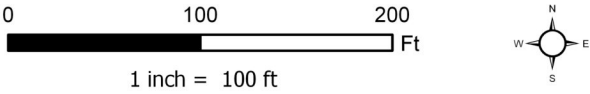




Legend

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



Project No: 018-065	MB Larson C2 Chevron USA, Inc. Rio Blanco County, Colorado SE/4 SE/4 Sec 22 T2S R103W	 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB			1
Date: 6-25-2019			

Table 1
MB Larson C2-1 Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	MB Larson C2-1
Sample Type	Soil

LABORATORY DATA SUMMARY					
Sample ID	MBLARC2-SS1	MBLARC2-SS2	MBLARC2-BG1	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0-6"	0-6"	0-6"		
Sample Date	6/4/2019	6/4/2019	6/4/2019		
Analytical Parameters					
TPH					
TPH Gasoline Range Organics	6.5 J	<2.8	<2.6	500	mg/kg
TPH Diesel Range Organics	<10	<3.2	<3.2		
BTEX					
Benzene	<0.0076	<0.0068	<0.0063	0.17	mg/kg
Toluene	<0.012	<0.011	<0.010	85	mg/kg
Ethylbenzene	<0.0094	<0.0084	<0.0078	100	mg/kg
Total Xylene	<0.060	<0.053	<0.049	175	mg/kg
SAR Metals Analysis					
Calcium	350	170	1100	NA	mg/L
Magnesium	54	31	39	NA	mg/L
Sodium	4500	2500	170	NA	mg/L
Sodium Adsorption Ratio	59	46	1.4	<12	ratio
General Chemistry					
Specific Conductivity	27	14	7.4	<4 or 2 x the background	mmhos/cm
pH	8.02	8.61	8.22	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



21-Jun-2019

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

Re: **MB Larson C2-1 Spill**

Work Order: **19060364**

Dear Tim,

ALS Environmental received 3 samples on 06-Jun-2019 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 16.

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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: MB Larson C2-1 Spill
Work Order: 19060364

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>
19060364-01	MBLARC2-SS1	Soil		6/4/2019 09:10	6/6/2019 09:00	<input type="checkbox"/>
19060364-02	MBLARC2-SS2	Soil		6/4/2019 09:20	6/6/2019 09:00	<input type="checkbox"/>
19060364-03	MBLARC2-BG1	Soil		6/4/2019 09:30	6/6/2019 09:00	<input type="checkbox"/>

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
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.

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

<u>Units Reported</u>	<u>Description</u>
% 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: 21-Jun-19

Client: Entrada Consulting Group
Project: MB Larson C2-1 Spill
Sample ID: MBLARC2-SS1
Collection Date: 6/4/2019 09:10 AM

Work Order: 19060364
Lab ID: 19060364-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 6/11/19		Analyst: DWJ
DRO (C10-C28)	U		10	17	mg/Kg-dry	1	6/12/2019 12:50
Surr: 4-Terphenyl-d14	61.1			34-130	%REC	1	6/12/2019 12:50
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 6/10/19		Analyst: DWJ
GRO (C6-C10)	6.5	J	3.1	7.4	mg/Kg-dry	1	6/10/2019 17:52
Surr: Toluene-d8	96.5			71-123	%REC	1	6/10/2019 17:52
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Calcium	350		0.86	5.0	mg/L	10	6/12/2019 18:43
Magnesium	54		0.068	2.0	mg/L	10	6/12/2019 18:43
Sodium	4,500		3.4	20	mg/L	100	6/13/2019 16:06
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Sodium Adsorption Ratio	59		0.010	0.010	none	1	6/12/2019
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260C		Prep: SW5035 / 6/7/19		Analyst: WH
Benzene	U		0.0076	0.045	mg/Kg-dry	1	6/14/2019 05:54
Ethylbenzene	U		0.0094	0.045	mg/Kg-dry	1	6/14/2019 05:54
m,p-Xylene	U		0.060	0.089	mg/Kg-dry	1	6/14/2019 05:54
o-Xylene	U		0.017	0.045	mg/Kg-dry	1	6/14/2019 05:54
Toluene	U		0.012	0.045	mg/Kg-dry	1	6/14/2019 05:54
Xylenes, Total	U		0.060	0.13	mg/Kg-dry	1	6/14/2019 05:54
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	6/14/2019 05:54
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	6/14/2019 05:54
Surr: Dibromofluoromethane	97.9			70-130	%REC	1	6/14/2019 05:54
Surr: Toluene-d8	95.4			70-130	%REC	1	6/14/2019 05:54
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: DVD
Electrical Conductivity @ Saturation	27		0.011	0.10	mmhos/cm @25°	20	6/12/2019 12:00
MOISTURE							
			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	6/13/2019 15:12
PH							
			Method: SW9045D		Prep: EXTRACT / 6/7/19		Analyst: DNW
pH	8.02		0.10	0.100	s.u.	1	6/7/2019 12:00
Temperature	20.1		0.10	0.100	°C	1	6/7/2019 12:00

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

ALS Group, USA

Date: 21-Jun-19

Client: Entrada Consulting Group
Project: MB Larson C2-1 Spill
Sample ID: MBLARC2-SS2
Collection Date: 6/4/2019 09:20 AM

Work Order: 19060364
Lab ID: 19060364-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 6/7/19		Analyst: DWJ
DRO (C10-C28)	U		3.2	5.6	mg/Kg-dry	1	6/10/2019 12:47
Surr: 4-Terphenyl-d14	117			34-130	%REC	1	6/10/2019 12:47
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 6/10/19		Analyst: DWJ
GRO (C6-C10)	U		2.8	6.6	mg/Kg-dry	1	6/10/2019 18:22
Surr: Toluene-d8	93.5			71-123	%REC	1	6/10/2019 18:22
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Calcium	170		0.86	5.0	mg/L	10	6/12/2019 18:45
Magnesium	31		0.068	2.0	mg/L	10	6/12/2019 18:45
Sodium	2,500		3.4	20	mg/L	100	6/13/2019 16:08
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Sodium Adsorption Ratio	46		0.010	0.010	none	1	6/12/2019
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260C		Prep: SW5035 / 6/7/19		Analyst: WH
Benzene	U		0.0068	0.040	mg/Kg-dry	1	6/14/2019 06:10
Ethylbenzene	U		0.0084	0.040	mg/Kg-dry	1	6/14/2019 06:10
m,p-Xylene	U		0.053	0.079	mg/Kg-dry	1	6/14/2019 06:10
o-Xylene	U		0.015	0.040	mg/Kg-dry	1	6/14/2019 06:10
Toluene	U		0.011	0.040	mg/Kg-dry	1	6/14/2019 06:10
Xylenes, Total	U		0.053	0.12	mg/Kg-dry	1	6/14/2019 06:10
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	6/14/2019 06:10
Surr: 4-Bromofluorobenzene	97.6			70-130	%REC	1	6/14/2019 06:10
Surr: Dibromofluoromethane	96.2			70-130	%REC	1	6/14/2019 06:10
Surr: Toluene-d8	91.7			70-130	%REC	1	6/14/2019 06:10
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: DVD
Electrical Conductivity @ Saturation	14		0.011	0.10	mmhos/cm @25°	20	6/12/2019 12:00
MOISTURE							
			Method: SW3550C				Analyst: KTP
Moisture	14		0.10	0.10	% of sample	1	6/13/2019 15:12
PH							
			Method: SW9045D		Prep: EXTRACT / 6/7/19		Analyst: DNW
pH	8.61		0.10	0.100	s.u.	1	6/7/2019 12:00
Temperature	20.3		0.10	0.100	°C	1	6/7/2019 12:00

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

ALS Group, USA

Date: 21-Jun-19

Client: Entrada Consulting Group
Project: MB Larson C2-1 Spill
Sample ID: MBLARC2-BG1
Collection Date: 6/4/2019 09:30 AM

Work Order: 19060364
Lab ID: 19060364-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 6/7/19		Analyst: DWJ
DRO (C10-C28)	U		3.2	5.5	mg/Kg-dry	1	6/10/2019 13:17
Surr: 4-Terphenyl-d14	122			34-130	%REC	1	6/10/2019 13:17
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 6/10/19		Analyst: DWJ
GRO (C6-C10)	U		2.6	6.1	mg/Kg-dry	1	6/10/2019 18:51
Surr: Toluene-d8	93.0			71-123	%REC	1	6/10/2019 18:51
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Calcium	1,100		0.86	5.0	mg/L	10	6/12/2019 18:47
Magnesium	39		0.068	2.0	mg/L	10	6/12/2019 18:47
Sodium	170		0.34	2.0	mg/L	10	6/12/2019 18:47
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: STP
Sodium Adsorption Ratio	1.4		0.010	0.010	none	1	6/12/2019
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260C		Prep: SW5035 / 6/7/19		Analyst: WH
Benzene	U		0.0063	0.037	mg/Kg-dry	1	6/14/2019 06:27
Ethylbenzene	U		0.0078	0.037	mg/Kg-dry	1	6/14/2019 06:27
m,p-Xylene	U		0.049	0.074	mg/Kg-dry	1	6/14/2019 06:27
o-Xylene	U		0.014	0.037	mg/Kg-dry	1	6/14/2019 06:27
Toluene	U		0.010	0.037	mg/Kg-dry	1	6/14/2019 06:27
Xylenes, Total	U		0.049	0.11	mg/Kg-dry	1	6/14/2019 06:27
Surr: 1,2-Dichloroethane-d4	95.2			70-130	%REC	1	6/14/2019 06:27
Surr: 4-Bromofluorobenzene	101			70-130	%REC	1	6/14/2019 06:27
Surr: Dibromofluoromethane	94.4			70-130	%REC	1	6/14/2019 06:27
Surr: Toluene-d8	92.9			70-130	%REC	1	6/14/2019 06:27
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 6/12/19		Analyst: DVD
Electrical Conductivity @ Saturation	7.4		0.011	0.10	mmhos/cm @25°	20	6/12/2019 12:00
MOISTURE							
			Method: SW3550C				Analyst: KTP
Moisture	9.0		0.10	0.10	% of sample	1	6/13/2019 15:12
PH							
			Method: SW9045D		Prep: EXTRACT / 6/7/19		Analyst: DNW
pH	8.22		0.10	0.100	s.u.	1	6/7/2019 12:00
Temperature	20.6		0.10	0.100	°C	1	6/7/2019 12:00

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

Client: Entrada Consulting Group
Work Order: 19060364
Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137260** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: DBLKS1-137260-137260				Units: mg/Kg		Analysis Date: 6/10/2019 08:54 AM		
Client ID:		Run ID: GC8_190610A				SeqNo: 5703630		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) U 5.0
 Surr: 4-Terphenyl-d14 3.698 0 3.33 0 111 34-130 0

LCS		Sample ID: DLCSS1-137260-137260				Units: mg/Kg		Analysis Date: 6/10/2019 09:23 AM		
Client ID:		Run ID: GC8_190610A				SeqNo: 5703631		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 381.1 5.0 333 0 114 65-122 0
 Surr: 4-Terphenyl-d14 3.867 0 3.33 0 116 34-130 0

MS		Sample ID: 19060417-01B MS				Units: mg/Kg		Analysis Date: 6/10/2019 10:22 AM		
Client ID:		Run ID: GC8_190610A				SeqNo: 5703633		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 350.6 4.9 328.8 0 107 65-122 0
 Surr: 4-Terphenyl-d14 3.884 0 3.288 0 118 34-130 0

MSD		Sample ID: 19060417-01B MSD				Units: mg/Kg		Analysis Date: 6/10/2019 10:51 AM		
Client ID:		Run ID: GC8_190610A				SeqNo: 5703634		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 384.8 4.9 327.5 0 117 65-122 350.6 9.31 30
 Surr: 4-Terphenyl-d14 3.836 0 3.275 0 117 34-130 3.884 1.23 30

The following samples were analyzed in this batch:

19060364-01A	19060364-02A	19060364-03A
--------------	--------------	--------------

Client: Entrada Consulting Group
 Work Order: 19060364
 Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137417** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: DBLKS1-137417-137417				Units: mg/Kg		Analysis Date: 6/12/2019 08:56 AM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5709413		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0								
Surr: 4-Terphenyl-d14	3.733	0	3.33	0	112	34-130	0			

LCS		Sample ID: DLCSS1-137417-137417				Units: mg/Kg		Analysis Date: 6/12/2019 09:25 AM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5709414		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	363.7	5.0	333	0	109	65-122	0			
Surr: 4-Terphenyl-d14	3.7	0	3.33	0	111	34-130	0			

MS		Sample ID: 19060605-01B MS				Units: mg/Kg		Analysis Date: 6/12/2019 11:51 AM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5711660		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	298.2	4.8	317.9	0	93.8	65-122	0			
Surr: 4-Terphenyl-d14	2.705	0	3.179	0	85.1	34-130	0			

MSD		Sample ID: 19060605-01B MSD				Units: mg/Kg		Analysis Date: 6/12/2019 12:20 PM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5711661		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	254.3	4.8	316.8	0	80.3	65-122	298.2	15.9	30	
Surr: 4-Terphenyl-d14	2.347	0	3.168	0	74.1	34-130	2.705	14.2	30	

DUP		Sample ID: DUP 1715-01A				Units: mg/Kg		Analysis Date: 6/12/2019 06:40 PM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5711673		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	804.3	7.5	0	0	0		757	6.05		
Surr: 4-Terphenyl-d14	5.324	0	4.995	0	107	34-130	5.639	5.75		

DUP		Sample ID: DUP 1753-02A				Units: mg/Kg		Analysis Date: 6/12/2019 08:08 PM		
Client ID:		Run ID: GC8_190612A				SeqNo: 5711675		Prep Date: 6/11/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1242	7.4	0	0	0		1253	0.929		
Surr: 4-Terphenyl-d14	5.687	0	4.919	0	116	34-130	5.54	2.63		

The following samples were analyzed in this batch:

19060364-01A

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

Client: Entrada Consulting Group
Work Order: 19060364
Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137325** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-137325-137325				Units: µg/Kg-dry		Analysis Date: 6/10/2019 05:23 PM		
Client ID:		Run ID: GC9_190610A				SeqNo: 5705928		Prep Date: 6/10/2019		DF: 1
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	4766	0	5000	0	95.3	71-123	0			

LCS		Sample ID: LCS-137325-137325				Units: µg/Kg-dry		Analysis Date: 6/10/2019 04:25 PM		
Client ID:		Run ID: GC9_190610A				SeqNo: 5705927		Prep Date: 6/10/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	411600	5,000	500000	0	82.3	71-123	0			
Surr: Toluene-d8	5828	0	5000	0	117	71-123	0			

MS		Sample ID: 19060370-01A MS				Units: µg/Kg-dry		Analysis Date: 6/11/2019 02:37 AM		
Client ID:		Run ID: GC9_190610A				SeqNo: 5705943		Prep Date: 6/10/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	602500	5,900	588500	0	102	71-123	0			
Surr: Toluene-d8	6227	0	5885	0	106	71-123	0			

MSD		Sample ID: 19060370-01A MSD				Units: µg/Kg-dry		Analysis Date: 6/11/2019 03:06 AM		
Client ID:		Run ID: GC9_190610A				SeqNo: 5705944		Prep Date: 6/10/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	657100	6,000	604400	0	109	71-123	602500	8.66	30	
Surr: Toluene-d8	6974	0	6044	0	115	71-123	6227	11.3	30	

The following samples were analyzed in this batch:

19060364-01A	19060364-02A	19060364-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 19060364
Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137483** Instrument ID **ICPMS3** Method: **SW6020A**

DUP		Sample ID: 19060370-02BDUP				Units: mg/L		Analysis Date: 6/12/2019 07:00 PM		
Client ID:		Run ID: ICPMS3_190612A				SeqNo: 5712166		Prep Date: 6/12/2019		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	66.03	5.0	0	0	0	0-0	64.29	2.67		
Magnesium	7.166	2.0	0	0	0	0-0	6.65	7.47		
Sodium	314.1	2.0	0	0	0	0-0	306	2.63		

The following samples were analyzed in this batch:

19060364-01B	19060364-02B	19060364-03B
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Batch ID: **137483** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 19060370-02BDUP				Units: none		Analysis Date: 6/12/2019		
Client ID:		Run ID: SAR_190612A				SeqNo: 5709645		Prep Date: 6/12/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	9.804	0.010	0	0	0		9.713	0.934	50	

The following samples were analyzed in this batch:

19060364-01B	19060364-02B	19060364-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 19060364
 Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: 137252 Instrument ID VMS8 Method: SW8260C

MBLK		Sample ID: MBLK-137252-137252				Units: µg/Kg-dry		Analysis Date: 6/14/2019 02:20 AM		
Client ID:		Run ID: VMS8_190613B				SeqNo: 5715611		Prep Date: 6/7/2019		DF: 1
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	61	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	958.5	0	1000	0	95.8	70-130	0			
Surr: 4-Bromofluorobenzene	980	0	1000	0	98	70-130	0			
Surr: Dibromofluoromethane	970	0	1000	0	97	70-130	0			
Surr: Toluene-d8	932.5	0	1000	0	93.2	70-130	0			

LCS		Sample ID: LCS-137252-137252				Units: µg/Kg-dry		Analysis Date: 6/14/2019 01:31 AM		
Client ID:		Run ID: VMS8_190613B				SeqNo: 5715610		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1108	30	1000	0	111	75-125	0			
Ethylbenzene	1060	30	1000	0	106	75-125	0			
m,p-Xylene	2040	60	2000	0	102	80-125	0			
o-Xylene	1031	30	1000	0	103	75-125	0			
Toluene	1044	30	1000	0	104	70-125	0			B
Xylenes, Total	3071	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	965.5	0	1000	0	96.6	70-130	0			
Surr: 4-Bromofluorobenzene	991	0	1000	0	99.1	70-130	0			
Surr: Dibromofluoromethane	1022	0	1000	0	102	70-130	0			
Surr: Toluene-d8	932.5	0	1000	0	93.2	70-130	0			

MS		Sample ID: 19060370-01A MS				Units: µg/Kg-dry		Analysis Date: 6/14/2019 08:06 AM		
Client ID:		Run ID: VMS8_190613B				SeqNo: 5715627		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1434	35	1177	0	122	75-125	0			
Ethylbenzene	1362	35	1177	0	116	75-125	0			
m,p-Xylene	2588	71	2354	0	110	80-125	0			
o-Xylene	1335	35	1177	0	113	75-125	0			
Toluene	1325	35	1177	0	113	70-125	0			
Xylenes, Total	3923	110	3531	0	111	75-125	0			
Surr: 1,2-Dichloroethane-d4	1165	0	1177	0	99	70-130	0			
Surr: 4-Bromofluorobenzene	1188	0	1177	0	101	70-130	0			
Surr: Dibromofluoromethane	1203	0	1177	0	102	70-130	0			
Surr: Toluene-d8	1083	0	1177	0	92	70-130	0			

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

Client: Entrada Consulting Group
Work Order: 19060364
Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137252** Instrument ID **VMS8** Method: **SW8260C**

MSD		Sample ID: 19060370-01A MSD				Units: µg/Kg-dry		Analysis Date: 6/14/2019 08:22 AM		
Client ID:		Run ID: VMS8_190613B				SeqNo: 5715628		Prep Date: 6/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1534	36	1209	0	127	75-125	1434	6.76	30	S
Ethylbenzene	1419	36	1209	0	117	75-125	1362	4.12	30	
m,p-Xylene	2653	73	2418	0	110	80-125	2588	2.48	30	
o-Xylene	1400	36	1209	0	116	75-125	1335	4.71	30	
Toluene	1342	36	1209	0	111	70-125	1325	1.23	30	
Xylenes, Total	4052	110	3626	0	112	75-125	3923	3.24	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1215	0	1209	0	100	70-130	1165	4.21	30	
<i>Surr: 4-Bromofluorobenzene</i>	1244	0	1209	0	103	70-130	1188	4.57	30	
<i>Surr: Dibromofluoromethane</i>	1217	0	1209	0	101	70-130	1203	1.18	30	
<i>Surr: Toluene-d8</i>	1093	0	1209	0	90.4	70-130	1083	0.958	30	

The following samples were analyzed in this batch:

19060364-01A	19060364-02A	19060364-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 19060364
Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **137256** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-137256-137256				Units: s.u.			Analysis Date: 6/7/2019 12:00 PM			
Client ID:				Run ID: WETCHEM_190607H				SeqNo: 5700646			Prep Date: 6/7/2019		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH 3.95 0.10 4 0 98.8 90-110 0

DUP		Sample ID: 19060307-04B DUP					Units: s.u.		Analysis Date: 6/7/2019 12:00 PM		
Client ID:		Run ID: WETCHEM_190607H			SeqNo: 5700651		Prep Date: 6/7/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

pH 8.86 0.10 0 0 0 0-0 8.87 0.113 20

Temperature 20.2 0.10 0 0 0 20.3 0.494

DUP				Sample ID: 19060307-06B DUP				Units: s.u.			Analysis Date: 6/7/2019 12:00 PM			
Client ID:				Run ID: WETCHEM_190607H				SeqNo: 5700654			Prep Date: 6/7/2019		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.57 0.10 0 0 0 0-0 7.81 3.12 20

Temperature 20.8 0.10 0 0 0 20.8 0

The following samples were analyzed in this batch:

19060364-01A	19060364-02A	19060364-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 19060364
 Project: MB Larson C2-1 Spill

QC BATCH REPORT

Batch ID: **R262645** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R262645				Units: % of sample		Analysis Date: 6/13/2019 03:12 PM		
Client ID:		Run ID: MOIST_190613C				SeqNo: 5714652		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-R262645				Units: % of sample		Analysis Date: 6/13/2019 03:12 PM		
Client ID:		Run ID: MOIST_190613C				SeqNo: 5714651		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.10 100 0 100 98-102 0

DUP				Sample ID: 19060836-02A DUP				Units: % of sample			Analysis Date: 6/13/2019 03:12 PM			
Client ID:				Run ID: MOIST_190613C				SeqNo: 5714642			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 20.6 0.10 0 0 0 0-0 20.25 1.71 10

DUP				Sample ID: 19060836-01A DUP				Units: % of sample			Analysis Date: 6/13/2019 03:12 PM			
Client ID:				Run ID: MOIST_190613C				SeqNo: 5714650			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 13.92 0.10 0 0 0 0-0 14.19 1.92 10

The following samples were analyzed in this batch:

19060364-01A	19060364-02A	19060364-03A
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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

☐ 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

ALS Project Manager:

Work Order #: 19060369

Customer Information			Project Information				Parameter/Method Request for Analysis												
Purchase Order		Project Name	MB Larson C2-1 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, Suite 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	tdobransky@entradainc.com				I												
							J												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MBLARC2-SS1	06/04/19	910	Soil	8	2	X	X		X	X	X							
2	MBLARC2-SS2	06/04/19	920	Soil	8	2	X	X		X	X	X							
3	MBLARC2-BG1	06/04/19	930	Soil	8	2	X	X		X	X	X							
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx		Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by:		Date: 6/4/19	Time:	Received by:		Notes: Chevron Pricing Applies - Per Bruce Schlatter	
Relinquished by:		Date: 6-5-19	Time: 1630	Received by (Laboratory):		Cooler Temp. 34°C	
Logged by (Laboratory):		Date: 6/6/19	Time: 1315	Checked by (Laboratory):		QC Package: (Check Box Below)	
						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like <input type="checkbox"/> Other:	

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: **06-Jun-19 09:00**

Work Order: **19060364**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

06-Jun-19
Date

Reviewed by: Chad Whelton
eSignature

06-Jun-19
Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4/3.4 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>6/6/2019 1:48:25 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:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: