

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4957
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

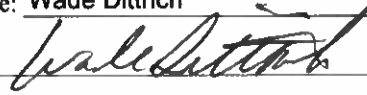
Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Wade Dittrich

Title: Environmental Coordinator

Signature: 

Date: 5/8/2019

email: Wade_Dittrich@oxy.com

Telephone: (575)390-2828

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal (Revised)



Company: OXY USA, Inc. **Address:** P.O. Box 4294, Houston, TX 77210 **Telephone #:** (575) 390-2828
Site Name: Red Tank 30-31 St Com 24Y **NMOCD Reference#:** 1RP-4957
Surface Owner: State of New Mexico **Mineral Owner:** State of New Mexico
Unit Letter: A **Section:** 30 **Township:** 22S **Range:** 33E **County:** Lea **GPS Coordinates:** 32.3695283N -103.6039297W
Date/Time of Release: 2/1/2018 **Type of Release:** ☒ **Crude Oil** ☐ **Produced Water**
Volume(s) Released: 45 bbls **Volume(s) Recovered:** 0 bbls

Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):

Benzene: 10 **BTEX:** 50 **GRO+DRO:** 1,000 **TPH:** ☐ **100** **Chloride:** ☐ **600**
☒ **2,500** ☐ **10,000**
☒ **20,000**

Background Information:

On February 1, 2018, OXY USA, Inc. (OXY), discovered a release at the Red Tank 30-31 St Com 24Y well site. A manway was not properly sealed during frac tank equalization, resulting in the release of approximately 45 barrels (bbls) of crude oil. The issue was corrected, and the tanks were returned to service.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office and the New Mexico State Land Office (NMSLO). The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On February 2, 2018, Trinity Oilfield Services & Rentals, LLC (Trinity) conducted an initial assessment of the release site. Due to ongoing fracking activity, the presence of numerous frac tanks on-site, and heavy traffic on/around the location, no delineation and/or remediation of the release could be performed safely.

At some point following the February 2018 site assessment, the size of the caliche pad was doubled to accommodate the ongoing fracking activities. A new tank battery was constructed on the north-central side of the caliche pad, in the general vicinity of the release. Additional piping, appurtenances, electrical lines, pumps, flares, etc., were also installed along the northern edge and elsewhere on the pad.

In February 2019, OXY informed Trinity that delineation and remediation of the release site could safely commence. On February 20, 2019, Trinity utilized a drone to capture updated aerial imagery of the location. Based on a review of the aerial imagery and observations made during a subsequent site visit conducted on March 1, 2019, it was determined that the spill area had been covered with up to 3 to 4 feet of caliche during the expansion of the pad. GPS data collected during the February 2018 site assessment was subsequently used to determine the approximate location of the spill.

On March 19, 2019, Trinity commenced delineation of the release. A backhoe was utilized to advance a series of six (6) delineation trenches (SP-1 through SP-6) to investigate the extent of impacted soil. The delineation trenches were advanced to total depths ranging from 3 feet (SP-4 through SP-6) to 4 feet (SP-1 through SP-3) below ground surface (bgs). Soil samples were collected from the floors and sidewalls of the trenches and field-screened utilizing a chloride test kit and olfactory/visual senses. Confirmation samples from each sample location were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results indicated delineation of chloride, BTEX, and TPH contamination had been achieved. However, additional delineation was required to determine the extent of Gas Range Organics (GRO) and Diesel Range Organics (DRO) contamination in the area represented by soil sample SP-2 N. Floor @ 4'.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal (Revised)



Summary of Field Activities (cont.):

On March 22, 2019, in an effort to confirm that the release site had indeed been successfully relocated via the February 2018 GPS data, delineation trenches SP-1 through SP-6 were re-entered, and additional soil samples were collected from the sidewalls of the trenches at 1.5 feet bgs. The soil samples were field-screened using a chloride test kit and olfactory/visual senses. Field screens indicated that the release had been successfully relocated, and confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations.

A delineation trench (SP-7) was also advanced to further investigate the horizontal and vertical extent of impacted soil to the northwest of the area represented by soil sample SP-2 N. Floor @ 4'. The trench was initially advanced to 1.5 feet bgs, and soil samples were collected from the floor and sidewalls and field-screened with a chloride test kit and olfactory/visual senses. Based on olfactory senses, the trench was advanced to 4 feet bgs, and an additional soil sample was collected from the floor and field-screened. Confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations.

Laboratory analytical results indicated delineation of chloride and TPH contamination had been achieved. However, additional delineation was required to determine the extent of BTEX, GRO, and DRO contamination in the area represented by soil sample SP-7 @ 4'.

On April 10 and April 11, 2019, a hand auger was utilized to conduct additional vertical delineation in the area represented by soil sample SP-2 N. Floor @ 4'. The auger hole was advanced in 6-inch to 1-foot intervals to a total depth of approximately 6.5 feet bgs. Soil samples were field-screened with olfactory/visual senses and/or a chloride test kit, and representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated delineation of chloride, GRO, DRO, TPH, and BTEX contamination had been achieved.

On April 17, 2019, a backhoe was utilized to conduct additional vertical delineation in the area represented by soil sample SP-7 @ 4'. The trench was advanced in 1-foot intervals to a total depth of approximately 8 feet bgs. Soil samples were field-screened with olfactory/visual senses and/or a chloride test kit, and representative confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated delineation of chloride, GRO, DRO, TPH, and BTEX contamination had been achieved.

Locations of the delineation trenches and auger hole are depicted in Figure 2, "Site Plan". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D. Chloride field test results are summarized in Table 2.

An "Environmental Site Summary & Spill Remediation Proposal" was submitted to the NMOCD in May of 2019. However, no response was ever received, and there is no record of the submittal in the NMOCD's online imaging system. This report has been updated in accordance with the guidelines listed in the document entitled "Procedures for Implementation of the Spill Rule (19.15.29 NMAC)", dated September 6, 2019.

Proposed Activities:

OXY proposes to conduct the following activities to progress the Red Tank 30-31 St Com 24Y release site to an NMOCD- and NMSLO-approved closure:

- No excavation will be conducted in the areas represented by delineation trenches SP-1, SP-3, SP-4, SP-5, and SP-6.
- The areas represented by soil samples SP-2 N. Floor @ 4' and SP-7 @ 4' will be excavated to total depths of approximately 5 feet bgs. Soil excavated from the current pad surface to approximately 2 feet bgs will be stockpiled on-site for reuse as backfill material. Soil excavated from approximately 2 to 5 feet bgs will be transferred to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.
- All excavated soil will be stockpiled on 6-mil plastic, pending final disposition.
- The total volume of impacted soil to be excavated is approximately 70 cubic yards.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal (Revised)



Proposed Activities (cont.):

- Representative 5-point composite soil samples will be collected from the floor and sidewalls of the excavation(s) and submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using the EPA analytical methods listed in the "Summary of Field Activities" above. Each composite sample will represent an area measuring no larger than 200 square feet.
- All open excavations will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and/or wildlife.
- Following remediation activities, the excavation(s) will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the surrounding topography.
- The aforementioned corrective actions will be completed within 45 days of receipt of approval of this proposal by the NMOCD and NMSLO. Upon completion of the proposed tasks, a "Remediation Summary & Closure Request" will be submitted to the NMOCD and NMSLO, documenting remediation activities and results of confirmation soil samples.

Enclosures:

Figure 1: Site Location Map

Figure 2: Site Plan

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

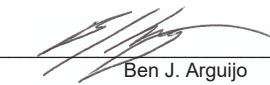
Table 2: Field Tests

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

Appendix C: Closure Criteria Justification

Appendix D: Laboratory Analytical Results

 4/7/2020
Ben J. Arguijo
Project Manager

Figures

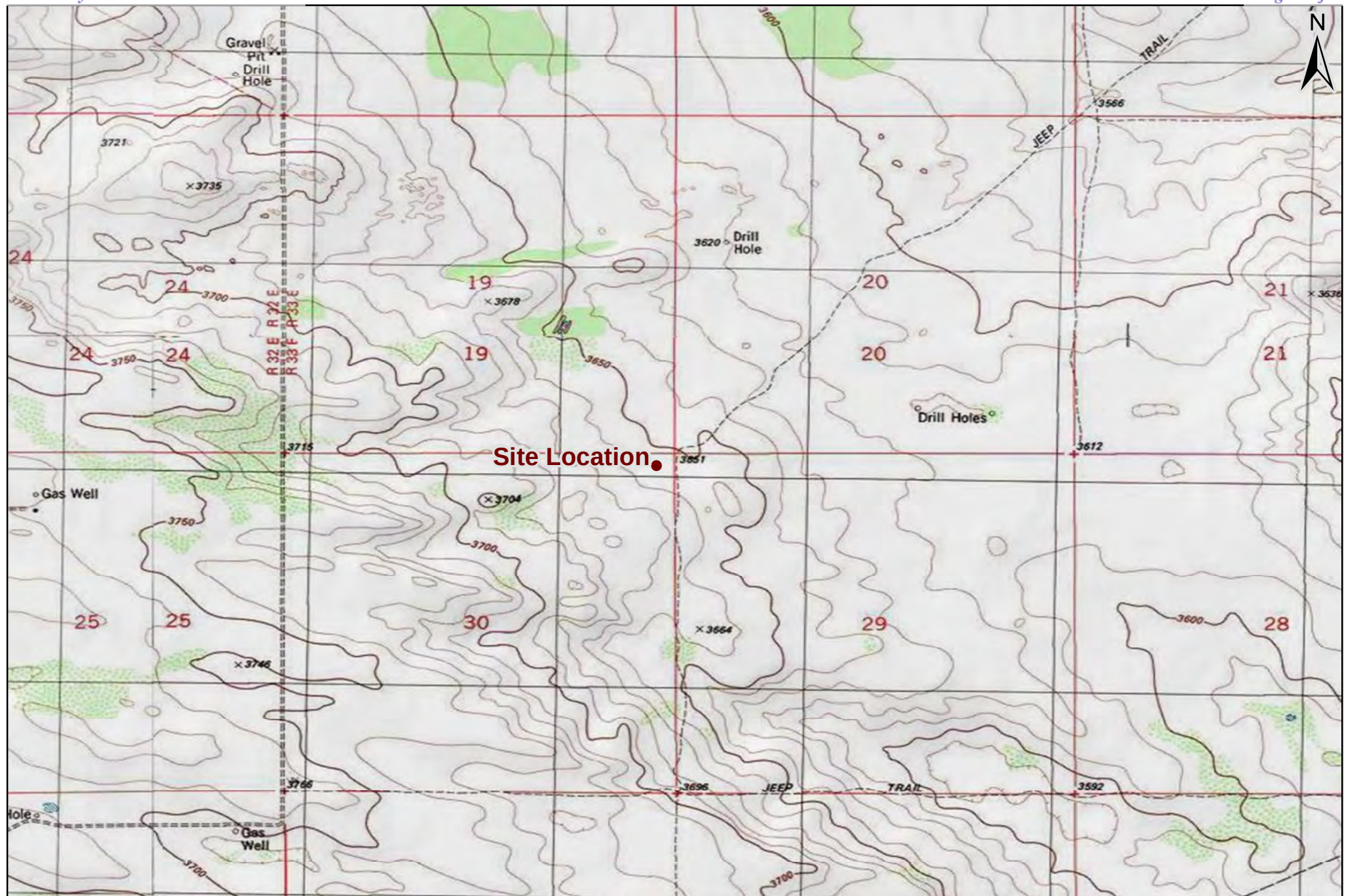
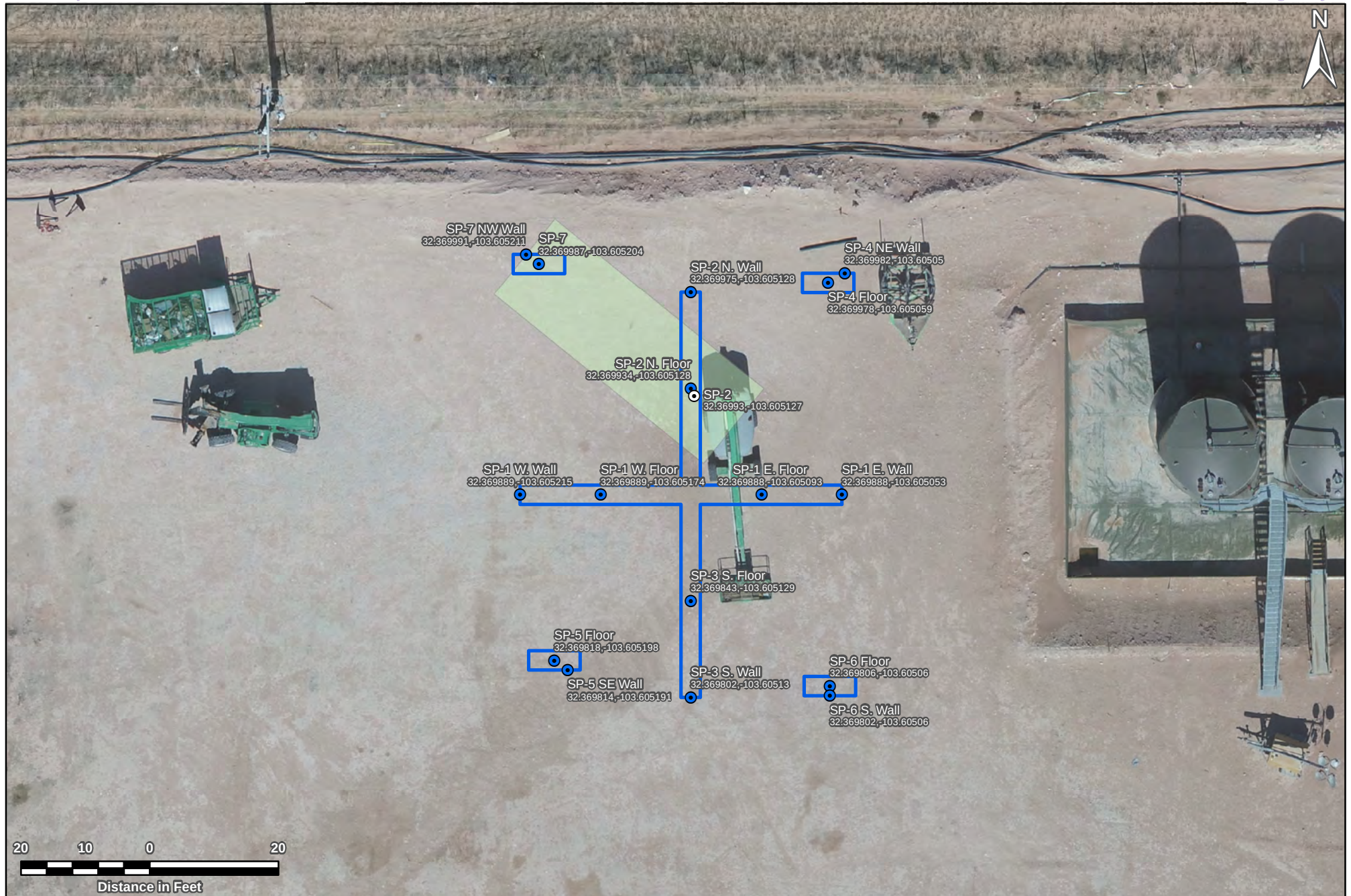


Figure 1
Site Location Map
 OXY USA, Inc.
 Red Tank 30-31 St Com 24Y
 Lea County, New Mexico
 NMOCD Reference #: 1RP-4957



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
April 26, 2019	Scale: 1" = 2,000'

**Legend**

- Proposed Excavation (5' bgs)
- Delineation Trench
- Delineation Sample
- Auger Hole

Figure 2
Site Plan
OXY USA, Inc.
Red Tank 30-31 St Com 24Y
Lea County, New Mexico
NMOCD Reference #: 1RP-4957



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
May 7, 2019	Scale: 1" = 20'

Tables

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
RED TANK 30-31 ST COM 24Y
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-4957



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SAMPLE TYPE	SOIL STATUS	EPA SW-846 Method 8021B							EPA SW-846 Method 8015M					EPA 300
					BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	M,P-XYLENES (mg/kg)	O-XYLENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMOCD Closure Limits					10	NE	NE	NE	NE	NE	50	NE	NE	1,000	NE	2,500	20,000
SP-1 E. Floor @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	49.3	49.3	<15.0	49.3	196
SP-1 W. Floor @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	64.2	64.2	<15.0	64.2	226
SP-1 E. Wall @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	<14.9	28.3
SP-1 W. Wall @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	7.42
SP-1 E. Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	0.0043	<0.0020	<0.0040	<0.0020	<0.0020	0.0043	<15.0	<15.0	<15.0	<15.0	<15.0	12.7
SP-1 W. Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	25.6
SP-2 N. Floor @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	0.0086	0.0369	0.190	0.140	0.330	0.376	99.1	1,400	1,499	465	1,960	263
SP-2 N. Wall @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	6.95
SP-2 N. Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	34.2
SP-2 @ 5'	5'	4/10/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	208
SP-2 @ 6.5'	6.5'	4/11/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	37.6
SP-3 S. Floor @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	258	258	24.4	282	202
SP-3 S. Wall @ 4'	4'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	<14.9	198
SP-3 S. Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	42.4
SP-4 Floor @ 3'	3'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	7.50
SP-4 NE Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	19.7
SP-5 Floor @ 3'	3'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	10.1
SP-5 SE Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	<14.9	27.7
SP-6 Floor @ 3'	3'	3/19/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	82.7
SP-6 S. Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	26.2
SP-7 NW Wall @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	21.0
SP-7 NW Wall @ 4'	4'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	<5.04
SP-7 @ 1.5'	1.5'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	26.2
SP-7 @ 4'	4'	3/22/2019	Grab	In-Situ	<0.0020	<0.0020	0.0140	0.157	0.147	0.304	0.318	68.8	1,290	1,359	402	1,760	37.5
SP-7 @ 5'	5'	4/17/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	21.0	21.0	<15.0	21.0	81.5
SP-7 @ 8'	8'	4/17/2019	Grab	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<15.0	27.2

NE = Not established

- = Not analyzed

Concentrations in **BOLD** exceed the NMOCD Closure Limit

TABLE 2
FIELD TESTS

OXY USA, INC.
RED TANK 30-31 ST COM 24Y
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-4957



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Closure Limit (mg/kg)				20,000
SP-1 E. Floor @ 4'	4'	3/19/2019	In-Situ	<128
SP-1 W. Floor @ 4'	4'	3/19/2019	In-Situ	<128
SP-1 E. Wall @ 4'	4'	3/19/2019	In-Situ	<128
SP-1 W. Wall @ 4'	4'	3/19/2019	In-Situ	<128
SP-1 E. Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-1 W. Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-2 N. Floor @ 4'	4'	3/19/2019	In-Situ	<128
SP-2 N. Wall @ 4'	4'	3/19/2019	In-Situ	<128
SP-2 N. Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-2 @ 5'	5'	4/10/2019	In-Situ	<128
SP-2 @ 6.5'	6.5'	4/11/2019	In-Situ	<128
SP-3 S. Floor @ 4'	4'	3/19/2019	In-Situ	<128
SP-3 S. Wall @ 4'	4'	3/19/2019	In-Situ	<128
SP-3 S. Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-4 Floor @ 3'	3'	3/19/2019	In-Situ	<128
SP-4 NE Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-5 Floor @ 3'	3'	3/19/2019	In-Situ	<128
SP-5 SE Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-6 Floor @ 3'	3'	3/19/2019	In-Situ	<128
SP-6 S. Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-7 NW Wall @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-7 NW Wall @ 4'	4'	3/22/2019	In-Situ	<128
SP-7 @ 1.5'	1.5'	3/22/2019	In-Situ	<128
SP-7 @ 4'	4'	3/22/2019	In-Situ	<128
SP-7 @ 5'	5'	4/17/2019	In-Situ	<128
SP-7 @ 8'	8'	4/17/2019	In-Situ	<128

Appendices

Appendix A

Release Notification & Corrective Action (Form C-141)

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Received by OGD: 4/7/2020 2:58:00 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

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	OXY USA INC	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	RED TANK 30 31 ST COM 24Y	Facility Type	WELL
Surface Owner	STATE	Mineral Owner	STATE
		API No.	30-025-44161

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	30	22S	33E	200	NORTH	270	EAST	LEA

Latitude 32.3695283 Longitude -103.6039297 NAD83

NATURE OF RELEASE

Type of Release	OIL	Volume of Release	45 bbls	Volume Recovered	0 bbls
Source of Release	Equalizing frac tanks manway was not sealed.	Date and Hour of Occurrence	2-1-2018	Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	OLIVIA YU-NMOCD; KENDA MONTOYA-SLO		
By Whom?	WADE DITTRICH	Date and Hour	2-2-2018 @ 9:51 AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					

RECEIVED
By Olivia Yu at 1:54 pm, Feb 06, 2018

Describe Cause of Problem and Remedial Action Taken.*

Leak was caused when equalizing the frac tanks and a manway was not sealed. The issue has been corrected and equipment has been returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is 30x20ft (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and SLO.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: 		
Title: ENVIRONMENTAL SPECIALIST	Approval Date: 2/6/2018	Expiration Date:	
E-mail Address: WADE.DITTRICH@OXY.COM	Conditions of Approval: see attached directive	Attached ☒	
Date: 2-6-18 Phone: 575-390-2828			

Attach Additional Sheets If Necessary

1RP-4957 nOY1803750274 pOY1803750591

Appendix B

Photographs

OXY USA, Inc. – Red Tank 30-31 State Com 24Y
Unit Letter “A” (NE/NE), Section 30, Township 22S, Range 33E



Release (Looking East-Southeast)



Release (Looking Southeast)

OXY USA, Inc. – Red Tank 30-31 State Com 24Y
Unit Letter “A” (NE/NE), Section 30, Township 22S, Range 33E



Release (Looking West-Southwest)



Release (Looking Northwest)

OXY USA, Inc. – Red Tank 30-31 State Com 24Y
Unit Letter “A” (NE/NE), Section 30, Township 22S, Range 33E



Release (Looking North)



Release (Looking West)

Appendix C

Closure Criteria Justification

**TABLE 3
CLOSURE CRITERIA JUSTIFICATION**

**OXY USA, INC.
RED TANK 30-31 ST COM 24Y
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: 1RP-4957**



Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	465
Horizontal distance (ft) from all water sources within 0.5 miles?	N/A
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No
Within 1000' of any fresh water well or spring?	No
Surface Water	
Horizontal distance (ft) to nearest significant watercourse?	>1,000
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No
Within 200' of any lakebed, sinkhole or playa lake?	No
Human-Occupied, Environmental & Other Areas	
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No
Within 300' of a wetland?	No
Within the area overlying a subsurface mine?	No
Within an unstable area?	No
Within a 100-year floodplain?	No

Closure Criteria (mg/kg)*				
Benzene	BTEX	GRO + DRO	TPH	Chloride
10	50	1,000	2,500	20,000

*Numerical limits or natural background level, whichever is greater

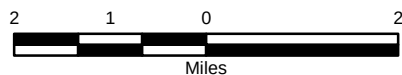
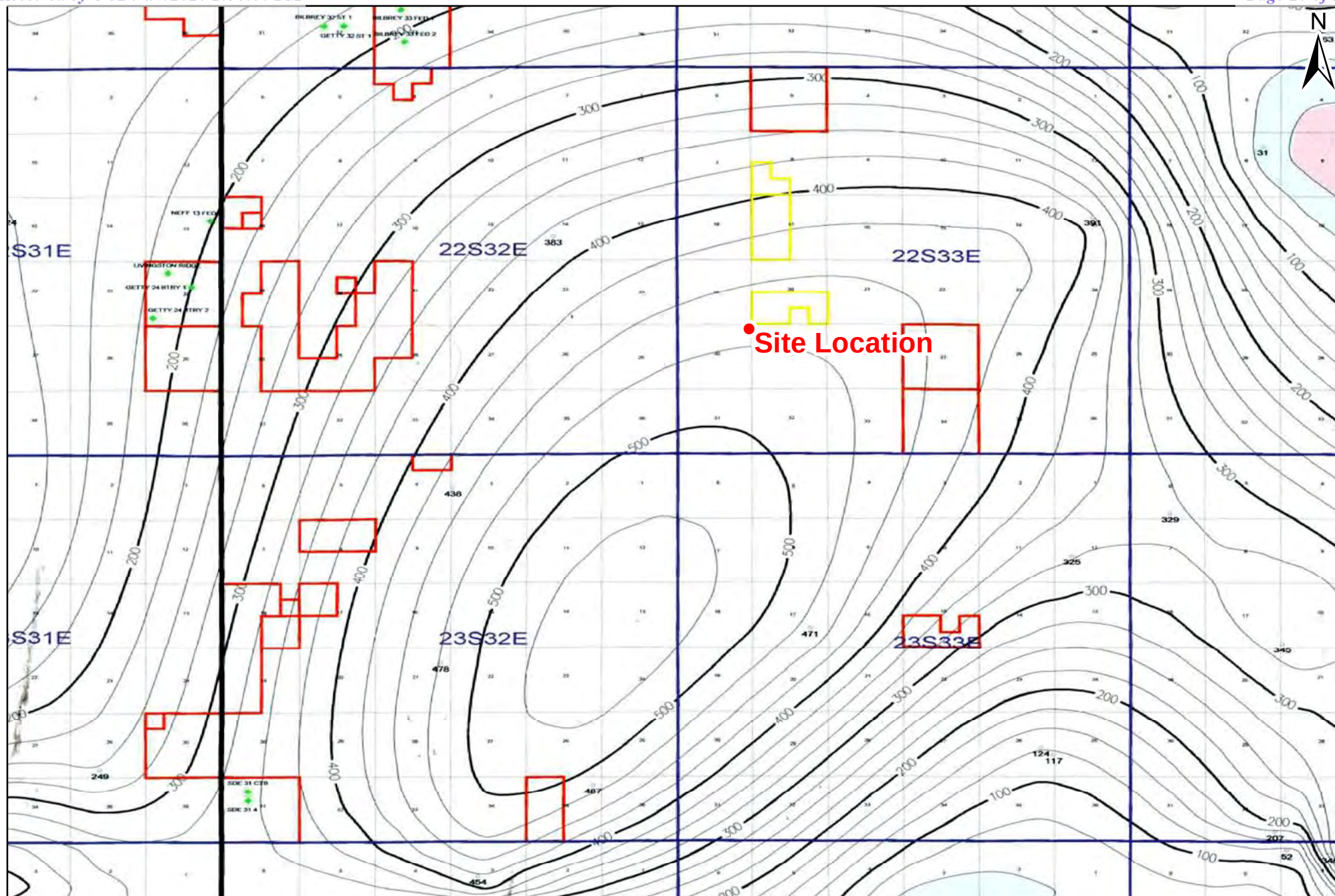
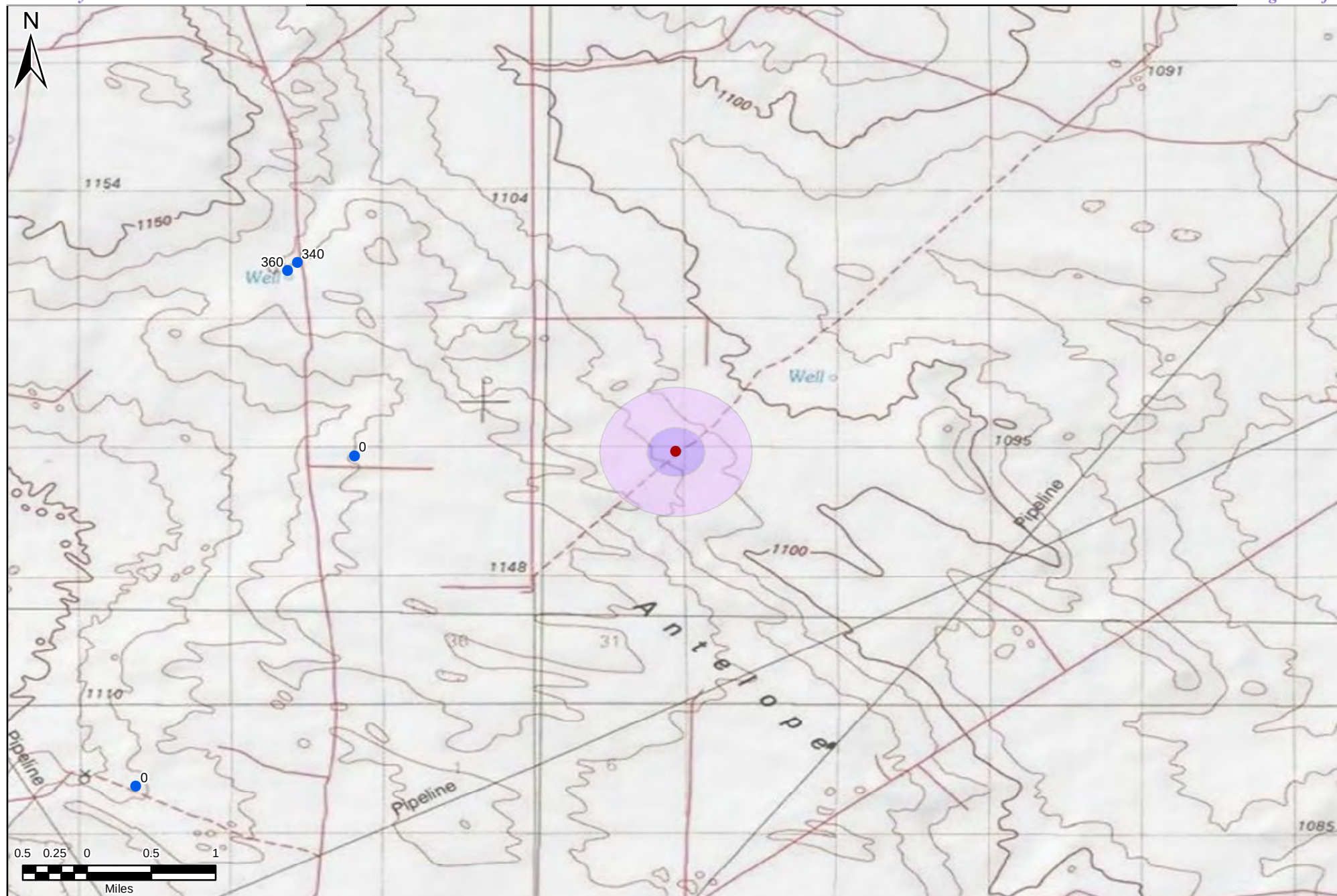


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Red Tank 30-31 St Com 24Y
Lea County, New Mexico
NMOCD Reference #: 1RP-4957



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241

Drawn By: BJA	Checked By: JEH
April 26, 2019	Scale: 1" = 2mi

**Legend**

- | | |
|--|---|
|  1,000-ft Radius |  Red Tank 30-31 St Com 24Y |
|  0.5-mi Radius |  NMOSE Depth to Water |

Figure 4
Vicinity & Wellhead Protection Area Map
OXY USA, Inc.
Red Tank 30-31 St Com 24Y
Lea County, New Mexico
NMOCD Reference #: 1RP-4957



Trinity Oilfield Services & Rentals, LLC
 P.O. Box 2587
 Hobbs, NM 88241

Drawn By: BJA

Checked By: JEH

April 26, 2019

Scale: 1" = 1mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 631340.25

Northing (Y): 3582253

Radius: 4023.4
(2.5 miles)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 St. Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Mar-25-19 07:35 am

Report Date: 04-APR-19

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	618715-001	618715-002	618715-003	618715-004	618715-005	618715-006
	<i>Field Id:</i>	SP-1 E. Wall @ 4'	SP-1 E. Floor @ 4'	SP-1 W. Wall @ 4'	SP-1 W. Floor @ 4'	SP-2 N. Wall @ 4'	SP-2 N. Floor @ 4'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Mar-19-19 10:57	Mar-19-19 10:54	Mar-19-19 11:08	Mar-19-19 11:06	Mar-19-19 11:41	Mar-19-19 13:39
BTEX by EPA 8021B	<i>Extracted:</i>	Mar-29-19 16:00	Mar-29-19 16:00	Mar-28-19 17:00	Mar-28-19 17:00	Mar-28-19 17:00	Mar-28-19 17:00
	<i>Analyzed:</i>	Mar-29-19 22:12	Mar-29-19 22:31	Mar-29-19 08:04	Mar-29-19 08:23	Mar-29-19 08:42	Mar-29-19 09:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	0.00861 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	0.0369 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00397 0.00397	<0.00398 0.00398	<0.00401 0.00401	0.190 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	0.140 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	0.330 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	0.376 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Mar-25-19 16:30	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40
	<i>Analyzed:</i>	Mar-26-19 02:03	Mar-26-19 10:28	Mar-26-19 10:48	Mar-26-19 10:55	Mar-26-19 11:01	Mar-26-19 11:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		28.3 5.00	196 4.99	7.42 4.96	226 5.03	6.95 4.95	263 5.02
TPH By SW8015 Mod	<i>Extracted:</i>	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00
	<i>Analyzed:</i>	Mar-28-19 11:36	Mar-28-19 11:55	Mar-28-19 12:14	Mar-28-19 13:12	Mar-28-19 13:31	Mar-28-19 13:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	99.1 15.0
Diesel Range Organics (DRO)		<14.9 14.9	49.3 15.0	<15.0 15.0	64.2 15.0	<15.0 15.0	1400 15.0
Motor Oil Range Hydrocarbons (MRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	465 15.0
Total TPH		<14.9 14.9	49.3 15.0	<15.0 15.0	64.2 15.0	<15.0 15.0	1960 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Certificate of Analysis Summary 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 St. Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Mar-25-19 07:35 am

Report Date: 04-APR-19

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	618715-007	618715-008	618715-009	618715-010	618715-011	
	Field Id:	SP-3 S. Wall @ 4'	SP-3 S. Floor @ 4'	SP-4 Floor @ 3'	SP-5 Floor @ 3'	SP-6 Floor @ 3'	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Mar-19-19 12:40	Mar-19-19 12:39	Mar-19-19 13:14	Mar-19-19 13:17	Mar-19-19 13:20	
BTEX by EPA 8021B	Extracted:	Mar-28-19 17:00	Mar-28-19 17:00	Mar-28-19 17:00	Mar-28-19 17:00	Mar-28-19 17:00	
	Analyzed:	Mar-29-19 22:15	Mar-29-19 22:34	Mar-29-19 22:53	Mar-29-19 23:12	Mar-29-19 23:31	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	
Chloride by EPA 300	Extracted:	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	
	Analyzed:	Mar-26-19 11:28	Mar-26-19 11:35	Mar-26-19 11:41	Mar-26-19 11:48	Mar-26-19 11:55	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		198 4.99	202 5.04	7.50 4.99	10.1 4.95	82.7 4.99	
TPH By SW8015 Mod	Extracted:	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	Mar-28-19 07:00	
	Analyzed:	Mar-28-19 14:11	Mar-28-19 14:30	Mar-28-19 14:51	Mar-28-19 15:11	Mar-28-19 15:31	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Diesel Range Organics (DRO)		<14.9 14.9	258 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Motor Oil Range Hydrocarbons (MRO)		<14.9 14.9	24.4 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Total TPH		<14.9 14.9	282 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 618715

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 30-31 St. Com 24Y

04-APR-19

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)



04-APR-19

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **618715**
Red Tank 30-31 St. Com 24Y
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 618715. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 618715 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 618715****Trinity Oilfield Services & Rentals, LLC, Hobbs, NM**

Red Tank 30-31 St. Com 24Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 E. Wall @ 4'	S	03-19-19 10:57		618715-001
SP-1 E. Floor @ 4'	S	03-19-19 10:54		618715-002
SP-1 W. Wall @ 4'	S	03-19-19 11:08		618715-003
SP-1 W. Floor @ 4'	S	03-19-19 11:06		618715-004
SP-2 N. Wall @ 4'	S	03-19-19 11:41		618715-005
SP-2 N. Floor @ 4'	S	03-19-19 13:39		618715-006
SP-3 S. Wall @ 4'	S	03-19-19 12:40		618715-007
SP-3 S. Floor @ 4'	S	03-19-19 12:39		618715-008
SP-4 Floor @ 3'	S	03-19-19 13:14		618715-009
SP-5 Floor @ 3'	S	03-19-19 13:17		618715-010
SP-6 Floor @ 3'	S	03-19-19 13:20		618715-011



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: Red Tank 30-31 St. Com 24Y

Project ID:
Work Order Number(s): 618715

Report Date: 04-APR-19
Date Received: 03/25/2019

Sample receipt non conformances and comments:

4/4/2019 1.001 Revised to correct Project ID per Ben Arguijo (email). HT

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3083870 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected;

Samples affected are: 618714-014 S, 618714-014 SD, 618715-005, 618715-011, 618715-007, 618715-008, 618715-009, 618715-010, 618715-004, 618715-003, 618715-006.

Batch: LBA-3084057 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 E. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-001

Date Collected: 03.19.19 10.57

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.25.19 16.30

Basis: Wet Weight

Seq Number: 3083327

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.3	5.00	mg/kg	03.26.19 02.03		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.28.19 11.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.28.19 11.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.28.19 11.36	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.28.19 11.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	03.28.19 11.36		
o-Terphenyl	84-15-1	94	%	70-135	03.28.19 11.36		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 E. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-001

Date Collected: 03.19.19 10.57

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.29.19 22.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.29.19 22.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	03.29.19 22.12		
1,4-Difluorobenzene	540-36-3	86	%	70-130	03.29.19 22.12		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 E. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-002

Date Collected: 03.19.19 10.54

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	4.99	mg/kg	03.26.19 10.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 11.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	49.3	15.0	mg/kg	03.28.19 11.55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 11.55	U	1
Total TPH	PHC635	49.3	15.0	mg/kg	03.28.19 11.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	03.28.19 11.55	
o-Terphenyl	84-15-1	92	%	70-135	03.28.19 11.55	



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 E. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-002

Date Collected: 03.19.19 10.54

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.29.19 22.31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.29.19 22.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.29.19 22.31		
4-Bromofluorobenzene	460-00-4	108	%	70-130	03.29.19 22.31		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 W. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-003

Date Collected: 03.19.19 11.08

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.42	4.96	mg/kg	03.26.19 10.48		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 12.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 12.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 12.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 12.14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	03.28.19 12.14		
o-Terphenyl	84-15-1	99	%	70-135	03.28.19 12.14		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 W. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-003

Date Collected: 03.19.19 11.08

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.29.19 08.04	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.29.19 08.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	152	%	70-130	03.29.19 08.04	**	
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.29.19 08.04		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 W. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-004

Date Collected: 03.19.19 11.06

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	5.03	mg/kg	03.26.19 10.55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 13.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	64.2	15.0	mg/kg	03.28.19 13.12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 13.12	U	1
Total TPH	PHC635	64.2	15.0	mg/kg	03.28.19 13.12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	03.28.19 13.12	
o-Terphenyl	84-15-1	91	%	70-135	03.28.19 13.12	



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-1 W. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-004

Date Collected: 03.19.19 11.06

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.29.19 08.23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.29.19 08.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	149	%	70-130	03.29.19 08.23	**	
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.29.19 08.23		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 N. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-005

Date Collected: 03.19.19 11.41

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.95	4.95	mg/kg	03.26.19 11.01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 13.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 13.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 13.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 13.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	03.28.19 13.31		
o-Terphenyl	84-15-1	84	%	70-135	03.28.19 13.31		



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 N. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-005

Date Collected: 03.19.19 11.41

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.29.19 08.42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.29.19 08.42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	147	%	70-130	03.29.19 08.42	**	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.29.19 08.42		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 N. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-006

Date Collected: 03.19.19 13.39

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	263	5.02	mg/kg	03.26.19 11.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	99.1	15.0	mg/kg	03.28.19 13.51		1
Diesel Range Organics (DRO)	C10C28DRO	1400	15.0	mg/kg	03.28.19 13.51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	465	15.0	mg/kg	03.28.19 13.51		1
Total TPH	PHC635	1960	15.0	mg/kg	03.28.19 13.51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	03.28.19 13.51	
o-Terphenyl	84-15-1	128	%	70-135	03.28.19 13.51	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 N. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-006

Date Collected: 03.19.19 13.39

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.29.19 09.01	U	1
Toluene	108-88-3	0.00861	0.00200	mg/kg	03.29.19 09.01		1
Ethylbenzene	100-41-4	0.0369	0.00200	mg/kg	03.29.19 09.01		1
m,p-Xylenes	179601-23-1	0.190	0.00399	mg/kg	03.29.19 09.01		1
o-Xylene	95-47-6	0.140	0.00200	mg/kg	03.29.19 09.01		1
Total Xylenes	1330-20-7	0.330	0.00200	mg/kg	03.29.19 09.01		1
Total BTEX		0.376	0.00200	mg/kg	03.29.19 09.01		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	03.29.19 09.01		
4-Bromofluorobenzene	460-00-4	229	%	70-130	03.29.19 09.01	**	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-3 S. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-007

Date Collected: 03.19.19 12.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	198	4.99	mg/kg	03.26.19 11.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.28.19 14.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.28.19 14.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.28.19 14.11	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.28.19 14.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-135	03.28.19 14.11		
o-Terphenyl	84-15-1	96	%	70-135	03.28.19 14.11		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-3 S. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-007

Date Collected: 03.19.19 12.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.29.19 22.15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.29.19 22.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	133	%	70-130	03.29.19 22.15	**	
1,4-Difluorobenzene	540-36-3	94	%	70-130	03.29.19 22.15		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-3 S. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-008

Date Collected: 03.19.19 12.39

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	202	5.04	mg/kg	03.26.19 11.35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 14.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	258	15.0	mg/kg	03.28.19 14.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	24.4	15.0	mg/kg	03.28.19 14.30		1
Total TPH	PHC635	282	15.0	mg/kg	03.28.19 14.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	03.28.19 14.30	
o-Terphenyl	84-15-1	97	%	70-135	03.28.19 14.30	



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-3 S. Floor @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-008

Date Collected: 03.19.19 12.39

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.29.19 22.34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.29.19 22.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	03.29.19 22.34		
4-Bromofluorobenzene	460-00-4	132	%	70-130	03.29.19 22.34	**	



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-4 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-009

Date Collected: 03.19.19 13.14

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.50	4.99	mg/kg	03.26.19 11.41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 14.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 14.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 14.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 14.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	03.28.19 14.51	
o-Terphenyl	84-15-1	87	%	70-135	03.28.19 14.51	



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-4 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-009

Date Collected: 03.19.19 13.14

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.29.19 22.53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.29.19 22.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.29.19 22.53		
4-Bromofluorobenzene	460-00-4	146	%	70-130	03.29.19 22.53	**	



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-5 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-010

Date Collected: 03.19.19 13.17

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.1	4.95	mg/kg	03.26.19 11.48		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 15.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 15.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 15.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 15.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	03.28.19 15.11		
o-Terphenyl	84-15-1	83	%	70-135	03.28.19 15.11		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-5 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-010

Date Collected: 03.19.19 13.17

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.29.19 23.12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.29.19 23.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	148	%	70-130	03.29.19 23.12	**	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.29.19 23.12		



Certificate of Analytical Results 618715



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-6 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-011

Date Collected: 03.19.19 13.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.7	4.99	mg/kg	03.26.19 11.55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 15.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 15.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	03.28.19 15.31	
o-Terphenyl	84-15-1	95	%	70-135	03.28.19 15.31	



Certificate of Analytical Results 618715

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-6 Floor @ 3'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618715-011

Date Collected: 03.19.19 13.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 03.28.19 17.00

Basis: Wet Weight

Seq Number: 3083870

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.29.19 23.31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.29.19 23.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	150	%	70-130	03.29.19 23.31	**	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.29.19 23.31		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: Chloride by EPA 300

Seq Number: 3083327

MB Sample Id: 7674284-1-BLK

Matrix: Solid

LCS Sample Id: 7674284-1-BKS

Prep Method: E300P

Date Prep: 03.25.19

LCSD Sample Id: 7674284-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	248	99	90-110	0	20	mg/kg	03.25.19 23:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

MB Sample Id: 7674320-1-BLK

Matrix: Solid

LCS Sample Id: 7674320-1-BKS

Prep Method: E300P

Date Prep: 03.26.19

LCSD Sample Id: 7674320-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	254	102	252	101	90-110	1	20	mg/kg	03.26.19 10:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3083327

Parent Sample Id: 618713-034

Matrix: Soil

MS Sample Id: 618713-034 S

Prep Method: E300P

Date Prep: 03.25.19

MSD Sample Id: 618713-034 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.19	250	248	97	249	97	90-110	0	20	mg/kg	03.26.19 11:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3083327

Parent Sample Id: 618714-009

Matrix: Soil

MS Sample Id: 618714-009 S

Prep Method: E300P

Date Prep: 03.25.19

MSD Sample Id: 618714-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	223	250	449	90	453	92	90-110	1	20	mg/kg	03.26.19 11:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

Parent Sample Id: 618715-002

Matrix: Soil

MS Sample Id: 618715-002 S

Prep Method: E300P

Date Prep: 03.26.19

MSD Sample Id: 618715-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	196	250	441	98	443	99	90-110	0	20	mg/kg	03.26.19 10:35	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

Parent Sample Id: 618716-001

Matrix: Soil

MS Sample Id: 618716-001 S

Prep Method: E300P

Date Prep: 03.26.19

MSD Sample Id: 618716-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.7	250	315	121	340	131	90-110	8	20	mg/kg	03.26.19 12:08	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083750

MB Sample Id: 7674566-1-BLK

Matrix: Solid

LCS Sample Id: 7674566-1-BKS

Prep Method: TX1005P

Date Prep: 03.28.19

LCSD Sample Id: 7674566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	939	94	945	95	70-135	1	20	mg/kg	03.28.19 08:06	
Diesel Range Organics (DRO)	<8.13	1000	958	96	981	98	70-135	2	20	mg/kg	03.28.19 08:06	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		127		126		70-135	%	03.28.19 08:06
o-Terphenyl	97		106		120		70-135	%	03.28.19 08:06

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083750

Parent Sample Id: 619079-002

Matrix: Soil

MS Sample Id: 619079-002 S

Prep Method: TX1005P

Date Prep: 03.28.19

MSD Sample Id: 619079-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	999	1010	101	1020	102	70-135	1	20	mg/kg	03.28.19 09:22	
Diesel Range Organics (DRO)	<8.12	999	1030	103	1040	104	70-135	1	20	mg/kg	03.28.19 09:22	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		123		70-135	%	03.28.19 09:22
o-Terphenyl	119		113		70-135	%	03.28.19 09:22

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: BTEX by EPA 8021B

Seq Number: 3083870

MB Sample Id: 7674629-1-BLK

Matrix: Solid

LCS Sample Id: 7674629-1-BKS

Prep Method: SW5030B

Date Prep: 03.28.19

LCSD Sample Id: 7674629-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.102	102	0.105	105	70-130	3	35	mg/kg	03.29.19 04:17	
Toluene	<0.000457	0.100	0.100	100	0.103	103	70-130	3	35	mg/kg	03.29.19 04:17	
Ethylbenzene	<0.000567	0.100	0.107	107	0.110	110	70-130	3	35	mg/kg	03.29.19 04:17	
m,p-Xylenes	<0.00102	0.201	0.206	102	0.212	106	70-130	3	35	mg/kg	03.29.19 04:17	
o-Xylene	<0.000346	0.100	0.107	107	0.110	110	70-130	3	35	mg/kg	03.29.19 04:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		99		99		70-130	%	03.29.19 04:17
4-Bromofluorobenzene	122		130		128		70-130	%	03.29.19 04:17

Analytical Method: BTEX by EPA 8021B

Seq Number: 3084057

MB Sample Id: 7674756-1-BLK

Matrix: Solid

LCS Sample Id: 7674756-1-BKS

Prep Method: SW5030B

Date Prep: 03.29.19

LCSD Sample Id: 7674756-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.102	103	0.101	101	70-130	1	35	mg/kg	03.29.19 19:23	
Toluene	<0.000453	0.0994	0.105	106	0.104	104	70-130	1	35	mg/kg	03.29.19 19:23	
Ethylbenzene	<0.000561	0.0994	0.0998	100	0.0991	99	70-130	1	35	mg/kg	03.29.19 19:23	
m,p-Xylenes	<0.00101	0.199	0.202	102	0.202	101	70-130	0	35	mg/kg	03.29.19 19:23	
o-Xylene	<0.000342	0.0994	0.102	103	0.103	103	70-130	1	35	mg/kg	03.29.19 19:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		98		101		70-130	%	03.29.19 19:23
4-Bromofluorobenzene	86		94		107		70-130	%	03.29.19 19:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3083870

Parent Sample Id: 618714-014

Matrix: Soil

MS Sample Id: 618714-014 S

Prep Method: SW5030B

Date Prep: 03.28.19

MSD Sample Id: 618714-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0919	92	0.0976	98	70-130	6	35	mg/kg	03.29.19 04:55	
Toluene	<0.000453	0.0994	0.0907	91	0.0946	95	70-130	4	35	mg/kg	03.29.19 04:55	
Ethylbenzene	<0.000561	0.0994	0.0967	97	0.0999	100	70-130	3	35	mg/kg	03.29.19 04:55	
m,p-Xylenes	<0.00101	0.199	0.189	95	0.193	97	70-130	2	35	mg/kg	03.29.19 04:55	
o-Xylene	<0.000342	0.0994	0.0992	100	0.101	101	70-130	2	35	mg/kg	03.29.19 04:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	03.29.19 04:55
4-Bromofluorobenzene	144	**	144	**	70-130	%	03.29.19 04:55

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: BTEX by EPA 8021B

Seq Number: 3084057

Parent Sample Id: 618714-015

Matrix: Soil

MS Sample Id: 618714-015 S

Prep Method: SW5030B

Date Prep: 03.29.19

MSD Sample Id: 618714-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0799	80	0.0886	89	70-130	10	35	mg/kg	03.29.19 20:01	
Toluene	<0.000454	0.0996	0.0809	81	0.0906	91	70-130	11	35	mg/kg	03.29.19 20:01	
Ethylbenzene	<0.000563	0.0996	0.0726	73	0.0836	84	70-130	14	35	mg/kg	03.29.19 20:01	
m,p-Xylenes	<0.00101	0.199	0.146	73	0.169	85	70-130	15	35	mg/kg	03.29.19 20:01	
o-Xylene	<0.000343	0.0996	0.0745	75	0.0863	87	70-130	15	35	mg/kg	03.29.19 20:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		70-130	%	03.29.19 20:01
4-Bromofluorobenzene	107		106		70-130	%	03.29.19 20:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

CHAIN OF CUSTODY RECORD

Page 1 of 2

LAB W.O # :

Field billable Hrs :

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

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;roool-c
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* Container Type Codes

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
CG	Plastic Clear		

PC Plastic Clear
Other

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____

** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA
C. H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O.

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC						Phone: (575)390-7208		TAT Work Days = D Need results by: _____ Time: _____										PC Plastic Clear Other _____			
Address: P.O. Box 2587						Fax:		Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____										Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____			
City: Hobbs				State: NM		Zip: 88241		ANALYSES REQUESTED										** Preservative Type Codes			
PM/Attn: Ben J. Arguijo				Email: wade.ditrich@oxy.com & ben@trinityoilfieldservices.com		Cont Type * VC		GC	GC	GC							A. None E. HCL I. Ice B. HNO ₃ F. MeOH J. MCAA C. H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L. Asbc Acid&NaOH O. _____				
Project ID: Red Tank 31 St. Com 24Y				PO#:		Pres Type**		I	I	I											
Invoice To: Oxy - Wade Dittrich (575)390-2828 Charge Codes: OP57182239 1214877 01040502				Quote #:		Example Volatiles by 8260		TPH 8015M	BTEX	Chloride							Hold Sample Run PAH (CALL) on Highest TPH Only if				
Sampler Name: John Klepper				Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A																	
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code *	Field Filtered	Integrity	OK (Y/N)	Total # of containers	# Cont	Lab Only:									REMARKS		
1	SP-1 E. Wall @ 4'	3/19/19	1057	S				1		X	X	X									
2	SP-1 E. Floor @ 4'	3/19/19	1054	S				1		X	X	X									
3	SP-1 W. Wall @ 4'	3/19/19	1108	S				1		X	X	X									
4	SP-1 W. Floor @ 4'	3/19/19	1106	S				1		X	X	X									
5	SP-2 N. Wall @ 4'	3/19/19	1141	S				1		X	X	X									
6	SP-2 N. Floor @ 4'	3/19/19	1339	S				1		X	X	X									
7	SP-3 S. Wall @ 4'	3/19/19	1240	S				1		X	X	X									
8	SP-3 S. Floor @ 4'	3/19/19	1239	S				1		X	X	X									
9	SP-4 Floor @ 3'	3/19/19	1314	S				1		X	X	X									
0	SP-5 Floor @ 3'	3/19/19	1317	S				1		X	X	X									
Reg. Program / Clean-up Std		STATE for Carts & Regs			QA/QC Level & Certification				EDDs			COC & Labels		Coolers Temp °C		Lab Use Only		YES NO N/A			
CTLs TRRP DW NPDES LPST DryCln Other:		FL TX GA NC SC NJ PA OK LA AL NM Other:			1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:				ADAPT SEDD ERPIMS XLS Other:			Match Incomplete Absent Unclear		1 2 7 2 3		Non-Conformances found? Samples intact upon arrival?		_____			
Relinquished by		Affiliation			Date		Time		Received by		Affiliation		Date		Time		Received on Wet Ice?		_____		
John Klepper		Trinity			03-20-19		4:28		Brittany Cox		MS		3/21/19		4:28		Labeled with proper preservatives?		_____		
Brittany Cox		MS			3/22/19		4:30		Paul		Kneo		3/23/19		0735		Received within holding time?		_____		
																	Custody seals intact?		_____		
																	VOCs rec'd w/o headspace?		_____		
																	Proper containers used?		_____		
																	pH verified-acceptable, excl VOCs?		_____		
																	Received on time to meet HTTs?		_____		

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

C.O.C. Serial #

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009

Revision Date: Nov 12, 2009

Page 58 of 127
Received by OGD: 4/7/2020 2:58:00 PM



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
:rool-c
Environmental Asbestos Radiochemistry

Page 2 of 2
LAB W.O #: 618715
Field billable Hrs :

* Container Type Codes			
VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
PC	Plastic Clear		
Other _____			
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____			

Company: Trinity Oilfield Services & Rentals, LLC	Phone: (575)390-7208
Address: P.O. Box 2587	Fax:
City: Hobbs	State: NM Zip: 88241
PM/Attn: Ben J. Arguijo	Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: Red Tank 31 St. Com 24Y	PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:
Charge Codes: OP57182239 1214877 01040502	
Sampler Name: John Klepper	Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

TAT Work Days = D Need results by: _____ Time: _____
Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____

ANALYSES REQUESTED											
Cont Type VC	GC	GC	GC								
Pres Type**	I	I	I								
Example Volatiles by 8260	TPH 8015M	BTEX	Chloride								
# Cont	Lab Only:										
1	X	X	X								
2											
3											
4											
5											
6											
7											
8											
9											
0											

** Preservative Type Codes			
A.	None	E.	HCL
B.	HNO ₃	F.	MeOH
C.	H ₂ SO ₄	G.	Na ₂ S ₂ O ₃
D.	NaOH	H.	NaHSO ₄
		I.	Ice
		J.	MCAA
		K.	ZnAc&NaOH
		L.	Asbc Acid&NaOH
			O.

^ Matrix Type Codes			
GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OV	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		
Other _____			

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers
1	SP-6 Floor @ 3'	3/19/19	1320	S			1
2							
3							
4							
5							
6							
7							
8							
9							
0							

REMARKS

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	YES NO N/A
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1 2.2 3	Non-Conformances found? Samples intact upon arrival?	_____ _____
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 John Klepper	Trinity	4:28	03-20-19	Brittany Cox	MS	3/21/19	4:30
2 Brittany Cox	MSO	4:30					
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330 C.O.C. Serial #
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099



Prelogin/Nonconformance Report- Sample Log-In

Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 03/25/2019 07:35:00 AM

Work Order #: 618715

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 03/25/2019

Checklist reviewed by:

Holly Taylor

Date: 03/26/2019



Certificate of Analysis Summary 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 ST. Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Mar-25-19 07:35 am

Report Date: 01-APR-19

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	618716-001	618716-002	618716-003	618716-004	618716-005	618716-006
	Field Id:	SP-1 E. Wall @ 1.5'	SP-1 W. Wall @ 1.5'	SP-2 N. Wall @ 1.5'	SP-3 S. Wall @ 1.5'	SP-4 NE. Wall @ 1.5'	SP-5 SE. Wall @ 1.5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Mar-22-19 09:25	Mar-22-19 09:27	Mar-22-19 09:31	Mar-22-19 09:30	Mar-22-19 09:36	Mar-22-19 09:47
BTEX by EPA 8021B	Extracted:	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00
	Analyzed:	Mar-29-19 22:50	Mar-29-19 23:09	Mar-29-19 23:28	Mar-29-19 23:47	Mar-30-19 00:06	Mar-30-19 01:20
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Toluene		0.00428 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00403 0.00403	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		0.00428 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198
Chloride by EPA 300	Extracted:	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40
	Analyzed:	Mar-26-19 12:01	Mar-26-19 12:22	Mar-26-19 12:28	Mar-26-19 12:48	Mar-26-19 12:55	Mar-26-19 13:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.7 4.99	25.6 4.99	34.2 4.96	42.4 4.98	19.7 4.95	27.7 4.98
TPH By SW8015 Mod	Extracted:	Mar-29-19 07:00	Mar-29-19 07:00	Mar-29-19 07:00	Mar-29-19 10:00	Mar-28-19 07:00	Mar-26-19 16:00
	Analyzed:	Mar-29-19 20:06	Mar-29-19 20:25	Mar-29-19 20:44	Mar-29-19 23:36	Mar-28-19 15:51	Mar-27-19 08:20
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager



Certificate of Analysis Summary 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 ST. Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Mar-25-19 07:35 am

Report Date: 01-APR-19

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	618716-007	618716-008	618716-009	618716-010	618716-011	
	Field Id:	SP-6 S. Wall @ 1.5'	SP-7 @ 1.5'	SP-7 @ 4'	SP-7 NW. Wall @ 1.5'	SP-7 NW. Wall @ 4'	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Mar-22-19 09:28	Mar-22-19 09:52	Mar-22-19 10:00	Mar-22-19 09:55	Mar-22-19 10:04	
BTEX by EPA 8021B	Extracted:	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	Mar-29-19 16:00	
	Analyzed:	Mar-30-19 01:39	Mar-30-19 01:58	Mar-30-19 02:17	Mar-30-19 02:36	Mar-30-19 02:55	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	0.0140 0.00199	<0.00200 0.00200	<0.00198 0.00198	
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	0.157 0.00398	<0.00399 0.00399	<0.00397 0.00397	
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	0.147 0.00199	<0.00200 0.00200	<0.00198 0.00198	
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	0.304 0.00199	<0.00200 0.00200	<0.00198 0.00198	
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	0.318 0.00199	<0.00200 0.00200	<0.00198 0.00198	
Chloride by EPA 300	Extracted:	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 08:40	Mar-26-19 09:00	
	Analyzed:	Mar-26-19 13:08	Mar-26-19 13:15	Mar-26-19 13:21	Mar-26-19 13:28	Mar-26-19 09:33	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		26.2 5.02	26.2 4.96	37.5 4.96	21.0 5.01	<5.04 5.04	
TPH By SW8015 Mod	Extracted:	Mar-26-19 16:00	Mar-26-19 16:00	Mar-26-19 16:00	Mar-26-19 16:00	Mar-26-19 16:00	
	Analyzed:	Mar-27-19 08:39	Mar-27-19 08:59	Mar-27-19 09:18	Mar-27-19 09:38	Mar-27-19 09:57	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	68.8 15.0	<15.0 15.0	<15.0 15.0	
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	1290 15.0	<15.0 15.0	<15.0 15.0	
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	402 15.0	<15.0 15.0	<15.0 15.0	
Total TPH		<15.0 15.0	<15.0 15.0	1760 15.0	<15.0 15.0	<15.0 15.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 618716

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 30-31 ST. Com 24Y

01-APR-19

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)



01-APR-19

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **618716**
Red Tank 30-31 ST. Com 24Y
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 618716. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 618716 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 E. Wall @ 1.5'	S	03-22-19 09:25		618716-001
SP-1 W. Wall @ 1.5'	S	03-22-19 09:27		618716-002
SP-2 N. Wall @ 1.5'	S	03-22-19 09:31		618716-003
SP-3 S. Wall @ 1.5'	S	03-22-19 09:30		618716-004
SP-4 NE. Wall @ 1.5'	S	03-22-19 09:36		618716-005
SP-5 SE. Wall @ 1.5'	S	03-22-19 09:47		618716-006
SP-6 S. Wall @ 1.5'	S	03-22-19 09:28		618716-007
SP-7 @ 1.5'	S	03-22-19 09:52		618716-008
SP-7 @ 4'	S	03-22-19 10:00		618716-009
SP-7 NW. Wall @ 1.5'	S	03-22-19 09:55		618716-010
SP-7 NW. Wall @ 4'	S	03-22-19 10:04		618716-011

**CASE NARRATIVE****Client Name: Trinity Oilfield Services & Rentals, LLC****Project Name: Red Tank 30-31 ST. Com 24Y**

Project ID:
Work Order Number(s): 618716

Report Date: 01-APR-19
Date Received: 03/25/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3083494 Chloride by EPA 300

Lab Sample ID 618716-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 618716-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3084057 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 618716-009.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-1 E. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-001

Date Collected: 03.22.19 09.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.7	4.99	mg/kg	03.26.19 12.01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.29.19 07.00

Basis: Wet Weight

Seq Number: 3084046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.29.19 20.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.29.19 20.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.29.19 20.06	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.29.19 20.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.29.19 20.06	
o-Terphenyl	84-15-1	92	%	70-135	03.29.19 20.06	



Certificate of Analytical Results 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-1 E. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-001

Date Collected: 03.22.19 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.29.19 22.50	U	1
Toluene	108-88-3	0.00428	0.00202	mg/kg	03.29.19 22.50		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.29.19 22.50	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.29.19 22.50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.29.19 22.50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.29.19 22.50	U	1
Total BTEX		0.00428	0.00202	mg/kg	03.29.19 22.50		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.29.19 22.50		
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.29.19 22.50		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-1 W. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-002

Date Collected: 03.22.19 09.27

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.6	4.99	mg/kg	03.26.19 12.22		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.29.19 07.00

Basis: Wet Weight

Seq Number: 3084046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.29.19 20.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.29.19 20.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.29.19 20.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.29.19 20.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.29.19 20.25	
o-Terphenyl	84-15-1	91	%	70-135	03.29.19 20.25	



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-1 W. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-002

Date Collected: 03.22.19 09.27

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.29.19 23.09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.29.19 23.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.29.19 23.09		
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.29.19 23.09		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-2 N. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-003

Date Collected: 03.22.19 09.31

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.2	4.96	mg/kg	03.26.19 12.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.29.19 07.00

Basis: Wet Weight

Seq Number: 3084046

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.29.19 20.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.29.19 20.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.29.19 20.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.29.19 20.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	03.29.19 20.44	
o-Terphenyl	84-15-1	91	%	70-135	03.29.19 20.44	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-2 N. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-003

Date Collected: 03.22.19 09.31

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.29.19 23.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.29.19 23.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	03.29.19 23.28		
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.29.19 23.28		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-3 S. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-004

Date Collected: 03.22.19 09.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.4	4.98	mg/kg	03.26.19 12.48		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.29.19 10.00

Basis: Wet Weight

Seq Number: 3084047

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.29.19 23.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.29.19 23.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.29.19 23.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.29.19 23.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	03.29.19 23.36	
o-Terphenyl	84-15-1	92	%	70-135	03.29.19 23.36	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-3 S. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-004

Date Collected: 03.22.19 09.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.29.19 23.47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.29.19 23.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	03.29.19 23.47		
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.29.19 23.47		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-4 NE. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-005

Date Collected: 03.22.19 09.36

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.7	4.95	mg/kg	03.26.19 12.55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.28.19 07.00

Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.28.19 15.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.28.19 15.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.28.19 15.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.28.19 15.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	03.28.19 15.51	
o-Terphenyl	84-15-1	94	%	70-135	03.28.19 15.51	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-4 NE. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-005

Date Collected: 03.22.19 09.36

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.30.19 00.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.30.19 00.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	03.30.19 00.06		
4-Bromofluorobenzene	460-00-4	105	%	70-130	03.30.19 00.06		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-5 SE. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-006

Date Collected: 03.22.19 09.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.7	4.98	mg/kg	03.26.19 13.01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.27.19 08.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	03.27.19 08.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.27.19 08.20	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	03.27.19 08.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	03.27.19 08.20	
o-Terphenyl	84-15-1	81	%	70-135	03.27.19 08.20	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-5 SE. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-006

Date Collected: 03.22.19 09.47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.30.19 01.20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.30.19 01.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	03.30.19 01.20		
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.30.19 01.20		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-6 S. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-007

Date Collected: 03.22.19 09.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.2	5.02	mg/kg	03.26.19 13.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.27.19 08.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.27.19 08.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.27.19 08.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.27.19 08.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	03.27.19 08.39	
o-Terphenyl	84-15-1	83	%	70-135	03.27.19 08.39	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-6 S. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-007

Date Collected: 03.22.19 09.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.30.19 01.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.30.19 01.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	03.30.19 01.39		
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.30.19 01.39		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-008

Date Collected: 03.22.19 09.52

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.2	4.96	mg/kg	03.26.19 13.15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.27.19 08.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.27.19 08.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.27.19 08.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.27.19 08.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	03.27.19 08.59	
o-Terphenyl	84-15-1	82	%	70-135	03.27.19 08.59	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-008

Date Collected: 03.22.19 09.52

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.30.19 01.58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.30.19 01.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	03.30.19 01.58		
1,4-Difluorobenzene	540-36-3	99	%	70-130	03.30.19 01.58		



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-009

Date Collected: 03.22.19 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.5	4.96	mg/kg	03.26.19 13.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	68.8	15.0	mg/kg	03.27.19 09.18		1
Diesel Range Organics (DRO)	C10C28DRO	1290	15.0	mg/kg	03.27.19 09.18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	402	15.0	mg/kg	03.27.19 09.18		1
Total TPH	PHC635	1760	15.0	mg/kg	03.27.19 09.18		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	03.27.19 09.18		
o-Terphenyl	84-15-1	114	%	70-135	03.27.19 09.18		



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-009

Date Collected: 03.22.19 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.30.19 02.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.30.19 02.17	U	1
Ethylbenzene	100-41-4	0.0140	0.00199	mg/kg	03.30.19 02.17		1
m,p-Xylenes	179601-23-1	0.157	0.00398	mg/kg	03.30.19 02.17		1
o-Xylene	95-47-6	0.147	0.00199	mg/kg	03.30.19 02.17		1
Total Xylenes	1330-20-7	0.304	0.00199	mg/kg	03.30.19 02.17		1
Total BTEX		0.318	0.00199	mg/kg	03.30.19 02.17		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.30.19 02.17		
4-Bromofluorobenzene	460-00-4	162	%	70-130	03.30.19 02.17	**	



Certificate of Analytical Results 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 NW. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-010

Date Collected: 03.22.19 09.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 08.40

Basis: Wet Weight

Seq Number: 3083494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.0	5.01	mg/kg	03.26.19 13.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.27.19 09.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.27.19 09.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.27.19 09.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.27.19 09.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	03.27.19 09.38	
o-Terphenyl	84-15-1	79	%	70-135	03.27.19 09.38	



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 NW. Wall @ 1.5'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-010

Date Collected: 03.22.19 09.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.30.19 02.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.30.19 02.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	03.30.19 02.36		
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.30.19 02.36		



Certificate of Analytical Results 618716



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 NW. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-011

Date Collected: 03.22.19 10.04

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 03.26.19 09.00

Basis: Wet Weight

Seq Number: 3083390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	03.26.19 09.33	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 03.26.19 16.00

Basis: Wet Weight

Seq Number: 3083540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	03.27.19 09.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	03.27.19 09.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	03.27.19 09.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	03.27.19 09.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	03.27.19 09.57	
o-Terphenyl	84-15-1	83	%	70-135	03.27.19 09.57	



Certificate of Analytical Results 618716

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 ST. Com 24Y

Sample Id: **SP-7 NW. Wall @ 4'**

Matrix: Soil

Date Received: 03.25.19 07.35

Lab Sample Id: 618716-011

Date Collected: 03.22.19 10.04

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 03.29.19 16.00

Basis: Wet Weight

Seq Number: 3084057

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	03.30.19 02.55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	03.30.19 02.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.30.19 02.55		
1,4-Difluorobenzene	540-36-3	100	%	70-130	03.30.19 02.55		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 ST. Com 24Y

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

MB Sample Id: 7674320-1-BLK

Matrix: Solid

LCS Sample Id: 7674320-1-BKS

Prep Method: E300P

Date Prep: 03.26.19

LCSD Sample Id: 7674320-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	254	102	252	101	90-110	1	20	mg/kg	03.26.19 10:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3083390

MB Sample Id: 7674322-1-BLK

Matrix: Solid

LCS Sample Id: 7674322-1-BKS

Prep Method: E300P

Date Prep: 03.26.19

LCSD Sample Id: 7674322-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	245	98	90-110	0	20	mg/kg	03.26.19 09:22	

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

Parent Sample Id: 618715-002

Matrix: Soil

MS Sample Id: 618715-002 S

Prep Method: E300P

Date Prep: 03.26.19

MSD Sample Id: 618715-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	196	250	441	98	443	99	90-110	0	20	mg/kg	03.26.19 10:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3083494

Parent Sample Id: 618716-001

Matrix: Soil

MS Sample Id: 618716-001 S

Prep Method: E300P

Date Prep: 03.26.19

MSD Sample Id: 618716-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.7	250	315	121	340	131	90-110	8	20	mg/kg	03.26.19 12:08	X

Analytical Method: Chloride by EPA 300

Seq Number: 3083390

Parent Sample Id: 618716-011

Matrix: Soil

MS Sample Id: 618716-011 S

Prep Method: E300P

Date Prep: 03.26.19

MSD Sample Id: 618716-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.46	252	253	99	251	98	90-110	1	20	mg/kg	03.26.19 09:39	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 ST. Com 24Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083540

MB Sample Id: 7674391-1-BLK

Matrix: Solid

LCS Sample Id: 7674391-1-BKS

Prep Method: TX1005P

Date Prep: 03.26.19

LCSD Sample Id: 7674391-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	898	90	937	94	70-135	4	20	mg/kg	03.27.19 01:54	
Diesel Range Organics (DRO)	<8.13	1000	992	99	1040	104	70-135	5	20	mg/kg	03.27.19 01:54	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	88		122		114		70-135	%	03.27.19 01:54			
o-Terphenyl	90		104		104		70-135	%	03.27.19 01:54			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083750

MB Sample Id: 7674566-1-BLK

Matrix: Solid

LCS Sample Id: 7674566-1-BKS

Prep Method: TX1005P

Date Prep: 03.28.19

LCSD Sample Id: 7674566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	939	94	945	95	70-135	1	20	mg/kg	03.28.19 08:06	
Diesel Range Organics (DRO)	<8.13	1000	958	96	981	98	70-135	2	20	mg/kg	03.28.19 08:06	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	94		127		126		70-135	%	03.28.19 08:06			
o-Terphenyl	97		106		120		70-135	%	03.28.19 08:06			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3084046

MB Sample Id: 7674697-1-BLK

Matrix: Solid

LCS Sample Id: 7674697-1-BKS

Prep Method: TX1005P

Date Prep: 03.29.19

LCSD Sample Id: 7674697-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	905	91	940	94	70-135	4	20	mg/kg	03.29.19 12:27	
Diesel Range Organics (DRO)	<8.13	1000	1000	100	1030	103	70-135	3	20	mg/kg	03.29.19 12:27	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	93		122		124		70-135	%	03.29.19 12:27			
o-Terphenyl	97		120		117		70-135	%	03.29.19 12:27			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 ST. Com 24Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3084047

MB Sample Id: 7674698-1-BLK

Matrix: Solid

LCS Sample Id: 7674698-1-BKS

Prep Method: TX1005P

Date Prep: 03.29.19

LCSD Sample Id: 7674698-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	958	96	924	92	70-135	4	20	mg/kg	03.29.19 21:42	
Diesel Range Organics (DRO)	<8.13	1000	1050	105	1020	102	70-135	3	20	mg/kg	03.29.19 21:42	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	94		122		122		70-135	%	03.29.19 21:42			
o-Terphenyl	97		117		104		70-135	%	03.29.19 21:42			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083540

Parent Sample Id: 618909-001

Matrix: Soil

MS Sample Id: 618909-001 S

Prep Method: TX1005P

Date Prep: 03.26.19

MSD Sample Id: 618909-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.98	997	824	83	845	85	70-135	3	20	mg/kg	03.27.19 02:52	
Diesel Range Organics (DRO)	<8.10	997	931	93	957	96	70-135	3	20	mg/kg	03.27.19 02:52	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			102		101		70-135	%	03.27.19 02:52			
o-Terphenyl			87		89		70-135	%	03.27.19 02:52			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3083750

Parent Sample Id: 619079-002

Matrix: Soil

MS Sample Id: 619079-002 S

Prep Method: TX1005P

Date Prep: 03.28.19

MSD Sample Id: 619079-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	999	1010	101	1020	102	70-135	1	20	mg/kg	03.28.19 09:22	
Diesel Range Organics (DRO)	<8.12	999	1030	103	1040	104	70-135	1	20	mg/kg	03.28.19 09:22	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			125		123		70-135	%	03.28.19 09:22			
o-Terphenyl			119		113		70-135	%	03.28.19 09:22			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 ST. Com 24Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3084046

Parent Sample Id: 618714-001

Matrix: Soil

MS Sample Id: 618714-001 S

Prep Method: TX1005P

Date Prep: 03.29.19

MSD Sample Id: 618714-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	8.16	997	912	91	915	91	70-135	0	20	mg/kg	03.29.19 13:24	
Diesel Range Organics (DRO)	<8.10	997	932	93	939	94	70-135	1	20	mg/kg	03.29.19 13:24	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		119		70-135	%	03.29.19 13:24
o-Terphenyl	111		109		70-135	%	03.29.19 13:24

Analytical Method: TPH By SW8015 Mod

Seq Number: 3084047

Parent Sample Id: 618899-001

Matrix: Soil

MS Sample Id: 618899-001 S

Prep Method: TX1005P

Date Prep: 03.29.19

MSD Sample Id: 618899-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	8.95	998	972	96	969	96	70-135	0	20	mg/kg	03.29.19 22:39	
Diesel Range Organics (DRO)	<8.11	998	988	99	982	98	70-135	1	20	mg/kg	03.29.19 22:39	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		122		70-135	%	03.29.19 22:39
o-Terphenyl	100		99		70-135	%	03.29.19 22:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3084057

MB Sample Id: 7674756-1-BLK

Matrix: Solid

LCS Sample Id: 7674756-1-BKS

Prep Method: SW5030B

Date Prep: 03.29.19

LCSD Sample Id: 7674756-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.102	103	0.101	101	70-130	1	35	mg/kg	03.29.19 19:23	
Toluene	<0.000453	0.0994	0.105	106	0.104	104	70-130	1	35	mg/kg	03.29.19 19:23	
Ethylbenzene	<0.000561	0.0994	0.0998	100	0.0991	99	70-130	1	35	mg/kg	03.29.19 19:23	
m,p-Xylenes	<0.00101	0.199	0.202	102	0.202	101	70-130	0	35	mg/kg	03.29.19 19:23	
o-Xylene	<0.000342	0.0994	0.102	103	0.103	103	70-130	1	35	mg/kg	03.29.19 19:23	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		98		101		70-130	%	03.29.19 19:23
4-Bromofluorobenzene	86		94		107		70-130	%	03.29.19 19:23

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 ST. Com 24Y

Analytical Method: BTEX by EPA 8021B

Seq Number: 3084057

Parent Sample Id: 618714-015

Matrix: Soil

MS Sample Id: 618714-015 S

Prep Method: SW5030B

Date Prep: 03.29.19

MSD Sample Id: 618714-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0799	80	0.0886	89	70-130	10	35	mg/kg	03.29.19 20:01	
Toluene	<0.000454	0.0996	0.0809	81	0.0906	91	70-130	11	35	mg/kg	03.29.19 20:01	
Ethylbenzene	<0.000563	0.0996	0.0726	73	0.0836	84	70-130	14	35	mg/kg	03.29.19 20:01	
m,p-Xylenes	<0.00101	0.199	0.146	73	0.169	85	70-130	15	35	mg/kg	03.29.19 20:01	
o-Xylene	<0.000343	0.0996	0.0745	75	0.0863	87	70-130	15	35	mg/kg	03.29.19 20:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		70-130	%	03.29.19 20:01
4-Bromofluorobenzene	107		106		70-130	%	03.29.19 20:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



CHAIN OF CUSTODY RECORD

Page 1 of 2

LAB W.O # :

Field billable Hrs :

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
:rool-c

* Container Type Codes

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
PC	Plastic Clear		
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO_3 F. MeOH J. MCAA
C. H_2SO_4 G. $\text{Na}_2\text{S}_2\text{O}_3$ K. ZnAc&NaOH
D. NaOH H. NaHSO_4 L. Asbc Acid&NaOH
O

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC				Phone: (575)390-7208				TAT Work Days = D Need results by: _____ Time: _____												PA Plastic Amber PC Plastic Clear Other _____											
Address: P.O. Box 2587				Fax: _____				Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____												Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____											
City: Hobbs				State: NM Zip: 88241				ANALYSES REQUESTED												** Preservative Type Codes											
PM/Attn: Ben J. Arguijo				Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com				Cont Type VC		GC	GC	GC								A. None E. HCL I. Ice B. HNO ₃ F. MeOH J. MCAA C. H ₂ SO ₄ G. Na ₂ S ₂ O ₃ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L. Asbc Acid&NaOH O. _____											
Project ID: Red Tank 30-31 St. Com 24Y				PO#: _____				Pres Type**		I	I	I																			
Invoice To: Oxy - Wade Dittrich (575)390-2828 Charge Codes: OP57182239 1214877 01040502				Quote #: _____				Example Volatiles by 8260		TPH 8015M	BTEX	Chloride								Hold Sample (CALL) Run PAH on Highest TPH Only if _____	^ Matrix Type Codes										
Sampler Name: John Klepper				Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A																	GW Ground Water S Soil/Sediment/Solid WW Waste Water W Wipe DW Drinking Water A Air SW Surface Water O Oil OW Ocean/Sea Water T Tissue PL Product-Liquid U Urine PS Product-Solid B Blood SL Sludge Other _____										
Sample #		Sample ID		Collect Date	Collect Time	Matrix Code ^	Field Filtered Integrity OK [Y/N]	Total # of containers	# Cont	Lab Only: _____												REMARKS									
1		SP-1 E. Wall @ 1.5'		3/22/19	0925	S		1		X	X	X																			
2		SP-1 W. Wall @ 1.5'		3/22/19	0927	S		1		X	X	X																			
3		SP-2 N. Wall @ 1.5'		3/22/19	0931	S		1		X	X	X																			
4		SP-3 S. Wall @ 1.5'		3/22/19	0930	S		1		X	X	X																			
5		SP-4 NE Wall @ 1.5'		3/22/19	0936	S		1		X	X	X																			
6		SP-5 SE Wall @ 1.5'		3/22/19	0947	S		1		X	X	X																			
7		SP-6 S. Wall @ 1.5'		3/22/19	0928	S		1		X	X	X																			
8		SP-7 @ 1.5'		3/22/19	0952	S		1		X	X	X																			
9		SP-7 @ 4'		3/22/19	1000	S		1		X	X	X																			
0		SP-7 NW Wall @ 1.5'		3/22/19	0955	S		1		X	X	X																			
Reg. Program / Clean-up Std				STATE for Certs & Regs				QA/QC Level & Certification				EDDs				COC & Labels				Coolers Temp °C				Lab Use Only YES NO N/A							
CTLs TRRP DW NPDES LPST DryChn Other: _____				FL TX GA NC SC NJ PA OK LA AL NM Other: _____				1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other: _____				AdApt SEDD ERPIMS XLS Other: _____				Match Incomplete Absent Unclear				11.32 3				Non-Conformances found? _____ Samples intact upon arrival? _____ Received on Wet Ice? _____ Labeled with proper preservatives? _____ Received within holding time? _____ Custody seals intact? _____ VOCs rec'd w/o headspace? _____ Proper containers used? _____ pH verified-acceptable, excl VOCs? _____ Received on time to meet HTs? _____							
Relinquished by				Affiliation				Date				Time				Received by				Affiliation				Date				Time			
1 John Klepper				Trinity				03/22/19				3:00				Brittany Cox				MS				3/22/19 3:00							
2 Brittany Cox				MS				3/22/19				3:00				Basil				Venco				3/25/19 0735							
3																															
4																															

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009

Revision Date: Nov 12, 2009



CHAIN OF CUSTODY RECORD

Page 2 of 2

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
;rool-c

LAB W.O # :

Field billable Hrs :

* Container Type Codes

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
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** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO_3 F. MeOH J. MCAA
C. H_2SO_4 G. $\text{Na}_2\text{S}_2\text{O}_3$ K. ZnAc&NaOH
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^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
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SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

Company: Trinity Oilfield Services & Rentals, LLC		Phone: (575)390-7208
Address: P.O. Box 2587		Fax:
City: Hobbs	State: NM	Zip: 88241
PM/Attn: Ben J. Arguijo		Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: Red Tank 30-31 St. Com 24Y		PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828 Charge Codes: OP57182239 1214877 01040502		Quote #:

TAT Work Days = D Need results by: _____ Time: _____
Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____

ANALYSES REQUESTED

[illegible]

Sampler Name: John Klepper	Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A
-------------------------------	--

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of Containers
1	SP-7 NW Wall @ 4'	3/22/19	1004	S			1
2							
3							
4							
5							
6							
7							
8							
9							
0							

# Cont	Lab Only:
--------	-----------

CALL ☐ RUN PAH

REMARKS

Reg. Program / Clean-up Std						STATE for Certs & Regs						QA/QC Level & Certification						EDDs		COC & Labels		Coolers Temp °C		Lab Use Only		YES NO N/A							
CTLs	TRRP	DW	NPDES	LPST	DryCln	FL	TX	GA	NC	SC	NJ	PA	OK	1	2	3	4	CLP	AFCEE	QAPP	ADaPT	SEDD	ERPIMS	Match	Incomplete	1		1.32	3	Non-Conformances found?		_____	_____
Other:						LA AL NM Other:						NELAC DoD-ELAP Other:						XLS Other:		Absent Unclear				Samples intact upon arrival?		_____	_____						
Relinquished by						Affiliation						Date		Time		Received by		Affiliation		Date		Time		Received on Wet Ice?		_____	_____						
1 John Keppner						Trinity						03/22/19		3:00		Brittany Cox		MS		3/22/19		3:00		Labeled with proper preservatives?		_____	_____						
2 Brittany Cox						MS						3/22/19		3:00		Blm		Xenica		3/25/19		0735		Received within holding time?		_____	_____						
3																								Custody seals intact?		_____	_____						
4																										VOCs rec'd w/o headspace?		_____	_____				
																										Proper containers used?		_____	_____				
																										pH verified-acceptable, excl VOCs?		_____	_____				
																										Received on time to meet HTs?		_____	_____				

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

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Revision Date: Nov 12, 2009



Prelogin/Nonconformance Report- Sample Log-In

Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 03/25/2019 07:35:00 AM

Work Order #: 618716

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 03/25/2019

Checklist reviewed by:

Holly Taylor

Date: 03/26/2019



Certificate of Analysis Summary 621047

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 St. Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Apr-15-19 07:45 am

Report Date: 22-APR-19

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	621047-001	621047-002				
	Field Id:	SP-2 @ 5'	SP-2 @ 6.5'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Apr-10-19 14:30	Apr-11-19 14:55				
BTEX by EPA 8021B	Extracted:	Apr-17-19 13:00	Apr-18-19 16:30				
	Analyzed:	Apr-18-19 03:54	Apr-18-19 23:54				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00202 0.00202				
Toluene		<0.00200 0.00200	<0.00202 0.00202				
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202				
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403				
o-Xylene		<0.00200 0.00200	<0.00202 0.00202				
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202				
Total BTEX		<0.00200 0.00200	<0.00202 0.00202				
Chloride by EPA 300	Extracted:	Apr-19-19 08:30	Apr-19-19 08:30				
	Analyzed:	Apr-19-19 13:18	Apr-19-19 13:25				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		208 4.98	37.6 5.00				
TPH By SW8015 Mod	Extracted:	Apr-16-19 10:00	Apr-16-19 10:00				
	Analyzed:	Apr-16-19 14:46	Apr-16-19 15:05				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		<15.0 15.0	<15.0 15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 621047

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 30-31 St. Com 24Y

22-APR-19

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)



22-APR-19

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **621047**
Red Tank 30-31 St. Com 24Y
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 621047. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 621047 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 621047****Trinity Oilfield Services & Rentals, LLC, Hobbs, NM**

Red Tank 30-31 St. Com 24Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-2 @ 5'	S	04-10-19 14:30		621047-001
SP-2 @ 6.5'	S	04-11-19 14:55		621047-002



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: Red Tank 30-31 St. Com 24Y

Project ID:
Work Order Number(s): 621047

Report Date: 22-APR-19
Date Received: 04/15/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3086143 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3086244 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 621047

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 @ 5'**

Matrix: Soil

Date Received: 04.15.19 07.45

Lab Sample Id: 621047-001

Date Collected: 04.10.19 14.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 08.30

Basis: Wet Weight

Seq Number: 3086464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	208	4.98	mg/kg	04.19.19 13.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.16.19 10.00

Basis: Wet Weight

Seq Number: 3085985

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.16.19 14.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.16.19 14.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.16.19 14.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.16.19 14.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	04.16.19 14.46		
o-Terphenyl	84-15-1	106	%	70-135	04.16.19 14.46		



Certificate of Analytical Results 621047

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 @ 5'**

Matrix: Soil

Date Received: 04.15.19 07.45

Lab Sample Id: 621047-001

Date Collected: 04.10.19 14.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.17.19 13.00

Basis: Wet Weight

Seq Number: 3086143

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.18.19 03.54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.18.19 03.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	04.18.19 03.54		
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.18.19 03.54		



Certificate of Analytical Results 621047

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 @ 6.5'**

Matrix: Soil

Date Received: 04.15.19 07.45

Lab Sample Id: 621047-002

Date Collected: 04.11.19 14.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 04.19.19 08.30

Basis: Wet Weight

Seq Number: 3086464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.6	5.00	mg/kg	04.19.19 13.25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.16.19 10.00

Basis: Wet Weight

Seq Number: 3085985

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.16.19 15.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.16.19 15.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.16.19 15.05	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.16.19 15.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	04.16.19 15.05		
o-Terphenyl	84-15-1	106	%	70-135	04.16.19 15.05		



Certificate of Analytical Results 621047

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St. Com 24Y

Sample Id: **SP-2 @ 6.5'**

Matrix: Soil

Date Received: 04.15.19 07.45

Lab Sample Id: 621047-002

Date Collected: 04.11.19 14.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.18.19 16.30

Basis: Wet Weight

Seq Number: 3086244

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.18.19 23.54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.18.19 23.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	04.18.19 23.54		
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.18.19 23.54		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: Chloride by EPA 300

Seq Number: 3086464

MB Sample Id: 7676098-1-BLK

Matrix: Solid

LCS Sample Id: 7676098-1-BKS

Prep Method: E300P

Date Prep: 04.19.19

LCSD Sample Id: 7676098-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	238	95	241	96	90-110	1	20	mg/kg	04.19.19 10:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3086464

Parent Sample Id: 620911-004

Matrix: Soil

MS Sample Id: 620911-004 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 620911-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.6	252	192	64	255	89	90-110	28	20	mg/kg	04.19.19 10:31	XF

Analytical Method: Chloride by EPA 300

Seq Number: 3086464

Parent Sample Id: 620983-016

Matrix: Soil

MS Sample Id: 620983-016 S

Prep Method: E300P

Date Prep: 04.19.19

MSD Sample Id: 620983-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.8	252	180	67	245	93	90-110	31	20	mg/kg	04.19.19 12:33	XF

Analytical Method: TPH By SW8015 Mod

Seq Number: 3085985

MB Sample Id: 7675908-1-BLK

Matrix: Solid

LCS Sample Id: 7675908-1-BKS

Prep Method: TX1005P

Date Prep: 04.16.19

LCSD Sample Id: 7675908-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	975	98	1010	101	70-135	4	20	mg/kg	04.16.19 11:51	
Diesel Range Organics (DRO)	<8.13	1000	1000	100	1020	102	70-135	2	20	mg/kg	04.16.19 11:51	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		126		129		70-135	%	04.16.19 11:51
o-Terphenyl	114		119		125		70-135	%	04.16.19 11:51

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3085985

Parent Sample Id: 621042-001

Matrix: Soil

MS Sample Id: 621042-001 S

Prep Method: TX1005P

Date Prep: 04.16.19

MSD Sample Id: 621042-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	12.3	997	1010	100	1020	101	70-135	1	20	mg/kg	04.16.19 12:49	
Diesel Range Organics (DRO)	<8.10	997	1070	107	1080	108	70-135	1	20	mg/kg	04.16.19 12:49	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		125		70-135	%	04.16.19 12:49
o-Terphenyl	114		121		70-135	%	04.16.19 12:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086143

MB Sample Id: 7676058-1-BLK

Matrix: Solid

LCS Sample Id: 7676058-1-BKS

Prep Method: SW5030B

Date Prep: 04.17.19

LCSD Sample Id: 7676058-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000388	0.101	0.0880	87	0.0926	93	70-130	5	35	mg/kg	04.17.19 19:25	
Toluene	<0.000459	0.101	0.0889	88	0.0930	93	70-130	5	35	mg/kg	04.17.19 19:25	
Ethylbenzene	<0.000569	0.101	0.0822	81	0.0855	86	70-130	4	35	mg/kg	04.17.19 19:25	
m,p-Xylenes	<0.00102	0.202	0.162	80	0.169	85	70-130	4	35	mg/kg	04.17.19 19:25	
o-Xylene	<0.000347	0.101	0.0814	81	0.0853	85	70-130	5	35	mg/kg	04.17.19 19:25	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		99		100		70-130	%	04.17.19 19:25
4-Bromofluorobenzene	86		89		90		70-130	%	04.17.19 19:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086244

MB Sample Id: 7676130-1-BLK

Matrix: Solid

LCS Sample Id: 7676130-1-BKS

Prep Method: SW5030B

Date Prep: 04.18.19

LCSD Sample Id: 7676130-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0805	80	0.0806	81	70-130	0	35	mg/kg	04.18.19 17:57	
Toluene	<0.00202	0.101	0.0874	87	0.0872	87	70-130	0	35	mg/kg	04.18.19 17:57	
Ethylbenzene	<0.00202	0.101	0.0941	93	0.0939	94	70-130	0	35	mg/kg	04.18.19 17:57	
m,p-Xylenes	<0.00102	0.202	0.194	96	0.192	96	70-130	1	35	mg/kg	04.18.19 17:57	
o-Xylene	<0.00202	0.101	0.0986	98	0.0974	98	70-130	1	35	mg/kg	04.18.19 17:57	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		94		93		70-130	%	04.18.19 17:57
4-Bromofluorobenzene	109		107		105		70-130	%	04.18.19 17:57

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St. Com 24Y

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086143

Parent Sample Id: 621042-001

Matrix: Soil

MS Sample Id: 621042-001 S

Prep Method: SW5030B

Date Prep: 04.17.19

MSD Sample Id: 621042-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.0829	83	0.0729	73	70-130	13	35	mg/kg	04.17.19 20:03	
Toluene	<0.000456	0.100	0.0826	83	0.0722	73	70-130	13	35	mg/kg	04.17.19 20:03	
Ethylbenzene	<0.000565	0.100	0.0754	75	0.0653	66	70-130	14	35	mg/kg	04.17.19 20:03	X
m,p-Xylenes	<0.00101	0.200	0.149	75	0.128	64	70-130	15	35	mg/kg	04.17.19 20:03	X
o-Xylene	<0.000344	0.100	0.0756	76	0.0659	66	70-130	14	35	mg/kg	04.17.19 20:03	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	04.17.19 20:03
4-Bromofluorobenzene	99		95		70-130	%	04.17.19 20:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086244

Parent Sample Id: 621548-002

Matrix: Soil

MS Sample Id: 621548-002 S

Prep Method: SW5030B

Date Prep: 04.18.19

MSD Sample Id: 621548-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0775	78	0.0735	74	70-130	5	35	mg/kg	04.18.19 18:35	
Toluene	<0.000454	0.0996	0.0789	79	0.0766	77	70-130	3	35	mg/kg	04.18.19 18:35	
Ethylbenzene	<0.000563	0.0996	0.0798	80	0.0771	77	70-130	3	35	mg/kg	04.18.19 18:35	
m,p-Xylenes	<0.00101	0.199	0.163	82	0.158	79	70-130	3	35	mg/kg	04.18.19 18:35	
o-Xylene	<0.000343	0.0996	0.0831	83	0.0811	81	70-130	2	35	mg/kg	04.18.19 18:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	04.18.19 18:35
4-Bromofluorobenzene	111		116		70-130	%	04.18.19 18:35

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

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Received by OGD: 4/7/2020 2:58:00 PM



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
roool-c

Page 1 of 1
LAB W.O #: 1021047
Field billable Hrs :

* Container Type Codes			
VA Vial Amber	ES Encore Sampler		
VC Vial Clear	TS TerraCore Sampler		
VP Vial Pre-preserved	AC Air Canister		
GA Glass Amber	TB Tedlar Bag		
GC Glass Clear	ZB Zip Lock Bag		
PA Plastic Amber	PC Plastic Clear		
PC Plastic Clear			
Other			
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other			

Company: Trinity Oilfield Services & Rentals, LLC	Phone: (575)390-7208
Address: P.O. Box 2587	Fax:
City: Hobbs	State: NM Zip: 88241
PM/Attn: Ben J. Arguijo	Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: Red Tank 30-31 St. Com 24Y	PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:
Charge Codes: OP57182239 1214877 01040502	
Sampler Name: Felix Palmero	Circle One Event: Daily Weekly Monthly Quartely Semi-Annual Annual N/A

TAT Work Days = D Need results by: Time: Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED											
Cont Type * VC	GC	GC	GC								
Pres Type **	I	I	I								
Example Volatiles by 8260	TPH 8015M	BTEX	Chloride								
# Cont	Lab Only:										

** Preservative Type Codes		
A. None	E. HCL	I. Ice
B. HNO ₃	F. MeOH	J. MCAA
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc&NaOH
D. NaOH	H. NaHSO ₄	L. Asbc Acid&NaOH
O.		

^ Matrix Type Codes		
GW Ground Water	S Soil/Sediment/Solid	
WW Waste Water	W Wipe	
DW Drinking Water	A Air	
SW Surface Water	O Oil	
OW Ocean/Sea Water	T Tissue	
PL Product-Liquid	U Urine	
PS Product-Solid	B Blood	
SL Sludge		
Other		

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers
1	SP-2 @ 5'	4/10/19	1430	S			1
2	SP-2 @ 6.5'	4/11/19	1455	S			1
3							
4							
5							
6							
7							
8							
9							
0							

REMARKS

Reg. Program / Clean-up Std				STATE for Certs & Regs				QA/QC Level & Certification				EDDs		COC & Labels		Coolers Temp °C		Lab Use Only															
CTLs	TRRP	DW	NPDES	LPST	DryCln	FL	TX	GA	NC	SC	NJ	PA	OK	1	2	3	4	CLP	AFCEE	QAPP	ADaPT	SEDD	ERPIMS	Match	Incomplete	Absent	Unclear	11.221.13	8801	Non-Conformances found?	YES	NO	N/A
Other:						LA	AL	NM	Other:					NELAC	DoD-ELAP	Other:					XLS	Other:											
Relinquished by				Affiliation				Date				Time		Received by		Affiliation		Date		Time													
1 Felix Palmero				Trinity				4/12/19				4:03		J. Butler		MS		4/12/19		4:06													
2 J. Butler				MS				4/12/19				4:10		J. Butler		Xenco		4/12/19		4:15													
3																																	
4																																	

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009
4705 2520 (036)

Final 1.000
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Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 04/15/2019 07:45:00 AM

Work Order #: 621047

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 04/15/2019

Checklist reviewed by:

Holly Taylor

Date: 04/16/2019



Certificate of Analysis Summary 621713

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 30-31 St.Com 24Y



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Apr-19-19 12:00 pm

Report Date: 25-APR-19

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	621713-001	621713-002				
	Field Id:	SP-7 @ 5'	SP-7 @ 8'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Apr-17-19 14:19	Apr-17-19 14:55				
BTEX by EPA 8021B	Extracted:	Apr-23-19 17:00	Apr-23-19 17:00				
	Analyzed:	Apr-24-19 01:51	Apr-24-19 02:10				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00199 0.00199	<0.00199 0.00199				
Toluene		<0.00199 0.00199	<0.00199 0.00199				
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199				
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398				
o-Xylene		<0.00199 0.00199	<0.00199 0.00199				
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199				
Total BTEX		<0.00199 0.00199	<0.00199 0.00199				
Chloride by EPA 300	Extracted:	Apr-24-19 14:15	Apr-24-19 14:15				
	Analyzed:	Apr-24-19 20:24	Apr-24-19 20:29				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		81.5 4.97	27.2 4.97				
TPH By SW8015 Mod	Extracted:	Apr-24-19 10:00	Apr-24-19 14:00				
	Analyzed:	Apr-25-19 07:23	Apr-25-19 08:00				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		21.0 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		21.0 15.0	<15.0 15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 621713

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 30-31 St.Com 24Y

25-APR-19

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)



25-APR-19

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **621713**
Red Tank 30-31 St.Com 24Y
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 621713. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 621713 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'.

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 621713****Trinity Oilfield Services & Rentals, LLC, Hobbs, NM**

Red Tank 30-31 St.Com 24Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-7 @ 5'	S	04-17-19 14:19		621713-001
SP-7 @ 8'	S	04-17-19 14:55		621713-002



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: Red Tank 30-31 St.Com 24Y

Project ID:
Work Order Number(s): 621713

Report Date: 25-APR-19
Date Received: 04/19/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3086741 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 621713-001.



Certificate of Analytical Results 621713



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St.Com 24Y

Sample Id: **SP-7 @ 5'**

Matrix: Soil

Date Received: 04.19.19 12.00

Lab Sample Id: 621713-001

Date Collected: 04.17.19 14.19

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 04.24.19 14.15

Basis: Wet Weight

Seq Number: 3086844

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.5	4.97	mg/kg	04.24.19 20.24		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.24.19 10.00

Basis: Wet Weight

Seq Number: 3086860

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.25.19 07.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	21.0	15.0	mg/kg	04.25.19 07.23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.25.19 07.23	U	1
Total TPH	PHC635	21.0	15.0	mg/kg	04.25.19 07.23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.25.19 07.23	
o-Terphenyl	84-15-1	93	%	70-135	04.25.19 07.23	



Certificate of Analytical Results 621713



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St.Com 24Y

Sample Id: **SP-7 @ 5'**

Matrix: Soil

Date Received: 04.19.19 12.00

Lab Sample Id: 621713-001

Date Collected: 04.17.19 14.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.23.19 17.00

Basis: Wet Weight

Seq Number: 3086741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.24.19 01.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.24.19 01.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	04.24.19 01.51	**	
1,4-Difluorobenzene	540-36-3	92	%	70-130	04.24.19 01.51		



Certificate of Analytical Results 621713



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St.Com 24Y

Sample Id: **SP-7 @ 8'**

Matrix: Soil

Date Received: 04.19.19 12.00

Lab Sample Id: 621713-002

Date Collected: 04.17.19 14.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 04.24.19 14.15

Basis: Wet Weight

Seq Number: 3086844

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.2	4.97	mg/kg	04.24.19 20.29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.24.19 14.00

Basis: Wet Weight

Seq Number: 3086863

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.25.19 08.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.25.19 08.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	04.25.19 08.00	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.25.19 08.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	04.25.19 08.00	
o-Terphenyl	84-15-1	92	%	70-135	04.25.19 08.00	



Certificate of Analytical Results 621713



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 30-31 St.Com 24Y

Sample Id: **SP-7 @ 8'**

Matrix: Soil

Date Received: 04.19.19 12.00

Lab Sample Id: 621713-002

Date Collected: 04.17.19 14.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 04.23.19 17.00

Basis: Wet Weight

Seq Number: 3086741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.24.19 02.10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.24.19 02.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	04.24.19 02.10		
4-Bromofluorobenzene	460-00-4	123	%	70-130	04.24.19 02.10		



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St.Com 24Y

Analytical Method: Chloride by EPA 300

Seq Number: 3086844

MB Sample Id: 7676506-1-BLK

Matrix: Solid

LCS Sample Id: 7676506-1-BKS

Prep Method: E300P

Date Prep: 04.24.19

LCSD Sample Id: 7676506-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	253	101	253	101	90-110	0	20	mg/kg	04.24.19 19:16	

Analytical Method: Chloride by EPA 300

Seq Number: 3086844

Parent Sample Id: 621705-019

Matrix: Soil

MS Sample Id: 621705-019 S

Prep Method: E300P

Date Prep: 04.24.19

MSD Sample Id: 621705-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	0.880	248	273	110	281	113	90-110	3	20	mg/kg	04.24.19 19:32	X

Analytical Method: Chloride by EPA 300

Seq Number: 3086844

Parent Sample Id: 621714-001

Matrix: Soil

MS Sample Id: 621714-001 S

Prep Method: E300P

Date Prep: 04.24.19

MSD Sample Id: 621714-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	34.2	250	287	101	273	96	90-110	5	20	mg/kg	04.24.19 20:45	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3086860

MB Sample Id: 7676472-1-BLK

Matrix: Solid

LCS Sample Id: 7676472-1-BKS

Prep Method: TX1005P

Date Prep: 04.24.19

LCSD Sample Id: 7676472-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1010	101	70-135	9	20	mg/kg	04.24.19 15:23	
Diesel Range Organics (DRO)	<8.13	1000	1160	116	1050	105	70-135	10	20	mg/kg	04.24.19 15:23	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		130		116		70-135	%	04.24.19 15:23
o-Terphenyl	99		125		112		70-135	%	04.24.19 15:23

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St.Com 24Y

Analytical Method: TPH By SW8015 Mod

Seq Number: 3086863

MB Sample Id: 7676473-1-BLK

Matrix: Solid

LCS Sample Id: 7676473-1-BKS

Prep Method: TX1005P

Date Prep: 04.24.19

LCSD Sample Id: 7676473-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1020	102	1030	103	70-135	1	20	mg/kg	04.25.19 00:30	
Diesel Range Organics (DRO)	<8.13	1000	1050	105	1070	107	70-135	2	20	mg/kg	04.25.19 00:30	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	98		123		126		70-135	%	04.25.19 00:30			
o-Terphenyl	99		114		117		70-135	%	04.25.19 00:30			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3086860

Parent Sample Id: 621699-041

Matrix: Soil

MS Sample Id: 621699-041 S

Prep Method: TX1005P

Date Prep: 04.24.19

MSD Sample Id: 621699-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<7.99	998	784	79	893	90	70-135	13	20	mg/kg	04.24.19 16:22	
Diesel Range Organics (DRO)	52.7	998	840	79	935	88	70-135	11	20	mg/kg	04.24.19 16:22	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			99		107		70-135	%	04.24.19 16:22			
o-Terphenyl			81		89		70-135	%	04.24.19 16:22			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3086863

Parent Sample Id: 621715-001

Matrix: Soil

MS Sample Id: 621715-001 S

Prep Method: TX1005P

Date Prep: 04.24.19

MSD Sample Id: 621715-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	12.7	998	974	96	992	98	70-135	2	20	mg/kg	04.25.19 01:29	
Diesel Range Organics (DRO)	<8.11	998	1040	104	1060	106	70-135	2	20	mg/kg	04.25.19 01:29	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			124		127		70-135	%	04.25.19 01:29			
o-Terphenyl			102		108		70-135	%	04.25.19 01:29			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Red Tank 30-31 St.Com 24Y

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086741

MB Sample Id: 7676425-1-BLK

Matrix: Solid

LCS Sample Id: 7676425-1-BKS

Prep Method: SW5030B

Date Prep: 04.23.19

LCSD Sample Id: 7676425-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0894	89	0.101	100	70-130	12	35	mg/kg	04.23.19 23:59	
Toluene	<0.00200	0.100	0.0897	90	0.101	100	70-130	12	35	mg/kg	04.23.19 23:59	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.106	105	70-130	12	35	mg/kg	04.23.19 23:59	
m,p-Xylenes	<0.00400	0.200	0.190	95	0.213	105	70-130	11	35	mg/kg	04.23.19 23:59	
o-Xylene	<0.00200	0.100	0.0979	98	0.109	108	70-130	11	35	mg/kg	04.23.19 23:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		98		96		70-130	%	04.23.19 23:59
4-Bromofluorobenzene	106		109		108		70-130	%	04.23.19 23:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3086741

Parent Sample Id: 621713-001

Matrix: Soil

MS Sample Id: 621713-001 S

Prep Method: SW5030B

Date Prep: 04.23.19

MSD Sample Id: 621713-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0869	88	0.0931	93	70-130	7	35	mg/kg	04.24.19 00:37	
Toluene	<0.00198	0.0992	0.0845	85	0.0911	91	70-130	8	35	mg/kg	04.24.19 00:37	
Ethylbenzene	<0.00198	0.0992	0.0830	84	0.0900	90	70-130	8	35	mg/kg	04.24.19 00:37	
m,p-Xylenes	<0.00397	0.198	0.169	85	0.183	91	70-130	8	35	mg/kg	04.24.19 00:37	
o-Xylene	<0.00198	0.0992	0.0871	88	0.0942	94	70-130	8	35	mg/kg	04.24.19 00:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	04.24.19 00:37
4-Bromofluorobenzene	109		114		70-130	%	04.24.19 00:37

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * [(C - E) / (C + E)]$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Page 1 of 1

LAB W.O #:

621713

Field billable Hrs:

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Red Tank 30-31 St. Com 24Y	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	
	Charge Codes: OP57182239 1214877 01040502		
Sampler Name:	Felix Palmero	Circle One Event:	Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

TAT Work Days = D Need results by: Time: Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

Cont Type VC	GC	GC	GC																
Pres Type**	I	I	I																
Example Volatiles by 8260	TPH 8015M	BTEX	Chloride																
# Cont	Lab Only:																		
1	X	X	X																
2	X	X	X																
3																			
4																			
5																			
6																			
7																			
8																			
9																			
0																			

* Container Type Codes			
VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
PC	Plastic Clear		
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO ₃	F. MeOH	J. MCAA
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc&NaOH
D. NaOH	H. NaHSO ₄	L. Asbc Acid&NaOH
O.		

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		
Other			

REMARKS

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	YES NO N/A
CTLs TRRP DW NPDES LPST DryCin Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADAPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1 2 3 2.6	Non-Conformances found?	_____
						Samples intact upon arrival?	_____
						Received on Wet Ice?	_____
						Labeled with proper preservatives?	_____
						Received within holding time?	_____
						Custody seals intact?	_____
						VOCs rec'd w/o headspace?	_____
						Proper containers used?	_____
						pH verified-acceptable, excl VOCs?	_____
						Received on time to meet HTs?	_____

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 <i>[Signature]</i>	Trinity	4/18/19	11:13	Esmeralda Gonzalez	Mail Service	4-18-19	11:16
2 <i>[Signature]</i>	Mail Service	4/18/19	2:16	PAUL	Xenco	4/19/19	1:00
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

ORIGIN ID: H08A (515) 392-7550
 ** MAIL SERVICES ETC, LLC
 4008 N GRIMES
 HOBBS, NM 88240
 UNITED STATES US

SHIP DATE: 18APR19
 ACTWGT: 13.00 LB MAN
 CAD: 0909328/CAP3211
 DIMS: 13x11x10 IN
 BILL RECIPIENT

TO XENCO LABORATORIES
 FEDEX EXPRESS SHIP CENTER
 FEDEX EXPRESS SHIP CENTER
 3600 COUNTY ROAD 1276 SOUTH
 MIDLAND TX 79711

DEPT: REF: (432) 563-1800

INVT PO: 4705 2520 6741

TRK# 0201

41 MAFA

FRI - 19 APR HOLD
 STANDARD OVERNIGHT HLD
 MAFA LBB
 TX-US

56110751840

56110751840



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 04/19/2019 12:00:00 PM

Work Order #: 621713

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 04/19/2019

Checklist reviewed by:

Holly Taylor

Date: 04/22/2019