



22-Dec-2016

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

Re: **PA 41-31-695 Excavation**

Work Order: **1612814**

Dear Mike,

ALS Environmental received 1 sample on 14-Dec-2016 11:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental 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 22.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a white background.

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

Certificate No: MN 998501

### Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental The logo icon for ALS Environmental, a stylized blue triangle with a yellow flame-like shape inside.

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**Client:** Terra Energy Partners, LLC  
**Project:** PA 41-31-695 Excavation  
**Work Order:** 1612814

**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>
1612814-01	PA 41-31-695 Excavation	Soil		12/13/2016 15:00	12/14/2016 11:00	<input type="checkbox"/>

**Client:** Terra Energy Partners, LLC  
**Project:** PA 41-31-695 Excavation  
**WorkOrder:** 1612814

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
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
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

**Client:** Terra Energy Partners, LLC  
**Project:** PA 41-31-695 Excavation  
**Sample ID:** PA 41-31-695 Excavation  
**Collection Date:** 12/13/2016 03:00 PM

**Work Order:** 1612814  
**Lab ID:** 1612814-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>			<b>SW8015M</b>		Prep: SW3546 / 12/16/16	Analyst: <b>IT</b>
<b>DRO (C10-C28)</b>	<b>20</b>		<b>5.5</b>	<b>mg/Kg-dry</b>	1	12/17/2016 10:08 AM
<i>Surr: 4-Terphenyl-d14</i>	59.8		39-133	%REC	1	12/17/2016 10:08 AM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>			<b>SW8015D</b>		Prep: SW5035 / 12/15/16	Analyst: <b>IT</b>
<b>GRO (C6-C10)</b>	<b>14</b>		<b>3.0</b>	<b>mg/Kg-dry</b>	1	12/16/2016 10:33 PM
<i>Surr: Toluene-d8</i>	85.5		50-150	%REC	1	12/16/2016 10:33 PM
<b>MERCURY BY CVAA</b>			<b>SW7471B</b>		Prep: SW7471 / 12/16/16	Analyst: <b>LR</b>
<b>Mercury</b>	<b>0.027</b>		<b>0.015</b>	<b>mg/Kg-dry</b>	1	12/16/2016 08:05 PM
<b>METALS ANALYSIS BY ICP</b>			<b>SW846 6010C</b>		Prep: SW3050B / 12/15/16	Analyst: <b>RH</b>
<b>Arsenic</b>	<b>3.8</b>		<b>0.38</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Barium</b>	<b>110</b>		<b>0.38</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Cadmium</b>	ND		0.76	mg/Kg-dry	1	12/16/2016 04:15 PM
<b>Chromium</b>	<b>12</b>		<b>0.38</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Copper</b>	<b>19</b>		<b>0.76</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Lead</b>	<b>13</b>		<b>0.38</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Nickel</b>	<b>26</b>		<b>0.38</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>Selenium</b>	ND		0.76	mg/Kg-dry	1	12/19/2016 01:51 PM
<b>Silver</b>	ND		0.38	mg/Kg-dry	1	12/16/2016 04:15 PM
<b>Zinc</b>	<b>93</b>		<b>0.76</b>	<b>mg/Kg-dry</b>	1	12/16/2016 04:15 PM
<b>SOLUBLE CATIONS FOR SAR</b>			<b>SW846 6010C</b>		Prep: USDA Method 20B / 12/16/16	Analyst: <b>RH</b>
<b>Calcium</b>	<b>250</b>		<b>100</b>	<b>mg/L</b>	10	12/16/2016 06:49 PM
<b>Magnesium</b>	<b>83</b>		<b>80</b>	<b>mg/L</b>	10	12/16/2016 06:49 PM
<b>Sodium</b>	<b>4,900</b>		<b>20</b>	<b>mg/L</b>	100	12/19/2016 02:13 PM
<b>SODIUM ADSORPTION RATIO</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 12/16/16	Analyst: <b>RH</b>
<b>Sodium Adsorption Ratio</b>	<b>83</b>		<b>0.010</b>	<b>none</b>	1	12/16/2016
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>			<b>SW846 8270D</b>		Prep: SW3546 / 12/16/16	Analyst: <b>JF</b>
Acenaphthene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Anthracene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Benzo(a)anthracene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Benzo(a)pyrene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Benzo(b)fluoranthene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Benzo(k)fluoranthene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Chrysene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Dibenzo(a,h)anthracene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Fluoranthene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM

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

**ALS Group, USA**

Date: 22-Dec-16

**Client:** Terra Energy Partners, LLC  
**Project:** PA 41-31-695 Excavation  
**Sample ID:** PA 41-31-695 Excavation  
**Collection Date:** 12/13/2016 03:00 PM

**Work Order:** 1612814  
**Lab ID:** 1612814-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Indeno(1,2,3-cd)pyrene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Naphthalene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Pyrene	ND		0.0074	mg/Kg-dry	1	12/16/2016 07:47 PM
Surr: 2-Fluorobiphenyl	64.0		12-100	%REC	1	12/16/2016 07:47 PM
Surr: 4-Terphenyl-d14	70.8		25-137	%REC	1	12/16/2016 07:47 PM
Surr: Nitrobenzene-d5	59.8		37-107	%REC	1	12/16/2016 07:47 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Prep: SW5035 / 12/15/16	Analyst: <b>LSY</b>
Benzene	ND		0.037	mg/Kg-dry	1	12/15/2016 08:02 PM
<b>Ethylbenzene</b>	<b>0.041</b>		<b>0.037</b>	<b>mg/Kg-dry</b>	1	12/15/2016 08:02 PM
<b>m,p-Xylene</b>	<b>0.61</b>		<b>0.073</b>	<b>mg/Kg-dry</b>	1	12/15/2016 08:02 PM
<b>o-Xylene</b>	<b>0.11</b>		<b>0.037</b>	<b>mg/Kg-dry</b>	1	12/15/2016 08:02 PM
<b>Toluene</b>	<b>0.10</b>		<b>0.037</b>	<b>mg/Kg-dry</b>	1	12/15/2016 08:02 PM
<b>Xylenes, Total</b>	<b>0.72</b>		<b>0.11</b>	<b>mg/Kg-dry</b>	1	12/15/2016 08:02 PM
Surr: 1,2-Dichloroethane-d4	93.2		70-130	%REC	1	12/15/2016 08:02 PM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	1	12/15/2016 08:02 PM
Surr: Dibromofluoromethane	85.2		70-130	%REC	1	12/15/2016 08:02 PM
Surr: Toluene-d8	101		70-130	%REC	1	12/15/2016 08:02 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 METHO</b>		Prep: USDA Method 20B / 12/16/16	Analyst: <b>JB</b>
<b>Electrical Conductivity @ Saturation</b>	<b>29</b>		<b>0.25</b>	<b>mmhos/cm @2</b>	50	12/20/2016 10:30 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>			Analyst: <b>JJG</b>
<b>Chromium, Trivalent</b>	<b>12</b>		<b>0.55</b>	<b>mg/Kg-dry</b>	1	12/21/2016 03:10 PM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>		Prep: SW3060A / 12/20/16	Analyst: <b>BWW</b>
<b>Chromium, Hexavalent</b>	ND		1.1	mg/Kg-dry	1	12/21/2016 09:00 AM
<b>MOISTURE</b>			<b>SW3550C</b>			Analyst: <b>EDL</b>
<b>Moisture</b>	<b>9.8</b>		<b>0.050</b>	<b>% of sample</b>	1	12/15/2016 02:13 PM
<b>PH</b>			<b>SW9045D</b>		Prep: EXTRACT / 12/20/16	Analyst: <b>RZM</b>
<b>pH</b>	<b>9.2</b>			<b>s.u.</b>	1	12/20/2016 01:43 PM

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

**QC BATCH REPORT**

Batch ID: **95912** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: <b>DBLKS1-95912-95912</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 10:45 PM</b>		
Client ID:		Run ID: <b>GC8_161216A</b>		SeqNo: <b>4208170</b>		Prep Date: <b>12/16/2016</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)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	2.455	0	3.33	0	73.7	39-133	0			

LCS		Sample ID: <b>DLCSS1-95912-95912</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 11:14 PM</b>		
Client ID:		Run ID: <b>GC8_161216A</b>		SeqNo: <b>4208171</b>		Prep Date: <b>12/16/2016</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)	268.5	5.0	333	0	80.6	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.927	0	3.33	0	57.9	39-133	0			

MS		Sample ID: <b>1612787-01B MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 11:44 PM</b>		
Client ID:		Run ID: <b>GC8_161216A</b>		SeqNo: <b>4208172</b>		Prep Date: <b>12/16/2016</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)	261.2	4.9	323.1	0	80.8	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.832	0	3.231	0	56.7	39-133	0			

MSD		Sample ID: <b>1612787-01B MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/17/2016 12:14 PM</b>		
Client ID:		Run ID: <b>GC8_161216A</b>		SeqNo: <b>4208186</b>		Prep Date: <b>12/16/2016</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)	271.9	4.9	325.5	0	83.5	48-110	261.2	4.02	30	
<i>Surr: 4-Terphenyl-d14</i>	1.759	0	3.255	0	54	39-133	1.832	4.09	30	

The following samples were analyzed in this batch: 1612814-01A

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

## QC BATCH REPORT

Batch ID: **95872**      Instrument ID **GC9**      Method: **SW8015D**

MBLK		Sample ID: <b>MBLK-95872-95872</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/16/2016 03:03 PM</b>		
Client ID:		Run ID: <b>GC9_161216B</b>		SeqNo: <b>4208323</b>		Prep Date: <b>12/15/2016</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)	ND	2,500								
<i>Surr: Toluene-d8</i>	4376	0	5000	0	87.5	50-150	0			

LCS		Sample ID: <b>LCS-95872-95872</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/16/2016 02:13 PM</b>		
Client ID:		Run ID: <b>GC9_161216B</b>		SeqNo: <b>4208321</b>		Prep Date: <b>12/15/2016</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)	523300	2,500	500000	0	105	70-130	0			
<i>Surr: Toluene-d8</i>	5302	0	5000	0	106	50-150	0			

MS		Sample ID: <b>1612812-02A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/16/2016 04:43 PM</b>		
Client ID:		Run ID: <b>GC9_161216B</b>		SeqNo: <b>4208329</b>		Prep Date: <b>12/15/2016</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)	552700	2,700	536300	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	5775	0	5363	0	108	50-150	0			

MSD		Sample ID: <b>1612812-02A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/16/2016 05:08 PM</b>		
Client ID:		Run ID: <b>GC9_161216B</b>		SeqNo: <b>4208330</b>		Prep Date: <b>12/15/2016</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)	616100	2,700	536300	0	115	70-130	552700	10.8	30	
<i>Surr: Toluene-d8</i>	5798	0	5363	0	108	50-150	5775	0.408	30	

**The following samples were analyzed in this batch:**      1612814-01A

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **95935** Instrument ID **HG1** Method: **SW7471B**

<b>MBLK</b>	Sample ID: <b>MBLK-95935-95935</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 07:11 PM</b>			
Client ID:	Run ID: <b>HG1_161216A</b>			SeqNo: <b>4207944</b>		Prep Date: <b>12/16/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

<b>LCS</b>	Sample ID: <b>LCS-95935-95935</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 07:14 PM</b>			
Client ID:	Run ID: <b>HG1_161216A</b>			SeqNo: <b>4207945</b>		Prep Date: <b>12/16/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.19 0.020 0.1665 0 114 80-120 0

<b>MS</b>	Sample ID: <b>1612466-07CMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 07:42 PM</b>			
Client ID:	Run ID: <b>HG1_161216A</b>			SeqNo: <b>4207956</b>		Prep Date: <b>12/16/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.155 0.014 0.113 0.02127 118 75-125 0

<b>MSD</b>	Sample ID: <b>1612466-07CMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 07:44 PM</b>			
Client ID:	Run ID: <b>HG1_161216A</b>			SeqNo: <b>4207957</b>		Prep Date: <b>12/16/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1483 0.013 0.111 0.02127 114 75-125 0.155 4.38 35

The following samples were analyzed in this batch:

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: 95830 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-95830-95830				Units: mg/Kg		Analysis Date: 12/16/2016 02:19 PM		
Client ID:		Run ID: ICP2_161216A			SeqNo: 4208049		Prep Date: 12/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.02896	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-95830-95830				Units: mg/Kg		Analysis Date: 12/16/2016 02:24 PM		
Client ID:		Run ID: ICP2_161216A			SeqNo: 4208050		Prep Date: 12/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.2	0.25	5	0	104	80-120	0			
Barium	4.972	0.25	5	0	99.4	80-120	0			
Cadmium	5.297	0.50	5	0	106	80-120	0			
Chromium	5.305	0.25	5	0	106	80-120	0			
Copper	4.975	0.50	5	0	99.5	80-120	0			
Lead	4.912	0.25	5	0	98.2	80-120	0			
Nickel	5.001	0.25	5	0	100	80-120	0			
Selenium	4.826	0.50	5	0	96.5	80-120	0			
Silver	4.897	0.25	5	0	97.9	80-120	0			
Zinc	5.215	0.50	5	0	104	80-120	0			

MS		Sample ID: 1612746-01AMS				Units: mg/Kg		Analysis Date: 12/16/2016 03:43 PM		
Client ID:		Run ID: ICP2_161216A			SeqNo: 4208063		Prep Date: 12/15/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.8	0.37	7.485	7.276	114	75-125	0			
Barium	51.71	0.37	7.485	39.43	164	75-125	0			SO
Cadmium	8.389	0.75	7.485	-0.009927	112	75-125	0			
Chromium	19.56	0.37	7.485	9.479	135	75-125	0			S
Copper	16.55	0.75	7.485	9.581	93.1	75-125	0			
Lead	17.35	0.37	7.485	9.866	100	75-125	0			
Nickel	22.16	0.37	7.485	14.37	104	75-125	0			
Selenium	8.1	0.75	7.485	-0.2415	111	75-125	0			
Silver	7.289	0.37	7.485	-0.1571	99.5	75-125	0			
Zinc	58.66	0.75	7.485	49.33	125	75-125	0			O

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

## QC BATCH REPORT

Batch ID: **95830**      Instrument ID **ICP2**      Method: **SW846 6010C**

MSD		Sample ID: <b>1612746-01AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/16/2016 03:48 PM</b>		
Client ID:		Run ID: <b>ICP2_161216A</b>			SeqNo: <b>4208064</b>		Prep Date: <b>12/15/2016</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.78	0.37	7.485	7.276	114	75-125	15.8	0.1	20	
Barium	50.02	0.37	7.485	39.43	142	75-125	51.71	3.32	20	SO
Cadmium	8.375	0.75	7.485	-0.009927	112	75-125	8.389	0.161	20	
Chromium	19.39	0.37	7.485	9.479	132	75-125	19.56	0.858	20	S
Copper	16.47	0.75	7.485	9.581	92	75-125	16.55	0.5	20	
Lead	17.27	0.37	7.485	9.866	98.9	75-125	17.35	0.458	20	
Nickel	22.02	0.37	7.485	14.37	102	75-125	22.16	0.647	20	
Selenium	7.645	0.75	7.485	-0.2415	105	75-125	8.1	5.78	20	
Silver	7.274	0.37	7.485	-0.1571	99.3	75-125	7.289	0.203	20	
Zinc	58.27	0.75	7.485	49.33	119	75-125	58.66	0.677	20	O

The following samples were analyzed in this batch: 1612814-01A

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **95934**      Instrument ID **SAR**      Method: **USDA H60 Metho**

<b>DUP</b>	Sample ID: <b>1612746-01ADUP</b>				Units: <b>none</b>		Analysis Date: <b>12/16/2016</b>			
Client ID:	Run ID: <b>SAR_161216B</b>			SeqNo: <b>4210667</b>		Prep Date: <b>12/16/2016</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	5.31	0.010	0	0	0		7.942	39.7	50	

**The following samples were analyzed in this batch:**     

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: 95911 Instrument ID SVMS5 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-95911-95911				Units: µg/Kg		Analysis Date: 12/16/2016 04:43 PM		
Client ID:		Run ID: SVMS5_161216A		SeqNo: 4208465		Prep Date: 12/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	2543	0	3333	0	76.3	12-100	0			
Surr: 4-Terphenyl-d14	2800	0	3333	0	84	25-137	0			
Surr: Nitrobenzene-d5	2339	0	3333	0	70.2	37-107	0			

LCS		Sample ID: SLCSS1-95911-95911				Units: µg/Kg		Analysis Date: 12/16/2016 05:06 PM		
Client ID:		Run ID: SVMS5_161216A		SeqNo: 4208466		Prep Date: 12/16/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	994.7	6.7	1333	0	74.6	45-110	0			
Anthracene	1113	6.7	1333	0	83.5	55-105	0			
Benzo(a)anthracene	1139	6.7	1333	0	85.4	50-110	0			
Benzo(a)pyrene	1289	6.7	1333	0	96.7	50-110	0			
Benzo(b)fluoranthene	1247	6.7	1333	0	93.6	45-115	0			
Benzo(k)fluoranthene	1413	6.7	1333	0	106	45-115	0			
Chrysene	1191	6.7	1333	0	89.3	55-110	0			
Dibenzo(a,h)anthracene	1327	6.7	1333	0	99.6	40-125	0			
Fluoranthene	1161	6.7	1333	0	87.1	55-115	0			
Fluorene	1060	6.7	1333	0	79.5	50-110	0			
Indeno(1,2,3-cd)pyrene	1131	6.7	1333	0	84.8	40-120	0			
Naphthalene	1033	6.7	1333	0	77.5	40-105	0			
Pyrene	1081	6.7	1333	0	81.1	45-125	0			
Surr: 2-Fluorobiphenyl	2381	0	3333	0	71.4	12-100	0			
Surr: 4-Terphenyl-d14	2481	0	3333	0	74.4	25-137	0			
Surr: Nitrobenzene-d5	2317	0	3333	0	69.5	37-107	0			

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: 95911 Instrument ID SVMS5 Method: SW846 8270D

MS				Sample ID: 1612787-01B MS			Units: µg/Kg		Analysis Date: 12/16/2016 05:29 PM		
Client ID:		Run ID: SVMS5_161216A		SeqNo: 4208467		Prep Date: 12/16/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	990.2	6.5	1300	0	76.2	45-110	0				
Anthracene	1110	6.5	1300	0	85.4	55-105	0				
Benzo(a)anthracene	1144	6.5	1300	0	88	50-110	0				
Benzo(a)pyrene	1328	6.5	1300	0	102	50-110	0				
Benzo(b)fluoranthene	1229	6.5	1300	0	94.6	45-115	0				
Benzo(k)fluoranthene	1386	6.5	1300	0	107	45-115	0				
Chrysene	1177	6.5	1300	0	90.6	55-110	0				
Dibenzo(a,h)anthracene	1291	6.5	1300	0	99.3	40-125	0				
Fluoranthene	1153	6.5	1300	0	88.7	55-115	0				
Fluorene	1029	6.5	1300	0	79.2	50-110	0				
Indeno(1,2,3-cd)pyrene	1174	6.5	1300	0	90.3	40-120	0				
Naphthalene	1032	6.5	1300	0	79.4	40-105	0				
Pyrene	1071	6.5	1300	0	82.4	45-125	0				
Surr: 2-Fluorobiphenyl	2389	0	3250	0	73.5	12-100	0				
Surr: 4-Terphenyl-d14	2409	0	3250	0	74.1	25-137	0				
Surr: Nitrobenzene-d5	2306	0	3250	0	70.9	37-107	0				

MSD				Sample ID: 1612787-01B MSD			Units: µg/Kg		Analysis Date: 12/16/2016 05:52 PM		
Client ID:		Run ID: SVMS5_161216A		SeqNo: 4208468		Prep Date: 12/16/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	917.8	6.4	1284	0	71.5	45-110	990.2	7.58	30		
Anthracene	1060	6.4	1284	0	82.6	55-105	1110	4.55	30		
Benzo(a)anthracene	1071	6.4	1284	0	83.4	50-110	1144	6.64	30		
Benzo(a)pyrene	1252	6.4	1284	0	97.5	50-110	1328	5.92	30		
Benzo(b)fluoranthene	1136	6.4	1284	0	88.4	45-115	1229	7.94	30		
Benzo(k)fluoranthene	1311	6.4	1284	0	102	45-115	1386	5.58	30		
Chrysene	1113	6.4	1284	0	86.7	55-110	1177	5.62	30		
Dibenzo(a,h)anthracene	1244	6.4	1284	0	96.9	40-125	1291	3.71	30		
Fluoranthene	1077	6.4	1284	0	83.9	55-115	1153	6.84	30		
Fluorene	962.2	6.4	1284	0	74.9	50-110	1029	6.73	30		
Indeno(1,2,3-cd)pyrene	1140	6.4	1284	0	88.8	40-120	1174	2.95	30		
Naphthalene	978.2	6.4	1284	0	76.2	40-105	1032	5.39	30		
Pyrene	1015	6.4	1284	0	79	45-125	1071	5.43	30		
Surr: 2-Fluorobiphenyl	2260	0	3211	0	70.4	12-100	2389	5.58	40		
Surr: 4-Terphenyl-d14	2288	0	3211	0	71.2	25-137	2409	5.18	40		
Surr: Nitrobenzene-d5	2163	0	3211	0	67.4	37-107	2306	6.39	40		

The following samples were analyzed in this batch: 1612814-01A

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **95871** Instrument ID **VMS10** Method: **SW8260B**

MBLK		Sample ID: <b>MBLK-95871-95871</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/15/2016 12:36 PM</b>		
Client ID:		Run ID: <b>VMS10_161215A</b>		SeqNo: <b>4206324</b>		Prep Date: <b>12/15/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	989.5	0	1000	0	99	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	981.5	0	1000	0	98.2	70-130	0			
<i>Surr: Dibromofluoromethane</i>	928	0	1000	0	92.8	70-130	0			
<i>Surr: Toluene-d8</i>	995.5	0	1000	0	99.6	70-130	0			

LCS		Sample ID: <b>LCS-95871-95871</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/15/2016 11:24 A</b>		
Client ID:		Run ID: <b>VMS10_161215A</b>		SeqNo: <b>4206323</b>		Prep Date: <b>12/15/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	973.5	30	1000	0	97.4	75-125	0			
Ethylbenzene	959	30	1000	0	95.9	75-125	0			
m,p-Xylene	1935	60	2000	0	96.8	80-125	0			
o-Xylene	963	30	1000	0	96.3	75-125	0			
Toluene	961.5	30	1000	0	96.2	70-125	0			
Xylenes, Total	2898	90	3000	0	96.6	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	1002	0	1000	0	100	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	967	0	1000	0	96.7	70-130	0			
<i>Surr: Dibromofluoromethane</i>	1019	0	1000	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	978	0	1000	0	97.8	70-130	0			

MS		Sample ID: <b>1612787-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/15/2016 09:40 PM</b>		
Client ID:		Run ID: <b>VMS9_161215A</b>		SeqNo: <b>4206176</b>		Prep Date: <b>12/15/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	994.5	30	1000	0	99.4	75-125	0			
Ethylbenzene	1062	30	1000	0	106	75-125	0			
m,p-Xylene	2185	60	2000	0	109	80-125	0			
o-Xylene	1104	30	1000	0	110	75-125	0			
Toluene	1055	30	1000	21	103	70-125	0			
Xylenes, Total	3288	90	3000	0	110	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	942.5	0	1000	0	94.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1004	0	1000	0	100	70-130	0			
<i>Surr: Dibromofluoromethane</i>	956	0	1000	0	95.6	70-130	0			
<i>Surr: Toluene-d8</i>	1006	0	1000	0	101	70-130	0			

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

Client: Terra Energy Partners, LLC  
 Work Order: 1612814  
 Project: PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **95871** Instrument ID **VMS10** Method: **SW8260B**

MSD		Sample ID: <b>1612787-01A MSD</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>12/15/2016 10:05 PM</b>		
Client ID:		Run ID: <b>VMS9_161215A</b>		SeqNo: <b>4206177</b>		Prep Date: <b>12/15/2016</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1010	30	1000	0	101	75-125	994.5	1.5	30	
Ethylbenzene	1094	30	1000	0	109	75-125	1062	2.97	30	
m,p-Xylene	2253	60	2000	0	113	80-125	2185	3.06	30	
o-Xylene	1146	30	1000	0	115	75-125	1104	3.82	30	
Toluene	1076	30	1000	21	106	70-125	1055	2.02	30	
Xylenes, Total	3400	90	3000	0	113	75-125	3288	3.32	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	926.5	0	1000	0	92.6	70-130	942.5	1.71	30	
<i>Surr: 4-Bromofluorobenzene</i>	1036	0	1000	0	104	70-130	1004	3.19	30	
<i>Surr: Dibromofluoromethane</i>	953.5	0	1000	0	95.4	70-130	956	0.262	30	
<i>Surr: Toluene-d8</i>	1014	0	1000	0	101	70-130	1006	0.742	30	

The following samples were analyzed in this batch: 1612814-01A

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **95934**      Instrument ID **WETCHEM**      Method: **USDA H60 Metho**

<b>DUP</b>	Sample ID: <b>1612746-01A DUP</b>		Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>12/20/2016 10:30 A</b>					
Client ID:	Run ID: <b>WETCHEM_161220E</b>		SeqNo: <b>4209969</b>		Prep Date: <b>12/16/2016</b> DF: <b>50</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	17.95	0.25	0	0	0		17.45	2.82	50	

**The following samples were analyzed in this batch:**     

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **96045**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS		Sample ID: <b>LCS-96045-96045</b>				Units: <b>s.u.</b>		Analysis Date: <b>12/20/2016 01:43 PM</b>			
Client ID:		Run ID: <b>WETCHEM_161220M</b>		SeqNo: <b>4210353</b>		Prep Date: <b>12/20/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.95	0	4	0	98.8	90-110	0				

DUP		Sample ID: <b>1612814-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>12/20/2016 01:43 PM</b>			
Client ID: <b>PA 41-31-695 Excavation</b>		Run ID: <b>WETCHEM_161220M</b>		SeqNo: <b>4210358</b>		Prep Date: <b>12/20/2016</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	9.23	0	0	0	0	0-0	9.18	0.543	20		

**The following samples were analyzed in this batch:**     

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

## QC BATCH REPORT

Batch ID: **96101**      Instrument ID **WETCHEM**      Method: **SW7196A**

<b>MBLK</b>		Sample ID: <b>MBLK-96101-96101</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/21/2016 09:00 A</b>		
Client ID:		Run ID: <b>WETCHEM_161221F</b>		SeqNo: <b>4212867</b>		Prep Date: <b>12/20/2016</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      ND      1.0

<b>LCS</b>		Sample ID: <b>LCS-96101-96101</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/21/2016 09:00 A</b>		
Client ID:		Run ID: <b>WETCHEM_161221F</b>		SeqNo: <b>4212868</b>		Prep Date: <b>12/20/2016</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      4.81      1.0      5      0      96.2      80-120      0

<b>MS</b>		Sample ID: <b>1612814-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/21/2016 09:00 A</b>		
Client ID: <b>PA 41-31-695 Excavation</b>		Run ID: <b>WETCHEM_161221F</b>		SeqNo: <b>4212870</b>		Prep Date: <b>12/20/2016</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      4.762      0.99      4.95      0.0198      95.8      75-125      0

<b>MSD</b>		Sample ID: <b>1612814-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/21/2016 09:00 A</b>		
Client ID: <b>PA 41-31-695 Excavation</b>		Run ID: <b>WETCHEM_161221F</b>		SeqNo: <b>4212871</b>		Prep Date: <b>12/20/2016</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      4.634      0.99      4.95      0.0198      93.2      75-125      4.762      2.74      20

**The following samples were analyzed in this batch:**      1612814-01A

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

**Client:** Terra Energy Partners, LLC  
**Work Order:** 1612814  
**Project:** PA 41-31-695 Excavation

# QC BATCH REPORT

Batch ID: **R202631**      Instrument ID **MOIST**      Method: **SW3550C**

<b>MBLK</b>	Sample ID: <b>WBLKS-R202631</b>				Units: % of sample			Analysis Date: <b>12/15/2016 02:13 PM</b>		
Client ID:	Run ID: <b>MOIST_161215A</b>			SeqNo: <b>4205801</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                                      ND      0.050

<b>LCS</b>	Sample ID: <b>LCS-R202631</b>				Units: % of sample			Analysis Date: <b>12/15/2016 02:13 PM</b>		
Client ID:	Run ID: <b>MOIST_161215A</b>			SeqNo: <b>4205795</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      0.050      100                      0      100      99.5-100.5                      0

<b>DUP</b>	Sample ID: <b>1612705-01A DUP</b>				Units: % of sample			Analysis Date: <b>12/15/2016 02:13 PM</b>		
Client ID:	Run ID: <b>MOIST_161215A</b>			SeqNo: <b>4205718</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                                      6.55      0.050                      0                      0      0                                      6.98      6.36      20

<b>DUP</b>	Sample ID: <b>1612882-09A DUP</b>				Units: % of sample			Analysis Date: <b>12/15/2016 02:13 PM</b>		
Client ID:	Run ID: <b>MOIST_161215A</b>			SeqNo: <b>4205774</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                                      14.95      0.050                      0                      0      0                                      15.74      5.15      20

The following samples were analyzed in this batch: 1612814-01A

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



PROJECT NAME		SAMPLER		DATE		PAGE	
PA 41-31-695		M. Gardner		12-13-2016		1 of 1	
PROJECT No.		SITE ID		TURNAROUND		DISPOSAL	
Excavation		PA 41-31-695		Standard		By Lab or Return to Client	
COMPANY NAME		BILL TO COMPANY		COGCC Table 910-1			
TEP Rocky Mtn LLC		TEP Rocky Mtn LLC					
SEND REPORT TO		INVOICE ATTN TO					
Mike Gardner		Mike Gardner					
ADDRESS		ADDRESS					
1058 CR 215		1058 Co Rd 215					
CITY / STATE / ZIP		CITY / STATE / ZIP					
Parachute Co 81635		Parachute CO 81635					
PHONE		PHONE					
970-623-4875		970-623-4875					
FAX		FAX					
E-MAIL		E-MAIL					
mgardner@terraep.com		mgardner@terraep.com					
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	PA 41-31-695 Excavation	Soil	12-13-16	15:00	2		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:  SR2 3.4°C	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>M. Gardner</i>	Mike Gardner	12/13/16	
RECEIVED BY	<i>M. Gardner</i>		12-13-16	1730
RELINQUISHED BY	<i>M. Gardner</i>		12-13-16	1730
RECEIVED BY	<i>Diane F. Shea</i>	Diane F. Shea	12/14/16	1100
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID:RILA (616) 298-1033  
NICK MARTINEZ  
ALS ENVIRONMENTAL PARACHUTE  
PARACHUTE SERVICE CENTER  
127 EAST 1ST ST  
PARACHUTE, CO 81635  
UNITED STATES US

SHIP DATE: 13DEC16  
ACTWGT: 39.00 LB  
CAD: 2264840/INET3790  
DIMS: 14x26x15 IN

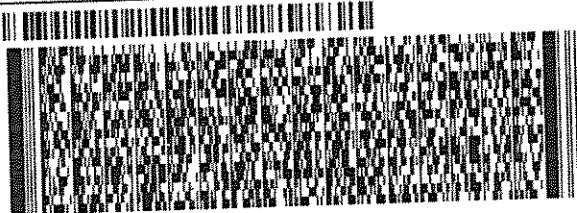
BILL SENDER

TO **SAMPLE RECEIVING**  
**ALS ENVIRONMENTAL HOLLAND LAB**  
**3352 128TH AVE**

544.HDX2F/ME8

**HOLLAND MI 49424**

(616) 399-6070 REF. 121316-1  
INV PO PARACHUTE DEPT



REL# 3785346

WED - 14 DEC 10:30A  
PRIORITY OVERNIGHT

TRK# 7779 4376 4339  
0201

**XX HLMA**

MI-US 49424  
GRR



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Service Guide, available on fedex.com. FedEx Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of value, negotiable instruments and other items listed in our Service Guide. Written

 <b>ALS Environmental</b> 3352 128th Avenue Holland, Michigan 49424 Tel. +1 616 399 6070 Fax. +1 616 399 6185	<b>CUSTODY SEAL</b>		Seal Broken By:
	Date: 12/13/16 Time: 11:30 Name: [Signature] Company: ALS		Date:

Sample Receipt Checklist

Client Name: **TERRAENERGY**

Date/Time Received: **14-Dec-16 11:00**

Work Order: **1612814**

Received by: **DS**

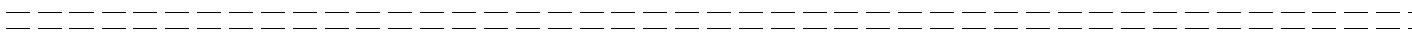
Checklist completed by Diane Shaw 14-Dec-16  
eSignature Date

Reviewed by: Chad Whilton 15-Dec-16  
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4/3.4 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>12/14/2016 2:03:59 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: