

APPROVED

By Olivia Yu at 11:32 am, Jan 19, 2018

NMOCD approves of the proposed
delineation plan for 1RP-4003.

**1RP-4003
DELINEATION PLAN
Lea Unit 004
Produced Water Spill
Lea County, New Mexico**

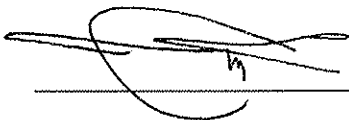
Latitude: N32.5895°
Longitude: W -103.5246°

LAI Project No. 17-0175-15

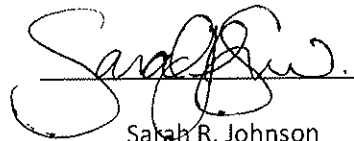
January 8, 2018

Prepared for:
Legacy Reserves Operating, LP
303 West Wall Street, Suite 1300
Midland, Texas 79701

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701

A handwritten signature in black ink, appearing to be 'Mark J. Larson', written over a horizontal line.

Mark J. Larson, P.G.
Certified Professional Geologist #10490

A handwritten signature in black ink, appearing to be 'Sarah R. Johnson', written over a horizontal line.

Sarah R. Johnson
Staff Geologist

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Table of Contents

1.0 INTRODUCTION.....	1
1.1 Background.....	1
1.2 Physical Setting.....	1
1.3 Remediation Action Levels.....	2
2.0 DELINEATION PLAN.....	2
3.0 REMEDIATION PLAN.....	2

Figures

Figure 1	Topographic Map
Figure 2	Aerial Map Showing Proposed Sample Points

Appendices

Appendix A	Initial C-141
Appendix B	Trinity Report and Analysis
Appendix C	Photographs

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation plan on behalf of Legacy Reserves Operating, LP (Legacy) for submittal to the New Mexico Oil Conservation Division (OCD) District 1 for a produced water spill at the Lea Unit 004 (Site) located in Unit H (SE/4, NE/4), Section 11, Township 20 South, Range 34 East in Lea County, New Mexico. The geodetic position is North 32.5895° and West - 103.5246°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The spill occurred on November 24, 2015, due to interference from hydraulic fracturing being performed at a nearby well. The blowout preventer rod failed and an unknown amount of produced water was released. The majority of the released fluids were contained to the caliche pad with a relatively smaller portion migrating laterally into the pasture to the west and south of the well head. The blowout preventer rod was repaired and an unknown amount of standing fluids was removed from the location with vacuum trucks. The initial C-141 was submitted on November 30, 2015 and assigned remediation permit number 1RP-4003. Appendix A presents the initial C-141.

Trinity Oilfield Services (Trinity) was retained to investigate the release and estimate the spill area at about 51,176 square feet or about 1.2 acres. Trinity collected soil samples at five (5) locations (SP1 through SP5) within the spill area from 0, 2, 4 and 6 feet below ground surface (bgs). The samples were analyzed by Cardinal Laboratories for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) by EPA SW-846 Methods 8021B and 8015M, and chloride by titration method SM4500CL-B.

The laboratory reported BTEX below the recommended remediation action level (RRAL) of 50 milligrams per kilogram (mg/Kg). TPH exceeded the RRAL (1,000 mg/Kg) in sample SP1, 0 feet (2,833 mg/Kg). chloride was above the delineation limit (600 mg/Kg) in samples SP1, 0 feet (6,800 mg/Kg), SP2, 0 feet (3,920 mg/Kg) and SP3, 0 feet (7,730 mg/Kg). The OCD rejected the C-141 for failure to delineation the release according to the conditions of the C-141. Appendix B presents the Trinity report and analysis.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,660 feet above mean sea level (msl);
- The topography slopes gently towards the southwest;
- The nearest surface water is a playa located about 0.4 miles north of the Site;
- The soils are designated as "Kermit soils and dune land, 0 to 12 percent slopes" consisting of 0 to 8 inches of fine sand underlain by 8 to 60 inches of fine sand;
- The surface geology is Eolian and Piedmont deposits from the Holocene to middle Pleistocene, the deposits consist of interlayered eolian sands and piedmont-slope deposits underlain by the Tertiary-age Blackwater Draw and Ogallala formations in descending order;
- Groundwater occurs in the Ogallala formation at approximately 58.14 feet below ground surface (bgs) (1976);

- The nearest fresh water well is located in Unit P (SE/4, SE/4), Section 12, Township 20 South, Range 34 East about 1.12 miles southwest of the Site;

1.3 Remediation Action Levels

Remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by OCD in *"Guidelines for Remediation of Leaks, Spills and Releases, pp. 6-7, August 13, 1993"*.

Criteria	Result	Score
Depth-to-Groundwater	50 – 99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1,000 Horizontal Feet	0

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

Depth to groundwater between 50 and 99 feet bgs requires vertical delineation for chloride to 600 milligrams per kilogram (mg/Kg) and maintained a minimum 5 feet farther in depth.

2.0 DELINEATION PLAN

LAI proposes to collect soil samples at five (5) locations around the well head and two (2) samples, one on either side (north and south), of the lease road in the pasture. The samples will be collected at 1 foot intervals to approximately 4 feet bgs and 2 foot intervals to approximately 12 feet bgs using direct push technology (DPT) depending on subsurface conditions. Additional samples will be collected in each cardinal direction (north, south, east and west) of the spill at the same depth intervals for horizontal delineation. The soil samples will be delivered under chain of custody and preservation to Permian Basin Environmental Lab (PBEL) in Midland, Texas. the upper samples (i.e., 0 to 1 foot) will be analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) by EPA SW-846 8021B and 8015M, respectively, with additional samples analyzed for delineation, if necessary. All samples will be analyzed for chloride by EPA Method 300. Pending laboratory results, further delineation will be determined to reach cleanup level standards. Figure 2 presents a site map showing proposed soil sample locations. Appendix C presents photographs.

3.0 REMEDIATION

Legacy will include a remediation plan in the delineation report to be submitted to the OCD upon receipt of the laboratory report.

Figures

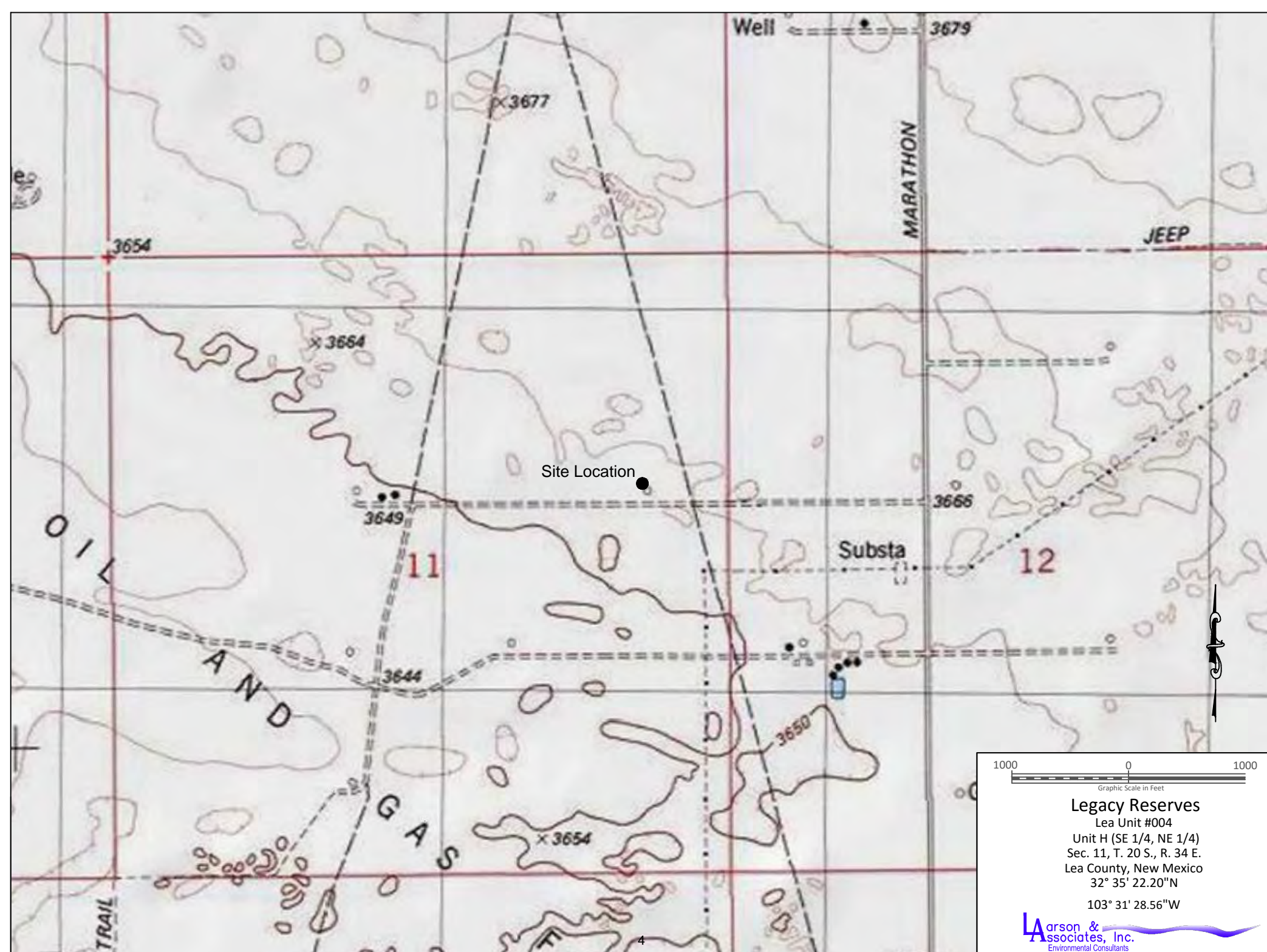
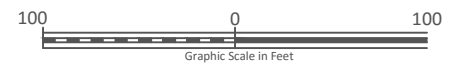


Figure 1 - Topographic Map



Legend

- Spill Area
- Proposed Sample Location



Legacy Reserves

Lea Unit #004

Unit H (SE 1/4, NE 1/4)

Sec. 11, T. 20 S., R. 34 E.

Lea County, New Mexico

32° 35' 22.20"N

103° 31' 28.56"W

Larson &
Associates, Inc.
Environmental Consultants

Figure 3 - Aerial Map

Appendix A

Initial C-141

District I
625 N. French Dr., Hobbs, NM 88240
District II
11 S. First St., Artesia, NM 88210
District III
000 Rio Brazos Road, Aztec, NM 87410
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company - Legacy Reserves L.P.	Contact - Brian Cunningham	
Address - PO Box 10848 Midland, TX 79702	Telephone No. - 432-234-9450	
Facility Name - Lea Unit 004	Facility Type - Pumping Unit	
Surface Owner - Fee	Mineral Owner - Federal	API No. - 30-025-02424

LOCATION OF RELEASE

Unit Letter H	Section 11	Township 20S	Range 34E	Feet from the 1980	North South Line North	Feet from the 660	East West Line East	County LEA
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.5895 Longitude 103.5246

NATURE OF RELEASE

Type of Release - Produced Water	Volume of Release	Volume Recovered
Source of Release - Adjacent Frac - Well Head	Date and Hour of Occurrence 11 24 15 0800	Date and Hour of Discovery Same
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones	
By Whom? - Todd Roberson	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Kellie Jones at 11:00 am, Nov 30, 2015

Describe Cause of Problem and Remedial Action Taken.*

A frac being performed on a adjacent well communicated with the 004. The Rod BOP failed and fluid began to leave the well. The BOP was fixed and all fluid was removed from location with vac trucks.

Describe Area Affected and Cleanup Action Taken.*

The majority of the fluid stayed on location with a small portion leaving location but was quickly contained.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and or regulations.

Signature: <i>Brian Cunningham</i>		OIL CONSERVATION DIVISION	
Printed Name: Brian Cunningham		Approved by Environmental Specialist: <i>Kellie Jones</i>	
Title: Production Foreman		Approval Date: 11/30/2015	Expiration Date: 01/30/2016
E-mail Address: bcunningham@legacylp.com		Conditions of Approval: Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of remediation recommended.	
Date: 11/30/15 Phone: 432-234-9450		Attached <input type="checkbox"/> 1RP-4003	

Attach Additional Sheets If Necessary

nKJ1533439781
pKJ1533439914

Appendix B
Trinity Reports and Analysis



P.O. Box 2587 • Hobbs, NM 88241 • Phone: (575) 397-4961 • todd@trinityoilfieldservices.com

March 15, 2016

NOT APPROVED

Kellie Jones
NMOCD District 1
Environmental Specialist
625 N. French Dr.
Hobbs, NM 88240

RE: Closure Report

Legacy Reserves - Lea Federal Unit 004
UL/H, S11, T20S, R34E
API No. 30-025-02424
IRP-4003

Ms. Jones,

Trinity Oilfield Services is requesting closure of IRP-4003 on behalf of Legacy Reserves LP. On November 24, 2015 Legacy Reserves LP had an Accidental Release (AR). During a frac of an adjacent well, fluid came out of the 004 well. Most of the fluid was contained on location, however some did leave location. Trinity was retained by Legacy Reserves LP to represent them through the clean up process. We conducted field titrations on site and determined there to be chloride levels on location exceeding the NMOCD standards. We also determined the chloride levels off of location to be below the standard set forth by the NMOCD. Subsequently we pulled samples and submitted them to Cardinal Laboratories for analysis. Sample results are attached. As per the sample results provided this site meets the expectations in terms of contaminate levels off of location. The locations can be found on the sample map. Legacy Reserves LP would like to leave the chlorides on location in place until abandonment. We feel as though the chlorides were present prior to the AR. With all this be taken into consideration, we humbly request closure and thank you for your assistance in this matter.

Sincerely,

Todd Roberson

CC: Brian Cunningham - Legacy
Henryetta Price - BLM

District I
625 N. French Dr., Hobbs, NM 88240
District II
11 S. First St., Artesia, NM 88210
District III
000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural Resources

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Revised August 8, 2011

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1220 South St. Francis Dr.
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Submit 1 Copy to appropriate District Office in
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☒ Initial Report ☐ Final Report

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Address – PO Box 10848 Midland, TX 79702	Telephone No. – 432-234-9450	
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By Whom? – Todd Roberson	Date and Hour	
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If a Watercourse was Impacted, Describe Fully.*

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By Kellie Jones at 11:00 am, Nov 30, 2015

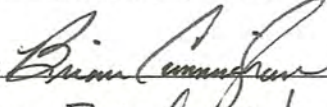
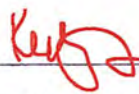
Describe Cause of Problem and Remedial Action Taken.*

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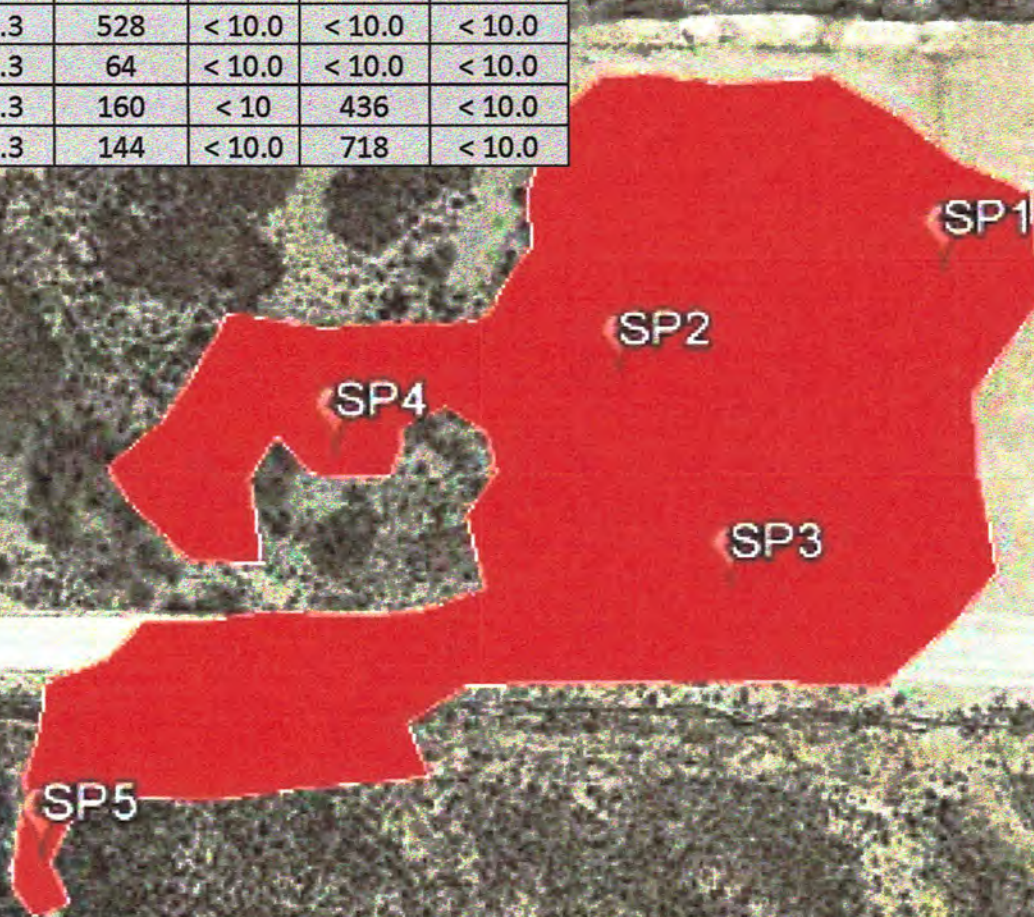
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Brian Cunningham	Approved by Environmental Specialist: 	
Title: Production Foreman	Approval Date: 11/30/2015	Expiration Date: 01/30/2016
E-mail Address: bcunningham@legacylp.com	Conditions of Approval: Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of remediation recommended.	Attached <input type="checkbox"/> 1RP-4003
Date: 11/30/15 Phone: 432-234-9450		

Attach Additional Sheets If Necessary

nKJ1533439781
pKJ1533439914

Sample Points	BTEX	Chloride	TPH-GRO	TPH-DRO	TPH-EXT DRO
SP1-0	< .3	6800	< 10.0	2090	743
SP1-2	< .3	368	< 10.0	885	71.7
SP1-4	< .3	352	< 10.0	28.9	< 10.0
SP1-6	< .3	192	< 10.0	< 10.0	< 10.0
SP2-0	< .3	3920	< 10.0	35.6	11.7
SP2-2	< .3	16	< 10.0	< 10.0	< 10.0
SP2-4	< .3	160	< 10.0	< 10.0	< 10.0
SP2-6	< .3	64	< 10.0	< 10.0	< 10.0
SP3-0	< .3	7730	< 10.0	10.5	< 10.0
SP3-2	< .3	64	< 10.0	< 10.0	< 10.0
SP3-4	< .3	240	< 10.0	< 10.0	< 10.0
SP3-6	< .3	64	< 10.0	< 10.0	< 10.0
SP4-0	< .3	352	< 10.0	< 10.0	< 10.0
SP4-2	< .3	112	< 10.0	< 10.0	< 10.0
SP4-4	< .3	144	< 10.0	< 10.0	< 10.0
SP4-6	< .3	160	< 10.0	< 10.0	< 10.0
SP5-0	< .3	528	< 10.0	< 10.0	< 10.0
SP5-2	< .3	64	< 10.0	< 10.0	< 10.0
SP5-4	< .3	160	< 10	436	< 10.0
SP5-6	< .3	144	< 10.0	718	< 10.0

52,176 Sq/ft
Contamination



January 07, 2016

TODD ROBERSON

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: LEA UNIT #4

Enclosed are the results of analyses for samples received by the laboratory on 01/04/16 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:01/04/2016
Reported:01/07/2016
Project Name:LEA UNIT #4
Project Number:NONE GIVEN
Project Location:NOT GIVEN

Sampling Date:12/24/2015
Sampling Type:Soil
Sampling Condition:Cool & Intact
Sample Received By:Jodi Henson

Sample ID: SP 1 - 0 (H600006-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	01/04/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	2090	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	743	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 141 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 - 2 (H600006-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	885	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	71.7	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 93.5 % 35-147

Surrogate: 1-Chlorooctadecane 126 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016
Reported: 01/07/2016
Project Name: LEA UNIT #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/24/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 - 4 (H600006-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 94.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	28.9	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016

Reported: 01/07/2016

Project Name: LEA UNIT #4

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/24/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 1 - 6 (H600006-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:01/04/2016
Reported:01/07/2016
Project Name:LEA UNIT #4
Project Number:NONE GIVEN
Project Location:NOT GIVEN

Sampling Date:12/24/2015
Sampling Type:Soil
Sampling Condition:Cool & Intact
Sample Received By:Jodi Henson

Sample ID: SP 2 - 0 (H600006-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	35.6	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	11.7	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 99.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 - 2 (H600006-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:01/04/2016
Reported:01/07/2016
Project Name:LEA UNIT #4
Project Number:NONE GIVEN
Project Location:NOT GIVEN

Sampling Date:12/24/2015
Sampling Type:Soil
Sampling Condition:Cool & Intact
Sample Received By:Jodi Henson

Sample ID: SP 2 - 4 (H600006-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 99.6 % 35-147

Surrogate: 1-Chlorooctadecane 99.6 % 28-171

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRINITY OILFIELD SERVICES & RENTALS, LLC
 TODD ROBERSON
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

 Received: 01/04/2016
 Reported: 01/07/2016
 Project Name: LEA UNIT #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/24/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 - 6 (H600006-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

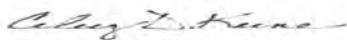
Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 99.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:01/04/2016
Reported:01/07/2016
Project Name:LEA UNIT #4
Project Number:NONE GIVEN
Project Location:NOT GIVEN

Sampling Date:12/24/2015
Sampling Type:Soil
Sampling Condition:Cool & Intact
Sample Received By:Jodi Henson

Sample ID: SP 3 - 0 (H600006-09)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	10.5	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 95.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 - 2 (H600006-10)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016
Reported: 01/07/2016
Project Name: LEA UNIT #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/24/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 - 4 (H600006-11)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016

Reported: 01/07/2016

Project Name: LEA UNIT #4

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/24/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 3 - 6 (H600006-12)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

TODD ROBERSON

P. O. BOX 2587

HOBBS NM, 88241

Fax To: NONE

Received: 01/04/2016

Reported: 01/07/2016

Project Name: LEA UNIT #4

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/24/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 4 - 0 (H600006-13)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52		
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38		
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31		
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22		
Total BTEX	<0.300	0.300	01/05/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 95.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND				

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:01/04/2016

Reported:01/07/2016

Project Name:LEA UNIT #4

Project Number:NONE GIVEN

Project Location:NOT GIVEN

Sampling Date:12/24/2015

Sampling Type:Soil

Sampling Condition:Cool & Intact

Sample Received By:Jodi Henson

Sample ID: SP 4 - 2 (H600006-14)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 94.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/04/2016	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 4 (H600006-15)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 97.5 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 6 (H600006-16)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/04/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/04/2016	ND					

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016

Reported: 01/07/2016

Project Name: LEA UNIT #4

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/24/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 5 - 0 (H600006-17)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/05/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/05/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/05/2016	ND					

Surrogate: 1-Chlorooctane 96.1 % 35-147

Surrogate: 1-Chlorooctadecane 92.7 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 01/04/2016

Reported: 01/07/2016

Project Name: LEA UNIT #4

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/24/2015

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 5 - 2 (H600006-18)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/05/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	<10.0	10.0	01/05/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/05/2016	ND					

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 4 (H600006-19)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/05/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	436	10.0	01/05/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/05/2016	ND					

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	01/04/2016	Sampling Date:	12/24/2015
Reported:	01/07/2016	Sampling Type:	Soil
Project Name:	LEA UNIT #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 6 (H600006-20)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/05/2016	ND	2.24	112	2.00	2.52	
Toluene*	<0.050	0.050	01/05/2016	ND	2.30	115	2.00	2.38	
Ethylbenzene*	<0.050	0.050	01/05/2016	ND	2.12	106	2.00	2.31	
Total Xylenes*	<0.150	0.150	01/05/2016	ND	6.75	113	6.00	2.22	
Total BTEX	<0.300	0.300	01/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/04/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/05/2016	ND	177	88.3	200	4.23	
DRO >C10-C28	718	10.0	01/05/2016	ND	167	83.3	200	4.95	
EXT DRO >C28-C35	<10.0	10.0	01/05/2016	ND					

Surrogate: 1-Chlorooctane 99.9 % 35-147

Surrogate: 1-Chlorooctadecane 116 % 28-171

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Celey D. Keene

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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Legacy Trinity Oil Field</u>		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: <u>Todd Roberson</u>		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Address:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Phone #:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Project #:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Project Name:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Project Location:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Sampler Name:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
FOR LAB USE ONLY		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Lab I.D.		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Sample I.D.		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
H000006		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP1-0		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP1-2		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP1-4		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP1-6		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP2-0		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP2-2		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP2-4		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP2-6		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP3-0		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
SP3-2		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
DATE		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
TIME		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
B Tex		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
TPH		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Chlorides		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
REMARKS:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Relinquished By:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Date:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Time:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Received By:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Relinquished By:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Date:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Time:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Delivered By: (Circle One)		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Sampler - UPS - Bus - Other:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Sample Condition		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Cool		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Intact		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Yes		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
No		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Checked By:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Signature		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					

Appendix C

Photographs



Site Location



Site Prior to Remediation Viewing North, September 8, 2017



Site Prior to Remediation Viewing East, September 8, 2017



Site Prior to Remediation Viewing East, September 8, 2017



Site Prior to Remediation Viewing South, September 8, 2017



Site Prior to Remediation Viewing West, September 8, 2017