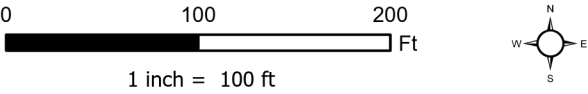




Legend

● Spill Origin    ● Soil Sample Location



Project No: 018-065	<b>Carney 41Y34</b> Chevron USA, Inc. Rio Blanco County, Colorado NWNE Section 34 T2N R102W	 <b>ENTRADA</b> CONSULTING GROUP	330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB				1
Date: 5/15/2020				



**Table 1**  
**Carney 41Y34 Spill**  
**Soil Data Summary**

SAMPLE SUMMARY	
Location Description	Carney 41Y34 Spill
Sample Type	Grab Soil

LABORATORY DATA SUMMARY							
Sample ID	CAR 41Y34-SS1	CAR 41Y34-SS2	CAR 41Y34-SS3	CAR 41Y34-SS4	CAR 41Y34-BG1	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0"-6"	0"-6"	0"-6"	0"-6"	0"-6"		
Sample Date	4/1/2020	4/1/2020	4/1/2020	4/1/2020	4/1/2020		
Analytical Parameters							
TPH							
TPH Gasoline Range Organics	15	<2.7	<3.1	<2.7	NT	500	mg/kg
TPH Diesel Range Organics	9.7 J	9.1	7.1 J	11 J	NT		
BTEX							
Benzene	<0.0074	<0.0067	<0.0076	<0.0067	NT	0.17	mg/kg
Toluene	<0.012	<0.011	<0.012	<0.011	NT	85	mg/kg
Ethylbenzene	<0.0091	<0.0082	<0.0093	<0.0082	NT	100	mg/kg
Total Xylene	<0.058	<0.052	<0.059	<0.052	NT	175	mg/kg
Metals							
Arsenic	7.4	6.0	12	5.8	6.9	0.39	mg/kg
Barium	210	260	270	300	160	15,000	mg/kg
Cadmium	0.22	0.22	0.30	0.19	0.20	70	mg/kg
Chromium	12	11	9.7	9.6	11	NA	mg/kg
Copper	13	14	14	9.7	13	3,100	mg/kg
Lead	20	16	21	16	19	400	mg/kg
Mercury	0.027	0.032	0.016	0.024	0.018	23	mg/kg
Nickel	17	15	19	13	17	1,600	mg/kg
Selenium	1.4	1.3	1.1	0.92	1.3	390	mg/kg
Silver	0.083	0.16	0.060	0.066 J	0.071	390	mg/kg
Zinc	71	60	81	54	69	23,000	mg/kg
SAR Metals Analysis							
Calcium	470	34	32	50	43	NA	mg/L
Magnesium	44	6.5	7.7	9.9	6.6	NA	mg/L
Sodium	55	32	61	53	11	NA	mg/L
Sodium Adsorption Ratio	0.65	1.30	2.50	1.8	0.39	<12	ratio
Polynuclear Aromatic Hydrocarbons							
Acenaphthene	<0.00095	<0.00097	<0.00095	<0.00095	NT	1,000	mg/kg
Anthracene	<0.0017	<0.0017	<0.0017	<0.0016	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0020	<0.0021	<0.0020	<0.0020	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0013	<0.0014	<0.0013	<0.0013	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0012	<0.0012	0.0012	<0.0012	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0014	<0.0015	<0.0014	<0.0014	NT	2.2	mg/kg
Chrysene	<0.0010	<0.0010	<0.0010	<0.0010	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0012	<0.0012	<0.0011	<0.0011	NT	0.022	mg/kg
Fluoranthene	<0.00090	<0.00092	<0.00090	<0.00090	NT	1,000	mg/kg
Fluorene	<0.0016	<0.0017	<0.0016	<0.0016	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0018	<0.0018	0.0018	<0.0018	NT	0.22	mg/kg
Napthalene	<0.0021	<0.0022	<0.0021	<0.0021	NT	23	mg/kg
Pyrene	<0.00081	<0.00083	<0.00081	<0.00081	NT	1,000	mg/kg
General Chemistry							
Chromium, Hexavalent	<1.0	1.1	<0.98	<0.97	<0.98	23	mg/kg
Chromium, Trivalent	12	9.6	9.7	9.6	11	120,000	mg/kg
Specific Conductivity	3.20	0.36	0.45	0.51	0.30	<4 or 2 x the background	mmhos/cm
pH	7.96	8.29	8.37	7.82	8.43	6-9	su

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

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



10-Apr-2020

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

Re: **Carney 41Y34 Spill**

Work Order: **20040274**

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 38.

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:** Carney 41Y34 Spill  
**Work Order:** 20040274

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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>
20040274-01	CAR41Y34-SS1	Soil		4/1/2020 09:30	4/3/2020 09:00	<input type="checkbox"/>
20040274-02	CAR41Y34-SS2	Soil		4/1/2020 09:45	4/3/2020 09:00	<input type="checkbox"/>
20040274-03	CAR41Y34-SS3	Soil		4/1/2020 10:00	4/3/2020 09:00	<input type="checkbox"/>
20040274-04	CAR41Y34-SS4	Soil		4/1/2020 10:15	4/3/2020 09:00	<input type="checkbox"/>
20040274-05	CAR41Y34-BG1	Soil		4/1/2020 10:30	4/3/2020 09:00	<input type="checkbox"/>

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**Client:** Entrada Consulting Group**Project:** Carney 41Y34 Spill**Work Order:** 20040274**Case Narrative**

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Batch 154361, Method HG\_7471\_S, Sample LCS-154361: The LCS recovery was above the upper control limit for Mercury. The sample results for this batch may be biased high.

<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	

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s.u.	Standard Units
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# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS1  
**Collection Date:** 4/1/2020 09:30 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-01  
**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>9.7</b>	<b>J</b>	<b>3.4</b>	<b>12</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 07:16
Surr: 4-Terphenyl-d14	85.8			33-111	%REC	1	4/8/2020 07:16
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>RM</b>
<b>GRO (C6-C10)</b>	<b>15</b>		<b>3.0</b>	<b>7.2</b>	<b>mg/Kg</b>	<b>1</b>	4/8/2020 10:53
Surr: Toluene-d8	111			71-123	%REC	1	4/8/2020 10:53
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.027</b>		<b>0.014</b>	<b>0.020</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/9/2020 11:58
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>7.4</b>		<b>0.058</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Barium</b>	<b>210</b>		<b>4.4</b>	<b>4.8</b>	<b>mg/Kg-dry</b>	<b>10</b>	4/9/2020 16:15
<b>Cadmium</b>	<b>0.22</b>		<b>0.029</b>	<b>0.19</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Chromium</b>	<b>12</b>		<b>0.21</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Copper</b>	<b>13</b>		<b>0.48</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Lead</b>	<b>20</b>		<b>0.23</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Nickel</b>	<b>17</b>		<b>0.25</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Selenium</b>	<b>1.4</b>		<b>0.44</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Silver</b>	<b>0.083</b>	<b>J</b>	<b>0.064</b>	<b>0.48</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<b>Zinc</b>	<b>71</b>		<b>0.94</b>	<b>0.96</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 21:56
<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>470</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:39
<b>Magnesium</b>	<b>44</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:39
<b>Sodium</b>	<b>55</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:39
<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>0.65</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	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		0.00095	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Dibenzo(a,h)anthracene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/7/2020 18:33

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



# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS1  
**Collection Date:** 4/1/2020 09:30 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Surr: 2-Fluorobiphenyl	92.6			20-140	%REC	1	4/7/2020 18:33
Surr: 4-Terphenyl-d14	80.8			22-172	%REC	1	4/7/2020 18:33
Surr: Nitrobenzene-d5	73.5			28-140	%REC	1	4/7/2020 18:33
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>SJB</b>
Benzene	U		0.0074	0.043	mg/Kg-dry	1	4/6/2020 23:24
Ethylbenzene	U		0.0091	0.043	mg/Kg-dry	1	4/6/2020 23:24
m,p-Xylene	U		0.058	0.086	mg/Kg-dry	1	4/6/2020 23:24
o-Xylene	U		0.017	0.043	mg/Kg-dry	1	4/6/2020 23:24
Toluene	U		0.012	0.043	mg/Kg-dry	1	4/6/2020 23:24
Xylenes, Total	U		0.058	0.13	mg/Kg-dry	1	4/6/2020 23:24
Surr: 1,2-Dichloroethane-d4	94.4			70-130	%REC	1	4/6/2020 23:24
Surr: 4-Bromofluorobenzene	96.7			70-130	%REC	1	4/6/2020 23:24
Surr: Dibromofluoromethane	96.6			70-130	%REC	1	4/6/2020 23:24
Surr: Toluene-d8	96.0			70-130	%REC	1	4/6/2020 23:24
<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	3.2		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	12		1.0	1.2	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		1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	17		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	7.96		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		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:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS2  
**Collection Date:** 4/1/2020 09:45 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-02  
**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>9.1</b>	<b>J</b>	<b>3.5</b>	<b>12</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 07:55
Surr: 4-Terphenyl-d14	88.2			33-111	%REC	1	4/8/2020 07:55
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>RM</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>2.7</b>	<b>6.5</b>	<b>mg/Kg</b>	<b>1</b>	4/8/2020 11:16
Surr: Toluene-d8	112			71-123	%REC	1	4/8/2020 11:16
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.032</b>		<b>0.013</b>	<b>0.019</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/9/2020 12:00
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>6.0</b>		<b>0.048</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Barium</b>	<b>260</b>		<b>3.7</b>	<b>4.0</b>	<b>mg/Kg-dry</b>	<b>10</b>	4/9/2020 16:20
<b>Cadmium</b>	<b>0.22</b>		<b>0.024</b>	<b>0.16</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Chromium</b>	<b>11</b>		<b>0.18</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Copper</b>	<b>14</b>		<b>0.40</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Lead</b>	<b>16</b>		<b>0.19</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Nickel</b>	<b>15</b>		<b>0.21</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Selenium</b>	<b>1.3</b>		<b>0.37</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Silver</b>	<b>0.16</b>	<b>J</b>	<b>0.053</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<b>Zinc</b>	<b>60</b>		<b>0.79</b>	<b>0.80</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:05
<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>34</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:40
<b>Magnesium</b>	<b>6.5</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:40
<b>Sodium</b>	<b>32</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:40
<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>1.3</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/6/20		Analyst: <b>EEW</b>
<b>Acenaphthene</b>	<b>U</b>		<b>0.00097</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Anthracene</b>	<b>U</b>		<b>0.0017</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Benzo(a)anthracene</b>	<b>U</b>		<b>0.0021</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Benzo(a)pyrene</b>	<b>U</b>		<b>0.0014</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Benzo(b)fluoranthene</b>	<b>U</b>		<b>0.0012</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Benzo(k)fluoranthene</b>	<b>U</b>		<b>0.0015</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Chrysene</b>	<b>U</b>		<b>0.0010</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Dibenzo(a,h)anthracene</b>	<b>U</b>		<b>0.0012</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48
<b>Fluoranthene</b>	<b>U</b>		<b>0.00092</b>	<b>0.0050</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/7/2020 18:48

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS2  
**Collection Date:** 4/1/2020 09:45 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0017	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Naphthalene	U		0.0022	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Pyrene	U		0.00083	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Surr: 2-Fluorobiphenyl	100			20-140	%REC	1	4/7/2020 18:48
Surr: 4-Terphenyl-d14	92.1			22-172	%REC	1	4/7/2020 18:48
Surr: Nitrobenzene-d5	82.8			28-140	%REC	1	4/7/2020 18:48
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>SJB</b>
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 23:03
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 23:03
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 23:03
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 23:03
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 23:03
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 23:03
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	4/6/2020 23:03
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	4/6/2020 23:03
Surr: Dibromofluoromethane	102			70-130	%REC	1	4/6/2020 23:03
Surr: Toluene-d8	97.7			70-130	%REC	1	4/6/2020 23:03
<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	0.36		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	9.6		1.0	1.2	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	1.1	J	1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	19		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	8.29		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		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:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS3  
**Collection Date:** 4/1/2020 10:00 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-03  
**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>7.1</b>	<b>J</b>	<b>3.3</b>	<b>11</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 08:34
Surr: 4-Terphenyl-d14	85.7			33-111	%REC	1	4/8/2020 08:34
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>RM</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>3.1</b>	<b>7.4</b>	<b>mg/Kg</b>	<b>1</b>	4/8/2020 11:39
Surr: Toluene-d8	106			71-123	%REC	1	4/8/2020 11:39
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/8/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.016</b>	<b>J</b>	<b>0.013</b>	<b>0.018</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/9/2020 12:02
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>12</b>		<b>0.048</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Barium</b>	<b>270</b>		<b>3.7</b>	<b>4.0</b>	<b>mg/Kg-dry</b>	<b>10</b>	4/9/2020 16:21
<b>Cadmium</b>	<b>0.30</b>		<b>0.024</b>	<b>0.16</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Chromium</b>	<b>9.7</b>		<b>0.18</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Copper</b>	<b>14</b>		<b>0.40</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Lead</b>	<b>21</b>		<b>0.19</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Nickel</b>	<b>19</b>		<b>0.21</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Selenium</b>	<b>1.1</b>		<b>0.37</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Silver</b>	<b>0.060</b>	<b>J</b>	<b>0.053</b>	<b>0.40</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<b>Zinc</b>	<b>81</b>		<b>0.79</b>	<b>0.81</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:11
<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>	<b>10</b>	4/9/2020 16:42
<b>Magnesium</b>	<b>7.7</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:42
<b>Sodium</b>	<b>61</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:42
<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>2.5</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/8/20		Analyst: <b>EEW</b>
<b>Acenaphthene</b>	<b>U</b>		<b>0.00095</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Anthracene</b>	<b>U</b>		<b>0.0017</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Benzo(a)anthracene</b>	<b>U</b>		<b>0.0020</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Benzo(a)pyrene</b>	<b>U</b>		<b>0.0013</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Benzo(b)fluoranthene</b>	<b>U</b>		<b>0.0012</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Benzo(k)fluoranthene</b>	<b>U</b>		<b>0.0014</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Chrysene</b>	<b>U</b>		<b>0.0010</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Dibenzo(a,h)anthracene</b>	<b>U</b>		<b>0.0011</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11
<b>Fluoranthene</b>	<b>U</b>		<b>0.00090</b>	<b>0.0049</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 18:11

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

# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS3  
**Collection Date:** 4/1/2020 10:00 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Surr: 2-Fluorobiphenyl	109			20-140	%REC	1	4/8/2020 18:11
Surr: 4-Terphenyl-d14	104			22-172	%REC	1	4/8/2020 18:11
Surr: Nitrobenzene-d5	90.9			28-140	%REC	1	4/8/2020 18:11
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>SJB</b>
Benzene	U		0.0076	0.044	mg/Kg-dry	1	4/6/2020 22:43
Ethylbenzene	U		0.0093	0.044	mg/Kg-dry	1	4/6/2020 22:43
m,p-Xylene	U		0.059	0.088	mg/Kg-dry	1	4/6/2020 22:43
o-Xylene	U		0.017	0.044	mg/Kg-dry	1	4/6/2020 22:43
Toluene	U		0.012	0.044	mg/Kg-dry	1	4/6/2020 22:43
Xylenes, Total	U		0.059	0.13	mg/Kg-dry	1	4/6/2020 22:43
Surr: 1,2-Dichloroethane-d4	97.0			70-130	%REC	1	4/6/2020 22:43
Surr: 4-Bromofluorobenzene	97.4			70-130	%REC	1	4/6/2020 22:43
Surr: Dibromofluoromethane	100			70-130	%REC	1	4/6/2020 22:43
Surr: Toluene-d8	95.7			70-130	%REC	1	4/6/2020 22:43
<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	0.45		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	9.7		1.0	1.2	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		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	16		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	8.37		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.5		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:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS4  
**Collection Date:** 4/1/2020 10:15 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-04  
**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>J</b>	<b>3.3</b>	<b>12</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 09:12
Surr: 4-Terphenyl-d14	83.7			33-111	%REC	1	4/8/2020 09:12
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 4/6/20		Analyst: <b>RM</b>
<b>GRO (C6-C10)</b>	<b>U</b>		<b>2.7</b>	<b>6.5</b>	<b>mg/Kg</b>	<b>1</b>	4/8/2020 12:02
Surr: Toluene-d8	109			71-123	%REC	1	4/8/2020 12:02
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 4/10/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.024</b>		<b>0.013</b>	<b>0.018</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/10/2020 11:19
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 4/8/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>5.8</b>		<b>0.046</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Barium</b>	<b>300</b>		<b>3.5</b>	<b>3.9</b>	<b>mg/Kg-dry</b>	<b>10</b>	4/9/2020 16:26
<b>Cadmium</b>	<b>0.19</b>		<b>0.023</b>	<b>0.15</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Chromium</b>	<b>9.6</b>		<b>0.17</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Copper</b>	<b>9.7</b>		<b>0.39</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Lead</b>	<b>16</b>		<b>0.19</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Nickel</b>	<b>13</b>		<b>0.20</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Selenium</b>	<b>0.92</b>		<b>0.35</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Silver</b>	<b>0.066</b>	<b>J</b>	<b>0.051</b>	<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<b>Zinc</b>	<b>54</b>		<b>0.76</b>	<b>0.77</b>	<b>mg/Kg-dry</b>	<b>1</b>	4/8/2020 22:13
<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>50</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:44
<b>Magnesium</b>	<b>9.9</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:44
<b>Sodium</b>	<b>53</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	<b>10</b>	4/9/2020 16:44
<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>1.8</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	<b>1</b>	4/9/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW846 8270D</b>		Prep: SW3546 / 4/8/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/8/2020 18:27

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



# ALS Group, USA

Date: 10-Apr-20

**Client:** Entrada Consulting Group  
**Project:** Carney 41Y34 Spill  
**Sample ID:** CAR41Y34-SS4  
**Collection Date:** 4/1/2020 10:15 AM

**Work Order:** 20040274  
**Lab ID:** 20040274-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Surr: 2-Fluorobiphenyl	101			20-140	%REC	1	4/8/2020 18:27
Surr: 4-Terphenyl-d14	92.0			22-172	%REC	1	4/8/2020 18:27
Surr: Nitrobenzene-d5	77.7			28-140	%REC	1	4/8/2020 18:27
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 4/6/20		Analyst: <b>SJB</b>
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 22:22
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 22:22
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 22:22
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 22:22
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 22:22
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 22:22
Surr: 1,2-Dichloroethane-d4	96.3			70-130	%REC	1	4/6/2020 22:22
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	4/6/2020 22:22
Surr: Dibromofluoromethane	102			70-130	%REC	1	4/6/2020 22:22
Surr: Toluene-d8	97.1			70-130	%REC	1	4/6/2020 22:22
<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	0.51		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	9.6		0.99	1.2	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		0.97	1.1	mg/Kg-dry	1	4/9/2020 12:03
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	15		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	7.82		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		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: Carney 41Y34 Spill  
Sample ID: CAR41Y34-BG1  
Collection Date: 4/1/2020 10:30 AM

Work Order: 20040274  
Lab ID: 20040274-05  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
Mercury	0.018	J	0.014	0.021	mg/Kg-dry	1	4/10/2020 11:25
Method: SW7471B Prep: SW7471 / 4/10/20 Analyst: MAC							
<b>METALS BY ICP-MS</b>							
Arsenic	6.9		0.050	0.41	mg/Kg-dry	1	4/8/2020 22:15
Barium	160		3.8	4.1	mg/Kg-dry	10	4/9/2020 16:28
Boron	11		1.6	1.7	mg/Kg-dry	1	4/8/2020 22:15
Cadmium	0.20		0.025	0.17	mg/Kg-dry	1	4/8/2020 22:15
Chromium	11		0.18	0.41	mg/Kg-dry	1	4/8/2020 22:15
Copper	13		0.41	0.41	mg/Kg-dry	1	4/8/2020 22:15
Lead	19		0.20	0.41	mg/Kg-dry	1	4/8/2020 22:15
Nickel	17		0.21	0.41	mg/Kg-dry	1	4/8/2020 22:15
Selenium	1.3		0.38	0.41	mg/Kg-dry	1	4/8/2020 22:15
Silver	0.071	J	0.055	0.41	mg/Kg-dry	1	4/8/2020 22:15
Zinc	69		0.81	0.83	mg/Kg-dry	1	4/8/2020 22:15
Method: SW6020B Prep: SW3050B / 4/8/20 Analyst: STP							
<b>SOLUBLE CATIONS FOR SAR</b>							
Calcium	43		2.5	5.0	mg/L	10	4/9/2020 16:45
Magnesium	6.6		0.50	2.0	mg/L	10	4/9/2020 16:45
Sodium	11		0.45	2.0	mg/L	10	4/9/2020 16:45
Method: SW6020B Prep: USDA Method 20B / 4/9/20 Analyst: STP							
<b>SODIUM ADSORPTION RATIO</b>							
Sodium Adsorption Ratio	0.39		0.010	0.010	none	1	4/9/2020
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 4/9/20 Analyst: STP							
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
Electrical Conductivity @ Saturation	0.30		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 4/9/20 Analyst: QTN							
<b>CHROMIUM, TRIVALENT</b>							
Chromium, Trivalent	11		0.99	1.2	mg/Kg-dry	1	4/9/2020 13:03
Method: CALCULATION Analyst: JZB							
<b>CHROMIUM, HEXAVALENT</b>							
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
Method: SW7196A Prep: SW3060A / 4/7/20 Analyst: RZM							
<b>MOISTURE</b>							
Moisture	14		0.10	0.10	% of sample	1	4/6/2020 11:25
Method: SW3550C Analyst: KTP							
<b>PH</b>							
pH	8.43		0.10	0.100	s.u.	1	4/5/2020 11:30
Temperature	20.0		0.10	0.100	°C	1	4/5/2020 11:30
Method: SW9045D Prep: EXTRACT / 4/4/20 Analyst: DVD							

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 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
<i>Surr: 4-Terphenyl-d14</i>	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			
<i>Surr: 4-Terphenyl-d14</i>	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			
<i>Surr: 4-Terphenyl-d14</i>	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	
<i>Surr: 4-Terphenyl-d14</i>	1.858	0	3.305	0	56.2	33-111	1.671	10.6	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154269** Instrument ID **GC10** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-154269-154269</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/8/2020 10:30 AM</b>		
Client ID:		Run ID: <b>GC10_200408A</b>				SeqNo: <b>6348110</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	5608	0	5000	0	112	71-123	0			

<b>LCS</b>		Sample ID: <b>LCS-154269-154269</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/8/2020 06:37 PM</b>		
Client ID:		Run ID: <b>GC10_200408A</b>				SeqNo: <b>6348119</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)	265500	5,000	250000	0	106	71-123	0			
Surr: Toluene-d8	5088	0	5000	0	102	71-123	0			

<b>MS</b>		Sample ID: <b>20040275-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/8/2020 01:12 PM</b>		
Client ID:		Run ID: <b>GC10_200408A</b>				SeqNo: <b>6348117</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)	601200	9,400	471600	0	127	71-123	0			S
Surr: Toluene-d8	10570	0	9432	0	112	71-123	0			

<b>MSD</b>		Sample ID: <b>20040275-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/8/2020 01:35 PM</b>		
Client ID:		Run ID: <b>GC10_200408A</b>				SeqNo: <b>6348118</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)	582100	9,900	495500	0	117	71-123	601200	3.24	30	
Surr: Toluene-d8	10540	0	9911	0	106	71-123	10570	0.244	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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: <b>CAR41Y34-SS3</b>		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: <b>CAR41Y34-SS3</b>		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:

20040274-01A	20040274-02A	20040274-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154361** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-154361-154361</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:08 PM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6347272</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 0.019

<b>LCS</b>		Sample ID: <b>LCS-154361-154361</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 12:11 PM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6347273</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 0.1847 0.017 0.1403 0 132 80-120 0 S

<b>MS</b>		Sample ID: <b>20040295-01AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 09:30 AM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6346672</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 0.2072 0.018 0.1539 0.0819 81.4 75-125 0

<b>MSD</b>		Sample ID: <b>20040295-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 09:32 AM</b>		
Client ID:		Run ID: <b>HG4_200409A</b>				SeqNo: <b>6346674</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 0.2022 0.019 0.1542 0.0819 78 75-125 0.2072 2.48 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154446** Instrument ID **HG4** Method: **SW7471B**

<b>MBLK</b>		Sample ID: <b>MBLK-154446-154446</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 11:14 AM</b>		
Client ID:		Run ID: <b>HG4_200410A</b>				SeqNo: <b>6349553</b>		Prep Date: <b>4/10/2020</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 0.020

<b>LCS</b>		Sample ID: <b>LCS-154446-154446</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 11:16 AM</b>		
Client ID:		Run ID: <b>HG4_200410A</b>				SeqNo: <b>6349554</b>		Prep Date: <b>4/10/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1958 0.020 0.1665 0 118 80-120 0

<b>MS</b>		Sample ID: <b>20040274-04AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 11:21 AM</b>		
Client ID: <b>CAR41Y34-SS4</b>		Run ID: <b>HG4_200410A</b>				SeqNo: <b>6349556</b>		Prep Date: <b>4/10/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1584 0.016 0.137 0.02017 101 75-125 0

<b>MSD</b>		Sample ID: <b>20040274-04AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 11:23 AM</b>		
Client ID: <b>CAR41Y34-SS4</b>		Run ID: <b>HG4_200410A</b>				SeqNo: <b>6349557</b>		Prep Date: <b>4/10/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1556 0.016 0.1357 0.02017 99.8 75-125 0.1584 1.82 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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								
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			
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			

<b>MS</b>		Sample ID: <b>20040273-03AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 09:50 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346251</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	9.542	0.32	6.353	4.53	78.9	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

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

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

MS		Sample ID: <b>20040273-03AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 03:58 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200409B</b>				SeqNo: <b>6349279</b>		Prep Date: <b>4/8/2020</b>		DF: <b>10</b>
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: <b>20040273-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 09:52 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346252</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	10.26	0.32	6.345	4.53	90.3	75-125	9.542	7.24	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: <b>20040273-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 04:00 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200409B</b>				SeqNo: <b>6349280</b>		Prep Date: <b>4/8/2020</b>		DF: <b>10</b>
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:

20040274-01A

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

<b>MBLK</b>		Sample ID: <b>MBLK-154372-154372</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 10:01 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346257</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	0.22								
Boron	U	0.89								
Cadmium	U	0.089								
Chromium	U	0.22								
Copper	U	0.22								
Lead	U	0.22								
Nickel	U	0.22								
Selenium	U	0.22								
Silver	U	0.22								
Zinc	U	0.45								

<b>MBLK</b>		Sample ID: <b>MBLK-154372-154372</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 04:18 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200409B</b>				SeqNo: <b>6349291</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
Barium	U	0.22								

<b>LCS</b>		Sample ID: <b>LCS-154372-154372</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 10:03 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200408B</b>				SeqNo: <b>6346258</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	4.296	0.25	4.926	0	87.2	80-120	0			
Barium	4.354	0.25	4.926	0	88.4	80-120	0			
Boron	21.96	0.99	24.63	0	89.2	80-120	0			
Cadmium	4.415	0.099	4.926	0	89.6	80-120	0			
Chromium	4.615	0.25	4.926	0	93.7	80-120	0			
Copper	4.524	0.25	4.926	0	91.8	80-120	0			
Lead	4.383	0.25	4.926	0	89	80-120	0			
Nickel	4.337	0.25	4.926	0	88	80-120	0			
Selenium	4.42	0.25	4.926	0	89.7	80-120	0			
Silver	4.31	0.25	4.926	0	87.5	80-120	0			
Zinc	5.864	0.49	4.926	0	119	80-120	0			

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: <b>20040295-01AMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 10:46 PM</b>	
Client ID:		Run ID: <b>ICPMS3_200408B</b>			SeqNo: <b>6346281</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	8.768	0.32	6.452	1.918	106	75-125	0			
Barium	127	0.32	6.452	120.5	101	75-125	0			EO
Boron	43.9	1.3	32.26	11.08	102	75-125	0			
Cadmium	6.557	0.13	6.452	0.2231	98.2	75-125	0			
Chromium	27.48	0.32	6.452	21.37	94.7	75-125	0			
Lead	5.735	0.32	6.452	2.252	54	75-125	0			S
Nickel	11.39	0.32	6.452	5.161	96.6	75-125	0			
Selenium	9.173	0.32	6.452	1.825	114	75-125	0			
Silver	6.892	0.32	6.452	0.9044	92.8	75-125	0			

MS				Sample ID: <b>20040295-01AMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 04:38 PM</b>	
Client ID:		Run ID: <b>ICPMS3_200409B</b>			SeqNo: <b>6349303</b>		Prep Date: <b>4/8/2020</b>		DF: <b>10</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	168.7	6.5	6.452	161.6	110	75-125	0			O

MS				Sample ID: <b>20040295-01AMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 02:48 PM</b>	
Client ID:		Run ID: <b>ICPMS3_200410B</b>			SeqNo: <b>6350317</b>		Prep Date: <b>4/8/2020</b>		DF: <b>100</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	138.9	32	6.452	119.5	302	75-125	0			SO

MSD				Sample ID: <b>20040295-01AMSD</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>4/8/2020 10:47 PM</b>	
Client ID:		Run ID: <b>ICPMS3_200408B</b>			SeqNo: <b>6346282</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	8.96	0.32	6.418	1.918	110	75-125	8.768	2.16	20	
Barium	127.5	0.32	6.418	120.5	109	75-125	127	0.387	20	EO
Boron	44.95	1.3	32.09	11.08	106	75-125	43.9	2.38	20	
Cadmium	6.83	0.13	6.418	0.2231	103	75-125	6.557	4.09	20	
Chromium	27.7	0.32	6.418	21.37	98.6	75-125	27.48	0.795	20	
Lead	5.839	0.32	6.418	2.252	55.9	75-125	5.735	1.8	20	S
Nickel	11.51	0.32	6.418	5.161	98.9	75-125	11.39	0.977	20	
Selenium	9.853	0.32	6.418	1.825	125	75-125	9.173	7.15	20	S
Silver	7.077	0.32	6.418	0.9044	96.2	75-125	6.892	2.65	20	

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

<b>MSD</b>		Sample ID: <b>20040295-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/9/2020 04:40 PM</b>			
Client ID:		Run ID: <b>ICPMS3_200409B</b>				SeqNo: <b>6349304</b>		Prep Date: <b>4/8/2020</b>		DF: <b>10</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	170.9	6.4	6.418	161.6	145	75-125	168.7	1.29	20	SO	

<b>MSD</b>		Sample ID: <b>20040295-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>4/10/2020 02:50 PM</b>			
Client ID:		Run ID: <b>ICPMS3_200410B</b>				SeqNo: <b>6350318</b>		Prep Date: <b>4/8/2020</b>		DF: <b>100</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	133.1	32	6.418	119.5	212	75-125	138.9	4.31	20	SO	

The following samples were analyzed in this batch:

20040274-02A	20040274-03A	20040274-04A
20040274-05A		

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



**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 Spill

## QC BATCH REPORT

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

<b>DUP</b>		Sample ID: <b>20040273-01BDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>4/9/2020 04:33 PM</b>		
Client ID:		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:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

<b>DUP</b>		Sample ID: <b>20040273-01BDUP</b>				Units: <b>none</b>		Analysis Date: <b>4/9/2020</b>		
Client ID:		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:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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								
Surr: 2-Fluorobiphenyl	1367	0	3333	0	41	20-140	0			
Surr: 4-Terphenyl-d14	3049	0	3333	0	91.5	22-172	0			
Surr: Nitrobenzene-d5	2394	0	3333	0	71.8	28-140	0			

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			
Surr: 2-Fluorobiphenyl	1209	0	3333	0	36.3	20-140	0			
Surr: 4-Terphenyl-d14	3011	0	3333	0	90.3	22-172	0			
Surr: Nitrobenzene-d5	1687	0	3333	0	50.6	28-140	0			

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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:

20040274-01A

20040274-02A

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154358** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: <b>SBLKS1-154358-154358</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/8/2020 04:54 PM</b>		
Client ID:		Run ID: <b>SVMS6_200408A</b>				SeqNo: <b>6346939</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
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>	3617	0	3333	0	109	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3153	0	3333	0	94.6	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2887	0	3333	0	86.6	28-140	0			

LCS		Sample ID: <b>SLCSS1-154358-154358</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>4/8/2020 05:09 PM</b>		
Client ID:		Run ID: <b>SVMS6_200408A</b>				SeqNo: <b>6346940</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
Acenaphthene	1017	4.2	1333	0	76.3	40-140	0			
Anthracene	1093	4.2	1333	0	82	40-140	0			
Benzo(a)anthracene	1003	4.2	1333	0	75.3	40-140	0			
Benzo(a)pyrene	963.4	4.2	1333	0	72.3	40-140	0			
Benzo(b)fluoranthene	943.5	4.2	1333	0	70.8	40-140	0			
Benzo(k)fluoranthene	975.1	4.2	1333	0	73.2	40-140	0			
Chrysene	1016	4.2	1333	0	76.2	40-140	0			
Dibenzo(a,h)anthracene	974.3	4.2	1333	0	73.1	40-140	0			
Fluoranthene	1173	4.2	1333	0	88	40-140	0			
Fluorene	1070	4.2	1333	0	80.3	40-140	0			
Indeno(1,2,3-cd)pyrene	994.7	4.2	1333	0	74.6	40-140	0			
Naphthalene	1089	4.2	1333	0	81.7	40-140	0			
Pyrene	1022	4.2	1333	0	76.7	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	3538	0	3333	0	106	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3134	0	3333	0	94	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2521	0	3333	0	75.6	28-140	0			

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

# QC BATCH REPORT

Batch ID: **154358** Instrument ID **SVMS6** Method: **SW846 8270D**

MS				Sample ID: 20040467-01A MS			Units: µg/Kg		Analysis Date: 4/8/2020 05:25 PM		
Client ID:		Run ID: SVMS6_200408A			SeqNo: 6346941		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	
Acenaphthene	927.1	4.1	1306	0	71	40-140	0				
Anthracene	1012	4.1	1306	0	77.5	40-140	0				
Benzo(a)anthracene	941	4.1	1306	0	72.1	40-140	0				
Benzo(a)pyrene	925.3	4.1	1306	0	70.9	40-140	0				
Benzo(b)fluoranthene	926.5	4.1	1306	0	71	40-140	0				
Benzo(k)fluoranthene	887.4	4.1	1306	0	68	40-140	0				
Chrysene	956.5	4.1	1306	0	73.3	40-140	0				
Dibenzo(a,h)anthracene	953.9	4.1	1306	0	73.1	40-140	0				
Fluoranthene	1074	4.1	1306	0	82.2	40-140	0				
Fluorene	971.2	4.1	1306	0	74.4	40-140	0				
Indeno(1,2,3-cd)pyrene	955.3	4.1	1306	0	73.2	40-140	0				
Naphthalene	1007	4.1	1306	0	77.1	40-140	0				
Pyrene	1007	4.1	1306	0	77.1	40-140	0				
Surr: 2-Fluorobiphenyl	3304	0	3265	0	101	20-140	0				
Surr: 4-Terphenyl-d14	3099	0	3265	0	94.9	22-172	0				
Surr: Nitrobenzene-d5	2431	0	3265	0	74.5	28-140	0				

MSD				Sample ID: 20040467-01A MSD			Units: µg/Kg		Analysis Date: 4/8/2020 05:40 PM		
Client ID:			Run ID: SVMS6_200408A			SeqNo: 6346942		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	
Acenaphthene	809.7	4.0	1266	0	64	40-140	927.1	13.5	30		
Anthracene	885.3	4.0	1266	0	69.9	40-140	1012	13.3	30		
Benzo(a)anthracene	818.1	4.0	1266	0	64.6	40-140	941	14	30		
Benzo(a)pyrene	806.5	4.0	1266	0	63.7	40-140	925.3	13.7	30		
Benzo(b)fluoranthene	807.1	4.0	1266	0	63.8	40-140	926.5	13.8	30		
Benzo(k)fluoranthene	764	4.0	1266	0	60.3	40-140	887.4	14.9	30		
Chrysene	828.6	4.0	1266	0	65.5	40-140	956.5	14.3	30		
Dibenzo(a,h)anthracene	827.1	4.0	1266	0	65.3	40-140	953.9	14.2	30		
Fluoranthene	940.9	4.0	1266	0	74.3	40-140	1074	13.2	30		
Fluorene	852.7	4.0	1266	0	67.4	40-140	971.2	13	30		
Indeno(1,2,3-cd)pyrene	834.5	4.0	1266	0	65.9	40-140	955.3	13.5	30		
Naphthalene	891.1	4.0	1266	0	70.4	40-140	1007	12.2	30		
Pyrene	841.1	4.0	1266	0	66.4	40-140	1007	18	30		
Surr: 2-Fluorobiphenyl	2928	0	3165	0	92.5	20-140	3304	12.1	0		
Surr: 4-Terphenyl-d14	2654	0	3165	0	83.8	22-172	3099	15.5	0		
Surr: Nitrobenzene-d5	2207	0	3165	0	69.7	28-140	2431	9.63	0		

The following samples were analyzed in this batch:

20040274-03A	20040274-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

# QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MBLK				Sample ID: MBLK-154268-154268				Units: µg/Kg-dry		Analysis Date: 4/6/2020 05:56 PM	
Client ID:			Run ID: VMS10_200406A			SeqNo: 6342816		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	U	30	0	0	0	0-0	0				
Ethylbenzene	U	30	0	0	0	0-0	0				
m,p-Xylene	U	60	0	0	0	0-0	0				
o-Xylene	U	30	0	0	0	0-0	0				
Toluene	U	30	0	0	0	0-0	0				
Xylenes, Total	U	90	0	0	0	0-0	0				
Surr: 1,2-Dichloroethane-d4	951	0	1000	0	95.1	70-130	0				
Surr: 4-Bromofluorobenzene	971.5	0	1000	0	97.2	70-130	0				
Surr: Dibromofluoromethane	985.5	0	1000	0	98.6	70-130	0				
Surr: Toluene-d8	940.5	0	1000	0	94	70-130	0				

LCS				Sample ID: LCS-154268-154268			Units: µg/Kg-dry		Analysis Date: 4/6/2020 04:55 PM		
Client ID:		Run ID: VMS10_200406A			SeqNo: 6342815		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	1062	30	1000	0	106	75-125	0				
Ethylbenzene	968	30	1000	0	96.8	75-125	0				
m,p-Xylene	1990	60	2000	0	99.5	80-125	0				
o-Xylene	996	30	1000	0	99.6	75-125	0				
Toluene	979.5	30	1000	0	98	70-125	0				
Xylenes, Total	2986	90	3000	0	99.5	75-125	0				
Surr: 1,2-Dichloroethane-d4	932.5	0	1000	0	93.2	70-130	0				
Surr: 4-Bromofluorobenzene	1030	0	1000	0	103	70-130	0				
Surr: Dibromofluoromethane	1014	0	1000	0	101	70-130	0				
Surr: Toluene-d8	1004	0	1000	0	100	70-130	0				

MS					Sample ID: 20040275-01A MS			Units: µg/Kg-dry		Analysis Date: 4/7/2020 12:25 PM	
Client ID:			Run ID: VMS10_200406A			SeqNo: 6342827		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	1902	57	1886	0	101	75-125	0				
Ethylbenzene	1709	57	1886	0	90.6	75-125	0				
m,p-Xylene	3460	110	3773	26.24	91	80-125	0				
o-Xylene	1750	57	1886	10.31	92.2	75-125	0				
Toluene	1700	57	1886	31.86	88.4	70-125	0				
Xylenes, Total	5209	170	5659	0	92	75-125	0				
Surr: 1,2-Dichloroethane-d4	1800	0	1886	0	95.4	70-130	0				
Surr: 4-Bromofluorobenzene	2037	0	1886	0	108	70-130	0				
Surr: Dibromofluoromethane	1884	0	1886	0	99.9	70-130	0				
Surr: Toluene-d8	1817	0	1886	0	96.3	70-130	0				

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



Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MSD				Sample ID: <b>20040275-01A MSD</b>			Units: <b>µg/Kg-dry</b>		Analysis Date: <b>4/7/2020 12:45 PM</b>	
Client ID:				Run ID: <b>VMS10_200406A</b>			SeqNo: <b>6342829</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	1954	59	1982	0	98.6	75-125	1902	2.7	30	
Ethylbenzene	1726	59	1982	0	87.1	75-125	1709	1.01	30	
m,p-Xylene	3489	120	3964	26.24	87.3	80-125	3460	0.834	30	
o-Xylene	1801	59	1982	10.31	90.3	75-125	1750	2.88	30	
Toluene	1695	59	1982	31.86	83.9	70-125	1700	0.288	30	
Xylenes, Total	5289	180	5946	0	88.9	75-125	5209	1.53	30	
Surr: 1,2-Dichloroethane-d4	1849	0	1982	0	93.3	70-130	1800	2.73	30	
Surr: 4-Bromofluorobenzene	2045	0	1982	0	103	70-130	2037	0.358	30	
Surr: Dibromofluoromethane	1980	0	1982	0	99.9	70-130	1884	4.95	30	
Surr: Toluene-d8	1906	0	1982	0	96.2	70-130	1817	4.8	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 Spill

## QC BATCH REPORT

Batch ID: **154229** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-154229-154229				Units: s.u.			Analysis Date: 4/5/2020 11:30 AM			
Client ID:				Run ID: WETCHEM_200405B				SeqNo: 6340320			Prep Date: 4/4/2020		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		3.97	0.10	4	0	99.2	90-110	0						

DUP				Sample ID: 20040260-01A DUP				Units: s.u.			Analysis Date: 4/5/2020 11:30 AM			
Client ID:				Run ID: WETCHEM_200405B				SeqNo: 6340322			Prep Date: 4/4/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	7.36	0.10	0	0	0	0-0	7.69	4.39	20					
Temperature	20	0.10	0	0	0		19.8	1.01						

DUP				Sample ID: 20040274-05A DUP				Units: s.u.			Analysis Date: 4/5/2020 11:30 AM			
Client ID: CAR41Y34-BG1				Run ID: WETCHEM_200405B				SeqNo: 6340325			Prep Date: 4/4/2020		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		8.43	0.10	0	0	0	0-0	8.43	0	20				
Temperature		19.9	0.10	0	0	0		20	0.501					

The following samples were analyzed in this batch:

20040274-05A

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 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:		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:		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:		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:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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

**Client:** Entrada Consulting Group  
**Work Order:** 20040274  
**Project:** Carney 41Y34 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:		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:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group  
 Work Order: 20040274  
 Project: Carney 41Y34 Spill

## QC BATCH REPORT

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

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

Moisture U 0.10

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

Moisture 99.99 0.10 100 0 100 98-102 0

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

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

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

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

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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

ALS Project Manager:

Work Order #:

70040274

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	Carney 41Y34 Spill	A TPH (GRO & DRO)											
Work Order		Project Number	018-066	B BTEX											
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C PAH (See Attached List) CO Table 910											
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky	D Electrical Conductivity											
Address	330 Grand Ave, STE C	Address		E Sodium Adsorption Ratio											
				F pH											
City/State/Zip	Grand Junction, CO 81501	City/State/Zip		G Metals (See Attached List) CO Table 910											
Phone	970.270.2986	Phone		H Arsenic Only											
Fax		Fax		I											
e-Mail Address	tdobransky@entradainc.com	e-Mail Address	tdobransky@entradainc.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CAR41Y34-SS1	4/1/20	830	Soil	8	2	X	X	X	X	X	X	X				
2	CAR41Y34-SS2	4/1/20	945	Soil	8	2	X	X	X	X	X	X	X				
3	CAR41Y34-SS3	4/1/20	1000	Soil	8	2	X	X	X	X	X	X	X				
4	CAR41Y34-SS4	4/1/20	1015	Soil	8	2	X	X	X	X	X	X	X				
5	CAR41Y34-BG1	4/1/20	1030	Soil	8	2				X	X	X	X				
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign Jason McLarty		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: J McLarty	Date: 4/2/20	Time: 1000	Received by: [Signature]	Notes: Chevron Pricing Applies - Per Bruce Schlatter			
Relinquished by: [Signature]	Date: 4-2-20	Time: 1015	Received by (Laboratory): [Signature]	Cooler Temp. 3.8°	QC Package: (Check Box Below)		
Logged by (Laboratory): Kew	Date: 4/3/20	Time: 1015	Checked by (Laboratory): [Signature]		<input checked="" type="checkbox"/> Level II: Standard QC		
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035					<input type="checkbox"/> Level III: Std QC + Raw Data		
					<input type="checkbox"/> Level IV: SW846 CLP-Like		
					Other:		

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

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Sample Receipt Checklist

Client Name: **ENTRADA**

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

Work Order: **20040274**

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 4:34:08 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: