



08-Jul-2020

Mike Gardner  
Terra Energy Partners, LLC  
1058 Country Rd 215  
Parachute, CO 81635

Re: **GM 41-4-796 Gas Sales Line Leak**

Work Order: **20070170**

Dear Mike,

ALS Environmental received 4 samples on 02-Jul-2020 10:30 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 27.

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", is written over a faint, larger version of the same signature.

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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**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Work Order:** 20070170

**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>
20070170-01	SL-1: Bottom of Excavation	Soil		7/1/2020 15:00	7/2/2020 10:30	<input type="checkbox"/>
20070170-02	SL-2: Side Walls of excavation - north half	Soil		7/1/2020 15:00	7/2/2020 10:30	<input type="checkbox"/>
20070170-03	SL-2: Side Walls of excavation - south half	Soil		7/1/2020 15:00	7/2/2020 10:30	<input type="checkbox"/>
20070170-04	SL-4: Background	Soil		7/1/2020 15:00	7/2/2020 10:30	<input type="checkbox"/>

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**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Work Order:** 20070170

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**Case Narrative**

Batch 158475, Method ICP\_6020\_S, Sample 20070170-04A MS/MSD: The MS/MSD recoveries were outside of the control limits for Arsenic and Chromium. However, the MSD recoveries and the RPDs between the MS and MSD were in control. No qualification is required.

Batch 158475, Method ICP\_6020\_S, Sample 20070170-04A MS/MSD: The MS/MSD recoveries were outside of the control limits for Barium and Zinc; however, the results in the parent sample are greater than 4x the spike amount. No qualification is required.

Batch 158475, Method ICP\_6020\_S, Sample 20070170-04A MS/MSD: The MS/MSD recovery was above the upper control limit for Lead. The corresponding result in the parent sample may be biased high for this analyte.

Batch 158563, Method CR6\_7196\_S, Sample 20070170-02A MSD: The MSD recovery was outside of the control limit for hexavalent chromium. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required.

<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	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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-1: Bottom of Excavation  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-01  
**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 / 7/2/20		Analyst: <b>JZB</b>
<b>DRO (C10-C28)</b>	<b>5.5</b>	J	<b>3.3</b>	<b>12</b>	<b>mg/Kg-dry</b>	1	7/6/2020 11:24
<i>Surr: 4-Terphenyl-d14</i>	61.2			33-111	%REC	1	7/6/2020 11:24
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 7/3/20		Analyst: <b>JZB</b>
<b>GRO (C6-C10)</b>	<b>6.3</b>	J	<b>2.8</b>	<b>6.8</b>	<b>mg/Kg</b>	1	7/6/2020 13:32
<i>Surr: Toluene-d8</i>	91.9			71-123	%REC	1	7/6/2020 13:32
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 7/6/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.21</b>		<b>0.014</b>	<b>0.020</b>	<b>mg/Kg-dry</b>	1	7/6/2020 15:06
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 7/2/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>5.6</b>		<b>0.055</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Barium</b>	<b>210</b>		<b>4.2</b>	<b>4.6</b>	<b>mg/Kg-dry</b>	10	7/6/2020 15:06
<b>Cadmium</b>	<b>0.30</b>		<b>0.027</b>	<b>0.18</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Chromium</b>	<b>8.1</b>		<b>0.20</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Copper</b>	<b>10</b>		<b>0.46</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Lead</b>	<b>11</b>		<b>0.22</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Nickel</b>	<b>12</b>		<b>0.24</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>Selenium</b>	<b>0.53</b>		<b>0.42</b>	<b>0.46</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
Silver	U		0.060	0.46	mg/Kg-dry	1	7/2/2020 20:08
<b>Zinc</b>	<b>43</b>		<b>0.89</b>	<b>0.91</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:08
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>STP</b>
<b>Calcium</b>	<b>670</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	7/6/2020 15:26
<b>Magnesium</b>	<b>180</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	7/6/2020 15:26
<b>Sodium</b>	<b>620</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	7/6/2020 15:26
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>5.5</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	7/6/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW8270E</b>		Prep: SW3546 / 7/2/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00091	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Anthracene	U		0.0016	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Benzo(a)anthracene	U		0.0019	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Benzo(a)pyrene	U		0.0013	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Benzo(b)fluoranthene	U		0.0011	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Benzo(k)fluoranthene	U		0.0014	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Chrysene	U		0.00097	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Dibenzo(a,h)anthracene	U		0.0011	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Fluoranthene	U		0.00086	0.0047	mg/Kg-dry	1	7/6/2020 15:03

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-1: Bottom of Excavation  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Naphthalene	U		0.0020	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Pyrene	U		0.00078	0.0047	mg/Kg-dry	1	7/6/2020 15:03
Surr: 2-Fluorobiphenyl	0			20-140	%REC	1	7/6/2020 15:03
Surr: 4-Terphenyl-d14	0			22-172	%REC	1	7/6/2020 15:03
Surr: Nitrobenzene-d5	0			28-140	%REC	1	7/6/2020 15:03
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>Method: SW8260C</b>		<b>Prep: SW5035 / 7/3/20</b>		<b>Analyst: SJB</b>
Benzene	U		0.0070	0.041	mg/Kg-dry	1	7/3/2020 17:17
Ethylbenzene	U		0.0086	0.041	mg/Kg-dry	1	7/3/2020 17:17
m,p-Xylene	U		0.054	0.082	mg/Kg-dry	1	7/3/2020 17:17
o-Xylene	U		0.016	0.041	mg/Kg-dry	1	7/3/2020 17:17
Toluene	U		0.011	0.041	mg/Kg-dry	1	7/3/2020 17:17
Xylenes, Total	U		0.054	0.12	mg/Kg-dry	1	7/3/2020 17:17
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	7/3/2020 17:17
Surr: 4-Bromofluorobenzene	95.2			70-130	%REC	1	7/3/2020 17:17
Surr: Dibromofluoromethane	95.7			70-130	%REC	1	7/3/2020 17:17
Surr: Toluene-d8	96.8			70-130	%REC	1	7/3/2020 17:17
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>Method: USDA H60 METHOD 2</b>		<b>Prep: USDA Method 20B / 7/6/20</b>		<b>Analyst: QTN</b>
Electrical Conductivity @ Saturation	8.0		0.011	0.10	mmhos/cm @25°	20	7/6/2020 14:30
<b>CHROMIUM, TRIVALENT</b>			<b>Method: CALCULATION</b>				<b>Analyst: JB</b>
Chromium, Trivalent	8.1		1.0	1.2	mg/Kg-dry	1	7/6/2020 16:30
<b>CHROMIUM, HEXAVALENT</b>			<b>Method: SW7196A</b>		<b>Prep: SW3060A / 7/6/20</b>		<b>Analyst: KTP</b>
Chromium, Hexavalent	U		0.97	1.1	mg/Kg-dry	1	7/6/2020 15:16
<b>MOISTURE</b>			<b>Method: SW3550C</b>				<b>Analyst: KTP</b>
Moisture	15		0.10	0.10	% of sample	1	7/2/2020 19:09
<b>PH</b>			<b>Method: SW9045D</b>		<b>Prep: EXTRACT / 7/2/20</b>		<b>Analyst: QTN</b>
pH	8.16		0.10	0.100	s.u.	1	7/6/2020 11:58
Temperature	20.9		0.10	0.100	°C	1	7/6/2020 11:58

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-2: Side Walls of excavation - north half  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-02  
**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 / 7/2/20		Analyst: <b>JZB</b>
<b>DRO (C10-C28)</b>	<b>3.7</b>	J	<b>3.3</b>	<b>11</b>	<b>mg/Kg-dry</b>	1	7/6/2020 12:03
Surr: 4-Terphenyl-d14	59.0			33-111	%REC	1	7/6/2020 12:03
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>		Prep: SW5035 / 7/3/20		Analyst: <b>JZB</b>
<b>GRO (C6-C10)</b>	<b>8.6</b>		<b>2.8</b>	<b>6.8</b>	<b>mg/Kg</b>	1	7/6/2020 13:55
Surr: Toluene-d8	93.6			71-123	%REC	1	7/6/2020 13:55
<b>MERCURY BY CVAA</b>							
			Method: <b>SW7471B</b>		Prep: SW7471 / 7/6/20		Analyst: <b>MAC</b>
<b>Mercury</b>	<b>0.13</b>		<b>0.013</b>	<b>0.020</b>	<b>mg/Kg-dry</b>	1	7/6/2020 15:08
<b>METALS BY ICP-MS</b>							
			Method: <b>SW6020B</b>		Prep: SW3050B / 7/2/20		Analyst: <b>STP</b>
<b>Arsenic</b>	<b>7.7</b>		<b>0.053</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Barium</b>	<b>220</b>		<b>4.1</b>	<b>4.4</b>	<b>mg/Kg-dry</b>	10	7/6/2020 15:08
<b>Cadmium</b>	<b>0.52</b>		<b>0.026</b>	<b>0.18</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Chromium</b>	<b>9.9</b>		<b>0.19</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Copper</b>	<b>20</b>		<b>4.4</b>	<b>4.4</b>	<b>mg/Kg-dry</b>	10	7/6/2020 15:08
<b>Lead</b>	<b>14</b>		<b>0.21</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Nickel</b>	<b>14</b>		<b>0.23</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Selenium</b>	<b>0.86</b>		<b>0.41</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Silver</b>	<b>0.065</b>	J	<b>0.058</b>	<b>0.44</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>Zinc</b>	<b>58</b>		<b>0.86</b>	<b>0.88</b>	<b>mg/Kg-dry</b>	1	7/2/2020 20:10
<b>SOLUBLE CATIONS FOR SAR</b>							
			Method: <b>SW6020B</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>STP</b>
<b>Calcium</b>	<b>540</b>		<b>2.5</b>	<b>5.0</b>	<b>mg/L</b>	10	7/6/2020 15:28
<b>Magnesium</b>	<b>140</b>		<b>0.50</b>	<b>2.0</b>	<b>mg/L</b>	10	7/6/2020 15:28
<b>Sodium</b>	<b>570</b>		<b>0.45</b>	<b>2.0</b>	<b>mg/L</b>	10	7/6/2020 15:28
<b>SODIUM ADSORPTION RATIO</b>							
			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>STP</b>
<b>Sodium Adsorption Ratio</b>	<b>5.6</b>		<b>0.010</b>	<b>0.010</b>	<b>none</b>	1	7/6/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
			Method: <b>SW8270E</b>		Prep: SW3546 / 7/2/20		Analyst: <b>EEW</b>
Acenaphthene	U		0.00089	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Anthracene	U		0.0015	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Benzo(a)anthracene	U		0.0019	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Benzo(a)pyrene	U		0.0013	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Benzo(b)fluoranthene	U		0.0011	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Benzo(k)fluoranthene	U		0.0014	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Chrysene	U		0.00095	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Dibenzo(a,h)anthracene	U		0.0011	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Fluoranthene	U		0.00085	0.0046	mg/Kg-dry	1	7/6/2020 15:19

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-2: Side Walls of excavation - north half  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0015	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Indeno(1,2,3-cd)pyrene	U		0.0016	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Naphthalene	U		0.0020	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Pyrene	U		0.00076	0.0046	mg/Kg-dry	1	7/6/2020 15:19
Surr: 2-Fluorobiphenyl	0			20-140	%REC	1	7/6/2020 15:19
Surr: 4-Terphenyl-d14	0			22-172	%REC	1	7/6/2020 15:19
Surr: Nitrobenzene-d5	0			28-140	%REC	1	7/6/2020 15:19
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 7/3/20		Analyst: <b>SJB</b>
Benzene	U		0.0069	0.041	mg/Kg-dry	1	7/3/2020 17:34
Ethylbenzene	U		0.0086	0.041	mg/Kg-dry	1	7/3/2020 17:34
m,p-Xylene	U		0.054	0.081	mg/Kg-dry	1	7/3/2020 17:34
o-Xylene	U		0.016	0.041	mg/Kg-dry	1	7/3/2020 17:34
Toluene	U		0.011	0.041	mg/Kg-dry	1	7/3/2020 17:34
Xylenes, Total	U		0.054	0.12	mg/Kg-dry	1	7/3/2020 17:34
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	7/3/2020 17:34
Surr: 4-Bromofluorobenzene	95.1			70-130	%REC	1	7/3/2020 17:34
Surr: Dibromofluoromethane	91.1			70-130	%REC	1	7/3/2020 17:34
Surr: Toluene-d8	98.9			70-130	%REC	1	7/3/2020 17:34
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	6.9		0.011	0.10	mmhos/cm @25°	20	7/6/2020 14:30
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JB</b>
Chromium, Trivalent	9.9		0.98	1.2	mg/Kg-dry	1	7/6/2020 16:30
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 7/6/20		Analyst: <b>KTP</b>
Chromium, Hexavalent	U		0.96	1.1	mg/Kg-dry	1	7/6/2020 15:16
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	14		0.10	0.10	% of sample	1	7/2/2020 19:09
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 7/2/20		Analyst: <b>QTN</b>
pH	7.98		0.10	0.100	s.u.	1	7/6/2020 11:58
Temperature	21.0		0.10	0.100	°C	1	7/6/2020 11:58

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-2: Side Walls of excavation - south half  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
				Method: SW8015D		Prep: SW3550 / 7/2/20	Analyst: JZB
DRO (C10-C28)	3.6	J	3.4	12	mg/Kg-dry	1	7/6/2020 12:42
Surr: 4-Terphenyl-d14	59.9			33-111	%REC	1	7/6/2020 12:42
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
				Method: SW8015D		Prep: SW5035 / 7/3/20	Analyst: JZB
GRO (C6-C10)	12		3.0	7.1	mg/Kg	1	7/6/2020 14:18
Surr: Toluene-d8	97.7			71-123	%REC	1	7/6/2020 14:18
<b>MERCURY BY CVAA</b>							
				Method: SW7471B		Prep: SW7471 / 7/6/20	Analyst: MAC
Mercury	0.12		0.014	0.021	mg/Kg-dry	1	7/6/2020 15:10
<b>METALS BY ICP-MS</b>							
				Method: SW6020B		Prep: SW3050B / 7/2/20	Analyst: STP
Arsenic	18		0.057	0.47	mg/Kg-dry	1	7/2/2020 20:12
Barium	250		4.4	4.7	mg/Kg-dry	10	7/6/2020 15:10
Cadmium	0.49		0.028	0.19	mg/Kg-dry	1	7/2/2020 20:12
Chromium	9.3		0.21	0.47	mg/Kg-dry	1	7/2/2020 20:12
Copper	14		0.47	0.47	mg/Kg-dry	1	7/2/2020 20:12
Lead	14		0.23	0.47	mg/Kg-dry	1	7/2/2020 20:12
Nickel	13		0.25	0.47	mg/Kg-dry	1	7/2/2020 20:12
Selenium	0.95		0.44	0.47	mg/Kg-dry	1	7/2/2020 20:12
Silver	U		0.062	0.47	mg/Kg-dry	1	7/2/2020 20:12
Zinc	52		0.93	0.95	mg/Kg-dry	1	7/2/2020 20:12
<b>SOLUBLE CATIONS FOR SAR</b>							
				Method: SW6020B		Prep: USDA Method 20B / 7/6/20	Analyst: STP
Calcium	330		2.5	5.0	mg/L	10	7/6/2020 15:31
Magnesium	91		0.50	2.0	mg/L	10	7/6/2020 15:31
Sodium	420		0.45	2.0	mg/L	10	7/6/2020 15:31
<b>SODIUM ADSORPTION RATIO</b>							
				Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 7/6/20	Analyst: STP
Sodium Adsorption Ratio	5.3		0.010	0.010	none	1	7/6/2020
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)</b>							
				Method: SW8270E		Prep: SW3546 / 7/2/20	Analyst: EEW
Acenaphthene	U		0.00096	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Benzo(a)anthracene	U		0.0020	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Fluoranthene	U		0.00092	0.0050	mg/Kg-dry	1	7/6/2020 15:34

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-2: Side Walls of excavation - south half  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-03  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Naphthalene	U		0.0022	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Pyrene	U		0.00082	0.0050	mg/Kg-dry	1	7/6/2020 15:34
Surr: 2-Fluorobiphenyl	0			20-140	%REC	1	7/6/2020 15:34
Surr: 4-Terphenyl-d14	0			22-172	%REC	1	7/6/2020 15:34
Surr: Nitrobenzene-d5	0			28-140	%REC	1	7/6/2020 15:34
<b>VOLATILE ORGANIC COMPOUNDS</b>			Method: <b>SW8260C</b>		Prep: SW5035 / 7/3/20		Analyst: <b>SJB</b>
Benzene	U		0.0073	0.043	mg/Kg-dry	1	7/3/2020 17:51
Ethylbenzene	U		0.0090	0.043	mg/Kg-dry	1	7/3/2020 17:51
m,p-Xylene	U		0.057	0.085	mg/Kg-dry	1	7/3/2020 17:51
o-Xylene	U		0.016	0.043	mg/Kg-dry	1	7/3/2020 17:51
Toluene	U		0.012	0.043	mg/Kg-dry	1	7/3/2020 17:51
Xylenes, Total	U		0.057	0.13	mg/Kg-dry	1	7/3/2020 17:51
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	7/3/2020 17:51
Surr: 4-Bromofluorobenzene	95.6			70-130	%REC	1	7/3/2020 17:51
Surr: Dibromofluoromethane	93.9			70-130	%REC	1	7/3/2020 17:51
Surr: Toluene-d8	99.4			70-130	%REC	1	7/3/2020 17:51
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			Method: <b>USDA H60 METHOD 2</b>		Prep: USDA Method 20B / 7/6/20		Analyst: <b>QTN</b>
Electrical Conductivity @ Saturation	4.8		0.011	0.10	mmhos/cm @25°	20	7/6/2020 14:30
<b>CHROMIUM, TRIVALENT</b>			Method: <b>CALCULATION</b>				Analyst: <b>JB</b>
Chromium, Trivalent	9.3		1.0	1.2	mg/Kg-dry	1	7/6/2020 16:30
<b>CHROMIUM, HEXAVALENT</b>			Method: <b>SW7196A</b>		Prep: SW3060A / 7/6/20		Analyst: <b>KTP</b>
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	7/6/2020 15:16
<b>MOISTURE</b>			Method: <b>SW3550C</b>				Analyst: <b>KTP</b>
Moisture	17		0.10	0.10	% of sample	1	7/2/2020 19:09
<b>PH</b>			Method: <b>SW9045D</b>		Prep: EXTRACT / 7/2/20		Analyst: <b>QTN</b>
pH	7.96		0.10	0.100	s.u.	1	7/6/2020 11:58
Temperature	20.8		0.10	0.100	°C	1	7/6/2020 11:58

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

**ALS Group, USA**

Date: 08-Jul-20

**Client:** Terra Energy Partners, LLC  
**Project:** GM 41-4-796 Gas Sales Line Leak  
**Sample ID:** SL-4: Background  
**Collection Date:** 7/1/2020 03:00 PM

**Work Order:** 20070170  
**Lab ID:** 20070170-04  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS BY ICP-MS</b>							
Arsenic	11		0.045	0.38	mg/Kg-dry	1	7/2/2020 20:13
Method: SW6020B      Prep: SW3050B / 7/2/20      Analyst: STP							
<b>SOLUBLE CATIONS FOR SAR</b>							
Calcium	70		2.5	5.0	mg/L	10	7/6/2020 15:33
Magnesium	12		0.50	2.0	mg/L	10	7/6/2020 15:33
Sodium	31		0.45	2.0	mg/L	10	7/6/2020 15:33
Method: SW6020B      Prep: USDA Method 20B / 7/6/20      Analyst: STP							
<b>SODIUM ADSORPTION RATIO</b>							
Sodium Adsorption Ratio	0.90		0.010	0.010	none	1	7/6/2020
Method: USDA H60 METHOD 2      Prep: USDA Method 20B / 7/6/20      Analyst: STP							
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>							
Electrical Conductivity @ Saturation	0.60		0.011	0.10	mmhos/cm @25°	20	7/6/2020 14:30
Method: USDA H60 METHOD 2      Prep: USDA Method 20B / 7/6/20      Analyst: QTN							
<b>MOISTURE</b>							
Moisture	3.0		0.10	0.10	% of sample	1	7/2/2020 19:09
Method: SW3550C      Analyst: KTP							

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 20070170  
**Project:** GM 41-4-796 Gas Sales Line Leak

**QC BATCH REPORT**

Batch ID: **158461** Instrument ID **GC8** Method: **SW8015D**

MBLK				Sample ID: <b>DBLKS1-158461-158461</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 10:06 AM</b>		
Client ID:		Run ID: <b>GC8_200706A</b>		SeqNo: <b>6540008</b>		Prep Date: <b>7/2/2020</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)	3.475	10	0	0	0		0			J
<i>Surr: 4-Terphenyl-d14</i>	2.134	0	3.33	0	64.1	33-111	0			

LCS				Sample ID: <b>DLCSS1-158461-158461</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 10:45 AM</b>		
Client ID:		Run ID: <b>GC8_200706A</b>		SeqNo: <b>6540009</b>		Prep Date: <b>7/2/2020</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)	338.4	10	333	0	102	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.003	0	3.33	0	60.2	33-111	0			

MS				Sample ID: <b>20062218-01C MS</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 10:30 PM</b>		
Client ID:		Run ID: <b>GC8_200706A</b>		SeqNo: <b>6542478</b>		Prep Date: <b>7/2/2020</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)	437.4	9.9	330.2	110.9	98.9	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.88	0	3.302	0	87.2	33-111	0			

MSD				Sample ID: <b>20062218-01C MSD</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 11:09 PM</b>		
Client ID:		Run ID: <b>GC8_200706A</b>		SeqNo: <b>6542479</b>		Prep Date: <b>7/2/2020</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)	465	9.8	327.6	110.9	108	80-121	437.4	6.11	30	
<i>Surr: 4-Terphenyl-d14</i>	3.019	0	3.276	0	92.2	33-111	2.88	4.72	30	

The following samples were analyzed in this batch: 

20070170-01A	20070170-02A	20070170-03A
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Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158525** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: <b>MBLK-158525-158525</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2020 01:09 PM</b>		
Client ID:		Run ID: <b>GC9_200706A</b>		SeqNo: <b>6540281</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	3160	5,000	0	0	0	71-123	0			J
<i>Surr: Toluene-d8</i>	4642	0	5000	0	92.8	71-123	0			

LCS		Sample ID: <b>LCS-158525-158525</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2020 12:23 PM</b>		
Client ID:		Run ID: <b>GC9_200706A</b>		SeqNo: <b>6540290</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	203200	5,000	250000	0	81.3	71-123	0			
<i>Surr: Toluene-d8</i>	4604	0	5000	0	92.1	71-123	0			

MS		Sample ID: <b>20062080-01C MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2020 04:57 PM</b>		
Client ID:		Run ID: <b>GC9_200706A</b>		SeqNo: <b>6542573</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	272900	6,800	338000	9506	77.9	71-123	0			
<i>Surr: Toluene-d8</i>	6251	0	6760	0	92.5	71-123	0			

MSD		Sample ID: <b>20062080-01C MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/6/2020 05:20 PM</b>		
Client ID:		Run ID: <b>GC9_200706A</b>		SeqNo: <b>6542574</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	320200	6,600	331600	9506	93.7	71-123	272900	15.9	30	
<i>Surr: Toluene-d8</i>	6031	0	6632	0	90.9	71-123	6251	3.57	30	

The following samples were analyzed in this batch: 20070170-01A 20070170-02A 20070170-03A

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158560** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: <b>MBLK-158560-158560</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:27 PM</b>		
Client ID:		Run ID: <b>HG4_200706A</b>		SeqNo: <b>6540131</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: <b>LCS-158560-158560</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:24 PM</b>		
Client ID:		Run ID: <b>HG4_200706A</b>		SeqNo: <b>6540130</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1667 0.020 0.1665 0 100 80-120 0

MS		Sample ID: <b>20070170-03AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:12 PM</b>		
Client ID: <b>SL-2: Side Walls of excavation - south half</b>		Run ID: <b>HG4_200706A</b>		SeqNo: <b>6540124</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2429 0.017 0.1415 0.09712 103 75-125 0

MSD		Sample ID: <b>20070170-03AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:14 PM</b>		
Client ID: <b>SL-2: Side Walls of excavation - south half</b>		Run ID: <b>HG4_200706A</b>		SeqNo: <b>6540125</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2553 0.017 0.1417 0.09712 112 75-125 0.2429 4.98 35

The following samples were analyzed in this batch: 20070170-01A 20070170-02A 20070170-03A

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158475** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK				Sample ID: <b>MBLK-158475-158475</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2020 07:27 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200702B</b>		SeqNo: <b>6538269</b>		Prep Date: <b>7/2/2020</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	0.25									
Barium	U	0.25									
Cadmium	U	0.10									
Chromium	U	0.25									
Copper	U	0.25									
Lead	U	0.25									
Nickel	U	0.25									
Selenium	U	0.25									
Silver	U	0.25									
Zinc	U	0.50									

LCS				Sample ID: <b>LCS-158475-158475</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2020 07:29 PM</b>		
Client ID:		Run ID: <b>ICPMS3_200702B</b>		SeqNo: <b>6538270</b>		Prep Date: <b>7/2/2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	5.165	0.25	5	0	103	80-120	0				
Barium	5.239	0.25	5	0	105	80-120	0				
Cadmium	5.45	0.10	5	0	109	80-120	0				
Chromium	5.304	0.25	5	0	106	80-120	0				
Copper	5.373	0.25	5	0	107	80-120	0				
Lead	5.287	0.25	5	0	106	80-120	0				
Nickel	5.237	0.25	5	0	105	80-120	0				
Selenium	5.275	0.25	5	0	105	80-120	0				
Silver	5.518	0.25	5	0	110	80-120	0				
Zinc	5.369	0.50	5	0	107	80-120	0				

MS				Sample ID: <b>20070170-04AMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2020 08:15 PM</b>		
Client ID: <b>SL-4: Background</b>		Run ID: <b>ICPMS3_200702B</b>		SeqNo: <b>6538297</b>		Prep Date: <b>7/2/2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.37	0.36	7.236	10.64	65.4	75-125	0			S	
Barium	206.5	0.36	7.236	173.8	451	75-125	0			SEO	
Cadmium	6.687	0.14	7.236	0.4324	86.4	75-125	0				
Chromium	16.87	0.36	7.236	7.506	129	75-125	0			S	
Copper	19.43	0.36	7.236	11.24	113	75-125	0				
Lead	22.03	0.36	7.236	12.66	130	75-125	0			S	
Nickel	19.32	0.36	7.236	11.26	111	75-125	0				
Selenium	6.469	0.36	7.236	0.6603	80.3	75-125	0				
Silver	6.008	0.36	7.236	0.04446	82.4	75-125	0				
Zinc	62.67	0.72	7.236	44.74	248	75-125	0			SO	

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 20070170  
**Project:** GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158475**      Instrument ID **ICPMS3**      Method: **SW6020B**

MSD		Sample ID: <b>20070170-04AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/2/2020 08:17 PM</b>		
Client ID: <b>SL-4: Background</b>		Run ID: <b>ICPMS3_200702B</b>				SeqNo: <b>6538298</b>		Prep Date: <b>7/2/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.89	0.37	7.31	10.64	85.4	75-125	15.37	9.39	20	
Barium	203.8	0.37	7.31	173.8	409	75-125	206.5	1.33	20	SEO
Cadmium	6.656	0.15	7.31	0.4324	85.1	75-125	6.687	0.472	20	
Chromium	15.65	0.37	7.31	7.506	111	75-125	16.87	7.52	20	
Copper	18.2	0.37	7.31	11.24	95.2	75-125	19.43	6.57	20	
Lead	22.54	0.37	7.31	12.66	135	75-125	22.03	2.32	20	S
Nickel	18.02	0.37	7.31	11.26	92.6	75-125	19.32	6.94	20	
Selenium	6.258	0.37	7.31	0.6603	76.6	75-125	6.469	3.32	20	
Silver	5.91	0.37	7.31	0.04446	80.2	75-125	6.008	1.65	20	
Zinc	56.68	0.73	7.31	44.74	163	75-125	62.67	10	20	SO

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
20070170-04A		

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: 158559 Instrument ID ICPMS3 Method: SW6020B

DUP		Sample ID: 20070170-02ADUP				Units: mg/L		Analysis Date: 7/6/2020 03:30 PM		
Client ID: SL-2: Side Walls of excavation - north half		Run ID: ICPMS3_200706A				SeqNo: 6539896		Prep Date: 7/6/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	582.1	5.0	0	0	0	0-0	541.4	7.26		
Magnesium	143.9	2.0	0	0	0	0-0	138.3	3.96		
Sodium	578.1	2.0	0	0	0	0-0	566.7	2		

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
20070170-04A		

Batch ID: 158559 Instrument ID SAR Method: USDA H60 Metho

DUP		Sample ID: 20070170-02ADUP				Units: none		Analysis Date: 7/6/2020		
Client ID: SL-2: Side Walls of excavation - north half		Run ID: SAR_200706A				SeqNo: 6540177		Prep Date: 7/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	5.562	0.010	0	0	0		5.626	1.14	50	

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
20070170-04A		

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: 158468 Instrument ID SVMS6 Method: SW8270E

MBLK		Sample ID: SBLKS1-158468-158468				Units: µg/Kg		Analysis Date: 7/6/2020 11:11 AM		
Client ID:		Run ID: SVMS6_200706A		SeqNo: 6540225		Prep Date: 7/2/2020		DF: 1		
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	3213	0	3333	0	96.4	20-140	0			
Surr: 4-Terphenyl-d14	3857	0	3333	0	116	22-172	0			
Surr: Nitrobenzene-d5	3274	0	3333	0	98.2	28-140	0			

LCS		Sample ID: SLCSS1-158468-158468				Units: µg/Kg		Analysis Date: 7/6/2020 11:27 AM		
Client ID:		Run ID: SVMS6_200706A		SeqNo: 6540226		Prep Date: 7/2/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1106	4.2	1333	0	83	40-140	0			
Anthracene	1225	4.2	1333	0	91.9	40-140	0			
Benzo(a)anthracene	1191	4.2	1333	0	89.4	40-140	0			
Benzo(a)pyrene	1148	4.2	1333	0	86.2	40-140	0			
Benzo(b)fluoranthene	1016	4.2	1333	0	76.2	40-140	0			
Benzo(k)fluoranthene	1179	4.2	1333	0	88.5	40-140	0			
Chrysene	1231	4.2	1333	0	92.4	40-140	0			
Dibenzo(a,h)anthracene	1246	4.2	1333	0	93.5	40-140	0			
Fluoranthene	1136	4.2	1333	0	85.2	40-140	0			
Fluorene	1164	4.2	1333	0	87.3	40-140	0			
Indeno(1,2,3-cd)pyrene	1233	4.2	1333	0	92.5	40-140	0			
Naphthalene	1181	4.2	1333	0	88.6	40-140	0			
Pyrene	1436	4.2	1333	0	108	40-140	0			
Surr: 2-Fluorobiphenyl	3124	0	3333	0	93.7	20-140	0			
Surr: 4-Terphenyl-d14	4265	0	3333	0	128	22-172	0			
Surr: Nitrobenzene-d5	2771	0	3333	0	83.1	28-140	0			

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: 158468 Instrument ID SVMS6 Method: SW8270E

MS				Sample ID: 20062369-09B MS			Units: µg/Kg		Analysis Date: 7/6/2020 02:17 PM		
Client ID:		Run ID: SVMS6_200706A		SeqNo: 6540227		Prep Date: 7/2/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1139	4.1	1323	0	86.1	40-140	0				
Anthracene	1249	4.1	1323	0	94.4	40-140	0				
Benzo(a)anthracene	1231	4.1	1323	0	93	40-140	0				
Benzo(a)pyrene	1168	4.1	1323	0	88.3	40-140	0				
Benzo(b)fluoranthene	1066	4.1	1323	0	80.6	40-140	0				
Benzo(k)fluoranthene	1192	4.1	1323	0	90.1	40-140	0				
Chrysene	1276	4.1	1323	0	96.5	40-140	0				
Dibenzo(a,h)anthracene	1250	4.1	1323	0	94.5	40-140	0				
Fluoranthene	1190	4.1	1323	0	90	40-140	0				
Fluorene	1186	4.1	1323	0	89.7	40-140	0				
Indeno(1,2,3-cd)pyrene	1240	4.1	1323	0	93.7	40-140	0				
Naphthalene	1243	4.1	1323	0	94	40-140	0				
Pyrene	1403	4.1	1323	0	106	40-140	0				
Surr: 2-Fluorobiphenyl	3198	0	3308	0	96.7	20-140	0				
Surr: 4-Terphenyl-d14	4109	0	3308	0	124	22-172	0				
Surr: Nitrobenzene-d5	3230	0	3308	0	97.6	28-140	0				

MSD				Sample ID: 20062369-09B MSD			Units: µg/Kg		Analysis Date: 7/6/2020 02:32 PM		
Client ID:		Run ID: SVMS6_200706A		SeqNo: 6540228		Prep Date: 7/2/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1127	4.0	1282	0	87.9	40-140	1139	1.05	30		
Anthracene	1231	4.0	1282	0	96	40-140	1249	1.41	30		
Benzo(a)anthracene	1217	4.0	1282	0	94.9	40-140	1231	1.13	30		
Benzo(a)pyrene	1119	4.0	1282	0	87.3	40-140	1168	4.25	30		
Benzo(b)fluoranthene	1021	4.0	1282	0	79.7	40-140	1066	4.24	30		
Benzo(k)fluoranthene	1137	4.0	1282	0	88.7	40-140	1192	4.72	30		
Chrysene	1250	4.0	1282	0	97.5	40-140	1276	2.08	30		
Dibenzo(a,h)anthracene	1207	4.0	1282	0	94.2	40-140	1250	3.49	30		
Fluoranthene	1150	4.0	1282	0	89.7	40-140	1190	3.41	30		
Fluorene	1169	4.0	1282	0	91.2	40-140	1186	1.49	30		
Indeno(1,2,3-cd)pyrene	1202	4.0	1282	0	93.8	40-140	1240	3.06	30		
Naphthalene	1229	4.0	1282	0	95.8	40-140	1243	1.19	30		
Pyrene	1373	4.0	1282	0	107	40-140	1403	2.2	30		
Surr: 2-Fluorobiphenyl	3136	0	3205	0	97.8	20-140	3198	1.98	0		
Surr: 4-Terphenyl-d14	3985	0	3205	0	124	22-172	4109	3.06	0		
Surr: Nitrobenzene-d5	3164	0	3205	0	98.7	28-140	3230	2.06	0		

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158524** Instrument ID **VMS8** Method: **SW8260C**

MBLK		Sample ID: <b>MBLK-158524-158524</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/4/2020 05:04 AM</b>		
Client ID:		Run ID: <b>VMS8_200703C</b>				SeqNo: <b>6538795</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1040</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>908</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>90.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>986</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: <b>LCS-158524-158524</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/4/2020 04:14 AM</b>		
Client ID:		Run ID: <b>VMS8_200703C</b>				SeqNo: <b>6538794</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1092	30	1000	0	109	75-125	0			
Ethylbenzene	959.5	30	1000	0	96	75-125	0			
m,p-Xylene	1906	60	2000	0	95.3	80-125	0			
o-Xylene	969.5	30	1000	0	97	75-125	0			
Toluene	1076	30	1000	0	108	70-125	0			
Xylenes, Total	2876	90	3000	0	95.9	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>984</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.4</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>963</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96.3</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>960</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>96</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: <b>20062080-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/4/2020 09:29 AM</b>		
Client ID:		Run ID: <b>VMS8_200703C</b>				SeqNo: <b>6538811</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1116	29	975.6	0	114	75-125	0			
Ethylbenzene	1023	29	975.6	0	105	75-125	0			
m,p-Xylene	2060	59	1951	0	106	80-125	0			
o-Xylene	1035	29	975.6	0	106	75-125	0			
Toluene	1143	29	975.6	0	117	70-125	0			
Xylenes, Total	3096	88	2927	0	106	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>947.3</i>	<i>0</i>	<i>975.6</i>	<i>0</i>	<i>97.1</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1020</i>	<i>0</i>	<i>975.6</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>840</i>	<i>0</i>	<i>975.6</i>	<i>0</i>	<i>86.1</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>984.4</i>	<i>0</i>	<i>975.6</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 20070170  
**Project:** GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158524**      Instrument ID **VMS8**      Method: **SW8260C**

MSD				Sample ID: <b>20062080-01A MSD</b>			Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/4/2020 09:45 AM</b>		
Client ID:		Run ID: <b>VMS8_200703C</b>		SeqNo: <b>6538812</b>		Prep Date: <b>7/3/2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1053	29	954.2	0	110	75-125	1116	5.78	30		
Ethylbenzene	955.6	29	954.2	0	100	75-125	1023	6.8	30		
m,p-Xylene	1921	57	1908	0	101	80-125	2060	7.02	30		
o-Xylene	951.3	29	954.2	0	99.7	75-125	1035	8.44	30		
Toluene	1081	29	954.2	0	113	70-125	1143	5.6	30		
Xylenes, Total	2872	86	2863	0	100	75-125	3096	7.49	30		
<i>Surr: 1,2-Dichloroethane-d4</i>	904.6	0	954.2	0	94.8	70-130	947.3	4.62	30		
<i>Surr: 4-Bromofluorobenzene</i>	976.6	0	954.2	0	102	70-130	1020	4.39	30		
<i>Surr: Dibromofluoromethane</i>	821.1	0	954.2	0	86	70-130	840	2.28	30		
<i>Surr: Toluene-d8</i>	952.3	0	954.2	0	99.8	70-130	984.4	3.31	30		

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Terra Energy Partners, LLC  
**Work Order:** 20070170  
**Project:** GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158507**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS		Sample ID: <b>LCS-158507-158507</b>				Units: <b>s.u.</b>		Analysis Date: <b>7/6/2020 11:58 AM</b>		
Client ID:		Run ID: <b>WETCHEM_200706A</b>		SeqNo: <b>6539166</b>		Prep Date: <b>7/2/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.99	0.10	4	0	99.8	90-110	0			

DUP		Sample ID: <b>20070170-02A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>7/6/2020 11:58 AM</b>		
Client ID: <b>SL-2: Side Walls of excavation - north half</b>		Run ID: <b>WETCHEM_200706A</b>		SeqNo: <b>6539174</b>		Prep Date: <b>7/2/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.02	0.10	0	0	0	0-0	7.98	0.5	20	
Temperature	20.8	0.10	0	0	0		21	0.957		

**The following samples were analyzed in this batch:**      20070170-01A      20070170-02A      20070170-03A

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **158563** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: <b>MBLK-158563-158563</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:16 PM</b>		
Client ID:		Run ID: <b>WETCHEM_200706H</b>		SeqNo: <b>6539731</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.98

LCS		Sample ID: <b>LCS-158563-158563</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:16 PM</b>		
Client ID:		Run ID: <b>WETCHEM_200706H</b>		SeqNo: <b>6539732</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.584 0.99 4.95 0 92.6 80-120 0

MS		Sample ID: <b>20070170-02A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:16 PM</b>		
Client ID: <b>SL-2: Side Walls of excavation - north half</b>		Run ID: <b>WETCHEM_200706H</b>		SeqNo: <b>6539735</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.243 0.97 4.854 0.5392 76.3 75-125 0

MS		Sample ID: <b>20070170-02A MSI</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:16 PM</b>		
Client ID: <b>SL-2: Side Walls of excavation - north half</b>		Run ID: <b>WETCHEM_200706H</b>		SeqNo: <b>6539737</b>		Prep Date: <b>7/6/2020</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 2170 100 2269 0.5392 95.6 75-125 0

MSD		Sample ID: <b>20070170-02A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/6/2020 03:16 PM</b>		
Client ID: <b>SL-2: Side Walls of excavation - north half</b>		Run ID: <b>WETCHEM_200706H</b>		SeqNo: <b>6539736</b>		Prep Date: <b>7/6/2020</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.079 0.99 4.95 0.5392 71.5 75-125 4.243 3.93 20 S

The following samples were analyzed in this batch: 20070170-01A 20070170-02A 20070170-03A

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

Client: Terra Energy Partners, LLC  
 Work Order: 20070170  
 Project: GM 41-4-796 Gas Sales Line Leak

# QC BATCH REPORT

Batch ID: **R292296** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: <b>WBLKS-R292296</b>				Units: % of sample		Analysis Date: <b>7/2/2020 07:09 PM</b>		
Client ID:		Run ID: <b>MOIST_200702E</b>		SeqNo: <b>6538458</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								

LCS		Sample ID: <b>LCS-R292296</b>				Units: % of sample		Analysis Date: <b>7/2/2020 07:09 PM</b>		
Client ID:		Run ID: <b>MOIST_200702E</b>		SeqNo: <b>6538457</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	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: <b>20070055-10A DUP</b>				Units: % of sample		Analysis Date: <b>7/2/2020 07:09 PM</b>		
Client ID:		Run ID: <b>MOIST_200702E</b>		SeqNo: <b>6538444</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	19.21	0.10	0	0	0	0-0	19.12	0.47	10	

DUP		Sample ID: <b>20070055-11A DUP</b>				Units: % of sample		Analysis Date: <b>7/2/2020 07:09 PM</b>		
Client ID:		Run ID: <b>MOIST_200702E</b>		SeqNo: <b>6538446</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	9.08	0.10	0	0	0	0-0	8.96	1.33	10	

The following samples were analyzed in this batch:

20070170-01A	20070170-02A	20070170-03A
20070170-04A		

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



**ALS Laboratory Group**  
HOLLAND, Michigan 49424

**Chain-of-Custody**

Form 202r8

WORKORDER #	20070170
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PROJECT NAME		GM 41-4-796 Gas Sales Line Leak	SAMPLER		Mike Gardner		DATE	7/1/2020		PAGE	1 of 1	
PROJECT No.			SITE ID		GM 41-4-796 Sales Line		TURNAROUND	RUSH		DISPOSAL		
COMPANY NAME		TEP Rocky Mountain LLC	BILL TO COMPANY		TEP Rocky Mountain LLC		Full COGCC 910-1 List Arsenic, SAR, EC					
SEND REPORT TO		Mike Gardner	INVOICE ATTN TO		Mike Gardner, Tammy Gose							
ADDRESS			ADDRESS		1058 Co Rd 215							
CITY / STATE / ZIP			CITY / STATE / ZIP		Parachute, CO 81635							
PHONE			PHONE		970-263-2760							
FAX			FAX									
E-MAIL		<a href="mailto:mgardner@terraep.com">mgardner@terraep.com</a>	E-MAIL		<a href="mailto:mgardner@terraep.com">mgardner@terraep.com</a> ; <a href="mailto:tgose@terraep.com">tgose@terraep.com</a>							
PURCHASE ORDER												
EDD FORMAT												
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC					
1	SL-1: Bottom of Excavation	Soil	7/1/2020	3:00 p.m.	1 x 16 oz		X					
2	SL-2: Side walls of excavation - north half	Soil	7/1/2020	3:00 p.m.	1 x 16 oz		X					
3	SL-3: Side walls of excavation - south half	Soil	7/1/2020	3:00 p.m.	1 x 16 oz		X					
4	SL-4: Background	Soil	7/1/2020	3:00 p.m.	1 x 16 oz		X					

\*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:  SRI 4.4' @	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Mike Gardner	7/1/2020	
RECEIVED BY	<i>[Signature]</i>	Wm	7-1-20	1800
RELINQUISHED BY	<i>[Signature]</i>	Wm	7-1-20	1830
RECEIVED BY	<i>[Signature]</i>	Diane E. Shea	7/2/20	1030
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **TERRAENERGY**

Date/Time Received: **02-Jul-20 10:30**

Work Order: **20070170**

Received by: **DS**

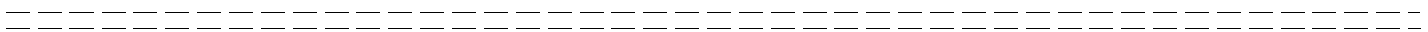
Checklist completed by Diane Shaw 02-Jul-20  
eSignature | Date

Reviewed by: Chad Whelton 02-Jul-20  
eSignature | Date

Matrices: Soil  
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.4/4.4 c</u>		<u>SR1</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>7/2/2020 1:59:40 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: