



PRELIMINARY RESULTS

December 07, 2016

JERRY PARKER

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: NM BO STATE

Enclosed are the results of analyses for samples received by the laboratory on 12/06/16 10:20.

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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	12/06/2016	Sampling Date:	12/06/2016
Reported:	12/07/2016	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #1 (H602724-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/06/2016	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	286	50.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 73.3 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Sample ID: SAMPLE #2 (H602724-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/06/2016	ND	400	100	400	0.00	
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	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	163	10.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 80.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Received:	12/06/2016	Sampling Date:	12/06/2016
Reported:	12/07/2016	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #3 (H602724-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/06/2016	ND	400	100	400	0.00	
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	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	85.6	10.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 72.4 % 35-147

Surrogate: 1-Chlorooctadecane 73.2 % 28-171

Sample ID: SAMPLE #4 (H602724-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/06/2016	ND	400	100	400	0.00	
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	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	169	10.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 58.1 % 35-147

Surrogate: 1-Chlorooctadecane 65.6 % 28-171

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Received:	12/06/2016	Sampling Date:	12/06/2016
Reported:	12/07/2016	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #5 (H602724-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/06/2016	ND	400	100	400	0.00	
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	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	18.6	10.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 74.9 % 35-147

Surrogate: 1-Chlorooctadecane 78.4 % 28-171

Sample ID: SAMPLE #6 (H602724-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/06/2016	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	900	50.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 64.2 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Received:	12/06/2016	Sampling Date:	12/06/2016
Reported:	12/07/2016	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #7 (H602724-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/06/2016	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/06/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	558	50.0	12/06/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 70.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

Sample ID: SAMPLE #8 (H602724-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/06/2016	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1770	50.0	12/06/2016	ND	181	90.3	200	0.656		
DRO >C10-C28	4660	50.0	12/06/2016	ND	175	87.5	200	7.16		

Surrogate: 1-Chlorooctane 161 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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 EUNICE NM, 88231
 Fax To: (575) 396-6253

 Received: 12/06/2016
 Reported: 12/07/2016
 Project Name: NM BO STATE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 12/06/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SAMPLE #9 (H602724-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/06/2016	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5690	50.0	12/07/2016	ND	181	90.3	200	0.656	
DRO >C10-C28	12300	50.0	12/07/2016	ND	175	87.5	200	7.16	

Surrogate: 1-Chlorooctane 172 % 35-147

Surrogate: 1-Chlorooctadecane 241 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



Celey D. Keene, Lab Director/Quality Manager

January 11, 2017

JERRY PARKER

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: NM BO STATE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/17 9:20.

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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,



Celey D. Keene

Lab Director/Quality Manager

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 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #1 (H700018-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	185	10.0	01/04/2017	ND	225	113	200	2.65	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

Sample ID: #2 (H700018-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	<10.0	10.0	01/04/2017	ND	225	113	200	2.65	

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 28-171

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 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #3 (H700018-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	QR-03
DRO >C10-C28	27.0	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.1 % 28-171

Sample ID: #4 (H700018-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	250	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.2 % 28-171

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Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #5 (H700018-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	30.0	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.8 % 28-171

Sample ID: #6 (H700018-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	265	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 118 % 28-171

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*=Accredited Analyte

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 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #7 (H700018-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	35.5	10.0	01/06/2017	ND	194	97.1	200	0.949	
<i>Surrogate: 1-Chlorooctane</i>	<i>97.4 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>28-171</i>							

Sample ID: #8 (H700018-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	815	10.0	01/06/2017	ND	194	97.1	200	0.949	
<i>Surrogate: 1-Chlorooctane</i>	<i>107 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>115 %</i>	<i>28-171</i>							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: NM BO STATE
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: #9 (H700018-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	167	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- 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





CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Gross Timbers Energy, LLC
 Project Manager: Jerry Fowler
 Address: _____ State: _____ Zip: _____
 City: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: NW 60 State Battery
 Project Location: _____ City: _____ State: _____ Zip: _____
 Sampler Name: _____ Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	INITIALS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H100018	#1		1			<input checked="" type="checkbox"/>				11/4/17	8:15	PH
	#2		1			<input checked="" type="checkbox"/>					8:15	
	#3		1			<input checked="" type="checkbox"/>					8:20	
	#4		1			<input checked="" type="checkbox"/>					8:20	
	#5		1			<input checked="" type="checkbox"/>					8:30	
	#6		1			<input checked="" type="checkbox"/>					8:30	
	#7		1			<input checked="" type="checkbox"/>					8:30	
	#8		1			<input checked="" type="checkbox"/>					8:30	
	#9		1			<input checked="" type="checkbox"/>					8:30	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jerry Fowler Date: 11/4/17 Time: 9:20
 Received By: Medi Munson
 Delivered By: (Circle One) UPS #75 482
 Sampler - UPS - Bus - Other:
 Sample Condition: Cool Intact
 CHECKED BY: [Signature]
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Sparker @ ctfIELDSVCS.COM

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

January 11, 2017

JERRY PARKER

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: NM BO STATE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/17 9:20.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #1 (H700018-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	185	10.0	01/04/2017	ND	225	113	200	2.65	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

Sample ID: #2 (H700018-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	<10.0	10.0	01/04/2017	ND	225	113	200	2.65	

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #3 (H700018-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	QR-03
DRO >C10-C28	27.0	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.1 % 28-171

Sample ID: #4 (H700018-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	250	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #5 (H700018-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	30.0	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.8 % 28-171

Sample ID: #6 (H700018-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	265	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 118 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #7 (H700018-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	35.5	10.0	01/06/2017	ND	194	97.1	200	0.949	
<i>Surrogate: 1-Chlorooctane</i>	<i>97.4 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>28-171</i>							

Sample ID: #8 (H700018-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	815	10.0	01/06/2017	ND	194	97.1	200	0.949	
<i>Surrogate: 1-Chlorooctane</i>	<i>107 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>115 %</i>	<i>28-171</i>							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
 P. O. BOX 909
 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #9 (H700018-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
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	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	167	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Gross Timbers Energy, LLC
 Project Manager: Jerry Fowler
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: NW 60 State Battery
 Project Location: _____
 Sampler Name: _____
 P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	INITIALS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H100018	#1		1			✓				11/4/17	8:15	✓	PH
	#2		1			✓					8:15	✓	
	#3		1			✓					8:20	✓	
	#4		1			✓					8:20	✓	
	#5		1			✓					8:30	✓	
	#6		1			✓					8:30	✓	
	#7		1			✓					8:30	✓	
	#8		1			✓					8:30	✓	
	#9		1			✓					8:30	✓	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

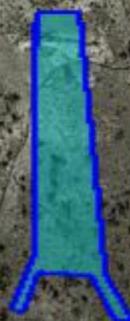
Relinquished By: Jerry Fowler Date: 11/4/17 Time: 9:20
 Received By: Medi Munson
 Delivered By: (Circle One) UPS 75 482
 Sampler - UPS - Bus - Other: #75 482
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: [Signature]
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Sparker @ ctfIELDSVCS.COM

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



165 ft

NM BO St Battery



BO State #2

Google Earth

391 ft

1996

Imagery Date: 2/13/2014 32°45'42.84" N 103°30'22.89" W elev 3981 ft eye alt 5682 ft