

October 25, 2021

Kris Rowe
HRL Compliance Solutions, Inc.
2385 F 1/2 Road
Grand Junction, CO 81505

RE: Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report
Pace Project No.: 60383282

Dear Kris Rowe:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

Revised Report_rev.1 8015 TPH-GRO was added to the samples.

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

Sincerely,



Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures

cc: Mike Gardner, Terra Energy Partners



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-19-12

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60383282001	EXC-SP 1	Solid	10/14/21 13:30	10/15/21 09:10
60383282002	EXC-SP 2	Solid	10/14/21 13:45	10/15/21 09:10
60383282003	EXC-SP 3	Solid	10/14/21 14:00	10/15/21 09:10
60383282004	EXC-SP 4	Solid	10/14/21 14:20	10/15/21 09:10
60383282005	EXC-SP 5	Solid	10/14/21 14:30	10/15/21 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383282001	EXC-SP 1	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 6010	MA1	9	PASI-K
		EPA 8270 by SIM	JMT	17	PASI-K
		EPA 8260B	CJC	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383282002	EXC-SP 2	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 6010	MA1	9	PASI-K
		EPA 8270 by SIM	JMT	17	PASI-K
		EPA 8260B	CJC	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383282003	EXC-SP 3	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 6010	MA1	9	PASI-K
		EPA 8270 by SIM	JMT	17	PASI-K
		EPA 8260B	CJC	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383282004	EXC-SP 4	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 6010	MA1	9	PASI-K
		EPA 8270 by SIM	JMT	17	PASI-K
		EPA 8260B	CJC	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60383282005	EXC-SP 5	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	BB1	2	PASI-K
		EPA 6010	MA1	9	PASI-K
		EPA 8270 by SIM	JMT	17	PASI-K
		EPA 8260B	CJC	9	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 1 Lab ID: 60383282001 Collected: 10/14/21 13:30 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-RRO (C28-C36)	16.8J	mg/kg	24.6	1	10/15/21 12:02	10/18/21 13:19		
TPH-DRO (C10-C28)	21.6	mg/kg	12.3	1	10/15/21 12:02	10/18/21 13:19		
Surrogates								
n-Tetracosane (S)	94	%	31-152	1	10/15/21 12:02	10/18/21 13:19	646-31-1	
p-Terphenyl (S)	78	%	46-130	1	10/15/21 12:02	10/18/21 13:19	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	14.4J	mg/kg	14.6	1	10/22/21 10:58	10/22/21 15:37		
Surrogates								
4-Bromofluorobenzene (S)	102	%	63-121	1	10/22/21 10:58	10/22/21 15:37	460-00-4	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.0	mg/kg	0.99	1	10/15/21 15:19	10/20/21 12:07	7440-38-2	
Barium	873	mg/kg	0.49	1	10/15/21 15:19	10/20/21 12:07	7440-39-3	M1
Cadmium	0.51	mg/kg	0.49	1	10/15/21 15:19	10/20/21 12:07	7440-43-9	
Copper	11.6	mg/kg	2.0	1	10/15/21 15:19	10/20/21 12:07	7440-50-8	
Lead	11.4	mg/kg	0.99	1	10/15/21 15:19	10/20/21 12:07	7439-92-1	
Nickel	17.2	mg/kg	0.49	1	10/15/21 15:19	10/20/21 12:07	7440-02-0	
Selenium	0.89J	mg/kg	1.5	1	10/15/21 15:19	10/20/21 12:07	7782-49-2	
Silver	ND	mg/kg	0.69	1	10/15/21 15:19	10/20/21 12:07	7440-22-4	
Zinc	50.8	mg/kg	9.9	1	10/15/21 15:19	10/20/21 12:07	7440-66-6	M1,R1
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	0.0021J	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	83-32-9	
Anthracene	0.0055	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	207-08-9	
Chrysene	0.0064	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	53-70-3	
Fluoranthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	206-44-0	
Fluorene	0.0071	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	193-39-5	
1-Methylnaphthalene	0.020	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	90-12-0	
2-Methylnaphthalene	0.047	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	91-57-6	
Naphthalene	0.016	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	91-20-3	
Pyrene	0.0037J	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 12:58	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%	40-120	1	10/15/21 13:03	10/18/21 12:58	321-60-8	
Terphenyl-d14 (S)	79	%	45-130	1	10/15/21 13:03	10/18/21 12:58	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 1 **Lab ID: 60383282001** Collected: 10/14/21 13:30 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	0.019	mg/kg	0.0067	1	10/18/21 13:48	10/19/21 01:26	71-43-2	
Ethylbenzene	0.014	mg/kg	0.0067	1	10/18/21 13:48	10/19/21 01:26	100-41-4	
Toluene	0.093	mg/kg	0.0067	1	10/18/21 13:48	10/19/21 01:26	108-88-3	
1,2,4-Trimethylbenzene	0.066	mg/kg	0.0067	1	10/18/21 13:48	10/19/21 01:26	95-63-6	
1,3,5-Trimethylbenzene	0.0034J	mg/kg	0.0067	1	10/18/21 13:48	10/19/21 01:26	108-67-8	
Xylene (Total)	0.15	mg/kg	0.020	1	10/18/21 13:48	10/19/21 01:26	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/18/21 13:48	10/19/21 01:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 13:48	10/19/21 01:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 13:48	10/19/21 01:26	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	19.5	%	0.50	1		10/15/21 16:26		
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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 2 Lab ID: 60383282002 Collected: 10/14/21 13:45 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-RRO (C28-C36)	26.8	mg/kg	24.1	1	10/15/21 12:02	10/18/21 13:43		
TPH-DRO (C10-C28)	18.8	mg/kg	12.0	1	10/15/21 12:02	10/18/21 13:43		
Surrogates								
n-Tetracosane (S)	91	%	31-152	1	10/15/21 12:02	10/18/21 13:43	646-31-1	
p-Terphenyl (S)	76	%	46-130	1	10/15/21 12:02	10/18/21 13:43	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	2.8J	mg/kg	12.9	1	10/22/21 10:58	10/22/21 15:52		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-121	1	10/22/21 10:58	10/22/21 15:52	460-00-4	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.8	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:14	7440-38-2	
Barium	218	mg/kg	0.53	1	10/15/21 15:19	10/20/21 12:14	7440-39-3	
Cadmium	0.59	mg/kg	0.53	1	10/15/21 15:19	10/20/21 12:14	7440-43-9	
Copper	12.5	mg/kg	2.1	1	10/15/21 15:19	10/20/21 12:14	7440-50-8	
Lead	15.1	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:14	7439-92-1	
Nickel	14.9	mg/kg	0.53	1	10/15/21 15:19	10/20/21 12:14	7440-02-0	
Selenium	ND	mg/kg	1.6	1	10/15/21 15:19	10/20/21 12:14	7782-49-2	
Silver	ND	mg/kg	0.75	1	10/15/21 15:19	10/20/21 12:14	7440-22-4	
Zinc	66.1	mg/kg	10.7	1	10/15/21 15:19	10/20/21 12:14	7440-66-6	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	83-32-9	
Anthracene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	50-32-8	
Benzo(b)fluoranthene	0.0020J	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	207-08-9	
Chrysene	0.0057	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	53-70-3	
Fluoranthene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	206-44-0	
Fluorene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	193-39-5	
1-Methylnaphthalene	0.0098	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	90-12-0	
2-Methylnaphthalene	0.014	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	91-57-6	M1
Naphthalene	0.0053	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	91-20-3	
Pyrene	0.0021J	mg/kg	0.0039	1	10/15/21 13:03	10/18/21 13:18	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71	%	40-120	1	10/15/21 13:03	10/18/21 13:18	321-60-8	
Terphenyl-d14 (S)	78	%	45-130	1	10/15/21 13:03	10/18/21 13:18	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 2 **Lab ID: 60383282002** Collected: 10/14/21 13:45 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	0.022	mg/kg	0.0069	1	10/18/21 13:48	10/19/21 01:46	71-43-2	
Ethylbenzene	0.0067J	mg/kg	0.0069	1	10/18/21 13:48	10/19/21 01:46	100-41-4	
Toluene	0.097	mg/kg	0.0069	1	10/18/21 13:48	10/19/21 01:46	108-88-3	
1,2,4-Trimethylbenzene	0.0088	mg/kg	0.0069	1	10/18/21 13:48	10/19/21 01:46	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0069	1	10/18/21 13:48	10/19/21 01:46	108-67-8	
Xylene (Total)	0.063	mg/kg	0.021	1	10/18/21 13:48	10/19/21 01:46	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/18/21 13:48	10/19/21 01:46	2037-26-5	
4-Bromofluorobenzene (S)	99	%	83-119	1	10/18/21 13:48	10/19/21 01:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	10/18/21 13:48	10/19/21 01:46	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	18.0	%	0.50	1		10/15/21 16:26		
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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 3 Lab ID: 60383282003 Collected: 10/14/21 14:00 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-RRO (C28-C36)	140	mg/kg	24.0	1	10/15/21 12:02	10/18/21 15:23		
TPH-DRO (C10-C28)	693	mg/kg	12.0	1	10/15/21 12:02	10/18/21 15:23		
Surrogates								
n-Tetracosane (S)	426	%	31-152	1	10/15/21 12:02	10/18/21 15:23	646-31-1	S0,S8
p-Terphenyl (S)	101	%	46-130	1	10/15/21 12:02	10/18/21 15:23	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	282	mg/kg	14.6	1	10/22/21 10:58	10/22/21 16:07		
Surrogates								
4-Bromofluorobenzene (S)	111	%	63-121	1	10/22/21 10:58	10/22/21 16:07	460-00-4	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	3.4	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:17	7440-38-2	
Barium	203	mg/kg	0.57	1	10/15/21 15:19	10/20/21 12:17	7440-39-3	
Cadmium	0.39J	mg/kg	0.57	1	10/15/21 15:19	10/20/21 12:17	7440-43-9	
Copper	8.8	mg/kg	2.3	1	10/15/21 15:19	10/20/21 12:17	7440-50-8	
Lead	8.8	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:17	7439-92-1	
Nickel	10.9	mg/kg	0.57	1	10/15/21 15:19	10/20/21 12:17	7440-02-0	
Selenium	ND	mg/kg	1.7	1	10/15/21 15:19	10/20/21 12:17	7782-49-2	
Silver	ND	mg/kg	0.80	1	10/15/21 15:19	10/20/21 12:17	7440-22-4	
Zinc	48.3	mg/kg	11.4	1	10/15/21 15:19	10/20/21 12:17	7440-66-6	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	0.097	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	83-32-9	
Anthracene	0.11	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	207-08-9	
Chrysene	0.033J	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	53-70-3	
Fluoranthene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	206-44-0	
Fluorene	0.38	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	193-39-5	
1-Methylnaphthalene	0.57	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	90-12-0	
2-Methylnaphthalene	3.8	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	91-57-6	
Naphthalene	0.94	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	91-20-3	
Pyrene	0.030J	mg/kg	0.040	10	10/15/21 13:03	10/18/21 15:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	0	%	40-120	10	10/15/21 13:03	10/18/21 15:19	321-60-8	D4,S4
Terphenyl-d14 (S)	0	%	45-130	10	10/15/21 13:03	10/18/21 15:19	1718-51-0	S4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 3 **Lab ID: 60383282003** Collected: 10/14/21 14:00 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	0.030	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:06	71-43-2	
Ethylbenzene	0.29	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:06	100-41-4	
Toluene	0.96	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:06	108-88-3	
1,2,4-Trimethylbenzene	5.2	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:06	95-63-6	
1,3,5-Trimethylbenzene	0.21	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:06	108-67-8	
Xylene (Total)	10.4	mg/kg	0.022	1	10/18/21 13:48	10/19/21 02:06	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/18/21 13:48	10/19/21 02:06	2037-26-5	
4-Bromofluorobenzene (S)	96	%	83-119	1	10/18/21 13:48	10/19/21 02:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 13:48	10/19/21 02:06	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	20.2	%	0.50	1	10/15/21 16:27
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 4 **Lab ID: 60383282004** Collected: 10/14/21 14:20 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-RRO (C28-C36)	24.9	mg/kg	24.1	1	10/15/21 12:02	10/18/21 13:59		
TPH-DRO (C10-C28)	20.1	mg/kg	12.0	1	10/15/21 12:02	10/18/21 13:59		
Surrogates								
n-Tetracosane (S)	95	%	31-152	1	10/15/21 12:02	10/18/21 13:59	646-31-1	
p-Terphenyl (S)	77	%	46-130	1	10/15/21 12:02	10/18/21 13:59	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	4.2J	mg/kg	13.2	1	10/22/21 10:58	10/22/21 16:52		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-121	1	10/22/21 10:58	10/22/21 16:52	460-00-4	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.0	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:20	7440-38-2	
Barium	226	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:20	7440-39-3	
Cadmium	0.61	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:20	7440-43-9	
Copper	11.8	mg/kg	2.2	1	10/15/21 15:19	10/20/21 12:20	7440-50-8	
Lead	15.7	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:20	7439-92-1	
Nickel	15.0	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:20	7440-02-0	
Selenium	ND	mg/kg	1.7	1	10/15/21 15:19	10/20/21 12:20	7782-49-2	
Silver	ND	mg/kg	0.78	1	10/15/21 15:19	10/20/21 12:20	7440-22-4	
Zinc	62.6	mg/kg	11.1	1	10/15/21 15:19	10/20/21 12:20	7440-66-6	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	83-32-9	
Anthracene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	50-32-8	
Benzo(b)fluoranthene	0.0020J	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	207-08-9	
Chrysene	0.0059	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	53-70-3	
Fluoranthene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	206-44-0	
Fluorene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	193-39-5	
1-Methylnaphthalene	ND	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	90-12-0	
2-Methylnaphthalene	0.014	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	91-57-6	
Naphthalene	0.0047	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	91-20-3	
Pyrene	0.0029J	mg/kg	0.0041	1	10/15/21 13:03	10/18/21 15:39	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%	40-120	1	10/15/21 13:03	10/18/21 15:39	321-60-8	
Terphenyl-d14 (S)	100	%	45-130	1	10/15/21 13:03	10/18/21 15:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 4 **Lab ID: 60383282004** Collected: 10/14/21 14:20 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	ND	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:26	71-43-2	
Ethylbenzene	0.0030J	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:26	100-41-4	
Toluene	0.0067J	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:26	108-88-3	
1,2,4-Trimethylbenzene	0.011	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:26	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0074	1	10/18/21 13:48	10/19/21 02:26	108-67-8	
Xylene (Total)	0.023	mg/kg	0.022	1	10/18/21 13:48	10/19/21 02:26	1330-20-7	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1	10/18/21 13:48	10/19/21 02:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	10/18/21 13:48	10/19/21 02:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	80-120	1	10/18/21 13:48	10/19/21 02:26	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	19.6	%	0.50	1	10/15/21 16:27
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 5 **Lab ID: 60383282005** Collected: 10/14/21 14:30 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
TPH-RRO (C28-C36)	15.8J	mg/kg	26.3	1	10/15/21 12:02	10/18/21 14:07		
TPH-DRO (C10-C28)	14.8	mg/kg	13.1	1	10/15/21 12:02	10/18/21 14:07		
Surrogates								
n-Tetracosane (S)	88	%	31-152	1	10/15/21 12:02	10/18/21 14:07	646-31-1	
p-Terphenyl (S)	70	%	46-130	1	10/15/21 12:02	10/18/21 14:07	92-94-4	
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
TPH-GRO	3.2J	mg/kg	14.5	1	10/22/21 10:58	10/22/21 17:08		
Surrogates								
4-Bromofluorobenzene (S)	102	%	63-121	1	10/22/21 10:58	10/22/21 17:08	460-00-4	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	5.5	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:22	7440-38-2	
Barium	229	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:22	7440-39-3	
Cadmium	0.66	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:22	7440-43-9	
Copper	16.9	mg/kg	2.2	1	10/15/21 15:19	10/20/21 12:22	7440-50-8	
Lead	14.4	mg/kg	1.1	1	10/15/21 15:19	10/20/21 12:22	7439-92-1	
Nickel	17.6	mg/kg	0.56	1	10/15/21 15:19	10/20/21 12:22	7440-02-0	
Selenium	ND	mg/kg	1.7	1	10/15/21 15:19	10/20/21 12:22	7782-49-2	
Silver	ND	mg/kg	0.79	1	10/15/21 15:19	10/20/21 12:22	7440-22-4	
Zinc	64.3	mg/kg	11.2	1	10/15/21 15:19	10/20/21 12:22	7440-66-6	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	83-32-9	
Anthracene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	207-08-9	
Chrysene	0.0051	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	53-70-3	
Fluoranthene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	206-44-0	
Fluorene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	193-39-5	
1-Methylnaphthalene	0.0073	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	90-12-0	
2-Methylnaphthalene	0.011	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	91-57-6	
Naphthalene	0.0038J	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	91-20-3	
Pyrene	ND	mg/kg	0.0043	1	10/15/21 13:03	10/18/21 14:18	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%	40-120	1	10/15/21 13:03	10/18/21 14:18	321-60-8	
Terphenyl-d14 (S)	93	%	45-130	1	10/15/21 13:03	10/18/21 14:18	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Sample: EXC-SP 5 **Lab ID: 60383282005** Collected: 10/14/21 14:30 Received: 10/15/21 09:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035A Low Level								
Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B								
Pace Analytical Services - Kansas City								
Benzene	0.011	mg/kg	0.0079	1	10/18/21 13:48	10/19/21 02:46	71-43-2	
Ethylbenzene	0.0065J	mg/kg	0.0079	1	10/18/21 13:48	10/19/21 02:46	100-41-4	
Toluene	0.054	mg/kg	0.0079	1	10/18/21 13:48	10/19/21 02:46	108-88-3	
1,2,4-Trimethylbenzene	0.0094	mg/kg	0.0079	1	10/18/21 13:48	10/19/21 02:46	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0079	1	10/18/21 13:48	10/19/21 02:46	108-67-8	
Xylene (Total)	0.073	mg/kg	0.024	1	10/18/21 13:48	10/19/21 02:46	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	10/18/21 13:48	10/19/21 02:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	10/18/21 13:48	10/19/21 02:46	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	10/18/21 13:48	10/19/21 02:46	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	24.4	%	0.50	1		10/15/21 16:27
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

QC Batch:	751303	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3008073

Matrix: Solid

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	1.3J	10.0	10/22/21 15:22	
4-Bromofluorobenzene (S)	%	99	63-121	10/22/21 15:22	

LABORATORY CONTROL SAMPLE: 3008074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	52.1	104	71-107	
4-Bromofluorobenzene (S)	%			103	63-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3008075 3008076

Parameter	Units	60383282003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	282	72.2	71.3	497	370	298	124	29-143	29	26	M1,R1
4-Bromofluorobenzene (S)	%						116	112	63-121			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report
Pace Project No.: 60383282

QC Batch: 749828 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3002513 Matrix: Solid
Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	10/20/21 11:57	
Barium	mg/kg	ND	0.50	10/20/21 11:57	
Cadmium	mg/kg	ND	0.50	10/20/21 11:57	
Copper	mg/kg	ND	2.0	10/20/21 11:57	
Lead	mg/kg	ND	1.0	10/20/21 11:57	
Nickel	mg/kg	ND	0.50	10/20/21 11:57	
Selenium	mg/kg	ND	1.5	10/20/21 11:57	
Silver	mg/kg	ND	0.70	10/20/21 11:57	
Zinc	mg/kg	2.8J	10.0	10/20/21 11:57	

LABORATORY CONTROL SAMPLE: 3002514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	91.8	92	80-120	
Barium	mg/kg	100	96.2	96	80-120	
Cadmium	mg/kg	100	93.3	93	80-120	
Copper	mg/kg	100	97.4	97	80-120	
Lead	mg/kg	100	95.4	95	80-120	
Nickel	mg/kg	100	99.6	100	80-120	
Selenium	mg/kg	100	91.4	91	80-120	
Silver	mg/kg	50	45.6	91	80-120	
Zinc	mg/kg	100	95.2	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002515 3002516

Parameter	Units	60383282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.0	100	103	93.4	95.0	89	88	75-125	2	20	
Barium	mg/kg	873	100	103	1250	1020	375	142	75-125	20	20	M1
Cadmium	mg/kg	0.51	100	103	92.9	95.6	92	92	75-125	3	20	
Copper	mg/kg	11.6	100	103	109	111	97	96	75-125	2	20	
Lead	mg/kg	11.4	100	103	98.2	102	87	88	75-125	4	20	
Nickel	mg/kg	17.2	100	103	103	107	86	86	75-125	3	20	
Selenium	mg/kg	0.89J	100	103	90.1	90.6	89	87	75-125	1	20	
Silver	mg/kg	ND	50	51.8	45.7	46.6	91	90	75-125	2	20	
Zinc	mg/kg	50.8	100	103	146	193	95	137	75-125	27	20	M1, R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

QC Batch:	750152	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	8260B MSV 5035A Low Level
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3003943

Matrix: Solid

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	10/18/21 23:07	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	10/18/21 23:07	
Benzene	mg/kg	ND	0.0050	10/18/21 23:07	
Ethylbenzene	mg/kg	ND	0.0050	10/18/21 23:07	
Toluene	mg/kg	ND	0.0050	10/18/21 23:07	
Xylene (Total)	mg/kg	ND	0.015	10/18/21 23:07	
1,2-Dichlorobenzene-d4 (S)	%	97	80-120	10/18/21 23:07	
4-Bromofluorobenzene (S)	%	103	83-119	10/18/21 23:07	
Toluene-d8 (S)	%	109	80-120	10/18/21 23:07	

LABORATORY CONTROL SAMPLE: 3003944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1.2	1.3	103	79-121	
1,3,5-Trimethylbenzene	mg/kg	1.2	1.3	103	81-122	
Benzene	mg/kg	1.2	1.3	102	67-126	
Ethylbenzene	mg/kg	1.2	1.3	100	69-127	
Toluene	mg/kg	1.2	1.2	99	80-118	
Xylene (Total)	mg/kg	3.8	3.8	100	69-130	
1,2-Dichlorobenzene-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	83-119	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3003945 3003946

Parameter	Units	60383376006		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	mg/kg	ND	2.2	2.2	2.2	2.1	2.0	100	95	10-124	5	68			
1,3,5-Trimethylbenzene	mg/kg	ND	2.2	2.2	2.2	2.1	2.0	102	97	10-125	4	65			
Benzene	mg/kg	ND	2.2	2.2	2.2	2.1	2.0	101	96	17-134	5	53			
Ethylbenzene	mg/kg	ND	2.2	2.2	2.2	2.1	2.0	100	95	10-137	5	60			
Toluene	mg/kg	ND	2.2	2.2	2.2	2.1	1.9	98	93	13-131	5	60			
Xylene (Total)	mg/kg	ND	6.4	6.4	6.4	6.4	6.0	101	95	10-137	6	58			
1,2-Dichlorobenzene-d4 (S)	%							100	99	80-120					
4-Bromofluorobenzene (S)	%							99	98	83-119					
Toluene-d8 (S)	%							95	95	80-120					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report
Pace Project No.: 60383282

QC Batch: 749786 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3002332 Matrix: Solid
Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.4	10/18/21 13:02	
TPH-RRO (C28-C36)	mg/kg	ND	18.9	10/18/21 13:02	
n-Tetracosane (S)	%	85	31-152	10/18/21 13:02	
p-Terphenyl (S)	%	79	46-130	10/18/21 13:02	

LABORATORY CONTROL SAMPLE: 3002333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	78.6	60.8	77	74-124	
n-Tetracosane (S)	%			89	31-152	
p-Terphenyl (S)	%			81	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002334 3002335

Parameter	Units	60383282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	21.6	102	101	108	110	85	88	30-130	2	35	
n-Tetracosane (S)	%						93	106	31-152			
p-Terphenyl (S)	%						78	81	46-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

QC Batch:	749787	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3546	Analysis Description:	8270/3546 MSSV PAH by SIM
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3002336

Matrix: Solid

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0031	10/18/21 12:17	
2-Methylnaphthalene	mg/kg	ND	0.0031	10/18/21 12:17	
Acenaphthene	mg/kg	ND	0.0031	10/18/21 12:17	
Anthracene	mg/kg	ND	0.0031	10/18/21 12:17	
Benzo(a)anthracene	mg/kg	ND	0.0031	10/18/21 12:17	
Benzo(a)pyrene	mg/kg	ND	0.0031	10/18/21 12:17	
Benzo(b)fluoranthene	mg/kg	ND	0.0031	10/18/21 12:17	
Benzo(k)fluoranthene	mg/kg	ND	0.0031	10/18/21 12:17	
Chrysene	mg/kg	ND	0.0031	10/18/21 12:17	
Dibenz(a,h)anthracene	mg/kg	ND	0.0031	10/18/21 12:17	
Fluoranthene	mg/kg	ND	0.0031	10/18/21 12:17	
Fluorene	mg/kg	ND	0.0031	10/18/21 12:17	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0031	10/18/21 12:17	
Naphthalene	mg/kg	ND	0.0031	10/18/21 12:17	
Pyrene	mg/kg	ND	0.0031	10/18/21 12:17	
2-Fluorobiphenyl (S)	%	93	40-120	10/18/21 12:17	
Terphenyl-d14 (S)	%	101	45-130	10/18/21 12:17	

LABORATORY CONTROL SAMPLE: 3002337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.031	0.026	82	70-130	
2-Methylnaphthalene	mg/kg	0.031	0.026	81	55-120	
Acenaphthene	mg/kg	0.031	0.026	82	45-120	
Anthracene	mg/kg	0.031	0.026	84	50-120	
Benzo(a)anthracene	mg/kg	0.031	0.027	85	55-125	
Benzo(a)pyrene	mg/kg	0.031	0.026	83	45-120	
Benzo(b)fluoranthene	mg/kg	0.031	0.027	85	50-125	
Benzo(k)fluoranthene	mg/kg	0.031	0.026	83	55-120	
Chrysene	mg/kg	0.031	0.026	84	55-120	
Dibenz(a,h)anthracene	mg/kg	0.031	0.027	87	40-125	
Fluoranthene	mg/kg	0.031	0.026	82	50-125	
Fluorene	mg/kg	0.031	0.026	82	50-120	
Indeno(1,2,3-cd)pyrene	mg/kg	0.031	0.027	85	44-125	
Naphthalene	mg/kg	0.031	0.026	83	45-120	
Pyrene	mg/kg	0.031	0.026	84	50-125	
2-Fluorobiphenyl (S)	%			81	40-120	
Terphenyl-d14 (S)	%			83	45-130	

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002340 3002341											
Parameter	Units	60383282002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1-Methylnaphthalene	mg/kg	0.0098	0.038	0.04	0.052	0.040	111	74	50-145	27	61
2-Methylnaphthalene	mg/kg	0.014	0.038	0.04	0.072	0.045	153	78	50-120	46	61 M1
Acenaphthene	mg/kg	ND	0.038	0.04	0.034	0.031	88	76	10-150	10	42
Anthracene	mg/kg	ND	0.038	0.04	0.036	0.031	95	77	10-160	17	54
Benzo(a)anthracene	mg/kg	ND	0.038	0.04	0.038	0.033	100	83	10-160	14	62
Benzo(a)pyrene	mg/kg	ND	0.038	0.04	0.035	0.030	90	74	10-150	14	66
Benzo(b)fluoranthene	mg/kg	0.0020J	0.038	0.04	0.034	0.031	85	72	10-165	10	61
Benzo(k)fluoranthene	mg/kg	ND	0.038	0.04	0.032	0.029	85	73	10-165	10	53
Chrysene	mg/kg	0.0057	0.038	0.04	0.039	0.033	87	68	10-150	16	57
Dibenz(a,h)anthracene	mg/kg	ND	0.038	0.04	0.041	0.037	108	92	10-175	12	48
Fluoranthene	mg/kg	ND	0.038	0.04	0.040	0.033	104	83	10-180	18	54
Fluorene	mg/kg	ND	0.038	0.04	0.040	0.034	104	84	20-145	16	39
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.038	0.04	0.041	0.036	107	91	10-150	12	59
Naphthalene	mg/kg	0.0053	0.038	0.04	0.041	0.035	92	74	10-165	15	54
Pyrene	mg/kg	0.0021J	0.038	0.04	0.037	0.032	92	76	10-180	14	61
2-Fluorobiphenyl (S)	%						79	73	40-120		
Terphenyl-d14 (S)	%						88	77	45-130		

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

QC Batch:	749915	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

METHOD BLANK: 3002899

Matrix: Solid

Associated Lab Samples: 60383282001, 60383282002, 60383282003, 60383282004, 60383282005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/15/21 16:26	

SAMPLE DUPLICATE: 3002900

Parameter	Units	60383199002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.0	11.2	2	20	

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QUALIFIERS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D4 Sample was diluted due to the presence of high levels of target analytes.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

S8 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-extraction and/or re-analysis)

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383282001	EXC-SP 1	EPA 3546	749786	EPA 8015B	750155
60383282002	EXC-SP 2	EPA 3546	749786	EPA 8015B	750155
60383282003	EXC-SP 3	EPA 3546	749786	EPA 8015B	750155
60383282004	EXC-SP 4	EPA 3546	749786	EPA 8015B	750155
60383282005	EXC-SP 5	EPA 3546	749786	EPA 8015B	750155
60383282001	EXC-SP 1	EPA 5035A/5030B	751303	EPA 8015B	751376
60383282002	EXC-SP 2	EPA 5035A/5030B	751303	EPA 8015B	751376
60383282003	EXC-SP 3	EPA 5035A/5030B	751303	EPA 8015B	751376
60383282004	EXC-SP 4	EPA 5035A/5030B	751303	EPA 8015B	751376
60383282005	EXC-SP 5	EPA 5035A/5030B	751303	EPA 8015B	751376
60383282001	EXC-SP 1	EPA 3050	749828	EPA 6010	750172
60383282002	EXC-SP 2	EPA 3050	749828	EPA 6010	750172
60383282003	EXC-SP 3	EPA 3050	749828	EPA 6010	750172
60383282004	EXC-SP 4	EPA 3050	749828	EPA 6010	750172
60383282005	EXC-SP 5	EPA 3050	749828	EPA 6010	750172
60383282001	EXC-SP 1	EPA 3546	749787	EPA 8270 by SIM	750078
60383282002	EXC-SP 2	EPA 3546	749787	EPA 8270 by SIM	750078
60383282003	EXC-SP 3	EPA 3546	749787	EPA 8270 by SIM	750078
60383282004	EXC-SP 4	EPA 3546	749787	EPA 8270 by SIM	750078
60383282005	EXC-SP 5	EPA 3546	749787	EPA 8270 by SIM	750078
60383282001	EXC-SP 1	EPA 5035A/5030B	750152	EPA 8260B	750219
60383282002	EXC-SP 2	EPA 5035A/5030B	750152	EPA 8260B	750219
60383282003	EXC-SP 3	EPA 5035A/5030B	750152	EPA 8260B	750219
60383282004	EXC-SP 4	EPA 5035A/5030B	750152	EPA 8260B	750219
60383282005	EXC-SP 5	EPA 5035A/5030B	750152	EPA 8260B	750219
60383282001	EXC-SP 1	ASTM D2974	749915		
60383282002	EXC-SP 2	ASTM D2974	749915		
60383282003	EXC-SP 3	ASTM D2974	749915		
60383282004	EXC-SP 4	ASTM D2974	749915		
60383282005	EXC-SP 5	ASTM D2974	749915		

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Sample Condition Upon Receipt

WO# : 60383282Client Name: HRLCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 500206518816 Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☒Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☐Thermometer Used: T-296 Type of Ice: Wet ☒ Blue ☐ None ☐Cooler Temperature (°C): As-read 1.7 Corr. Factor -0.3 Corrected 1.4

Date and initials of person examining contents:

Temperature should be above freezing to 6°C

Chain of Custody present: ☒ Yes ☐ No ☐ N/AChain of Custody relinquished: ☒ Yes ☐ No ☐ N/ASamples arrived within holding time: ☒ Yes ☐ No ☐ N/AShort Hold Time analyses (<72hr): ☐ Yes ☒ No ☐ N/ARush Turn Around Time requested: ☒ Yes ☐ No ☐ N/ASufficient volume: ☒ Yes ☐ No ☐ N/ACorrect containers used: ☒ Yes ☐ No ☐ N/APace containers used: ☒ Yes ☐ No ☐ N/AContainers intact: ☒ Yes ☐ No ☐ N/AUnpreserved 5035A / TX1005/1006 soils frozen in 48hrs? ☐ Yes ☐ No ☒ N/AFiltered volume received for dissolved tests? ☐ Yes ☐ No ☒ N/ASample labels match COC: Date / time / ID / analyses ☒ Yes ☐ No ☐ N/ASamples contain multiple phases? Matrix: SL ☐ Yes ☒ No ☐ N/AContainers requiring pH preservation in compliance? ☐ Yes ☐ No ☒ N/A(HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)

(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#

Cyanide water sample checks:

Lead acetate strip turns dark? (Record only) ☐ Yes ☐ NoPotassium iodide test strip turns blue/purple? (Preserve) ☐ Yes ☐ NoTrip Blank present: ☐ Yes ☐ No ☒ N/AHeadspace in VOA vials (>6mm): ☐ Yes ☐ No ☒ N/ASamples from USDA Regulated Area: State: Co ☐ Yes ☒ No ☐ N/AAdditional labels attached to 5035A / TX1005 vials in the field? ☐ Yes ☐ No ☒ N/A

List sample IDs, volumes, lot #'s of preservative and the date/time added.

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐Field Data Required? Y ☐ N ☒

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Client: HRL Compliance Solutions Inc. 2385 F 1/2 RD Grand Junction, CO 81505

Billing Info: Terra Energy Partners Attn: Tammi Gose 1058 County Road 215 Parachute, CO 81650 Acct #: TERENGPCO

Report To: Mike Gardner & Kris Rowe mgardner@terraep.com krowe@hrlcomp.com

Project Description: Terra Energy Partners - River Ranch A - Riser Spill

City/State Collected: COLORADO

Phone: 970-243-3271 Fax: 970-243-4380 Client Project #: TEP - River Ranch A

Collected By: Kris Rowe Site/Facility ID: P.O. #

Collected By (Signature): Riser Spill - Excavation

Immediate Packed on Ice N Y X

Rush ? (lab must be notified) Same Day (200%) Next Day (100%) Two Day (50%) Three Day (25%) Date Results Needed Quickest Rush Possible Email? No X Yes Fax? X No Yes

Sample ID Matrix* Comp/Grab Depth Date Time

EXC - SP 1 Grab Soil 0-6" 10/14/2021 13:30 2

EXC - SP 2 Grab Soil 0-6" 10/14/2021 13:45 2

EXC - SP 3 Grab Soil 0-6" 10/14/2021 14:00 2

EXC - SP 4 Grab Soil 0-6" 10/14/2021 14:20 2

EXC - SP 5 Grab Soil 0-6" 10/14/2021 14:30 2

Matrix SS-Soil GW-Groundwater WW-WasteWater DW-Drinking Water OT-Other

Remarks: Run the full COGCC Table 915-1 soil analysis (run everything except SAR/EC/pH and Boron) Run COGCC protection to GW thresholds

Relinquished by (Sign) Date: 10/14/21 Time: 1715

Relinquished by (Sign) Date: 10/14/21 Time: 1800

Relinquished by (Sign) Date: Time:

Analysis / Container / Preservative

COGCC Table 915-1

Table #

Acct #:

Template:

Prelogin: PM: 824 - Chris Ward PB:

Shipped Via: FedEx Ground

Rem/Contaminant Sample #

2W6ku

Hold #

Condition: (Lab Use)

COC Seal Intact Y N

pH Checked NCF:

Date: 10/15/21 Time: 0910



9608 Loriet Blvd
Lenexa, KS 66219
Ph: 913-563-1407
Ph: 702-888-2153