

October 19, 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.: 60383280

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

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.: 60383280

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.: 60383280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60383280001	WETLAND-UG 1	Water	10/14/21 15:00	10/15/21 09:10
60383280002	WETLAND-BREACH PT	Water	10/14/21 15:15	10/15/21 09:10
60383280003	WETLAND-DG 1	Water	10/14/21 15:30	10/15/21 09:10
60383280004	CONFLUENCE-DG 2	Water	10/14/21 15:45	10/15/21 09:10
60383280005	ACCESS RD CULVERT-DG 3	Water	10/14/21 16:00	10/15/21 09:10
60383280006	ROBINSON A CULVERT- DG 4	Water	10/14/21 16:10	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.: 60383280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60383280001	WETLAND-UG 1	EPA 5030B/8260	CJC	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	PASI-K
60383280002	WETLAND-BREACH PT	EPA 5030B/8260	PGH	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	PASI-K
60383280003	WETLAND-DG 1	EPA 5030B/8260	PGH	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	PASI-K
60383280004	CONFLUENCE-DG 2	EPA 5030B/8260	CJC	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	PASI-K
60383280005	ACCESS RD CULVERT-DG 3	EPA 5030B/8260	CJC	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	PASI-K
60383280006	ROBINSON A CULVERT- DG 4	EPA 5030B/8260	CJC	11	PASI-K
		SM 2540C	BLA	1	PASI-K
		EPA 300.0	ALH	2	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.: 60383280

Sample: WETLAND-UG 1		Lab ID: 60383280001		Collected: 10/14/21 15:00		Received: 10/15/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Benzene	ND	ug/L	0.50	1		10/15/21 12:38	71-43-2		
Ethylbenzene	ND	ug/L	0.50	1		10/15/21 12:38	100-41-4		
Naphthalene	ND	ug/L	10.0	1		10/15/21 12:38	91-20-3		
Toluene	ND	ug/L	1.0	1		10/15/21 12:38	108-88-3		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/15/21 12:38	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/15/21 12:38	108-67-8		
Xylene (Total)	ND	ug/L	1.5	1		10/15/21 12:38	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120	1		10/15/21 12:38	460-00-4		
Toluene-d8 (S)	96	%	80-120	1		10/15/21 12:38	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		10/15/21 12:38	2199-69-1		
Preservation pH	1.0		0.10	1		10/15/21 12:38			
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	856	mg/L	13.3	1		10/15/21 13:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	203	mg/L	20.0	20		10/18/21 11:32	16887-00-6		
Sulfate	145	mg/L	20.0	20		10/18/21 11:32	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

Sample: WETLAND-BREACH PT		Lab ID: 60383280002		Collected: 10/14/21 15:15		Received: 10/15/21 09:10		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Benzene	26.6	ug/L	0.50	1			10/18/21 09:12	71-43-2	
Ethylbenzene	21.3	ug/L	0.50	1			10/18/21 09:12	100-41-4	
Naphthalene	7.5J	ug/L	10.0	1			10/18/21 09:12	91-20-3	
Toluene	166	ug/L	1.0	1			10/18/21 09:12	108-88-3	
1,2,4-Trimethylbenzene	84.2	ug/L	1.0	1			10/18/21 09:12	95-63-6	
1,3,5-Trimethylbenzene	64.5	ug/L	1.0	1			10/18/21 09:12	108-67-8	
Xylene (Total)	352	ug/L	1.5	1			10/18/21 09:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120	1			10/18/21 09:12	460-00-4	
Toluene-d8 (S)	102	%	80-120	1			10/18/21 09:12	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1			10/18/21 09:12	2199-69-1	
Preservation pH	1.0		0.10	1			10/18/21 09:12		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	928	mg/L	13.3	1			10/15/21 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	229	mg/L	20.0	20			10/18/21 11:44	16887-00-6	
Sulfate	159	mg/L	20.0	20			10/18/21 11:44	14808-79-8	

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

Sample: WETLAND-DG 1		Lab ID: 60383280003	Collected: 10/14/21 15:30	Received: 10/15/21 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City						
Benzene	15.6	ug/L	0.50	1		10/18/21 09:26	71-43-2	
Ethylbenzene	12.7	ug/L	0.50	1		10/18/21 09:26	100-41-4	
Naphthalene	4.8J	ug/L	10.0	1		10/18/21 09:26	91-20-3	
Toluene	124	ug/L	1.0	1		10/18/21 09:26	108-88-3	
1,2,4-Trimethylbenzene	43.6	ug/L	1.0	1		10/18/21 09:26	95-63-6	
1,3,5-Trimethylbenzene	35.3	ug/L	1.0	1		10/18/21 09:26	108-67-8	
Xylene (Total)	257	ug/L	1.5	1		10/18/21 09:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		10/18/21 09:26	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		10/18/21 09:26	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		10/18/21 09:26	2199-69-1	
Preservation pH	1.0		0.10	1		10/18/21 09:26		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	879	mg/L	13.3	1		10/15/21 13:32		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	209	mg/L	20.0	20		10/18/21 14:18	16887-00-6	
Sulfate	151	mg/L	20.0	20		10/18/21 14:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

Sample: CONFLUENCE-DG 2		Lab ID: 60383280004		Collected: 10/14/21 15:45		Received: 10/15/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Benzene	26.6	ug/L	0.50	1		10/15/21 16:03	71-43-2		
Ethylbenzene	1.9	ug/L	0.50	1		10/15/21 16:03	100-41-4		
Naphthalene	1.2J	ug/L	10.0	1		10/15/21 16:03	91-20-3		
Toluene	71.8	ug/L	1.0	1		10/15/21 16:03	108-88-3		
1,2,4-Trimethylbenzene	7.4	ug/L	1.0	1		10/15/21 16:03	95-63-6		
1,3,5-Trimethylbenzene	7.4	ug/L	1.0	1		10/15/21 16:03	108-67-8		
Xylene (Total)	95.7	ug/L	1.5	1		10/15/21 16:03	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120	1		10/15/21 16:03	460-00-4		
Toluene-d8 (S)	96	%	80-120	1		10/15/21 16:03	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1		10/15/21 16:03	2199-69-1		
Preservation pH	1.0		0.10	1		10/15/21 16:03			
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	924	mg/L	13.3	1		10/15/21 13:32			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	220	mg/L	20.0	20		10/18/21 14:29	16887-00-6		
Sulfate	141	mg/L	20.0	20		10/18/21 14:29	14808-79-8		

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

Sample: **ACCESS RD CULVERT-DG** Lab ID: **60383280005** Collected: 10/14/21 16:00 Received: 10/15/21 09:10 Matrix: Water
3

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								
Analytical Method: EPA 5030B/8260								
Pace Analytical Services - Kansas City								
Benzene	6.2	ug/L	0.50	1		10/15/21 16:17	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/15/21 16:17	100-41-4	
Naphthalene	ND	ug/L	10.0	1		10/15/21 16:17	91-20-3	
Toluene	10.4	ug/L	1.0	1		10/15/21 16:17	108-88-3	
1,2,4-Trimethylbenzene	1.1	ug/L	1.0	1		10/15/21 16:17	95-63-6	
1,3,5-Trimethylbenzene	1.6	ug/L	1.0	1		10/15/21 16:17	108-67-8	
Xylene (Total)	15.1	ug/L	1.5	1		10/15/21 16:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		10/15/21 16:17	460-00-4	
Toluene-d8 (S)	95	%	80-120	1		10/15/21 16:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		10/15/21 16:17	2199-69-1	
Preservation pH	1.0		0.10	1		10/15/21 16:17		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1160	mg/L	13.3	1		10/15/21 13:32		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	226	mg/L	20.0	20		10/18/21 14:41	16887-00-6	
Sulfate	296	mg/L	20.0	20		10/18/21 14:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

Sample: ROBINSON A CULVERT-DG 4 **Lab ID:** 60383280006 Collected: 10/14/21 16:10 Received: 10/15/21 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								
Analytical Method: EPA 5030B/8260								
Pace Analytical Services - Kansas City								
Benzene	ND	ug/L	0.50	1		10/15/21 16:32	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		10/15/21 16:32	100-41-4	
Naphthalene	ND	ug/L	10.0	1		10/15/21 16:32	91-20-3	
Toluene	ND	ug/L	1.0	1		10/15/21 16:32	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/15/21 16:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/15/21 16:32	108-67-8	
Xylene (Total)	ND	ug/L	1.5	1		10/15/21 16:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		10/15/21 16:32	460-00-4	
Toluene-d8 (S)	97	%	80-120	1		10/15/21 16:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		10/15/21 16:32	2199-69-1	
Preservation pH	1.0		0.10	1		10/15/21 16:32		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1580	mg/L	20.0	1		10/15/21 13:32		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	256	mg/L	20.0	20		10/18/21 14:53	16887-00-6	
Sulfate	505	mg/L	50.0	50		10/18/21 15:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

QC Batch:	749792	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383280001

METHOD BLANK: 3002351

Matrix: Water

Associated Lab Samples: 60383280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/15/21 09:38	
1,3,5-Trimethylbenzene	ug/L	0.11J	1.0	10/15/21 09:38	
Benzene	ug/L	ND	0.50	10/15/21 09:38	
Ethylbenzene	ug/L	ND	0.50	10/15/21 09:38	
Naphthalene	ug/L	ND	10.0	10/15/21 09:38	
Toluene	ug/L	ND	1.0	10/15/21 09:38	
Xylene (Total)	ug/L	ND	1.5	10/15/21 09:38	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	10/15/21 09:38	
4-Bromofluorobenzene (S)	%	100	80-120	10/15/21 09:38	
Toluene-d8 (S)	%	96	80-120	10/15/21 09:38	

LABORATORY CONTROL SAMPLE: 3002352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	97	80-125	
1,3,5-Trimethylbenzene	ug/L	20	19.3	96	80-125	
Benzene	ug/L	20	19.9	99	80-120	
Ethylbenzene	ug/L	20	19.2	96	80-120	
Naphthalene	ug/L	20	21.2	106	70-120	
Toluene	ug/L	20	18.7	93	80-120	
Xylene (Total)	ug/L	60	57.6	96	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

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.

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

QC Batch:	749814	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383280004, 60383280005, 60383280006

METHOD BLANK: 3002441 Matrix: Water

Associated Lab Samples: 60383280004, 60383280005, 60383280006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/15/21 15:48	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/15/21 15:48	
Benzene	ug/L	ND	0.50	10/15/21 15:48	
Ethylbenzene	ug/L	ND	0.50	10/15/21 15:48	
Naphthalene	ug/L	ND	10.0	10/15/21 15:48	
Toluene	ug/L	ND	1.0	10/15/21 15:48	
Xylene (Total)	ug/L	ND	1.5	10/15/21 15:48	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	10/15/21 15:48	
4-Bromofluorobenzene (S)	%	97	80-120	10/15/21 15:48	
Toluene-d8 (S)	%	95	80-120	10/15/21 15:48	

LABORATORY CONTROL SAMPLE: 3002442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.8	94	80-125	
1,3,5-Trimethylbenzene	ug/L	20	19.0	95	80-125	
Benzene	ug/L	20	19.9	99	80-120	
Ethylbenzene	ug/L	20	19.8	99	80-120	
Naphthalene	ug/L	20	20.1	100	70-120	
Toluene	ug/L	20	18.7	93	80-120	
Xylene (Total)	ug/L	60	59.1	98	80-120	
1,2-Dichlorobenzene-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

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.

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

QC Batch:	749980	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383280002, 60383280003

METHOD BLANK: 3003395 Matrix: Water

Associated Lab Samples: 60383280002, 60383280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/18/21 08:01	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/18/21 08:01	
Benzene	ug/L	ND	0.50	10/18/21 08:01	
Ethylbenzene	ug/L	ND	0.50	10/18/21 08:01	
Naphthalene	ug/L	ND	10.0	10/18/21 08:01	
Toluene	ug/L	ND	1.0	10/18/21 08:01	
Xylene (Total)	ug/L	ND	1.5	10/18/21 08:01	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	10/18/21 08:01	
4-Bromofluorobenzene (S)	%	99	80-120	10/18/21 08:01	
Toluene-d8 (S)	%	99	80-120	10/18/21 08:01	

LABORATORY CONTROL SAMPLE: 3003396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	80-125	
1,3,5-Trimethylbenzene	ug/L	20	18.7	93	80-125	
Benzene	ug/L	20	19.5	97	80-120	
Ethylbenzene	ug/L	20	17.9	89	80-120	
Naphthalene	ug/L	20	15.3	77	70-120	
Toluene	ug/L	20	17.3	86	80-120	
Xylene (Total)	ug/L	60	55.7	93	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			98	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.: 60383280

QC Batch:	749839	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383280001, 60383280002, 60383280003, 60383280004, 60383280005, 60383280006

METHOD BLANK: 3002572 Matrix: Water

Associated Lab Samples: 60383280001, 60383280002, 60383280003, 60383280004, 60383280005, 60383280006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/15/21 13:31	

LABORATORY CONTROL SAMPLE: 3002573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	978	98	80-120	

SAMPLE DUPLICATE: 3002574

Parameter	Units	60383280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	853	0	10	

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QUALITY CONTROL DATA

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report

Pace Project No.: 60383280

QC Batch:	749861	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60383280001, 60383280002, 60383280003, 60383280004, 60383280005, 60383280006

METHOD BLANK: 3002671

Matrix: Water

Associated Lab Samples: 60383280001, 60383280002, 60383280003, 60383280004, 60383280005, 60383280006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	10/18/21 10:33	
Sulfate	mg/L	ND	1.0	10/18/21 10:33	

LABORATORY CONTROL SAMPLE: 3002672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3002673 3002674

Parameter	Units	60383241002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	29.1	25	25	61.7	52.1	130	92	80-120	17	15	M1, R1
Sulfate	mg/L	476	250	250	890	865	166	155	80-120	3	15	M1

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QUALIFIERS

Project: TERRA ENERGY PARTNERS-RIVER RA-Revised Report
Pace Project No.: 60383280

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.

BATCH QUALIFIERS

Batch: 749980

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.

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.: 60383280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60383280001	WETLAND-UG 1	EPA 5030B/8260	749792		
60383280002	WETLAND-BREACH PT	EPA 5030B/8260	749980		
60383280003	WETLAND-DG 1	EPA 5030B/8260	749980		
60383280004	CONFLUENCE-DG 2	EPA 5030B/8260	749814		
60383280005	ACCESS RD CULVERT-DG 3	EPA 5030B/8260	749814		
60383280006	ROBINSON A CULVERT- DG 4	EPA 5030B/8260	749814		
60383280001	WETLAND-UG 1	SM 2540C	749839		
60383280002	WETLAND-BREACH PT	SM 2540C	749839		
60383280003	WETLAND-DG 1	SM 2540C	749839		
60383280004	CONFLUENCE-DG 2	SM 2540C	749839		
60383280005	ACCESS RD CULVERT-DG 3	SM 2540C	749839		
60383280006	ROBINSON A CULVERT- DG 4	SM 2540C	749839		
60383280001	WETLAND-UG 1	EPA 300.0	749861		
60383280002	WETLAND-BREACH PT	EPA 300.0	749861		
60383280003	WETLAND-DG 1	EPA 300.0	749861		
60383280004	CONFLUENCE-DG 2	EPA 300.0	749861		
60383280005	ACCESS RD CULVERT-DG 3	EPA 300.0	749861		
60383280006	ROBINSON A CULVERT- DG 4	EPA 300.0	749861		

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Sample Condition Upon Receipt

WO#: 60383280



Client Name: HRL

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 500-06518816 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:

10/15/21

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>1 Day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix <u>WT & pH</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

