



27-May-2020

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

Re: **PA 332-33-695 Condensate Tank Leak**

Work Order: **20051554**

Dear Mike,

ALS Environmental received 5 samples on 21-May-2020 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 30.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, light-colored signature line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Work Order: 20051554

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20051554-01	SL-1: South Wall	Soil		5/19/2020 15:00	5/21/2020 10:00	<input type="checkbox"/>
20051554-02	SL-2: East Wall	Soil		5/19/2020 15:00	5/21/2020 10:00	<input type="checkbox"/>
20051554-03	SL-3: North Wall	Soil		5/19/2020 15:00	5/21/2020 10:00	<input type="checkbox"/>
20051554-04	SL-4: West Wall	Soil		5/19/2020 15:00	5/21/2020 10:00	<input type="checkbox"/>
20051554-05	SL-5: Excavation Bottom	Soil		5/19/2020 15:00	5/21/2020 10:00	<input type="checkbox"/>

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Work Order: 20051554

Case Narrative

Batch 156305, Method ICP_6020_S, Sample 20051554-01A MS/MSD: The MS/MSD recoveries were below the lower control limits for Arsenic, Chromium, Lead, and Silver. The corresponding results in the parent sample may be biased low for these analytes.

Batch 156305, Method ICP_6020_S, Sample 20051554-01AMS: The MS recoveries were outside of the control limits for Cadmium and Copper. However, the MSD recoveries and the RPDs between the MS and MSD were in control. No qualification is required.

Batch 156305, Method ICP_6020_S, Sample 20051554-01A 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 156305, Method ICP_6020_S, Sample 20051554-01A MSD: The MSD recovery was outside of the control limit for Nickel. 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	

s.u. Standard Units

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-1: South Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 5/21/20		Analyst: JZB
DRO (C10-C28)	7.2	J	3.4	12	mg/Kg-dry	1	5/21/2020 20:34
Surr: 4-Terphenyl-d14	72.2			33-111	%REC	1	5/21/2020 20:34
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 5/21/20		Analyst: JZB
GRO (C6-C10)		U	2.9	7.0	mg/Kg	1	5/22/2020 03:36
Surr: Toluene-d8	97.4			71-123	%REC	1	5/22/2020 03:36
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 5/22/20		Analyst: MAC
Mercury	0.15		0.013	0.019	mg/Kg-dry	1	5/22/2020 13:11
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 5/21/20		Analyst: STP
Arsenic	14		0.046	0.39	mg/Kg-dry	1	5/21/2020 20:44
Barium	330		3.6	3.9	mg/Kg-dry	10	5/22/2020 11:46
Cadmium	0.32		0.023	0.15	mg/Kg-dry	1	5/21/2020 20:44
Chromium	17		0.17	0.39	mg/Kg-dry	1	5/21/2020 20:44
Copper	18		3.9	3.9	mg/Kg-dry	10	5/22/2020 11:46
Lead	17		0.19	0.39	mg/Kg-dry	1	5/21/2020 20:44
Nickel	11		0.20	0.39	mg/Kg-dry	1	5/21/2020 20:44
Selenium	U		0.36	0.39	mg/Kg-dry	1	5/21/2020 20:44
Silver	0.089	J	0.051	0.39	mg/Kg-dry	1	5/21/2020 20:44
Zinc	41		0.76	0.77	mg/Kg-dry	1	5/21/2020 20:44
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Calcium	550		2.5	5.0	mg/L	10	5/26/2020 16:16
Magnesium	230		0.50	2.0	mg/L	10	5/26/2020 16:16
Sodium	79		0.45	2.0	mg/L	10	5/26/2020 16:16
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Sodium Adsorption Ratio	0.71		0.010	0.010	none	1	5/26/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 5/21/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Dibenzo(a,h)anthracene	U		0.0012	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Fluoranthene	U		0.00091	0.0049	mg/Kg-dry	1	5/26/2020 15:39

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-1: South Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.0020	J	0.0016	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	5/26/2020 15:39
Surr: 2-Fluorobiphenyl	96.6			20-140	%REC	1	5/26/2020 15:39
Surr: 4-Terphenyl-d14	97.8			22-172	%REC	1	5/26/2020 15:39
Surr: Nitrobenzene-d5	91.9			28-140	%REC	1	5/26/2020 15:39
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 5/21/20		Analyst: BG
Benzene	U		0.0072	0.042	mg/Kg-dry	1	5/21/2020 16:46
Ethylbenzene	U		0.0089	0.042	mg/Kg-dry	1	5/21/2020 16:46
m,p-Xylene	0.13		0.056	0.084	mg/Kg-dry	1	5/21/2020 16:46
o-Xylene	U		0.016	0.042	mg/Kg-dry	1	5/21/2020 16:46
Toluene	0.10		0.011	0.042	mg/Kg-dry	1	5/21/2020 16:46
Xylenes, Total	0.13		0.056	0.13	mg/Kg-dry	1	5/21/2020 16:46
Surr: 1,2-Dichloroethane-d4	102			70-130	%REC	1	5/21/2020 16:46
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	5/21/2020 16:46
Surr: Dibromofluoromethane	94.7			70-130	%REC	1	5/21/2020 16:46
Surr: Toluene-d8	96.8			70-130	%REC	1	5/21/2020 16:46
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: QTN
Electrical Conductivity @ Saturation	5.0		0.011	0.10	mmhos/cm @25°	20	5/26/2020 14:11
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	17		1.0	1.2	mg/Kg-dry	1	5/22/2020 18:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 5/22/20		Analyst: RZM
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	5/22/2020 16:37
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	5/21/2020 14:02
PH			Method: SW9045D		Prep: EXTRACT / 5/21/20		Analyst: QTN
pH	7.81		0.10	0.100	s.u.	1	5/22/2020 14:17
Temperature	21.1		0.10	0.100	°C	1	5/22/2020 14:17

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-2: East Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 5/21/20		Analyst: JZB
DRO (C10-C28)	6.2	J	3.4	12	mg/Kg-dry	1	5/21/2020 21:13
<i>Surr: 4-Terphenyl-d14</i>	76.2			33-111	%REC	1	5/21/2020 21:13
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 5/21/20		Analyst: JZB
GRO (C6-C10)	U		2.9	6.9	mg/Kg	1	5/22/2020 03:58
<i>Surr: Toluene-d8</i>	96.0			71-123	%REC	1	5/22/2020 03:58
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 5/22/20		Analyst: MAC
Mercury	0.14		0.012	0.018	mg/Kg-dry	1	5/22/2020 13:13
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 5/21/20		Analyst: STP
Arsenic	13		0.050	0.42	mg/Kg-dry	1	5/21/2020 20:50
Barium	350		3.8	4.2	mg/Kg-dry	10	5/22/2020 12:00
Cadmium	0.37		0.025	0.17	mg/Kg-dry	1	5/21/2020 20:50
Chromium	10		0.18	0.42	mg/Kg-dry	1	5/21/2020 20:50
Copper	12		0.42	0.42	mg/Kg-dry	1	5/21/2020 20:50
Lead	11		0.20	0.42	mg/Kg-dry	1	5/21/2020 20:50
Nickel	11		0.22	0.42	mg/Kg-dry	1	5/21/2020 20:50
Selenium	U		0.38	0.42	mg/Kg-dry	1	5/21/2020 20:50
Silver	U		0.055	0.42	mg/Kg-dry	1	5/21/2020 20:50
Zinc	35		0.82	0.84	mg/Kg-dry	1	5/21/2020 20:50
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Calcium	570		2.5	5.0	mg/L	10	5/26/2020 16:18
Magnesium	170		0.50	2.0	mg/L	10	5/26/2020 16:18
Sodium	40		0.45	2.0	mg/L	10	5/26/2020 16:18
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Sodium Adsorption Ratio	0.38		0.010	0.010	none	1	5/26/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 5/21/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	5/26/2020 15:55

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-2: East Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene		U	0.0016	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Indeno(1,2,3-cd)pyrene		U	0.0018	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Naphthalene		U	0.0021	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Pyrene		U	0.00081	0.0049	mg/Kg-dry	1	5/26/2020 15:55
Surr: 2-Fluorobiphenyl	94.5			20-140	%REC	1	5/26/2020 15:55
Surr: 4-Terphenyl-d14	84.8			22-172	%REC	1	5/26/2020 15:55
Surr: Nitrobenzene-d5	80.9			28-140	%REC	1	5/26/2020 15:55
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 5/21/20		Analyst: BG
Benzene		U	0.0071	0.042	mg/Kg-dry	1	5/21/2020 17:04
Ethylbenzene		U	0.0088	0.042	mg/Kg-dry	1	5/21/2020 17:04
m,p-Xylene		U	0.056	0.083	mg/Kg-dry	1	5/21/2020 17:04
o-Xylene		U	0.016	0.042	mg/Kg-dry	1	5/21/2020 17:04
Toluene		U	0.011	0.042	mg/Kg-dry	1	5/21/2020 17:04
Xylenes, Total		U	0.056	0.13	mg/Kg-dry	1	5/21/2020 17:04
Surr: 1,2-Dichloroethane-d4	104			70-130	%REC	1	5/21/2020 17:04
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	5/21/2020 17:04
Surr: Dibromofluoromethane	92.4			70-130	%REC	1	5/21/2020 17:04
Surr: Toluene-d8	99.7			70-130	%REC	1	5/21/2020 17:04
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: QTN
Electrical Conductivity @ Saturation	4.5		0.011	0.10	mmhos/cm @25°	20	5/26/2020 14:11
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	10		1.0	1.2	mg/Kg-dry	1	5/22/2020 18:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 5/22/20		Analyst: RZM
Chromium, Hexavalent		U	1.0	1.2	mg/Kg-dry	1	5/22/2020 16:37
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	5/21/2020 14:02
PH			Method: SW9045D		Prep: EXTRACT / 5/21/20		Analyst: QTN
pH	7.95		0.10	0.100	s.u.	1	5/22/2020 14:17
Temperature	21.0		0.10	0.100	°C	1	5/22/2020 14:17

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-3: North Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 5/21/20		Analyst: JZB
DRO (C10-C28)	6.2	J	3.3	11	mg/Kg-dry	1	5/21/2020 21:52
Surr: 4-Terphenyl-d14	73.4			33-111	%REC	1	5/21/2020 21:52
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 5/21/20		Analyst: JZB
GRO (C6-C10)		U	2.6	6.2	mg/Kg	1	5/22/2020 04:21
Surr: Toluene-d8	94.7			71-123	%REC	1	5/22/2020 04:21
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 5/22/20		Analyst: MAC
Mercury	0.17		0.015	0.022	mg/Kg-dry	1	5/22/2020 13:15
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 5/21/20		Analyst: STP
Arsenic	11		0.057	0.47	mg/Kg-dry	1	5/21/2020 20:52
Barium	240		4.3	4.7	mg/Kg-dry	10	5/22/2020 12:01
Cadmium	0.37		0.028	0.19	mg/Kg-dry	1	5/21/2020 20:52
Chromium	11		0.21	0.47	mg/Kg-dry	1	5/21/2020 20:52
Copper	14		0.47	0.47	mg/Kg-dry	1	5/21/2020 20:52
Lead	12		0.23	0.47	mg/Kg-dry	1	5/21/2020 20:52
Nickel	15		0.25	0.47	mg/Kg-dry	1	5/21/2020 20:52
Selenium	U		0.43	0.47	mg/Kg-dry	1	5/21/2020 20:52
Silver	0.077	J	0.062	0.47	mg/Kg-dry	1	5/21/2020 20:52
Zinc	45		0.93	0.94	mg/Kg-dry	1	5/21/2020 20:52
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Calcium	620		2.5	5.0	mg/L	10	5/26/2020 16:19
Magnesium	92		0.50	2.0	mg/L	10	5/26/2020 16:19
Sodium	69		0.45	2.0	mg/L	10	5/26/2020 16:19
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Sodium Adsorption Ratio	0.68		0.010	0.010	none	1	5/26/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 5/21/20		Analyst: EEW
Acenaphthene	U		0.00093	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Anthracene	U		0.0016	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Benzo(a)anthracene	U		0.0020	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Benzo(a)pyrene	U		0.0013	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Benzo(b)fluoranthene	U		0.0011	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Benzo(k)fluoranthene	U		0.0014	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Chrysene	U		0.00099	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Dibenzo(a,h)anthracene	U		0.0011	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Fluoranthene	U		0.00089	0.0048	mg/Kg-dry	1	5/26/2020 16:10

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-3: North Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Naphthalene	U		0.0021	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Pyrene	U		0.00079	0.0048	mg/Kg-dry	1	5/26/2020 16:10
Surr: 2-Fluorobiphenyl	78.8			20-140	%REC	1	5/26/2020 16:10
Surr: 4-Terphenyl-d14	38.4			22-172	%REC	1	5/26/2020 16:10
Surr: Nitrobenzene-d5	47.6			28-140	%REC	1	5/26/2020 16:10
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 5/21/20		Analyst: BG
Benzene	U		0.0064	0.037	mg/Kg-dry	1	5/21/2020 17:21
Ethylbenzene	U		0.0079	0.037	mg/Kg-dry	1	5/21/2020 17:21
m,p-Xylene	0.055	J	0.050	0.075	mg/Kg-dry	1	5/21/2020 17:21
o-Xylene	U		0.014	0.037	mg/Kg-dry	1	5/21/2020 17:21
Toluene	U		0.010	0.037	mg/Kg-dry	1	5/21/2020 17:21
Xylenes, Total	0.055	J	0.050	0.11	mg/Kg-dry	1	5/21/2020 17:21
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	5/21/2020 17:21
Surr: 4-Bromofluorobenzene	96.7			70-130	%REC	1	5/21/2020 17:21
Surr: Dibromofluoromethane	92.0			70-130	%REC	1	5/21/2020 17:21
Surr: Toluene-d8	99.4			70-130	%REC	1	5/21/2020 17:21
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: QTN
Electrical Conductivity @ Saturation	4.4		0.011	0.10	mmhos/cm @25°	20	5/26/2020 14:11
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	11		0.98	1.2	mg/Kg-dry	1	5/22/2020 18:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 5/22/20		Analyst: RZM
Chromium, Hexavalent	U		0.96	1.1	mg/Kg-dry	1	5/22/2020 16:37
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	13		0.10	0.10	% of sample	1	5/21/2020 14:02
PH			Method: SW9045D		Prep: EXTRACT / 5/21/20		Analyst: QTN
pH	7.94		0.10	0.100	s.u.	1	5/22/2020 14:17
Temperature	21.0		0.10	0.100	°C	1	5/22/2020 14:17

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-4: West Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 5/21/20		Analyst: JZB
DRO (C10-C28)	18		3.3	12	mg/Kg-dry	1	5/21/2020 22:31
<i>Surr: 4-Terphenyl-d14</i>	64.9			33-111	%REC	1	5/21/2020 22:31
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 5/21/20		Analyst: JZB
GRO (C6-C10)	40		2.7	6.5	mg/Kg	1	5/22/2020 04:43
<i>Surr: Toluene-d8</i>	99.4			71-123	%REC	1	5/22/2020 04:43
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 5/22/20		Analyst: MAC
Mercury	0.097		0.013	0.019	mg/Kg-dry	1	5/22/2020 13:17
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 5/21/20		Analyst: STP
Arsenic	8.8		0.058	0.48	mg/Kg-dry	1	5/21/2020 20:54
Barium	240		4.4	4.8	mg/Kg-dry	10	5/22/2020 12:03
Cadmium	0.31		0.029	0.19	mg/Kg-dry	1	5/21/2020 20:54
Chromium	11		0.21	0.48	mg/Kg-dry	1	5/21/2020 20:54
Copper	12		0.48	0.48	mg/Kg-dry	1	5/21/2020 20:54
Lead	10		0.23	0.48	mg/Kg-dry	1	5/21/2020 20:54
Nickel	14		0.25	0.48	mg/Kg-dry	1	5/21/2020 20:54
Selenium	U		0.44	0.48	mg/Kg-dry	1	5/21/2020 20:54
Silver	U		0.063	0.48	mg/Kg-dry	1	5/21/2020 20:54
Zinc	41		0.94	0.96	mg/Kg-dry	1	5/21/2020 20:54
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Calcium	610		2.5	5.0	mg/L	10	5/26/2020 16:22
Magnesium	74		0.50	2.0	mg/L	10	5/26/2020 16:22
Sodium	61		0.45	2.0	mg/L	10	5/26/2020 16:22
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Sodium Adsorption Ratio	0.62		0.010	0.010	none	1	5/26/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 5/21/20		Analyst: EEW
Acenaphthene	U		0.00094	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	5/26/2020 16:26

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-4: West Wall
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.0026	J	0.0016	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Naphthalene	0.038		0.0021	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Pyrene	U		0.00080	0.0049	mg/Kg-dry	1	5/26/2020 16:26
Surr: 2-Fluorobiphenyl	82.1			20-140	%REC	1	5/26/2020 16:26
Surr: 4-Terphenyl-d14	33.6			22-172	%REC	1	5/26/2020 16:26
Surr: Nitrobenzene-d5	39.0			28-140	%REC	1	5/26/2020 16:26
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C			Prep: SW5035 / 5/21/20	Analyst: BG
Benzene	U		0.0067	0.039	mg/Kg-dry	1	5/21/2020 17:38
Ethylbenzene	0.080		0.0083	0.039	mg/Kg-dry	1	5/21/2020 17:38
m,p-Xylene	1.2		0.052	0.078	mg/Kg-dry	1	5/21/2020 17:38
o-Xylene	0.20		0.015	0.039	mg/Kg-dry	1	5/21/2020 17:38
Toluene	0.31		0.011	0.039	mg/Kg-dry	1	5/21/2020 17:38
Xylenes, Total	1.4		0.052	0.12	mg/Kg-dry	1	5/21/2020 17:38
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	5/21/2020 17:38
Surr: 4-Bromofluorobenzene	98.7			70-130	%REC	1	5/21/2020 17:38
Surr: Dibromofluoromethane	94.7			70-130	%REC	1	5/21/2020 17:38
Surr: Toluene-d8	98.1			70-130	%REC	1	5/21/2020 17:38
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2			Prep: USDA Method 20B / 5/26/20	Analyst: QTN
Electrical Conductivity @ Saturation	4.1		0.011	0.10	mmhos/cm @25°	20	5/26/2020 14:11
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	11		1.0	1.2	mg/Kg-dry	1	5/22/2020 18:30
CHROMIUM, HEXAVALENT			Method: SW7196A			Prep: SW3060A / 5/22/20	Analyst: RZM
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	5/22/2020 16:37
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	16		0.10	0.10	% of sample	1	5/21/2020 14:02
PH			Method: SW9045D			Prep: EXTRACT / 5/21/20	Analyst: QTN
pH	7.86		0.10	0.100	s.u.	1	5/22/2020 14:17
Temperature	21.0		0.10	0.100	°C	1	5/22/2020 14:17

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-5: Excavation Bottom
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 5/21/20		Analyst: JZB
DRO (C10-C28)	5.3	J	3.4	12	mg/Kg-dry	1	5/22/2020 00:27
Surr: 4-Terphenyl-d14	82.0			33-111	%REC	1	5/22/2020 00:27
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 5/21/20		Analyst: JZB
GRO (C6-C10)	U		3.1	7.4	mg/Kg	1	5/22/2020 05:05
Surr: Toluene-d8	93.0			71-123	%REC	1	5/22/2020 05:05
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 5/22/20		Analyst: MAC
Mercury	0.095		0.013	0.019	mg/Kg-dry	1	5/22/2020 13:19
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 5/21/20		Analyst: STP
Arsenic	9.5		0.056	0.47	mg/Kg-dry	1	5/21/2020 20:56
Barium	200		4.3	4.7	mg/Kg-dry	10	5/22/2020 12:05
Cadmium	0.39		0.028	0.19	mg/Kg-dry	1	5/21/2020 20:56
Chromium	10		0.21	0.47	mg/Kg-dry	1	5/21/2020 20:56
Copper	13		0.47	0.47	mg/Kg-dry	1	5/21/2020 20:56
Lead	11		0.22	0.47	mg/Kg-dry	1	5/21/2020 20:56
Nickel	13		0.24	0.47	mg/Kg-dry	1	5/21/2020 20:56
Selenium	U		0.43	0.47	mg/Kg-dry	1	5/21/2020 20:56
Silver	U		0.062	0.47	mg/Kg-dry	1	5/21/2020 20:56
Zinc	46		0.92	0.93	mg/Kg-dry	1	5/21/2020 20:56
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Calcium	120		2.5	5.0	mg/L	10	5/26/2020 16:24
Magnesium	42		0.50	2.0	mg/L	10	5/26/2020 16:24
Sodium	45		0.45	2.0	mg/L	10	5/26/2020 16:24
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: STP
Sodium Adsorption Ratio	0.89		0.010	0.010	none	1	5/26/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 5/21/20		Analyst: EEW
Acenaphthene	U		0.00093	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Anthracene	U		0.0016	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Benzo(a)anthracene	U		0.0020	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Benzo(a)pyrene	U		0.0013	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Benzo(b)fluoranthene	U		0.0012	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Benzo(k)fluoranthene	U		0.0014	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Chrysene	U		0.00099	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Dibenzo(a,h)anthracene	U		0.0011	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Fluoranthene	U		0.00089	0.0048	mg/Kg-dry	1	5/26/2020 16:41

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

ALS Group, USA

Date: 27-May-20

Client: Terra Energy Partners, LLC
Project: PA 332-33-695 Condensate Tank Leak
Sample ID: SL-5: Excavation Bottom
Collection Date: 5/19/2020 03:00 PM

Work Order: 20051554
Lab ID: 20051554-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene		U	0.0016	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Indeno(1,2,3-cd)pyrene		U	0.0017	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Naphthalene		U	0.0021	0.0048	mg/Kg-dry	1	5/26/2020 16:41
Pyrene		U	0.00080	0.0048	mg/Kg-dry	1	5/26/2020 16:41
<i>Surr: 2-Fluorobiphenyl</i>	89.7			20-140	%REC	1	5/26/2020 16:41
<i>Surr: 4-Terphenyl-d14</i>	84.4			22-172	%REC	1	5/26/2020 16:41
<i>Surr: Nitrobenzene-d5</i>	89.8			28-140	%REC	1	5/26/2020 16:41
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 5/21/20		Analyst: BG
Benzene		U	0.0076	0.044	mg/Kg-dry	1	5/21/2020 17:55
Ethylbenzene		U	0.0094	0.044	mg/Kg-dry	1	5/21/2020 17:55
m,p-Xylene		U	0.059	0.089	mg/Kg-dry	1	5/21/2020 17:55
o-Xylene		U	0.017	0.044	mg/Kg-dry	1	5/21/2020 17:55
Toluene		U	0.012	0.044	mg/Kg-dry	1	5/21/2020 17:55
Xylenes, Total		U	0.059	0.13	mg/Kg-dry	1	5/21/2020 17:55
<i>Surr: 1,2-Dichloroethane-d4</i>	103			70-130	%REC	1	5/21/2020 17:55
<i>Surr: 4-Bromofluorobenzene</i>	101			70-130	%REC	1	5/21/2020 17:55
<i>Surr: Dibromofluoromethane</i>	92.5			70-130	%REC	1	5/21/2020 17:55
<i>Surr: Toluene-d8</i>	101			70-130	%REC	1	5/21/2020 17:55
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 5/26/20		Analyst: QTN
Electrical Conductivity @ Saturation	3.3		0.011	0.10	mmhos/cm @25°	20	5/26/2020 14:11
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	10		1.0	1.2	mg/Kg-dry	1	5/22/2020 18:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 5/22/20		Analyst: RZM
Chromium, Hexavalent		U	1.0	1.2	mg/Kg-dry	1	5/22/2020 16:37
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	5/21/2020 14:02
PH			Method: SW9045D		Prep: EXTRACT / 5/21/20		Analyst: QTN
pH	8.29		0.10	0.100	s.u.	1	5/22/2020 14:17
Temperature	21.1		0.10	0.100	°C	1	5/22/2020 14:17

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

Client: Terra Energy Partners, LLC
Work Order: 20051554
Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156286** Instrument ID **GC8** Method: **SW8015D**

MBLK		Sample ID: DBLKS1-156286-156286				Units: mg/Kg		Analysis Date: 5/21/2020 05:18 PM		
Client ID:		Run ID: GC8_200521A		SeqNo: 6433439		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	3.704	10								J
<i>Surr: 4-Terphenyl-d14</i>	2.947	0	3.33	0	88.5	33-111	0			

LCS		Sample ID: DLCSS1-156286-156286				Units: mg/Kg		Analysis Date: 5/21/2020 05:57 PM		
Client ID:		Run ID: GC8_200521A		SeqNo: 6433440		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	359.4	10	333	0	108	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.291	0	3.33	0	68.8	33-111	0			

MS		Sample ID: 20050818-03A MS				Units: mg/Kg		Analysis Date: 5/21/2020 06:36 PM		
Client ID:		Run ID: GC8_200521A		SeqNo: 6433441		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	343.7	10	331.7	5.691	102	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.231	0	3.317	0	67.3	33-111	0			

MSD		Sample ID: 20050818-03A MSD				Units: mg/Kg		Analysis Date: 5/21/2020 07:16 PM		
Client ID:		Run ID: GC8_200521A		SeqNo: 6433442		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	370.5	9.9	329.7	5.691	111	80-121	343.7	7.51	30	
<i>Surr: 4-Terphenyl-d14</i>	2.866	0	3.297	0	86.9	33-111	2.231	24.9	30	

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156309** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-156309-156309				Units: µg/Kg-dry		Analysis Date: 5/22/2020 02:07 AM		
Client ID:		Run ID: GC9_200521B		SeqNo: 6433374		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0	0	0	0		
<i>Surr: Toluene-d8</i>	<i>4770</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>95.4</i>	<i>71-123</i>	<i>0</i>			

LCS		Sample ID: LCS-156309-156309				Units: µg/Kg-dry		Analysis Date: 5/22/2020 01:44 AM		
Client ID:		Run ID: GC9_200521B		SeqNo: 6433426		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	266500	5,000	250000	0	107	71-123	0			
<i>Surr: Toluene-d8</i>	<i>4279</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>85.6</i>	<i>71-123</i>	<i>0</i>			

MS		Sample ID: 20051553-01A MS				Units: µg/Kg-dry		Analysis Date: 5/22/2020 02:29 AM		
Client ID:		Run ID: GC9_200521B		SeqNo: 6433375		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	219500	4,700	233200	0	94.1	71-123	0			
<i>Surr: Toluene-d8</i>	<i>4213</i>	<i>0</i>	<i>4664</i>	<i>0</i>	<i>90.3</i>	<i>71-123</i>	<i>0</i>			

MSD		Sample ID: 20051553-01A MSD				Units: µg/Kg-dry		Analysis Date: 5/22/2020 02:51 AM		
Client ID:		Run ID: GC9_200521B		SeqNo: 6433376		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	252000	4,600	227700	0	111	71-123	219500	13.8	30	
<i>Surr: Toluene-d8</i>	<i>3959</i>	<i>0</i>	<i>4554</i>	<i>0</i>	<i>86.9</i>	<i>71-123</i>	<i>4213</i>	<i>6.22</i>	<i>30</i>	

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156345** Instrument ID **HG4** Method: **SW7471B**

MBLK	Sample ID: MBLK-156345-156345		Units: mg/Kg		Analysis Date: 5/22/2020 12:43 PM					
Client ID:	Run ID: HG4_200522A		SeqNo: 6435222		Prep Date: 5/22/2020 DF: 1					
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: LCS-156345-156345		Units: mg/Kg		Analysis Date: 5/22/2020 01:42 PM					
Client ID:	Run ID: HG4_200522A		SeqNo: 6435250		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.17 0.020 0.1665 0 102 80-120 0

MS	Sample ID: 20051613-01CMS		Units: mg/Kg		Analysis Date: 5/22/2020 01:38 PM					
Client ID:	Run ID: HG4_200522A		SeqNo: 6435248		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1983 0.016 0.1291 0.06738 101 75-125 0

MSD	Sample ID: 20051613-01CMSD		Units: mg/Kg		Analysis Date: 5/22/2020 01:40 PM					
Client ID:	Run ID: HG4_200522A		SeqNo: 6435249		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.187 0.015 0.1271 0.06738 94.1 75-125 0.1983 5.86 35

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156305** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-156305-156305				Units: mg/Kg		Analysis Date: 5/21/2020 08:36 PM		
Client ID:		Run ID: ICPMS3_200521B			SeqNo: 6432801		Prep Date: 5/21/2020		DF: 1	
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: LCS-156305-156305				Units: mg/Kg		Analysis Date: 5/21/2020 08:38 PM		
Client ID:		Run ID: ICPMS3_200521B			SeqNo: 6432802		Prep Date: 5/21/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.039	0.25	5	0	101	80-120	0			
Barium	5.015	0.25	5	0	100	80-120	0			
Cadmium	5.005	0.10	5	0	100	80-120	0			
Chromium	5.118	0.25	5	0	102	80-120	0			
Copper	5.172	0.25	5	0	103	80-120	0			
Lead	5.182	0.25	5	0	104	80-120	0			
Nickel	5.04	0.25	5	0	101	80-120	0			
Selenium	5.129	0.25	5	0	103	80-120	0			
Silver	4.948	0.25	5	0	99	80-120	0			
Zinc	5.044	0.50	5	0	101	80-120	0			

MS		Sample ID: 20051554-01AMS				Units: mg/Kg		Analysis Date: 5/21/2020 08:46 PM		
Client ID: SL-1: South Wall		Run ID: ICPMS3_200521B			SeqNo: 6432807		Prep Date: 5/21/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.02	0.32	6.41	11.26	27.3	75-125	0			S
Cadmium	4.851	0.13	6.41	0.2672	71.5	75-125	0			S
Chromium	14.52	0.32	6.41	14.1	6.44	75-125	0			S
Lead	14.95	0.32	6.41	14.28	10.5	75-125	0			S
Nickel	14.13	0.32	6.41	8.736	84.2	75-125	0			
Selenium	5.337	0.32	6.41	0.2716	79	75-125	0			
Silver	4.458	0.32	6.41	0.07388	68.4	75-125	0			S
Zinc	37.34	0.64	6.41	34.32	47.1	75-125	0			SO

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156305** Instrument ID **ICPMS3** Method: **SW6020B**

MS		Sample ID: 20051554-01AMS				Units: mg/Kg		Analysis Date: 5/22/2020 11:51 AM			
Client ID: SL-1: South Wall		Run ID: ICPMS3_200522B				SeqNo: 6434167		Prep Date: 5/21/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	177.5	3.2	6.41	277	-1550	75-125	0			SO	
Copper	17.68	3.2	6.41	15.28	37.5	75-125	0			S	

MSD		Sample ID: 20051554-01AMSD				Units: mg/Kg		Analysis Date: 5/21/2020 08:48 PM			
Client ID: SL-1: South Wall		Run ID: ICPMS3_200521B				SeqNo: 6432808		Prep Date: 5/21/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	15.24	0.32	6.361	11.26	62.5	75-125	13.02	15.7	20	S	
Cadmium	5.185	0.13	6.361	0.2672	77.3	75-125	4.851	6.65	20		
Chromium	17.14	0.32	6.361	14.1	47.8	75-125	14.52	16.6	20	S	
Lead	17.18	0.32	6.361	14.28	45.6	75-125	14.95	13.9	20	S	
Nickel	16.85	0.32	6.361	8.736	127	75-125	14.13	17.5	20	S	
Selenium	5.691	0.32	6.361	0.2716	85.2	75-125	5.337	6.42	20		
Silver	4.677	0.32	6.361	0.07388	72.4	75-125	4.458	4.78	20	S	
Zinc	42.69	0.64	6.361	34.32	132	75-125	37.34	13.4	20	SO	

MSD		Sample ID: 20051554-01AMSD				Units: mg/Kg		Analysis Date: 5/22/2020 11:53 AM			
Client ID: SL-1: South Wall		Run ID: ICPMS3_200522B				SeqNo: 6434168		Prep Date: 5/21/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Barium	206.5	3.2	6.361	277	-1110	75-125	177.5	15.1	20	SO	
Copper	21.49	3.2	6.361	15.28	97.7	75-125	17.68	19.5	20		

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
Work Order: 20051554
Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156456** Instrument ID **ICPMS4** Method: **SW6020B**

DUP		Sample ID: 20051554-03ADUP				Units: mg/L		Analysis Date: 5/26/2020 04:21 PM		
Client ID: SL-3: North Wall		Run ID: ICPMS4_200526A		SeqNo: 6439082		Prep Date: 5/26/2020		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	644.6	5.0	0	0	0	0-0	624.9	3.09		
Magnesium	91.9	2.0	0	0	0	0-0	92.46	0.608		
Sodium	65.19	2.0	0	0	0	0-0	69.22	6.01		

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

Batch ID: **156456** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 20051554-03ADUP				Units: none		Analysis Date: 5/26/2020		
Client ID: SL-3: North Wall		Run ID: SAR_200526A		SeqNo: 6439111		Prep Date: 5/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.6362	0.010	0	0	0		0.6837	7.2	50	

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156296** Instrument ID **SVMS6** Method: **SW8270E**

MBLK		Sample ID: SBLKS1-156296-156296				Units: µg/Kg		Analysis Date: 5/26/2020 03:08 PM		
Client ID:		Run ID: SVMS6_200526A		SeqNo: 6440234		Prep Date: 5/21/2020		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								
<i>Surr: 2-Fluorobiphenyl</i>	3303	0	3333	0	99.1	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3402	0	3333	0	102	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	3008	0	3333	0	90.2	28-140	0			

LCS		Sample ID: SLCSS1-156296-156296				Units: µg/Kg		Analysis Date: 5/26/2020 03:24 PM		
Client ID:		Run ID: SVMS6_200526A		SeqNo: 6440235		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1135	4.2	1333	0	85.2	40-140	0			
Anthracene	1312	4.2	1333	0	98.4	40-140	0			
Benzo(a)anthracene	1248	4.2	1333	0	93.6	40-140	0			
Benzo(a)pyrene	1246	4.2	1333	0	93.5	40-140	0			
Benzo(b)fluoranthene	1088	4.2	1333	0	81.6	40-140	0			
Benzo(k)fluoranthene	1194	4.2	1333	0	89.6	40-140	0			
Chrysene	1219	4.2	1333	0	91.4	40-140	0			
Dibenzo(a,h)anthracene	1113	4.2	1333	0	83.5	40-140	0			
Fluoranthene	1415	4.2	1333	0	106	40-140	0			
Fluorene	1194	4.2	1333	0	89.6	40-140	0			
Indeno(1,2,3-cd)pyrene	1206	4.2	1333	0	90.5	40-140	0			
Naphthalene	1271	4.2	1333	0	95.4	40-140	0			
Pyrene	1151	4.2	1333	0	86.4	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2487	0	3333	0	74.6	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3220	0	3333	0	96.6	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2481	0	3333	0	74.4	28-140	0			

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156296** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: 20051496-01B MS			Units: µg/Kg		Analysis Date: 5/26/2020 04:57 PM		
Client ID:		Run ID: SVMS6_200526A		SeqNo: 6440241		Prep Date: 5/21/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1159	4.1	1302	0	89	40-140	0				
Anthracene	1326	4.1	1302	0	102	40-140	0				
Benzo(a)anthracene	1247	4.1	1302	2.648	95.5	40-140	0				
Benzo(a)pyrene	1279	4.1	1302	2.132	98	40-140	0				
Benzo(b)fluoranthene	1175	4.1	1302	3.297	90	40-140	0				
Benzo(k)fluoranthene	1176	4.1	1302	0	90.3	40-140	0				
Chrysene	1241	4.1	1302	3.197	95.1	40-140	0				
Dibenzo(a,h)anthracene	1159	4.1	1302	0	89	40-140	0				
Fluoranthene	1394	4.1	1302	6.112	107	40-140	0				
Fluorene	1205	4.1	1302	0	92.5	40-140	0				
Indeno(1,2,3-cd)pyrene	1105	4.1	1302	0	84.8	40-140	0				
Naphthalene	1296	4.1	1302	0	99.5	40-140	0				
Pyrene	1225	4.1	1302	4.33	93.8	40-140	0				
<i>Surr: 2-Fluorobiphenyl</i>	3241	0	3256	0	99.5	20-140	0				
<i>Surr: 4-Terphenyl-d14</i>	3389	0	3256	0	104	22-172	0				
<i>Surr: Nitrobenzene-d5</i>	2716	0	3256	0	83.4	28-140	0				

MSD				Sample ID: 20051496-01B MSD			Units: µg/Kg		Analysis Date: 5/26/2020 05:12 PM		
Client ID:		Run ID: SVMS6_200526A		SeqNo: 6440242		Prep Date: 5/21/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1216	4.1	1319	0	92.2	40-140	1159	4.8	30		
Anthracene	1385	4.1	1319	0	105	40-140	1326	4.34	30		
Benzo(a)anthracene	1316	4.1	1319	2.648	99.5	40-140	1247	5.39	30		
Benzo(a)pyrene	1332	4.1	1319	2.132	101	40-140	1279	4.08	30		
Benzo(b)fluoranthene	1216	4.1	1319	3.297	91.9	40-140	1175	3.41	30		
Benzo(k)fluoranthene	1250	4.1	1319	0	94.8	40-140	1176	6.08	30		
Chrysene	1311	4.1	1319	3.197	99.1	40-140	1241	5.44	30		
Dibenzo(a,h)anthracene	1209	4.1	1319	0	91.6	40-140	1159	4.17	30		
Fluoranthene	1458	4.1	1319	6.112	110	40-140	1394	4.49	30		
Fluorene	1269	4.1	1319	0	96.2	40-140	1205	5.14	30		
Indeno(1,2,3-cd)pyrene	1185	4.1	1319	0	89.9	40-140	1105	7.05	30		
Naphthalene	1358	4.1	1319	0	103	40-140	1296	4.64	30		
Pyrene	1294	4.1	1319	4.33	97.7	40-140	1225	5.42	30		
<i>Surr: 2-Fluorobiphenyl</i>	3370	0	3298	0	102	20-140	3241	3.9	0		
<i>Surr: 4-Terphenyl-d14</i>	3575	0	3298	0	108	22-172	3389	5.35	0		
<i>Surr: Nitrobenzene-d5</i>	2912	0	3298	0	88.3	28-140	2716	6.96	0		

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156307** Instrument ID **VMS8** Method: **SW8260C**

MBLK		Sample ID: MBLK-156307-156307				Units: µg/Kg-dry		Analysis Date: 5/22/2020 09:18 PM		
Client ID:		Run ID: VMS8_200522B		SeqNo: 6437564		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	991.5	0	1000	0	99.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1028	0	1000	0	103	70-130	0			
<i>Surr: Dibromofluoromethane</i>	840	0	1000	0	84	70-130	0			
<i>Surr: Toluene-d8</i>	1021	0	1000	0	102	70-130	0			

LCS		Sample ID: LCS-156307-156307				Units: µg/Kg-dry		Analysis Date: 5/22/2020 08:30 PM		
Client ID:		Run ID: VMS8_200522B		SeqNo: 6437563		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1011	30	1000	0	101	75-125	0			
Ethylbenzene	1005	30	1000	0	100	75-125	0			
m,p-Xylene	1986	60	2000	0	99.3	80-125	0			
o-Xylene	997	30	1000	0	99.7	75-125	0			
Toluene	978.5	30	1000	0	97.8	70-125	0			
Xylenes, Total	2983	90	3000	0	99.4	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	979.5	0	1000	0	98	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	988.5	0	1000	0	98.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	993	0	1000	0	99.3	70-130	0			
<i>Surr: Toluene-d8</i>	991.5	0	1000	0	99.2	70-130	0			

MS		Sample ID: 20051553-01A MS				Units: µg/Kg-dry		Analysis Date: 5/23/2020 03:31 AM		
Client ID:		Run ID: VMS8_200522B		SeqNo: 6437570		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	996.3	28	932.8	0	107	75-125	0			
Ethylbenzene	981.8	28	932.8	0	105	75-125	0			
m,p-Xylene	1934	56	1866	0	104	80-125	0			
o-Xylene	966.4	28	932.8	0	104	75-125	0			
Toluene	951.5	28	932.8	0	102	70-125	0			
Xylenes, Total	2900	84	2799	0	104	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	907.2	0	932.8	0	97.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	948.7	0	932.8	0	102	70-130	0			
<i>Surr: Dibromofluoromethane</i>	841.9	0	932.8	0	90.2	70-130	0			
<i>Surr: Toluene-d8</i>	918.4	0	932.8	0	98.4	70-130	0			

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156307** Instrument ID **VMS8** Method: **SW8260C**

MSD		Sample ID: 20051553-01A MSD				Units: µg/Kg-dry		Analysis Date: 5/23/2020 03:47 AM		
Client ID:		Run ID: VMS8_200522B		SeqNo: 6437571		Prep Date: 5/21/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1009	27	910.7	0	111	75-125	996.3	1.28	30	
Ethylbenzene	978.6	27	910.7	0	107	75-125	981.8	0.328	30	
m,p-Xylene	1971	55	1821	0	108	80-125	1934	1.9	30	
o-Xylene	974.5	27	910.7	0	107	75-125	966.4	0.833	30	
Toluene	969	27	910.7	0	106	70-125	951.5	1.83	30	
Xylenes, Total	2945	82	2732	0	108	75-125	2900	1.55	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	915.3	0	910.7	0	101	70-130	907.2	0.891	30	
<i>Surr: 4-Bromofluorobenzene</i>	949.5	0	910.7	0	104	70-130	948.7	0.0801	30	
<i>Surr: Dibromofluoromethane</i>	832.4	0	910.7	0	91.4	70-130	841.9	1.13	30	
<i>Surr: Toluene-d8</i>	924.4	0	910.7	0	101	70-130	918.4	0.655	30	

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
Work Order: 20051554
Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156303** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-156303-156303				Units: s.u.		Analysis Date: 5/22/2020 02:17 PM			
Client ID:		Run ID: WETCHEM_200522L		SeqNo: 6434821		Prep Date: 5/21/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	3.94	0.10	4	0	98.5	90-110	0				

DUP		Sample ID: 20051554-04A DUP				Units: s.u.		Analysis Date: 5/22/2020 02:17 PM			
Client ID: SL-4: West Wall		Run ID: WETCHEM_200522L		SeqNo: 6434831		Prep Date: 5/21/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	7.81	0.10	0	0	0	0-0	7.86	0.638	20		
Temperature	21.1	0.10	0	0	0		21	0.475			

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **156397** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-156397-156397		Units: mg/Kg		Analysis Date: 5/22/2020 04:37 PM					
Client ID:	Run ID: WETCHEM_200522N		SeqNo: 6435480		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

LCS	Sample ID: LCS-156397-156397		Units: mg/Kg		Analysis Date: 5/22/2020 04:37 PM					
Client ID:	Run ID: WETCHEM_200522N		SeqNo: 6435481		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.14 1.0 5 0 103 80-120 0

MS	Sample ID: 20051554-04A MS		Units: mg/Kg		Analysis Date: 5/22/2020 04:37 PM					
Client ID: SL-4: West Wall	Run ID: WETCHEM_200522N		SeqNo: 6435488		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.412 0.98 4.902 0.6733 76.3 75-125 0

MS	Sample ID: 20051554-04A MSI		Units: mg/Kg		Analysis Date: 5/22/2020 04:37 PM					
Client ID: SL-4: West Wall	Run ID: WETCHEM_200522N		SeqNo: 6435490		Prep Date: 5/22/2020 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1724 100 1706 0.6733 101 75-125 0

MSD	Sample ID: 20051554-04A MSD		Units: mg/Kg		Analysis Date: 5/22/2020 04:37 PM					
Client ID: SL-4: West Wall	Run ID: WETCHEM_200522N		SeqNo: 6435489		Prep Date: 5/22/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.495 0.97 4.854 0.6733 78.7 75-125 4.412 1.87 20

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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

Client: Terra Energy Partners, LLC
 Work Order: 20051554
 Project: PA 332-33-695 Condensate Tank Leak

QC BATCH REPORT

Batch ID: **R289109** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R289109				Units: % of sample		Analysis Date: 5/21/2020 02:02 PM		
Client ID:		Run ID: MOIST_200521C		SeqNo: 6433283		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.10

LCS		Sample ID: LCS-R289109				Units: % of sample		Analysis Date: 5/21/2020 02:02 PM		
Client ID:		Run ID: MOIST_200521C		SeqNo: 6433282		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.10 100 0 100 98-102 0

DUP		Sample ID: 20051554-03A DUP				Units: % of sample		Analysis Date: 5/21/2020 02:02 PM		
Client ID: SL-3: North Wall		Run ID: MOIST_200521C		SeqNo: 6433279		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.23 0.10 0 0 0 0-0 13.45 1.65 10

The following samples were analyzed in this batch:

20051554-01A	20051554-02A	20051554-03A
20051554-04A	20051554-05A	

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



ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 202/6

WORKORDER #

20051554

PROJECT NAME		PA 332-33-695 Condensate Tank Leak		SAMPLER		Mike Gardner		DATE		5/19/2020		PAGE		1 of 1	
PROJECT No.				SITE ID		PA 332-33-695 Well Pad		TURNAROUND		RUSH		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		TEP Rocky Mountain LLC		BILL TO COMPANY		TEP Rocky Mountain LLC		COGCC 910-1 List							
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		mgardner@terraep.com		E-MAIL		mgardner@terraep.com ; tgose@terraep.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	SL-1: South Wall	Soil	5/19/2020	3:00 p.m.	1 x 16 oz		X								
2	SL-2: East Wall	Soil	5/19/2020	3:00 p.m.	1 x 16 oz		X								
3	SL-3: North Wall	Soil	5/19/2020	3:00 p.m.	1 x 16 oz		X								
4	SL-4: West Wall	Soil	5/19/2020	3:00 p.m.	1 x 16 oz		X								
5	SL-5: Excavation Bottom	Soil	5/19/2020	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: SR1 4.0°C ②	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	5/19/2020	
RECEIVED BY	<i>[Signature]</i>	W. M.	5-19-20	1015
RELINQUISHED BY	<i>[Signature]</i>	W. M.	5-19-20	1030
RECEIVED BY	<i>[Signature]</i>	Diane V. Shu	5/21/20	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **TERRAENERGY**

Date/Time Received: **21-May-20 10:00**

Work Order: **20051554**

Received by: **DS**

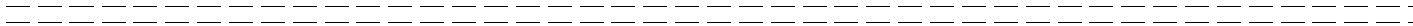
Checklist completed by Diane Shaw 21-May-20
eSignature Date

Reviewed by: Chad Whelton 21-May-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>4.0/4.0 c</u>		<u>SR1</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>5/21/2020 11:10:35 AM</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: