



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 18, 2017

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: JAMES RANCH BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/15/17 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received:	12/15/2017	Sampling Date:	12/15/2017
Reported:	12/18/2017	Sampling Type:	Soil
Project Name:	JAMES RANCH BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	32.30538	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH EAST 1' (H703485-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2017	ND	1.96	98.0	2.00	0.335	
Toluene*	<0.050	0.050	12/18/2017	ND	1.95	97.5	2.00	0.250	
Ethylbenzene*	<0.050	0.050	12/18/2017	ND	1.87	93.4	2.00	0.0455	
Total Xylenes*	<0.150	0.150	12/18/2017	ND	5.84	97.3	6.00	0.633	
Total BTX	<0.300	0.300	12/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/18/2017	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2017	ND	173	86.4	200	2.41	
DRO >C10-C28	13.7	10.0	12/18/2017	ND	194	97.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/18/2017	ND					

Surrogate: 1-Chlorooctane 87.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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Received:	12/15/2017	Sampling Date:	12/15/2017
Reported:	12/18/2017	Sampling Type:	Soil
Project Name:	JAMES RANCH BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	32.30538	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: MIDDLE 1' (H703485-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2017	ND	1.96	98.0	2.00	0.335	
Toluene*	<0.050	0.050	12/18/2017	ND	1.95	97.5	2.00	0.250	
Ethylbenzene*	<0.050	0.050	12/18/2017	ND	1.87	93.4	2.00	0.0455	
Total Xylenes*	<0.150	0.150	12/18/2017	ND	5.84	97.3	6.00	0.633	
Total BTEX	<0.300	0.300	12/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/18/2017	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2017	ND	173	86.4	200	2.41	
DRO >C10-C28	124	10.0	12/18/2017	ND	194	97.1	200	2.90	
EXT DRO >C28-C36	17.0	10.0	12/18/2017	ND					

Surrogate: 1-Chlorooctane 92.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.4 % 34.7-157

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Received:	12/15/2017	Sampling Date:	12/15/2017
Reported:	12/18/2017	Sampling Type:	Soil
Project Name:	JAMES RANCH BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	32.30538	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SOUTH WEST 1' (H703485-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/18/2017	ND	1.96	98.0	2.00	0.335		
Toluene*	<0.050	0.050	12/18/2017	ND	1.95	97.5	2.00	0.250		
Ethylbenzene*	<0.050	0.050	12/18/2017	ND	1.87	93.4	2.00	0.0455		
Total Xylenes*	<0.150	0.150	12/18/2017	ND	5.84	97.3	6.00	0.633		
Total BTX	<0.300	0.300	12/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/18/2017	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2017	ND	173	86.4	200	2.41	
DRO >C10-C28	<10.0	10.0	12/18/2017	ND	194	97.1	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	12/18/2017	ND					

Surrogate: 1-Chlorooctane 88.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326