.

Batch 154368, Method ICP\_6020\_S, Sample 20040273-03A MSD: The MSD recovery was outside of the control limit for Zinc; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Batch 154368, Method ICP\_6020\_S, Sample 20040273-03A MSD: The MSD recoveries were outside of the control limits for Chromium and Lead. However, the MS recoveries and the RPDs between the MS and MSD were in control. No qualification is required.

Batch 154378, Method CR6\_7196\_S, Sample 20040273-01A MS/MSD: The MS/MSD recovery was below the lower control limit for Hexavalent Chromium. The corresponding result in the parent sample may be biased low.

<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	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

---

s.u.      Standard Units

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS1  
**Collection Date:** 3/31/2020 02:00 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW3550 / 4/7/20		Analyst: <b>AK</b>
<b>DRO (C10-C28)</b>	<b>15</b>		<b>2.9</b>	<b>10</b>	<b>mg/Kg-dry</b>	1	4/8/2020 05:20
Surr: 4-Terphenyl-d14	85.3			33-111	%REC	1	4/8/2020 05:20
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>AK</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>2.6</b>	<b>6.1</b>	<b>mg/Kg</b>	1	4/7/2020 03:12
Surr: Toluene-d8	95.2			71-123	%REC	1	4/7/2020 03:12
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.020</b>		<b>0.013</b>	<b>0.019</b>	<b>mg/Kg-dry</b>	1	4/9/2020 08:02
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>3.3</b>		<b>0.045</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Barium</b>	<b>100</b>		<b>0.35</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Cadmium</b>	<b>0.14</b>	J	<b>0.023</b>	<b>0.15</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Chromium</b>	<b>5.6</b>		<b>0.17</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Copper</b>	<b>4.7</b>		<b>0.38</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Lead</b>	<b>6.0</b>		<b>0.18</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>Nickel</b>	<b>6.2</b>		<b>0.20</b>	<b>0.38</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
Selenium	U		0.35	0.38	mg/Kg-dry	1	4/8/2020 21:39
Silver	U		0.050	0.38	mg/Kg-dry	1	4/8/2020 21:39
<b>Zinc</b>	<b>21</b>		<b>0.74</b>	<b>0.75</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:39
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Calcium</b>	<b>48</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	4/9/2020 16:31
<b>Magnesium</b>	<b>5.3</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:31
<b>Sodium</b>	<b>7.0</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:31
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>0.26</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/6/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00085	0.0044	mg/Kg-dry	1	4/7/2020 17:46
Anthracene	U		0.0015	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Benzo(a)anthracene</b>	<b>0.0042</b>	J	<b>0.0018</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46
Benzo(a)pyrene	U		0.0012	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Benzo(b)fluoranthene</b>	<b>0.0029</b>	J	<b>0.0011</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46
Benzo(k)fluoranthene	U		0.0013	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Chrysene</b>	<b>0.0026</b>	J	<b>0.00090</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46
Dibenzo(a,h)anthracene	U		0.0010	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Fluoranthene</b>	<b>0.0080</b>		<b>0.00081</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46

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



# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS1  
**Collection Date:** 3/31/2020 02:00 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0015	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.0018</b>	J	<b>0.0016</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46
Naphthalene	U		0.0019	0.0044	mg/Kg-dry	1	4/7/2020 17:46
<b>Pyrene</b>	<b>0.0059</b>		<b>0.00073</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 17:46
Surr: 2-Fluorobiphenyl	106			20-140	%REC	1	4/7/2020 17:46
Surr: 4-Terphenyl-d14	92.7			22-172	%REC	1	4/7/2020 17:46
Surr: Nitrobenzene-d5	83.9			28-140	%REC	1	4/7/2020 17:46
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>MF</b>
Benzene	U		0.0063	0.037	mg/Kg-dry	1	4/7/2020 01:18
Ethylbenzene	U		0.0078	0.037	mg/Kg-dry	1	4/7/2020 01:18
m,p-Xylene	U		0.049	0.074	mg/Kg-dry	1	4/7/2020 01:18
o-Xylene	U		0.014	0.037	mg/Kg-dry	1	4/7/2020 01:18
Toluene	U		0.010	0.037	mg/Kg-dry	1	4/7/2020 01:18
Xylenes, Total	U		0.049	0.11	mg/Kg-dry	1	4/7/2020 01:18
Surr: 1,2-Dichloroethane-d4	106			70-130	%REC	1	4/7/2020 01:18
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	4/7/2020 01:18
Surr: Dibromofluoromethane	100			70-130	%REC	1	4/7/2020 01:18
Surr: Toluene-d8	95.8			70-130	%REC	1	4/7/2020 01:18
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	<b>0.40</b>		<b>0.011</b>	<b>0.10</b>	mmhos/cm @25°	20	4/9/2020 16:05
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JZB</b>
Chromium, Trivalent	<b>5.6</b>		<b>0.90</b>	<b>1.1</b>	mg/Kg-dry	1	4/9/2020 13:03
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 4/7/20		Analyst: <b>RZM</b>
Chromium, Hexavalent	U		0.88	1.0	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	<b>6.0</b>		<b>0.10</b>	<b>0.10</b>	% of sample	1	4/6/2020 11:25
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 4/3/20		Analyst: <b>DVD</b>
pH	<b>8.07</b>		<b>0.10</b>	<b>0.100</b>	s.u.	1	4/4/2020 08:59
Temperature	<b>20.1</b>		<b>0.10</b>	<b>0.100</b>	°C	1	4/4/2020 08:59

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS2  
**Collection Date:** 3/31/2020 02:10 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW3550 / 4/7/20		Analyst: <b>AK</b>
<b>DRO (C10-C28)</b>	<b>11</b>		<b>3.0</b>	<b>10</b>	<b>mg/Kg-dry</b>	1	4/8/2020 05:59
Surr: 4-Terphenyl-d14	77.5			33-111	%REC	1	4/8/2020 05:59
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>AK</b>
<b>GRO (C6-C10)</b>	<b>18</b>		<b>2.7</b>	<b>6.4</b>	<b>mg/Kg</b>	1	4/7/2020 04:22
Surr: Toluene-d8	100			71-123	%REC	1	4/7/2020 04:22
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.029</b>		<b>0.012</b>	<b>0.017</b>	<b>mg/Kg-dry</b>	1	4/9/2020 11:52
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>4.8</b>		<b>0.045</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Barium</b>	<b>280</b>		<b>3.4</b>	<b>3.7</b>	<b>mg/Kg-dry</b>	10	4/9/2020 15:55
<b>Cadmium</b>	<b>0.17</b>		<b>0.022</b>	<b>0.15</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Chromium</b>	<b>6.8</b>		<b>0.16</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Copper</b>	<b>6.8</b>		<b>0.37</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Lead</b>	<b>8.9</b>		<b>0.18</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Nickel</b>	<b>8.3</b>		<b>0.19</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>Selenium</b>	<b>0.38</b>		<b>0.34</b>	<b>0.37</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
Silver	U		0.049	0.37	mg/Kg-dry	1	4/8/2020 21:41
<b>Zinc</b>	<b>28</b>		<b>0.73</b>	<b>0.75</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:41
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Calcium</b>	<b>51</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	4/9/2020 16:34
<b>Magnesium</b>	<b>4.6</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:34
<b>Sodium</b>	<b>6.8</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:34
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>0.25</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/6/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00085	0.0044	mg/Kg-dry	1	4/7/2020 18:02
Anthracene	U		0.0015	0.0044	mg/Kg-dry	1	4/7/2020 18:02
<b>Benzo(a)anthracene</b>	<b>0.0061</b>		<b>0.0018</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02
<b>Benzo(a)pyrene</b>	<b>0.0028</b>	J	<b>0.0012</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02
<b>Benzo(b)fluoranthene</b>	<b>0.0035</b>	J	<b>0.0010</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02
Benzo(k)fluoranthene	U		0.0013	0.0044	mg/Kg-dry	1	4/7/2020 18:02
<b>Chrysene</b>	<b>0.0042</b>	J	<b>0.00090</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02
Dibenzo(a,h)anthracene	U		0.0010	0.0044	mg/Kg-dry	1	4/7/2020 18:02
<b>Fluoranthene</b>	<b>0.019</b>		<b>0.00081</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS2  
**Collection Date:** 3/31/2020 02:10 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0014	0.0044	mg/Kg-dry	1	4/7/2020 18:02
Indeno(1,2,3-cd)pyrene	U		0.0016	0.0044	mg/Kg-dry	1	4/7/2020 18:02
Naphthalene	U		0.0019	0.0044	mg/Kg-dry	1	4/7/2020 18:02
<b>Pyrene</b>	<b>0.013</b>		<b>0.00072</b>	<b>0.0044</b>	<b>mg/Kg-dry</b>	1	4/7/2020 18:02
Surr: 2-Fluorobiphenyl	97.5			20-140	%REC	1	4/7/2020 18:02
Surr: 4-Terphenyl-d14	89.6			22-172	%REC	1	4/7/2020 18:02
Surr: Nitrobenzene-d5	75.7			28-140	%REC	1	4/7/2020 18:02
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>MF</b>
Benzene	U		0.0066	0.039	mg/Kg-dry	1	4/7/2020 01:34
Ethylbenzene	U		0.0081	0.039	mg/Kg-dry	1	4/7/2020 01:34
m,p-Xylene	U		0.051	0.077	mg/Kg-dry	1	4/7/2020 01:34
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/7/2020 01:34
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/7/2020 01:34
Xylenes, Total	U		0.051	0.12	mg/Kg-dry	1	4/7/2020 01:34
Surr: 1,2-Dichloroethane-d4	96.7			70-130	%REC	1	4/7/2020 01:34
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	4/7/2020 01:34
Surr: Dibromofluoromethane	94.5			70-130	%REC	1	4/7/2020 01:34
Surr: Toluene-d8	100			70-130	%REC	1	4/7/2020 01:34
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	<b>0.34</b>		<b>0.011</b>	<b>0.10</b>	mmhos/cm @25°	20	4/9/2020 16:05
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JZB</b>
Chromium, Trivalent	<b>6.8</b>		<b>0.92</b>	<b>1.1</b>	mg/Kg-dry	1	4/9/2020 13:03
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 4/7/20		Analyst: <b>RZM</b>
Chromium, Hexavalent	U		0.92	1.1	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	<b>8.3</b>		<b>0.10</b>	<b>0.10</b>	% of sample	1	4/6/2020 11:25
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 4/3/20		Analyst: <b>DVD</b>
pH	<b>8.12</b>		<b>0.10</b>	<b>0.100</b>	s.u.	1	4/4/2020 08:59
Temperature	<b>19.8</b>		<b>0.10</b>	<b>0.100</b>	°C	1	4/4/2020 08:59

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS3  
**Collection Date:** 3/31/2020 02:20 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW3550 / 4/7/20		Analyst: <b>AK</b>
<b>DRO (C10-C28)</b>	<b>10</b>	J	<b>3.1</b>	<b>11</b>	<b>mg/Kg-dry</b>	1	4/8/2020 06:37
Surr: 4-Terphenyl-d14	85.1			33-111	%REC	1	4/8/2020 06:37
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>AK</b>
<b>GRO (C6-C10)</b>		U	2.5	5.9	mg/Kg	1	4/7/2020 04:45
Surr: Toluene-d8	102			71-123	%REC	1	4/7/2020 04:45
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.025</b>		<b>0.012</b>	<b>0.018</b>	<b>mg/Kg-dry</b>	1	4/9/2020 11:54
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>5.1</b>		<b>0.043</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Barium</b>	<b>170</b>		<b>3.3</b>	<b>3.6</b>	<b>mg/Kg-dry</b>	10	4/9/2020 15:56
<b>Cadmium</b>	<b>0.19</b>		<b>0.022</b>	<b>0.14</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Chromium</b>	<b>7.9</b>		<b>0.16</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Copper</b>	<b>6.9</b>		<b>0.36</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Lead</b>	<b>9.3</b>		<b>0.17</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Nickel</b>	<b>8.2</b>		<b>0.19</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>Selenium</b>	<b>0.44</b>		<b>0.33</b>	<b>0.36</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
Silver	U		0.048	0.36	mg/Kg-dry	1	4/8/2020 21:43
<b>Zinc</b>	<b>30</b>		<b>0.71</b>	<b>0.72</b>	<b>mg/Kg-dry</b>	1	4/8/2020 21:43
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Calcium</b>	<b>32</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	4/9/2020 16:36
<b>Magnesium</b>	<b>4.9</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:36
<b>Sodium</b>	<b>4.3</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	4/9/2020 16:36
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>0.19</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/6/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00090	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Anthracene	U		0.0016	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Benzo(a)anthracene	U		0.0019	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Benzo(a)pyrene	U		0.0013	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Benzo(b)fluoranthene	U		0.0011	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Benzo(k)fluoranthene	U		0.0014	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Chrysene	U		0.00096	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Dibenzo(a,h)anthracene	U		0.0011	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Fluoranthene	U		0.00086	0.0047	mg/Kg-dry	1	4/7/2020 18:17

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-SS3  
**Collection Date:** 3/31/2020 02:20 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0015	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Naphthalene	U		0.0020	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Pyrene	U		0.00077	0.0047	mg/Kg-dry	1	4/7/2020 18:17
Surr: 2-Fluorobiphenyl	102			20-140	%REC	1	4/7/2020 18:17
Surr: 4-Terphenyl-d14	93.4			22-172	%REC	1	4/7/2020 18:17
Surr: Nitrobenzene-d5	79.4			28-140	%REC	1	4/7/2020 18:17
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>MF</b>
Benzene	U		0.0060	0.035	mg/Kg-dry	1	4/7/2020 01:50
Ethylbenzene	U		0.0074	0.035	mg/Kg-dry	1	4/7/2020 01:50
m,p-Xylene	U		0.047	0.071	mg/Kg-dry	1	4/7/2020 01:50
o-Xylene	U		0.014	0.035	mg/Kg-dry	1	4/7/2020 01:50
Toluene	U		0.0096	0.035	mg/Kg-dry	1	4/7/2020 01:50
Xylenes, Total	U		0.047	0.11	mg/Kg-dry	1	4/7/2020 01:50
Surr: 1,2-Dichloroethane-d4	95.0			70-130	%REC	1	4/7/2020 01:50
Surr: 4-Bromofluorobenzene	105			70-130	%REC	1	4/7/2020 01:50
Surr: Dibromofluoromethane	96.5			70-130	%REC	1	4/7/2020 01:50
Surr: Toluene-d8	97.5			70-130	%REC	1	4/7/2020 01:50
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 4/9/20		Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	0.21		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JZB</b>
Chromium, Trivalent	7.9		0.96	1.1	mg/Kg-dry	1	4/9/2020 13:03
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 4/7/20		Analyst: <b>RZM</b>
Chromium, Hexavalent	U		0.95	1.1	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	12		0.10	0.10	% of sample	1	4/6/2020 11:25
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 4/3/20		Analyst: <b>DVD</b>
pH	8.02		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.7		0.10	0.100	°C	1	4/4/2020 08:59

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

# ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group  
Project: FV Larson B1/Spill  
Sample ID: FVLARB11-BG1  
Collection Date: 3/31/2020 02:30 PM

Work Order: 20040273  
Lab ID: 20040273-04  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
Mercury	0.051		0.015	0.022	mg/Kg-dry	1	4/9/2020 11:56
<b>METALS BY ICP-MS</b>							
Arsenic	5.7		0.048	0.40	mg/Kg-dry	1	4/8/2020 21:54
Barium	210		3.7	4.0	mg/Kg-dry	10	4/9/2020 16:13
Boron	8.0		1.5	1.6	mg/Kg-dry	1	4/8/2020 21:54
Cadmium	0.21		0.024	0.16	mg/Kg-dry	1	4/8/2020 21:54
Chromium	8.3		0.18	0.40	mg/Kg-dry	1	4/8/2020 21:54
Copper	8.5		0.40	0.40	mg/Kg-dry	1	4/8/2020 21:54
Lead	21		0.19	0.40	mg/Kg-dry	1	4/8/2020 21:54
Nickel	9.7		0.21	0.40	mg/Kg-dry	1	4/8/2020 21:54
Selenium	U		0.37	0.40	mg/Kg-dry	1	4/8/2020 21:54
Silver	U		0.053	0.40	mg/Kg-dry	1	4/8/2020 21:54
Zinc	38		0.78	0.80	mg/Kg-dry	1	4/8/2020 21:54
<b>SOLUBLE CATIONS FOR SAR</b>							
Calcium	99		2.5	5.0	mg/L	10	4/9/2020 16:37
Magnesium	8.1		0.50	2.0	mg/L	10	4/9/2020 16:37
Sodium	6.3		0.45	2.0	mg/L	10	4/9/2020 16:37
<b>SODIUM ADSORPTION RATIO</b>							
Sodium Adsorption Ratio	0.16		0.010	0.010	none	1	4/9/2020
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
Electrical Conductivity @ Saturation	0.55		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
<b>CHROMIUM, TRIVALENT</b>							
Chromium, Trivalent	7.3		0.98	1.2	mg/Kg-dry	1	4/9/2020 13:03
<b>CHROMIUM, HEXAVALENT</b>							
Chromium, Hexavalent	1.1	J	0.97	1.1	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>							
Moisture	13		0.10	0.10	% of sample	1	4/6/2020 11:25
<b>PH</b>							
pH	7.78		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.7		0.10	0.100	°C	1	4/4/2020 08:59

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



## ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** FV Larson B1/Spill  
**Sample ID:** FVLARB11-BG2  
**Collection Date:** 3/31/2020 02:40 PM

**Work Order:** 20040273  
**Lab ID:** 20040273-05  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
<b>METALS ANALYSIS BY ICP</b>			Method: <b>SW6010D</b>		Prep: SW3050B / 4/7/20		Analyst: <b>ABL</b>
Arsenic	6.5		0.11	0.44	mg/Kg-dry	1	4/7/2020 19:44
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	22		0.10	0.10	% of sample	1	4/6/2020 11:25

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson BI/Spill

**QC BATCH REPORT**

Batch ID: **154303** Instrument ID **GC8** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>DBLKS1-154303-154303</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 08:16 PM</b>		
Client ID:		Run ID: <b>GC8_200407A</b>				SeqNo: <b>6345509</b>		Prep Date: <b>4/7/2020</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)	6.252	10								J
Surr: 4-Terphenyl-d14	2.772	0	3.33	0	83.2	33-111	0			

<b>LCS</b>		Sample ID: <b>DLCSS1-154303-154303</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 08:55 PM</b>		
Client ID:		Run ID: <b>GC8_200407A</b>				SeqNo: <b>6345510</b>		Prep Date: <b>4/7/2020</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)	343	10	333	0	103	80-121	0			
Surr: 4-Terphenyl-d14	2.514	0	3.33	0	75.5	33-111	0			

<b>MS</b>		Sample ID: <b>20040272-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 09:34 PM</b>		
Client ID:		Run ID: <b>GC8_200407A</b>				SeqNo: <b>6345511</b>		Prep Date: <b>4/7/2020</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	518.1	99	328.7	147.8	113	80-121	0			
Surr: 4-Terphenyl-d14	1.671	0	3.287	0	50.8	33-111	0			

<b>MSD</b>		Sample ID: <b>20040272-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 10:13 PM</b>		
Client ID:		Run ID: <b>GC8_200407A</b>				SeqNo: <b>6345512</b>		Prep Date: <b>4/7/2020</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	503.8	99	330.5	147.8	108	80-121	518.1	2.79	30	
Surr: 4-Terphenyl-d14	1.858	0	3.305	0	56.2	33-111	1.671	10.6	30	

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
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Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154259** Instrument ID **GC10** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-154259-154259</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/6/2020 10:57 PM</b>		
Client ID:		Run ID: <b>GC10_200406A</b>				SeqNo: <b>6343942</b>		Prep Date: <b>4/6/2020</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)	U	5,000								
Surr: Toluene-d8	4952	0	5000	0	99	71-123	0			

<b>LCS</b>		Sample ID: <b>LCS-154259-154259</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/6/2020 10:34 PM</b>		
Client ID:		Run ID: <b>GC10_200406A</b>				SeqNo: <b>6343941</b>		Prep Date: <b>4/6/2020</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)	238000	5,000	250000	0	95.2	71-123	0			
Surr: Toluene-d8	5245	0	5000	0	105	71-123	0			

<b>MS</b>		Sample ID: <b>20040277-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/7/2020 08:13 AM</b>		
Client ID:		Run ID: <b>GC10_200406A</b>				SeqNo: <b>6343964</b>		Prep Date: <b>4/6/2020</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)	522900	7,000	348000	0	150	71-123	0			S
Surr: Toluene-d8	8333	0	6959	0	120	71-123	0			

<b>MSD</b>		Sample ID: <b>20040277-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/7/2020 08:37 AM</b>		
Client ID:		Run ID: <b>GC10_200406A</b>				SeqNo: <b>6343965</b>		Prep Date: <b>4/6/2020</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)	395100	6,900	347000	0	114	71-123	522900	27.8	30	
Surr: Toluene-d8	7156	0	6940	0	103	71-123	8333	15.2	30	

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154360** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-154360-154360</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 07:24 AM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6346610</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.017

<b>LCS</b>		Sample ID: <b>LCS-154360-154360</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 07:26 AM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6346611</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1948 0.020 0.1635 0 119 80-120 0

<b>MS</b>		Sample ID: <b>20040274-03AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:04 PM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6347270</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1547 0.016 0.1309 0.01374 108 75-125 0

<b>MSD</b>		Sample ID: <b>20040274-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:06 PM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6347271</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1656 0.016 0.1297 0.01374 117 75-125 0.1547 6.83 35

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
20040273-04A		

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

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154308** Instrument ID **ICP2** Method: **SW6010D**

<b>MBLK</b>		Sample ID: <b>MBLK-154308-154308</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 06:49 PM</b>		
Client ID:		Run ID: <b>ICP2_200407A</b>				SeqNo: <b>6345074</b>		Prep Date: <b>4/7/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic U 0.23

<b>LCS</b>		Sample ID: <b>LCS-154308-154308</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 07:04 PM</b>		
Client ID:		Run ID: <b>ICP2_200407A</b>				SeqNo: <b>6345077</b>		Prep Date: <b>4/7/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 4.274 0.23 4.651 0 91.9 80-120 0

<b>MS</b>		Sample ID: <b>20040071-01AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 07:14 PM</b>		
Client ID:		Run ID: <b>ICP2_200407A</b>				SeqNo: <b>6345079</b>		Prep Date: <b>4/7/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 9.616 0.36 7.133 3.629 83.9 75-125 0

<b>MSD</b>		Sample ID: <b>20040071-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/7/2020 07:19 PM</b>		
Client ID:		Run ID: <b>ICP2_200407A</b>				SeqNo: <b>6345080</b>		Prep Date: <b>4/7/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Arsenic 9.431 0.35 7.082 3.629 81.9 75-125 9.616 1.94 20

The following samples were analyzed in this batch:

20040273-05A

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154368**      Instrument ID **ICPMS3**      Method: **SW6020B**

<b>MBLK</b>		Sample ID: <b>MBLK-154368-154368</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 08:29 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346206</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.20								
Barium	U	0.20								
Boron	U	0.78								
Cadmium	U	0.078								
Chromium	U	0.20								
Copper	U	0.20								
Lead	U	0.20								
Nickel	U	0.20								
Selenium	U	0.20								
Silver	U	0.20								
Zinc	U	0.39								

<b>LCS</b>		Sample ID: <b>LCS-154368-154368</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 08:31 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346207</b>		Prep Date: <b>4/8/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.041	0.24	4.789	0	105	80-120	0			
Barium	5.198	0.24	4.789	0	109	80-120	0			
Boron	24.9	0.96	23.95	0	104	80-120	0			
Cadmium	5.095	0.096	4.789	0	106	80-120	0			
Chromium	5.125	0.24	4.789	0	107	80-120	0			
Copper	5.162	0.24	4.789	0	108	80-120	0			
Lead	5.105	0.24	4.789	0	107	80-120	0			
Nickel	4.984	0.24	4.789	0	104	80-120	0			
Selenium	5.103	0.24	4.789	0	107	80-120	0			
Silver	5.194	0.24	4.789	0	108	80-120	0			
Zinc	5.146	0.48	4.789	0	107	80-120	0			

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



Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson BI/Spill

## QC BATCH REPORT

Batch ID: 154368 Instrument ID ICPMS3 Method: SW6020B

MS				Sample ID: 20040273-03AMS			Units: mg/Kg		Analysis Date: 4/8/2020 09:50 PM	
Client ID: FVLARB11-SS3				Run ID: ICPMS3_200408B			SeqNo: 6346251		Prep Date: 4/8/2020	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.542	0.32	6.353	4.53	78.9	75-125	0			
Boron	37.38	1.3	31.77	5.787	99.4	75-125	0			
Cadmium	5.091	0.13	6.353	0.1689	77.5	75-125	0			
Chromium	13.89	0.32	6.353	6.957	109	75-125	0			
Copper	10.7	0.32	6.353	6.118	72.2	75-125	0			S
Lead	14.49	0.32	6.353	8.211	98.9	75-125	0			
Nickel	12.43	0.32	6.353	7.193	82.4	75-125	0			
Selenium	5.579	0.32	6.353	0.3903	81.7	75-125	0			
Silver	4.734	0.32	6.353	0.03602	73.9	75-125	0			S
Zinc	32.76	0.64	6.353	26.62	96.6	75-125	0			O

MS				Sample ID: 20040273-03AMS			Units: mg/Kg		Analysis Date: 4/9/2020 03:58 PM	
Client ID: FVLARB11-SS3				Run ID: ICPMS3_200409B			SeqNo: 6349279		Prep Date: 4/8/2020	
							DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	165.6	3.2	6.353	149.3	256	75-125	0			SO

MSD				Sample ID: 20040273-03AMSD			Units: mg/Kg		Analysis Date: 4/8/2020 09:52 PM	
Client ID: FVLARB11-SS3				Run ID: ICPMS3_200408B			SeqNo: 6346252		Prep Date: 4/8/2020	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.26	0.32	6.345	4.53	90.3	75-125	9.542	7.24	20	
Boron	41.22	1.3	31.73	5.787	112	75-125	37.38	9.78	20	
Cadmium	5.459	0.13	6.345	0.1689	83.4	75-125	5.091	6.98	20	
Chromium	15.88	0.32	6.345	6.957	141	75-125	13.89	13.4	20	S
Copper	12.55	0.32	6.345	6.118	101	75-125	10.7	15.9	20	
Lead	17.1	0.32	6.345	8.211	140	75-125	14.49	16.5	20	S
Nickel	14.5	0.32	6.345	7.193	115	75-125	12.43	15.4	20	
Selenium	6.168	0.32	6.345	0.3903	91.1	75-125	5.579	10	20	
Silver	5.162	0.32	6.345	0.03602	80.8	75-125	4.734	8.65	20	
Zinc	40.28	0.63	6.345	26.62	215	75-125	32.76	20.6	20	SRO

MSD				Sample ID: 20040273-03AMSD			Units: mg/Kg		Analysis Date: 4/9/2020 04:00 PM	
Client ID: FVLARB11-SS3				Run ID: ICPMS3_200409B			SeqNo: 6349280		Prep Date: 4/8/2020	
							DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	146.5	3.2	6.345	149.3	-44.7	75-125	165.6	12.3	20	SO

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
20040273-04A		

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154416** Instrument ID **ICPMS4** Method: **SW6020B**

DUP		Sample ID: <b>20040273-01BDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/9/2020 04:33 PM</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>ICPMS4_200409A</b>				SeqNo: <b>6348311</b>		Prep Date: <b>4/9/2020</b>		DF: <b>10</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	37.93	5.0	0	0	0	0-0	48.39	24.2		
Magnesium	4.639	2.0	0	0	0	0-0	5.318	13.7		
Sodium	6.057	2.0	0	0	0	0-0	7.039	15		

The following samples were analyzed in this batch:

20040273-01B	20040273-02B	20040273-03B
20040273-04B		

Batch ID: **154416** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: <b>20040273-01BDUP</b>				Units: <b>none</b>		Analysis Date: <b>4/9/2020</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>SAR_200409A</b>				SeqNo: <b>6348389</b>		Prep Date: <b>4/9/2020</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	0.247	0.010	0	0	0		0.2564	3.71	50	

The following samples were analyzed in this batch:

20040273-01B	20040273-02B	20040273-03B
20040273-04B		

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

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154266** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK				Sample ID: <b>SBLKS1-154266-154266</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/7/2020 12:51 PM</b>		
Client ID:			Run ID: <b>SVMS6_200407A</b>			SeqNo: <b>6343661</b>		Prep Date: <b>4/6/2020</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	U	4.2									
Anthracene	U	4.2									
Benzo(a)anthracene	U	4.2									
Benzo(a)pyrene	U	4.2									
Benzo(b)fluoranthene	U	4.2									
Benzo(k)fluoranthene	U	4.2									
Chrysene	U	4.2									
Dibenzo(a,h)anthracene	U	4.2									
Fluoranthene	U	4.2									
Fluorene	U	4.2									
Indeno(1,2,3-cd)pyrene	U	4.2									
Naphthalene	U	4.2									
Pyrene	U	4.2									
<i>Surr: 2-Fluorobiphenyl</i>	<i>1367</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>41</i>	<i>20-140</i>	<i>0</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3049</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>91.5</i>	<i>22-172</i>	<i>0</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>2394</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>71.8</i>	<i>28-140</i>	<i>0</i>				

LCS				Sample ID: <b>SLCSS1-154266-154266</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>4/7/2020 01:06 PM</b>		
Client ID:			Run ID: <b>SVMS6_200407A</b>			SeqNo: <b>6343662</b>		Prep Date: <b>4/6/2020</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	891.3	4.2	1333	0	66.9	40-140	0				
Anthracene	1031	4.2	1333	0	77.3	40-140	0				
Benzo(a)anthracene	995.4	4.2	1333	0	74.7	40-140	0				
Benzo(a)pyrene	955.4	4.2	1333	0	71.7	40-140	0				
Benzo(b)fluoranthene	940.1	4.2	1333	0	70.5	40-140	0				
Benzo(k)fluoranthene	934	4.2	1333	0	70.1	40-140	0				
Chrysene	997.3	4.2	1333	0	74.8	40-140	0				
Dibenzo(a,h)anthracene	976.1	4.2	1333	0	73.2	40-140	0				
Fluoranthene	1160	4.2	1333	0	87.1	40-140	0				
Fluorene	948.2	4.2	1333	0	71.1	40-140	0				
Indeno(1,2,3-cd)pyrene	968.6	4.2	1333	0	72.7	40-140	0				
Naphthalene	900.2	4.2	1333	0	67.5	40-140	0				
Pyrene	935.5	4.2	1333	0	70.2	40-140	0				
<i>Surr: 2-Fluorobiphenyl</i>	<i>1209</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>36.3</i>	<i>20-140</i>	<i>0</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3011</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>90.3</i>	<i>22-172</i>	<i>0</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>1687</i>	<i>0</i>	<i>3333</i>	<i>0</i>	<i>50.6</i>	<i>28-140</i>	<i>0</i>				

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

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154266** Instrument ID **SVMS6** Method: **SW846 8270D**

MS				Sample ID: 20040202-01B MS			Units: µg/Kg		Analysis Date: 4/7/2020 01:22 PM		
Client ID:		Run ID: SVMS6_200407A			SeqNo: 6343663		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	904.7	4.1	1314	0	68.9	40-140	0				
Anthracene	1024	4.1	1314	0	77.9	40-140	0				
Benzo(a)anthracene	953.7	4.1	1314	0	72.6	40-140	0				
Benzo(a)pyrene	933.1	4.1	1314	0	71	40-140	0				
Benzo(b)fluoranthene	943.8	4.1	1314	0	71.8	40-140	0				
Benzo(k)fluoranthene	912.1	4.1	1314	0	69.4	40-140	0				
Chrysene	958.4	4.1	1314	0	72.9	40-140	0				
Dibenzo(a,h)anthracene	914.2	4.1	1314	0	69.6	40-140	0				
Fluoranthene	1140	4.1	1314	0	86.8	40-140	0				
Fluorene	961.4	4.1	1314	0	73.2	40-140	0				
Indeno(1,2,3-cd)pyrene	937.7	4.1	1314	0	71.4	40-140	0				
Naphthalene	927.1	4.1	1314	0	70.6	40-140	0				
Pyrene	896.8	4.1	1314	0	68.3	40-140	0				
Surr: 2-Fluorobiphenyl	2637	0	3285	0	80.3	20-140	0				
Surr: 4-Terphenyl-d14	2823	0	3285	0	85.9	22-172	0				
Surr: Nitrobenzene-d5	2051	0	3285	0	62.4	28-140	0				

MSD				Sample ID: 20040202-01B MSD			Units: µg/Kg		Analysis Date: 4/7/2020 01:37 PM		
Client ID:		Run ID: SVMS6_200407A			SeqNo: 6343664		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	904.8	4.0	1276	0	70.9	40-140	904.7	0.0118	30		
Anthracene	1017	4.0	1276	0	79.7	40-140	1024	0.661	30		
Benzo(a)anthracene	955.5	4.0	1276	0	74.9	40-140	953.7	0.19	30		
Benzo(a)pyrene	935.3	4.0	1276	0	73.3	40-140	933.1	0.242	30		
Benzo(b)fluoranthene	954	4.0	1276	0	74.8	40-140	943.8	1.07	30		
Benzo(k)fluoranthene	911.2	4.0	1276	0	71.4	40-140	912.1	0.0992	30		
Chrysene	959.8	4.0	1276	0	75.2	40-140	958.4	0.148	30		
Dibenzo(a,h)anthracene	911.8	4.0	1276	0	71.4	40-140	914.2	0.263	30		
Fluoranthene	1132	4.0	1276	0	88.7	40-140	1140	0.775	30		
Fluorene	953	4.0	1276	0	74.7	40-140	961.4	0.879	30		
Indeno(1,2,3-cd)pyrene	906.4	4.0	1276	0	71	40-140	937.7	3.4	30		
Naphthalene	928.4	4.0	1276	0	72.7	40-140	927.1	0.138	30		
Pyrene	912.3	4.0	1276	0	71.5	40-140	896.8	1.71	30		
Surr: 2-Fluorobiphenyl	3014	0	3191	0	94.4	20-140	2637	13.4	0		
Surr: 4-Terphenyl-d14	2886	0	3191	0	90.4	22-172	2823	2.21	0		
Surr: Nitrobenzene-d5	2139	0	3191	0	67	28-140	2051	4.18	0		

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson BI/Spill

# QC BATCH REPORT

Batch ID: **154258** Instrument ID **VMS8** Method: **SW8260C**

<b>MBLK</b>		Sample ID: <b>MBLK-154258-154258</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/6/2020 08:58 PM</b>		
Client ID:		Run ID: <b>VMS8_200406B</b>				SeqNo: <b>6342483</b>		Prep Date: <b>4/6/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	1062	0	1000	0	106	70-130	0			
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	940	0	1000	0	94	70-130	0			
Surr: Toluene-d8	961.5	0	1000	0	96.2	70-130	0			

<b>LCS</b>		Sample ID: <b>LCS-154258-154258</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/6/2020 08:09 PM</b>		
Client ID:		Run ID: <b>VMS8_200406B</b>				SeqNo: <b>6342482</b>		Prep Date: <b>4/6/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1077	30	1000	0	108	75-125	0			
Ethylbenzene	1047	30	1000	0	105	75-125	0			
m,p-Xylene	2084	60	2000	0	104	80-125	0			
o-Xylene	1052	30	1000	0	105	75-125	0			
Toluene	1093	30	1000	0	109	70-125	0			
Xylenes, Total	3136	90	3000	0	105	75-125	0			
Surr: 1,2-Dichloroethane-d4	1032	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1006	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1054	0	1000	0	105	70-130	0			
Surr: Toluene-d8	971	0	1000	0	97.1	70-130	0			

<b>MS</b>		Sample ID: <b>20040277-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/7/2020 02:39 AM</b>		
Client ID:		Run ID: <b>VMS8_200406B</b>				SeqNo: <b>6342501</b>		Prep Date: <b>4/6/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1443	42	1392	0	104	75-125	0			
Ethylbenzene	1435	42	1392	0	103	75-125	0			
m,p-Xylene	3048	84	2784	0	109	80-125	0			
o-Xylene	1457	42	1392	0	105	75-125	0			
Toluene	1756	42	1392	0	126	70-125	0			S
Xylenes, Total	4505	130	4176	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1293	0	1392	0	92.9	70-130	0			
Surr: 4-Bromofluorobenzene	1404	0	1392	0	101	70-130	0			
Surr: Dibromofluoromethane	1415	0	1392	0	102	70-130	0			
Surr: Toluene-d8	1389	0	1392	0	99.8	70-130	0			

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154258** Instrument ID **VMS8** Method: **SW8260C**

MSD				Sample ID: 20040277-01A MSD			Units: µg/Kg-dry		Analysis Date: 4/7/2020 02:55 AM		
Client ID:			Run ID: VMS8_200406B		SeqNo: 6342502		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1420	42	1388	0	102	75-125	1443	1.63	30		
Ethylbenzene	1351	42	1388	0	97.3	75-125	1435	6.06	30		
m,p-Xylene	2776	83	2776	0	100	80-125	3048	9.34	30		
o-Xylene	1386	42	1388	0	99.9	75-125	1457	5.01	30		
Toluene	1496	42	1388	0	108	70-125	1756	16	30		
Xylenes, Total	4162	120	4164	0	100	75-125	4505	7.92	30		
Surr: 1,2-Dichloroethane-d4	1395	0	1388	0	100	70-130	1293	7.59	30		
Surr: 4-Bromofluorobenzene	1448	0	1388	0	104	70-130	1404	3.04	30		
Surr: Dibromofluoromethane	1383	0	1388	0	99.6	70-130	1415	2.31	30		
Surr: Toluene-d8	1355	0	1388	0	97.6	70-130	1389	2.5	30		

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154226** Instrument ID **WETCHEM** Method: **SW9045D**

<b>DUP</b>		Sample ID: <b>20040243-01C DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>4/4/2020 08:59 AM</b>		
Client ID:		Run ID: <b>WETCHEM_200404E</b>				SeqNo: <b>6340300</b>		Prep Date: <b>4/3/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.29	0.10	0	0	0	0-0	8.29	0	20	
Temperature	20.2	0.10	0	0	0		20	0.995		

<b>DUP</b>		Sample ID: <b>20040272-03A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>4/4/2020 08:59 AM</b>		
Client ID:		Run ID: <b>WETCHEM_200404E</b>				SeqNo: <b>6340311</b>		Prep Date: <b>4/3/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.5	0.10	0	0	0	0-0	7.68	2.37	20	
Temperature	19.8	0.10	0	0	0		19.7	0.506		

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
20040273-04A		

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

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

# QC BATCH REPORT

Batch ID: **154378** Instrument ID **WETCHEM** Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-154378-154378</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:03 PM</b>		
Client ID:		Run ID: <b>WETCHEM_200409G</b>				SeqNo: <b>6347082</b>		Prep Date: <b>4/7/2020</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 U 0.98

<b>LCS</b>		Sample ID: <b>LCS-154378-154378</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:03 PM</b>		
Client ID:		Run ID: <b>WETCHEM_200409G</b>				SeqNo: <b>6347083</b>		Prep Date: <b>4/7/2020</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 5.465 0.99 4.95 0 110 80-120 0

<b>MS</b>		Sample ID: <b>20040273-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:03 PM</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>WETCHEM_200409G</b>				SeqNo: <b>6347085</b>		Prep Date: <b>4/7/2020</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 4.039 0.98 4.902 0.7941 66.2 75-125 0 S

<b>MS</b>		Sample ID: <b>20040273-01A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:03 PM</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>WETCHEM_200409G</b>				SeqNo: <b>6347087</b>		Prep Date: <b>4/7/2020</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 2852 98 2997 0.7941 95.1 75-125 0

<b>MSD</b>		Sample ID: <b>20040273-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:03 PM</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>WETCHEM_200409G</b>				SeqNo: <b>6347086</b>		Prep Date: <b>4/7/2020</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 3.784 0.98 4.902 0.7941 61 75-125 4.039 6.52 20 S

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
20040273-04A		

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040273  
**Project:** FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **154416** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

<b>DUP</b>		Sample ID: <b>20040273-01B DUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>4/9/2020 04:05 PM</b>		
Client ID: <b>FVLARB11-SS1</b>		Run ID: <b>WETCHEM_200409W</b>				SeqNo: <b>6348165</b>		Prep Date: <b>4/9/2020</b>		DF: <b>20</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.4046	0.10	0	0	0		0.3994	1.29	50	

The following samples were analyzed in this batch:

20040273-01B	20040273-02B	20040273-03B
20040273-04B		

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

Client: Entrada Consulting Group  
 Work Order: 20040273  
 Project: FV Larson B1/Spill

## QC BATCH REPORT

Batch ID: **R286106** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R286106					Units: % of sample		Analysis Date: 4/6/2020 11:25 AM		
Client ID:			Run ID: MOIST_200406B			SeqNo: 6342474		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.10

LCS		Sample ID: LCS-R286106					Units: % of sample		Analysis Date: 4/6/2020 11:25 AM		
Client ID:			Run ID: MOIST_200406B			SeqNo: 6342473		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 99.99 0.10 100 0 100 98-102 0

DUP				Sample ID: 20040273-01A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM			
Client ID: FVLARB11-SS1				Run ID: MOIST_200406B				SeqNo: 6342460			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 6.2 0.10 0 0 0 0-0 5.95 4.12 10

DUP				Sample ID: 20040273-02A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM			
Client ID: FVLARB11-SS2				Run ID: MOIST_200406B				SeqNo: 6342462			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 8.24 0.10 0 0 0 0-0 8.29 0.605 10

The following samples were analyzed in this batch:

20040273-01A	20040273-02A	20040273-03A
20040273-04A	20040273-05A	

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



**Environmental**

# 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

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	FV Larson B1/Spill	A								TPH (GRO & DRO)							
Work Order		Project Number	018-065	B								BTEX							
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C								PAH (See Attached List) CO Table 910							
Send Report To	Tim Dobransky	Invoice Attn	Tim Dobransky	D								Electrical Conductivity							
Address	330 Grand Ave, STE C	Address		E								Sodium Adsorption Ratio							
City/State/Zip	Grand Junction, CO 81501	City/State/Zip		F								pH							
Phone	970.270.2986	Phone		G								Metals (See Attached List) CO Table 910							
Fax		Fax		H								Arsenic Only							
e-Mail Address	tdobransky@entradainc.com	e-Mail Address		I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	FVLARB1/SS1	3/31/20	1400	Soil	8	2	X	X	X	X	X	X	X						
2	FVLARB1/SS2	3/31/20	1410	Soil	8	2	X	X	X	X	X	X	X						
3	FVLARB1/SS3	3/31/20	1420	Soil	8	2	X	X	X	X	X	X	X						
4	FVLARB1/BG1	3/31/20	1430	Soil	8	2				X	X	X	X						
5	FVLARB1/BG2	3/31/20	1440	Soil	8	1									X				
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign: <i>J. McElary</i>				Shipment Method: FedEx		Required Turnaround Time: <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>J. McElary</i>		Date: 7/2/20	Time: 1000	Received by: <i>[Signature]</i>		Notes: Chevron Pricing Applies - Per Bruce Schlatter					
Relinquished by: <i>[Signature]</i>		Date: 4-2-20	Time: 1530	Received by (Laboratory): <i>[Signature]</i>		Cooler Temp. 3.8°C		QC Package: (Check Box Below)			
Logged by (Laboratory): <i>Kru</i>		Date: 4/3/20	Time: 1615	Checked by (Laboratory): <i>[Signature]</i>				<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:			
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035											

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

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Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **03-Apr-20 09:00**

Work Order: **20040273**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

03-Apr-20

Reviewed by: **Chad Whelton**

03-Apr-20

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

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

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

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

Chain of custody present? Yes ☒ No ☐

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

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

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

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

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): **3.8/3.8 C** **SR2**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **4/3/2020 4:29:25 PM**

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

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

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: