

Trinity Oilfield Services & Rentals, LLC

Remediation Summary & Site Closure Request



Company: OXY USA, Inc. Address: P.O. Box 4294, Houston, TX 77210 Telephone #: (575) 390-2828

Site Name: Red Tank 24 Federal 1 & 2 CTB NMOCD Reference#: 1RP-4762

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: "N" (SE/SW) Section: 24 Township: 22S Range: 32E County: Lea GPS Coordinates: 32.372240 N -103.630760 W

Depth to Ground Water: 435' - 440' Distance to Surface Water Body: ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

Wellhead Protection Area: <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N

NMOCD Ranking Score: 0 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 ☐ 1,000 ☒ 5,000 Chloride: ☐ 250 ☐ 600 ☒ 1,000

Date/Time of Release: 7/16/2017 Type of Release: Produced Water & Crude Oil Approximate Volume of Release: See Below

Background Information:

On July 16, 2017, OXY USA, Inc. (OXY), discovered a release at the Red Tank 24 Federal 1 & 2 Central Tank Battery (CTB). A water dump valve on a heater malfunctioned, causing a storage tank to overflow, and resulting in the release of approximately 4 barrels (bbls) of crude oil and 6 bbls of produced water. The valve was repaired during initial response activities. The release was confined to the earthen containment area surrounding the tank battery and affected an area measuring approximately 1,200 square feet.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office and the United States Department of the Interior - Bureau of Land Management's (BLM) Carlsbad District Office. The NMOCD "Release Notification & Corrective Action" (Form C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix C. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On July 20, 2017, Trinity Oilfield Services & Rentals, LLC (Trinity), advanced two (2) hand-augered boreholes (SP-1 and SP-2) at the site to investigate the vertical extent of impacted soil. The auger holes were advanced to total depths of approximately 1.5 feet below ground surface (bgs). Representative soil samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and/or chloride concentrations using Environmental Protection Agency (EPA) Methods SW 846-8015 Mod, SW 846-8021b, and 300 respectively. Laboratory analytical results and field screens indicated vertical delineation of the release had been achieved.

On October 5, 2017, Trinity commenced excavation activities at the release site. Due to the relatively small size of the containment area, a skidsteer was employed to excavate impacted soil. A chloride test kit and olfactory/visual senses were utilized to guide the excavation. Pursuant to the NMOCD- and BLM-approved "Environmental Site Summary & Spill Remediation Plan", dated August 15, 2017 (henceforth referred to as "Work Plan"), the impacted area was excavated to a total depth of 1 foot bgs. Eight (8) soil samples (North Wall #1, North Wall #2, South Wall #1, South Wall #2, East Wall #1, Floor #1, Floor #2, and Floor #3) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated BTEX and chloride concentrations were below the "Recommended Remediation Action Levels" (RRALs) approved for the site by the NMOCD. However, TPH concentrations exceeded the RRAL in soil samples North Wall #1, North Wall #2, East Wall #1, and Floor #2.

On October 26, 2017, the excavation was advanced in the areas represented by soil samples North Wall #1, North Wall #2, East Wall #1, and Floor #2. Four (4) soil samples (North Wall #1b, North Wall #2b, East Wall #1b, and Floor #2 @ 3') collected from the floor and sidewalls of the excavation were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated TPH, BTEX, and chloride concentrations were below the RRALs approved for the site, with the exception of soil sample Floor #2 @ 3', which exhibited a chloride concentration of 2,150 mg/kg.

Trinity Oilfield Services & Rentals, LLC

Remediation Summary & Site Closure Request



Summary of Field Activities (cont.):

On November 14, 2017, the skidsteer was utilized to advance a delineation trench in the area represented by soil sample Floor #2 @ 3'. The trench was advanced to a total depth of 4 feet bgs. A soil sample (Floor #2 @ 4') was collected from the floor of the trench, field-screened with a chloride test kit, and submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated TPH, BTEX, and chloride concentrations were below the RRALs approved for the site. However, the chloride concentration of 739 mg/kg exceeded the delineation target of 600 mg/kg. Due to safety concerns and the limited capabilities of the skidsteer, additional vertical delineation was deemed impracticable and unsafe without heavy equipment.

On December 29, 2017, a backhoe was utilized to re-enter and advance the delineation trench in the area represented by soil sample Floor #2 @ 4'. The trench was advanced to a total depth of 6 feet bgs. A soil sample (Floor #2 @ 6') was collected from the floor of the trench, field-screened with a chloride test kit, and submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs approved for the site, and vertical delineation of the area had been achieved.

On April 18, 2018, based on laboratory analytical results, the excavation was advanced vertically to 4 feet bgs in the area represented by delineation samples Floor #2 @ 4' and Floor #2 @ 6'. A soil sample (North Wall #3) was collected from the sidewall of the excavation, field-screened with a chloride test kit, and submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs approved for the site, and horizontal delineation of the area had been achieved.

Based on laboratory analytical results, permission to backfill the excavation was obtained from the NMOCD and BLM on June 5 and June 8, 2018, respectively, with the caveat that three (3) additional soil samples would be collected from the sidewalls of the excavation to confirm that horizontal delineation of the release had been achieved.

On June 4, 2018, a soil sample (West Wall #2) was collected from the sidewall of the excavation, field-screened with a chloride test kit, and submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs approved for the site, and horizontal delineation of the western extent of the release had been achieved.

On June 7, 2018, pursuant to NMOCD and BLM request, soil samples were collected from the eastern and western sidewalls of the 4-foot section of the excavation (i.e., the area represented by delineation samples Floor #2 @ 4' and Floor #2 @ 6'). The soil samples were field-screened with a chloride test kit, and a garden spade was utilized to further investigate the extent of impacted soil in the western portion of the section. Two (2) soil samples (East Wall #2 and West Wall #2) were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs approved for the site, and horizontal delineation of the area had been achieved.

On June 22, 2018, the excavation was advanced horizontally to the area represented by soil sample West Wall #2.

From June 25 through 26, 2018, the excavation was backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.

All excavated soil was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. Prior to disposal, the soil was stockpiled on-site on 6-mil plastic to prevent leaching of contaminants into the vadose zone.

The excavation extent and locations of the soil samples, auger holes, and delineation trench are depicted in Figure 2, "Sample Location Map". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D.

Trinity Oilfield Services & Rentals, LLC

Remediation Summary & Site Closure Request



Site Closure Request:

Remediation activities conducted at the Red Tank 24 Federal 1 & 2 CTB release site met the objectives set forth in the "Environmental Site Summary & Spill Remediation Plan" dated August 15, 2017. Confirmation soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory, and concentrations of TPH, BTEX, and chloride were below the recommended remediation action levels approved for the site by the NMOCD. Based on these analytical results, Trinity, on behalf of OXY, hereby requests the NMOCD and BLM grant closure to the Red Tank Federal 1 & 2 CTB release site.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

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

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

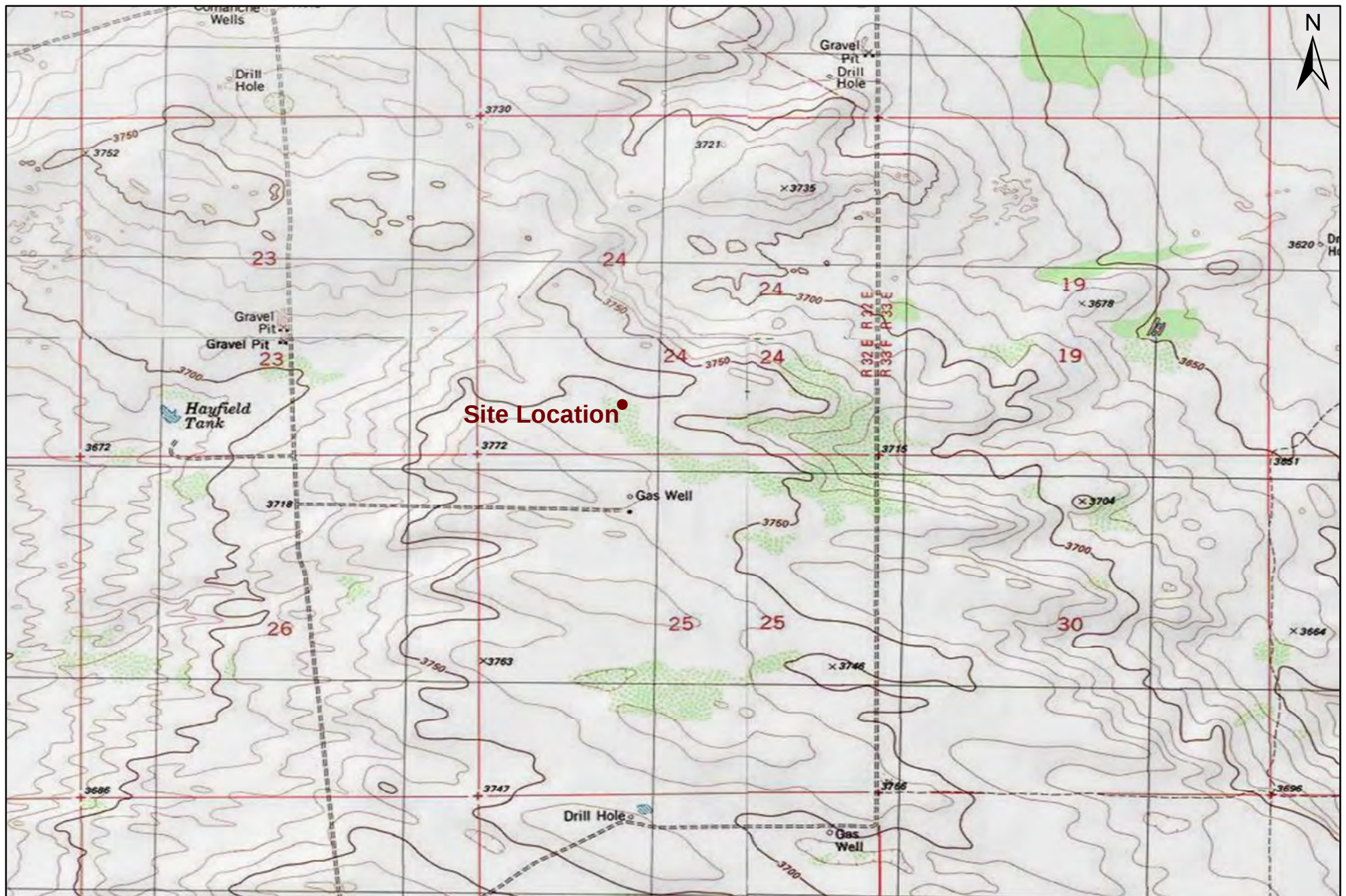
Appendix B: Depth-to-Groundwater Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

 6/28/2018
Ben J. Arguijo
Project Manager

Figures



2,000 1,000 0 2,000
Distance in Feet

Figure 1
Site Location Map
Oxy USA, Inc.
Red Tank 24 Federal 1 & 2 CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4762



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

Drawn By: BJA	Checked By: CTR
August 14, 2017	Scale: 1" = 2,000'



Legend	
 Excavation: 1' bgs	 Auger Hole
 Excavation: 4' bgs	 Sample Location
 Delineation Trench	 Excavated Sample

Figure 2
Sample Location Map
OXY USA, Inc.
Red Tank 24 Federal 1 & 2 CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4762



TRINITY
OILFIELD SERVICES

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

Drawn By: BJA June 28, 2018	Checked By: DLB Scale: 1" = 15'
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Tables

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

OXY USA, INC.
RED TANK 24 FEDERAL 1 & 2 CTB
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4762



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				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 C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	1,000
SP-1 @ 0.5'	0.5'	7/20/2017	Excavated	-	-	-	-	-	-	-	2,340	6,450	<74.9	8,790	3,100
SP-1 @ 1'	1'	7/20/2017	In-Situ	<0.0020	0.0481	0.120	0.406	0.142	0.548	0.716	75.0	360	<15.0	435	756
SP-1 @ 1.5'	1.5'	7/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	0.0067	0.0030	0.0097	0.0097	<15.0	16.3	<15.0	16.3	99.2
SP-2 @ 0.5'	0.5'	7/20/2017	Excavated	-	-	-	-	-	-	-	2,490	6,870	<74.8	9,360	1,580
SP-2 @ 1'	1'	7/20/2017	In-Situ	<0.0020	<0.0020	0.00708	0.0331	0.0132	0.0463	0.0534	19.2	250	<14.9	269	52.8
SP-2 @ 1.5'	1.5'	7/20/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	90.6	<15.0	90.6	<4.96
North Wall #1	1'	10/5/2017	Excavated	-	-	-	-	-	-	-	565	5,180	569	6,310	240
North Wall #2	1'	10/5/2017	Excavated	-	-	-	-	-	-	-	942	4,950	612	6,500	68.3
South Wall #1	1'	10/5/2017	In-Situ	<0.0020	<0.0020	<0.0020	0.0049	0.0154	0.0203	0.0203	<15.0	30.9	<15.0	30.9	11.2
South Wall #2	1'	10/5/2017	In-Situ	<0.0020	0.0255	0.0379	0.102	0.0299	0.132	0.195	39.1	725	92.7	857	127
East Wall #1	1'	10/5/2017	Excavated	-	-	-	-	-	-	-	1,440	6,960	881	9,280	25.1
Floor #1	1'	10/5/2017	In-Situ	<0.0671	0.341	0.958	3.31	1.91	5.22	6.52	165	1,670	223	2,060	155
Floor #2	1'	10/5/2017	Excavated	-	-	-	-	-	-	-	1,530	6,240	759	8,530	20.9
Floor #3	1'	10/5/2017	In-Situ	<0.0036	<0.0036	<0.0036	<0.0073	<0.0036	<0.0036	<0.0036	<15.0	25.0	<15.0	25.0	254
North Wall #1b	1'	10/26/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	120
North Wall #2b	1'	10/26/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	15.8	<15.0	15.8	19.8
East Wall #1b	1'	10/26/2017	In-Situ	<0.0035	<0.0035	<0.0035	<0.0071	<0.0035	<0.0035	<0.0035	<15.0	19.5	<15.0	19.5	14.6
Floor #2 @ 3'	3'	10/26/2017	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	154	16.3	170	2,150
Floor #2 @ 4'	4'	11/14/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0067	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	739
Floor #2 @ 6'	6'	12/29/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	16.2	120	<15.0	136	391
North Wall #3	2.5'	4/18/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	12.2
West Wall #1	1'	6/4/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	267
East Wall #2	2.5'	6/7/2018	In-Situ	<0.0020	<0.0020	0.0069	0.0213	0.0162	0.0375	0.0444	134	4,470	132	4,740	689
West Wall #2	2.5'	6/7/2018	In-Situ	<0.0020	<0.0020	0.0360	0.0427	0.147	0.190	0.226	461	3,860	<74.8	4,320	382

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

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 24 FEDERAL 1 & 2 CTB	Facility Type	BATTERY

Surface Owner	BLM	Mineral Owner	BLM	API No.	
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	24	22S	32E	860	SOUTH	1980	WEST	LEA

Latitude_32.372240__ Longitude_-103.630760__ NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCED WATER	Volume of Release	4 bbls OIL & 6 bbls PRODUCED WATER	Volume Recovered	10 bbls
Source of Release	Water dump valve on heater caused tank to overflow	Date and Hour of Occurrence	07/16/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	OLIVIA YU-NMOCD, SHELLY TUCKER-BLM		
By Whom?	WADE DITTRICH	Date and Hour	07/17/2017 @ 10:37 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 2:21 pm, Jul 24, 2017

Describe Cause of Problem and Remedial Action Taken.*

Water dump valve on heater caused tank to overflow. Valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area of the spill was 20x60 ft, Leak is inside battery berm (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.

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: ENVIROMENTAL COORDINATOR	Approval Date: 7/24/2017	Expiration Date:	
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: see attached directive	Attached ☒	
Date: 7-19-17 Phone: 575-390-2828			

* Attach Additional Sheets If Necessary

1RP-4762

nOY1720630819

fOY1720630422

pOY1720657536

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 628812

Northing (Y): 3582521

Radius: 1610

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/14/17 9:43 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Appendix C

Photographs

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Release (Looking South)



Release (Looking West-Southwest)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Release (Looking Southwest)



Release (Looking East)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Release (Looking Southeast)



Release (Looking Southwest)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Release (Looking Northwest)



Release (Looking West)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Excavation (Looking Southeast)



Excavation (Looking Southwest)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Excavation (Looking Southeast)



Excavation (Looking South-Southeast)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Excavation (Looking South)



Excavation (Looking West-Southwest)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Excavation (Looking West-Northwest)



Backfilled Excavation (Looking West)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Backfilled Excavation (Looking East)



Backfilled Excavation (Looking West)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Backfilled Excavation (Looking South)



Backfilled Excavation (Looking Southeast)

OXY USA, Inc. – Red Tank 24 Federal 1 & 2 CTB
Unit Letter “N” (SE/SW), Section 24, Township 22S, Range 32E



Backfilled Excavation (Looking South-Southwest)



Backfilled Excavation (Looking West-Southwest)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 558340

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed 1 & 2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Jul-24-17 03:30 pm

Report Date: 01-AUG-17

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	558340-001	558340-002	558340-003	558340-004	558340-005	558340-006
	<i>Field Id:</i>	SP-1 @ 0.5'	SP-1 @ 1'	SP-1 @ 1.5'	SP-2 @ 0.5'	SP-2 @ 1'	SP-2 @ 1.5'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-20-17 08:30	Jul-20-17 08:35	Jul-20-17 08:40	Jul-20-17 08:50	Jul-20-17 08:55	Jul-20-17 09:00
BTEX by EPA 8021B	<i>Extracted:</i>		Jul-31-17 08:00	Jul-31-17 08:00		Jul-31-17 08:00	Jul-31-17 14:00
	<i>Analyzed:</i>		Jul-31-17 12:26	Jul-31-17 12:45		Jul-31-17 13:04	Aug-01-17 01:40
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL		mg/kg RL	mg/kg RL
Benzene			<0.00199 0.00199	<0.00200 0.00200		<0.00200 0.00200	<0.00200 0.00200
Toluene			0.0481 0.00199	<0.00200 0.00200		<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene			0.120 0.00199	<0.00200 0.00200		0.00708 0.00200	<0.00200 0.00200
m,p-Xylenes			0.406 0.00398	0.00666 0.00401		0.0331 0.00400	<0.00399 0.00399
o-Xylene			0.142 0.00199	0.00299 0.00200		0.0132 0.00200	<0.00200 0.00200
Total Xylenes			0.548 0.00199	0.00965 0.00200		0.0463 0.00200	<0.00200 0.00200
Total BTEX			0.716 0.00199	0.00965 0.00200		0.0534 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:00	Jul-27-17 15:45	Jul-27-17 15:45
	<i>Analyzed:</i>	Jul-27-17 20:33	Jul-27-17 20:41	Jul-27-17 20:49	Jul-27-17 20:56	Jul-27-17 21:43	Jul-27-17 22:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3100 25.0	756 4.94	99.2 4.98	1580 25.0	52.8 4.99	<4.96 4.96
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00	Jul-27-17 16:00
	<i>Analyzed:</i>	Jul-28-17 09:24	Jul-28-17 09:49	Jul-28-17 10:15	Jul-28-17 11:33	Jul-28-17 12:00	Jul-28-17 12:27
	<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)		2340 74.9	75.0 15.0	<15.0 15.0	2490 74.8	19.2 14.9	<15.0 15.0
Diesel Range Organics (DRO)		6450 74.9	360 15.0	16.3 15.0	6870 74.8	250 14.9	90.6 15.0
Oil Range Hydrocarbons (ORO)		<74.9 74.9	<15.0 15.0	<15.0 15.0	<74.8 74.8	<14.9 14.9	<15.0 15.0
Total TPH		8790 74.9	435 15.0	16.3 15.0	9360 74.8	269 14.9	90.6 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.9%

Holly Taylor
Project Manager

Analytical Report 558340
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 Fed 1 & 2 CTB

01-AUG-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



01-AUG-17

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

Reference: XENCO Report No(s): **558340**
Red Tank 24 Fed 1 & 2 CTB
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) 558340. 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. 558340 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,

Holly Taylor
Project Manager

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



Sample Cross Reference 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 0.5'	S	07-20-17 08:30		558340-001
SP-1 @ 1'	S	07-20-17 08:35		558340-002
SP-1 @ 1.5'	S	07-20-17 08:40		558340-003
SP-2 @ 0.5'	S	07-20-17 08:50		558340-004
SP-2 @ 1'	S	07-20-17 08:55		558340-005
SP-2 @ 1.5'	S	07-20-17 09:00		558340-006



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed 1 & 2 CTB*

Project ID:

Work Order Number(s): 558340

Report Date: 01-AUG-17

Date Received: 07/24/2017

Sample receipt non conformances and comments:

HOLD BTEX UNLESS TPH $\leq$ 5,000 on each sample

Per Ben on 7-27-17 to Brandi add TPH 8015 N.M. method.

Took BTEX samples 002, 003, 005, 006 off hold since TPH was $\leq$ 5,000 BAR 7/28/17 17:40

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3023655 BTEX by EPA 8021B

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

Batch: LBA-3023672 BTEX by EPA 8021B

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



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 0.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-001

Date Collected: 07.20.17 08.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3100	25.0	mg/kg	07.27.17 20.33		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2340	74.9	mg/kg	07.28.17 09.24		5
Diesel Range Organics (DRO)	C10C28DRO	6450	74.9	mg/kg	07.28.17 09.24		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.9	74.9	mg/kg	07.28.17 09.24	U	5
Total TPH	PHC635	8790	74.9	mg/kg	07.28.17 09.24		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	07.28.17 09.24	
o-Terphenyl	84-15-1	113	%	70-135	07.28.17 09.24	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1'**
Lab Sample Id: 558340-002

Matrix: Soil
Date Collected: 07.20.17 08.35

Date Received: 07.24.17 15.30

Analytical Method: Chloride by EPA 300

Tech: MGO

Analyst: MGO

Seq Number: 3023433

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 07.27.17 15.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	756	4.94	mg/kg	07.27.17 20.41		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3023438

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 07.27.17 16.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	75.0	15.0	mg/kg	07.28.17 09.49		1
Diesel Range Organics (DRO)	C10C28DRO	360	15.0	mg/kg	07.28.17 09.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 09.49	U	1
Total TPH	PHC635	435	15.0	mg/kg	07.28.17 09.49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	07.28.17 09.49		
o-Terphenyl	84-15-1	113	%	70-135	07.28.17 09.49		



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-002

Date Collected: 07.20.17 08.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.17 12.26	U	1
Toluene	108-88-3	0.0481	0.00199	mg/kg	07.31.17 12.26		1
Ethylbenzene	100-41-4	0.120	0.00199	mg/kg	07.31.17 12.26		1
m,p-Xylenes	179601-23-1	0.406	0.00398	mg/kg	07.31.17 12.26		1
o-Xylene	95-47-6	0.142	0.00199	mg/kg	07.31.17 12.26		1
Total Xylenes	1330-20-7	0.548	0.00199	mg/kg	07.31.17 12.26		1
Total BTEX		0.716	0.00199	mg/kg	07.31.17 12.26		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92		%	80-120	07.31.17 12.26	
4-Bromofluorobenzene	460-00-4	97		%	80-120	07.31.17 12.26	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-003

Date Collected: 07.20.17 08.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.2	4.98	mg/kg	07.27.17 20.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.28.17 10.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	16.3	15.0	mg/kg	07.28.17 10.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 10.15	U	1
Total TPH	PHC635	16.3	15.0	mg/kg	07.28.17 10.15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	07.28.17 10.15	
o-Terphenyl	84-15-1	105	%	70-135	07.28.17 10.15	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-1 @ 1.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-003

Date Collected: 07.20.17 08.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.17 12.45	U	1
m,p-Xylenes	179601-23-1	0.00666	0.00401	mg/kg	07.31.17 12.45		1
o-Xylene	95-47-6	0.00299	0.00200	mg/kg	07.31.17 12.45		1
Total Xylenes	1330-20-7	0.00965	0.00200	mg/kg	07.31.17 12.45		1
Total BTEX		0.00965	0.00200	mg/kg	07.31.17 12.45		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98		%	80-120	07.31.17 12.45	
4-Bromofluorobenzene	460-00-4	115		%	80-120	07.31.17 12.45	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 0.5'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-004

Date Collected: 07.20.17 08.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.00

Basis: Wet Weight

Seq Number: 3023433

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1580	25.0	mg/kg	07.27.17 20.56		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2490	74.8	mg/kg	07.28.17 11.33		5
Diesel Range Organics (DRO)	C10C28DRO	6870	74.8	mg/kg	07.28.17 11.33		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.8	74.8	mg/kg	07.28.17 11.33	U	5
Total TPH	PHC635	9360	74.8	mg/kg	07.28.17 11.33		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	07.28.17 11.33	
o-Terphenyl	84-15-1	122	%	70-135	07.28.17 11.33	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1'**
Lab Sample Id: 558340-005

Matrix: Soil
Date Collected: 07.20.17 08.55

Date Received: 07.24.17 15.30

Analytical Method: Chloride by EPA 300
Tech: MGO
Analyst: MGO
Seq Number: 3023436

Prep Method: E300P
% Moisture:
Date Prep: 07.27.17 15.45
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.8	4.99	mg/kg	07.27.17 21.43		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3023438

Prep Method: TX1005P
% Moisture:
Date Prep: 07.27.17 16.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.2	14.9	mg/kg	07.28.17 12.00		1
Diesel Range Organics (DRO)	C10C28DRO	250	14.9	mg/kg	07.28.17 12.00		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.28.17 12.00	U	1
Total TPH	PHC635	269	14.9	mg/kg	07.28.17 12.00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	07.28.17 12.00		
o-Terphenyl	84-15-1	112	%	70-135	07.28.17 12.00		



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: **SP-2 @ 1'**

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-005

Date Collected: 07.20.17 08.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 08.00

Basis: Wet Weight

Seq Number: 3023655

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.17 13.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.17 13.04	U	1
Ethylbenzene	100-41-4	0.00708	0.00200	mg/kg	07.31.17 13.04		1
m,p-Xylenes	179601-23-1	0.0331	0.00400	mg/kg	07.31.17 13.04		1
o-Xylene	95-47-6	0.0132	0.00200	mg/kg	07.31.17 13.04		1
Total Xylenes	1330-20-7	0.0463	0.00200	mg/kg	07.31.17 13.04		1
Total BTEX		0.0534	0.00200	mg/kg	07.31.17 13.04		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95		%	80-120	07.31.17 13.04	
4-Bromofluorobenzene	460-00-4	118		%	80-120	07.31.17 13.04	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: SP-2 @ 1.5'

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-006

Date Collected: 07.20.17 09.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 07.27.17 15.45

Basis: Wet Weight

Seq Number: 3023436

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	07.27.17 22.06	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 07.27.17 16.00

Basis: Wet Weight

Seq Number: 3023438

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.28.17 12.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	90.6	15.0	mg/kg	07.28.17 12.27		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.28.17 12.27	U	1
Total TPH	PHC635	90.6	15.0	mg/kg	07.28.17 12.27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	07.28.17 12.27	
o-Terphenyl	84-15-1	109	%	70-135	07.28.17 12.27	



Certificate of Analytical Results 558340



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1 & 2 CTB

Sample Id: SP-2 @ 1.5'

Matrix: Soil

Date Received: 07.24.17 15.30

Lab Sample Id: 558340-006

Date Collected: 07.20.17 09.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.31.17 14.00

Basis: Wet Weight

Seq Number: 3023672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.01.17 01.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.17 01.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	80-120	08.01.17 01.40		
4-Bromofluorobenzene	460-00-4	105	%	80-120	08.01.17 01.40		

- 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

+ NELAC certification not offered for this compound.

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

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(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed 1 & 2 CTB**Analytical Method: Chloride by EPA 300**

Seq Number: 3023433

MB Sample Id: 728362-1-BLK

Matrix: Solid

LCS Sample Id: 728362-1-BKS

Prep Method: E300P

Date Prep: 07.27.17

LCSD Sample Id: 728362-1-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	249	100	247	99	90-110	1	20	mg/kg	07.27.17 17:14	

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

MB Sample Id: 728364-1-BLK

Matrix: Solid

LCS Sample Id: 728364-1-BKS

Prep Method: E300P

Date Prep: 07.27.17

LCSD Sample Id: 728364-1-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	248	99	251	100	90-110	1	20	mg/kg	07.27.17 21:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3023433

Parent Sample Id: 558057-001

Matrix: Soil

MS Sample Id: 558057-001 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558057-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	342	250	577	94	582	96	90-110	1	20	mg/kg	07.27.17 17:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3023433

Parent Sample Id: 558337-005

Matrix: Soil

MS Sample Id: 558337-005 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558337-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1080	248	1280	81	1280	81	90-110	0	20	mg/kg	07.27.17 19:24	X

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

Parent Sample Id: 558340-005

Matrix: Soil

MS Sample Id: 558340-005 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558340-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.8	250	305	101	314	104	90-110	3	20	mg/kg	07.27.17 21:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3023436

Parent Sample Id: 558546-004

Matrix: Soil

MS Sample Id: 558546-004 S

Prep Method: E300P

Date Prep: 07.27.17

MSD Sample Id: 558546-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.6	247	266	102	266	102	90-110	0	20	mg/kg	07.27.17 23:38	



QC Summary 558340

Trinity Oilfield Services & Rentals, LLC Red Tank 24 Fed 1 & 2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3023438

MB Sample Id: 728359-1-BLK

Matrix: Solid

LCS Sample Id: 728359-1-BKS

Prep Method: TX1005P

Date Prep: 07.27.17

LCSD Sample Id: 728359-1-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)	<15.0	1000	930	93	939	94	70-135	1	35	mg/kg	07.28.17 08:32	
Diesel Range Organics (DRO)	<15.0	1000	986	99	998	100	70-135	1	35	mg/kg	07.28.17 08:32	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	97		117		116		70-135	%	07.28.17 08:32			
o-Terphenyl	117		129		126		70-135	%	07.28.17 08:32			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3023438

Parent Sample Id: 558340-003

Matrix: Soil

MS Sample Id: 558340-003 S

Prep Method: TX1005P

Date Prep: 07.27.17

MSD Sample Id: 558340-003 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)	<15.0	997	978	98	965	97	70-135	1	35	mg/kg	07.28.17 10:41	
Diesel Range Organics (DRO)	16.3	997	1040	103	1040	102	70-135	0	35	mg/kg	07.28.17 10:41	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			122		120		70-135	%	07.28.17 10:41			
o-Terphenyl			127		128		70-135	%	07.28.17 10:41			

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023655

MB Sample Id: 728518-1-BLK

Matrix: Solid

LCS Sample Id: 728518-1-BKS

Prep Method: SW5030B

Date Prep: 07.31.17

LCSD Sample Id: 728518-1-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	0.0959	96	0.102	102	70-130	6	35	mg/kg	07.31.17 08:39	
Toluene	<0.00200	0.100	0.0989	99	0.105	105	70-130	6	35	mg/kg	07.31.17 08:39	
Ethylbenzene	<0.00200	0.100	0.104	104	0.111	111	71-129	7	35	mg/kg	07.31.17 08:39	
m,p-Xylenes	<0.00401	0.200	0.203	102	0.215	108	70-135	6	35	mg/kg	07.31.17 08:39	
o-Xylene	<0.00200	0.100	0.102	102	0.108	108	71-133	6	35	mg/kg	07.31.17 08:39	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene	100		103		106		80-120	%	07.31.17 08:39			
4-Bromofluorobenzene	106		110		113		80-120	%	07.31.17 08:39			

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed 1 & 2 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023672

MB Sample Id: 728520-1-BLK

Matrix: Solid

LCS Sample Id: 728520-1-BKS

Prep Method: SW5030B

Date Prep: 07.31.17

LCSD Sample Id: 728520-1-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	0.0970	97	0.0959	95	70-130	1	35	mg/kg	07.31.17 20:59	
Toluene	<0.00200	0.100	0.100	100	0.0986	98	70-130	1	35	mg/kg	07.31.17 20:59	
Ethylbenzene	<0.00200	0.100	0.107	107	0.105	104	71-129	2	35	mg/kg	07.31.17 20:59	
m,p-Xylenes	<0.00401	0.200	0.208	104	0.205	101	70-135	1	35	mg/kg	07.31.17 20:59	
o-Xylene	<0.00200	0.100	0.107	107	0.106	105	71-133	1	35	mg/kg	07.31.17 20:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		104		104		80-120	%	07.31.17 20:59
4-Bromofluorobenzene	104		113		113		80-120	%	07.31.17 20:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023655

Parent Sample Id: 558757-011

Matrix: Soil

MS Sample Id: 558757-011 S

Prep Method: SW5030B

Date Prep: 07.31.17

MSD Sample Id: 558757-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0503	50	0.0413	41	70-130	20	35	mg/kg	07.31.17 16:36	X
Toluene	<0.00202	0.101	0.0426	42	0.0337	33	70-130	23	35	mg/kg	07.31.17 16:36	X
Ethylbenzene	<0.00202	0.101	0.0352	35	0.0260	26	71-129	30	35	mg/kg	07.31.17 16:36	X
m,p-Xylenes	<0.00404	0.202	0.0675	33	0.0499	25	70-135	30	35	mg/kg	07.31.17 16:36	X
o-Xylene	<0.00202	0.101	0.0369	37	0.0275	27	71-133	29	35	mg/kg	07.31.17 16:36	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		80-120	%	07.31.17 16:36
4-Bromofluorobenzene	114		112		80-120	%	07.31.17 16:36

Analytical Method: BTEX by EPA 8021B

Seq Number: 3023672

Parent Sample Id: 558748-002

Matrix: Soil

MS Sample Id: 558748-002 S

Prep Method: SW5030B

Date Prep: 07.31.17

MSD Sample Id: 558748-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0800	80	0.0831	83	70-130	4	35	mg/kg	07.31.17 21:36	
Toluene	<0.00199	0.0996	0.0797	80	0.0814	81	70-130	2	35	mg/kg	07.31.17 21:36	
Ethylbenzene	<0.00199	0.0996	0.0796	80	0.0762	76	71-129	4	35	mg/kg	07.31.17 21:36	
m,p-Xylenes	<0.00398	0.199	0.154	77	0.146	73	70-135	5	35	mg/kg	07.31.17 21:36	
o-Xylene	<0.00199	0.0996	0.0802	81	0.0766	77	71-133	5	35	mg/kg	07.31.17 21:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		80-120	%	07.31.17 21:36
4-Bromofluorobenzene	118		120		80-120	%	07.31.17 21:36



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 07/24/2017 03:30:00 PM

Work Order #: 558340

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)?	.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	N/A
#21 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: Jessica Kramer
Jessica Kramer

Date: 07/25/2017

Checklist reviewed by: Brandi Ritcherson
Brandi Ritcherson

Date: 07/25/2017



Certificate of Analysis Summary 564999

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed 1&2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 17-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	564999-001	564999-002	564999-003	564999-004	564999-005	564999-006
	Field Id:	Floor #1 @ 1'	North Wall #1 @ 1'	East Wall @ 1'	Floor #2 @ 1'	South Wall #1 @ 1'	South Wall #2 @ 1'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-05-17 11:09	Oct-05-17 11:20	Oct-05-17 11:36	Oct-05-17 12:05	Oct-05-17 12:23	Oct-05-17 12:38
BTEX by EPA 8021B	Extracted:	Oct-10-17 08:15				Oct-10-17 08:15	Oct-10-17 08:15
	Analyzed:	Oct-10-17 17:06				Oct-10-17 16:28	Oct-10-17 16:47
	Units/RL:	mg/kg RL				mg/kg RL	mg/kg RL
Benzene		<0.0671 0.0671				<0.00201 0.00201	<0.00200 0.00200
Toluene		0.341 0.0671				<0.00201 0.00201	0.0255 0.00200
Ethylbenzene		0.958 0.0671				<0.00201 0.00201	0.0379 0.00200
m,p-Xylenes		3.31 0.134				0.00487 0.00402	0.102 0.00399
o-Xylene		1.91 0.0671				0.0154 0.00201	0.0299 0.00200
Total Xylenes		5.22 0.0671				0.0203 0.00201	0.132 0.00200
Total BTEX		6.52 0.0671				0.0203 0.00201	0.195 0.00200
Chloride by EPA 300	Extracted:	Oct-10-17 10:45	Oct-10-17 10:45	Oct-10-17 10:45	Oct-10-17 10:45	Oct-10-17 10:45	Oct-10-17 10:45
	Analyzed:	Oct-10-17 13:10	Oct-10-17 13:18	Oct-10-17 13:26	Oct-10-17 13:33	Oct-10-17 13:41	Oct-10-17 13:49
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		155 4.99	240 4.98	25.1 5.00	20.9 4.97	11.2 4.92	127 4.93
TPH By SW8015 Mod	Extracted:	Oct-09-17 14:00	Oct-09-17 14:00	Oct-09-17 14:00	Oct-09-17 14:00	Oct-09-17 14:00	Oct-09-17 14:00
	Analyzed:	Oct-10-17 09:24	Oct-10-17 10:05	Oct-10-17 11:04	Oct-10-17 11:24	Oct-10-17 11:43	Oct-10-17 12:02
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		165 15.0	565 74.7	1440 74.9	1530 74.9	<15.0 15.0	39.1 15.0
Diesel Range Organics (DRO)		1670 15.0	5180 74.7	6960 74.9	6240 74.9	30.9 15.0	725 15.0
Oil Range Hydrocarbons (ORO)		223 15.0	569 74.7	881 74.9	759 74.9	<15.0 15.0	92.7 15.0
Total TPH		2060 15.0	6310 74.7	9280 74.9	8530 74.9	30.9 15.0	857 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager



Certificate of Analysis Summary 564999

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed 1&2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Fri Oct-06-17 03:41 pm

Report Date: 17-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	564999-007	564999-008				
	Field Id:	North Wall #2 @ 1'	Floor #3 @ 1'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Oct-05-17 13:48	Oct-05-17 13:53				
BTEX by EPA 8021B	Extracted:		Oct-10-17 08:15				
	Analyzed:		Oct-10-17 18:02				
	Units/RL:		mg/kg RL				
Benzene			<0.00364 0.00364				
Toluene			<0.00364 0.00364				
Ethylbenzene			<0.00364 0.00364				
m,p-Xylenes			<0.00727 0.00727				
o-Xylene			<0.00364 0.00364				
Total Xylenes			<0.00364 0.00364				
Total BTEX			<0.00364 0.00364				
Chloride by EPA 300	Extracted:	Oct-10-17 10:45	Oct-10-17 10:45				
	Analyzed:	Oct-10-17 14:12	Oct-10-17 14:19				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		68.3 4.94	254 4.99				
TPH By SW8015 Mod	Extracted:	Oct-09-17 14:00	Oct-09-17 14:00				
	Analyzed:	Oct-10-17 12:22	Oct-10-17 12:42				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		942 74.8	<15.0 15.0				
Diesel Range Organics (DRO)		4950 74.8	25.0 15.0				
Oil Range Hydrocarbons (ORO)		612 74.8	<15.0 15.0				
Total TPH		6500 74.8	25.0 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 564999
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 Fed 1&2 CTB

17-OCT-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



17-OCT-17

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

Reference: XENCO Report No(s): **564999**
Red Tank 24 Fed 1&2 CTB
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) 564999. 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. 564999 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,

Holly Taylor
Project Manager

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Sample Cross Reference 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor #1 @ 1'	S	10-05-17 11:09		564999-001
North Wall #1 @ 1'	S	10-05-17 11:20		564999-002
East Wall @ 1'	S	10-05-17 11:36		564999-003
Floor #2 @ 1'	S	10-05-17 12:05		564999-004
South Wall #1 @ 1'	S	10-05-17 12:23		564999-005
South Wall #2 @ 1'	S	10-05-17 12:38		564999-006
North Wall #2 @ 1'	S	10-05-17 13:48		564999-007
Floor #3 @ 1'	S	10-05-17 13:53		564999-008



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed 1&2 CTB*

Project ID:

Work Order Number(s): 564999

Report Date: 17-OCT-17

Date Received: 10/06/2017

Sample receipt non conformances and comments:

10/12/17 Analyze samples 001, 005, 006, and 008 for BTEX per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3029988 BTEX by EPA 8021B

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



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **Floor #1 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-001

Date Collected: 10.05.17 11.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	155	4.99	mg/kg	10.10.17 13.10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	165	15.0	mg/kg	10.10.17 09.24		1
Diesel Range Organics (DRO)	C10C28DRO	1670	15.0	mg/kg	10.10.17 09.24		1
Oil Range Hydrocarbons (ORO)	PHCG2835	223	15.0	mg/kg	10.10.17 09.24		1
Total TPH	PHC635	2060	15.0	mg/kg	10.10.17 09.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.10.17 09.24	
o-Terphenyl	84-15-1	81	%	70-135	10.10.17 09.24	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **Floor #1 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-001

Date Collected: 10.05.17 11.09

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.10.17 08.15

Basis: Wet Weight

Seq Number: 3029988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0671	0.0671	mg/kg	10.10.17 17.06	U	20
Toluene	108-88-3	0.341	0.0671	mg/kg	10.10.17 17.06		20
Ethylbenzene	100-41-4	0.958	0.0671	mg/kg	10.10.17 17.06		20
m,p-Xylenes	179601-23-1	3.31	0.134	mg/kg	10.10.17 17.06		20
o-Xylene	95-47-6	1.91	0.0671	mg/kg	10.10.17 17.06		20
Total Xylenes	1330-20-7	5.22	0.0671	mg/kg	10.10.17 17.06		20
Total BTEX		6.52	0.0671	mg/kg	10.10.17 17.06		20
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117		%	80-120	10.10.17 17.06	
1,4-Difluorobenzene	540-36-3	89		%	80-120	10.10.17 17.06	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **North Wall #1 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-002

Date Collected: 10.05.17 11.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	240	4.98	mg/kg	10.10.17 13.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	565	74.7	mg/kg	10.10.17 10.05		5
Diesel Range Organics (DRO)	C10C28DRO	5180	74.7	mg/kg	10.10.17 10.05		5
Oil Range Hydrocarbons (ORO)	PHCG2835	569	74.7	mg/kg	10.10.17 10.05		5
Total TPH	PHC635	6310	74.7	mg/kg	10.10.17 10.05		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.10.17 10.05	
o-Terphenyl	84-15-1	97	%	70-135	10.10.17 10.05	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **East Wall @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-003

Date Collected: 10.05.17 11.36

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.1	5.00	mg/kg	10.10.17 13.26		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1440	74.9	mg/kg	10.10.17 11.04		5
Diesel Range Organics (DRO)	C10C28DRO	6960	74.9	mg/kg	10.10.17 11.04		5
Oil Range Hydrocarbons (ORO)	PHCG2835	881	74.9	mg/kg	10.10.17 11.04		5
Total TPH	PHC635	9280	74.9	mg/kg	10.10.17 11.04		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	10.10.17 11.04	
o-Terphenyl	84-15-1	96	%	70-135	10.10.17 11.04	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **Floor #2 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-004

Date Collected: 10.05.17 12.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.9	4.97	mg/kg	10.10.17 13.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1530	74.9	mg/kg	10.10.17 11.24		5
Diesel Range Organics (DRO)	C10C28DRO	6240	74.9	mg/kg	10.10.17 11.24		5
Oil Range Hydrocarbons (ORO)	PHCG2835	759	74.9	mg/kg	10.10.17 11.24		5
Total TPH	PHC635	8530	74.9	mg/kg	10.10.17 11.24		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.10.17 11.24	
o-Terphenyl	84-15-1	86	%	70-135	10.10.17 11.24	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **South Wall #1 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-005

Date Collected: 10.05.17 12.23

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	4.92	mg/kg	10.10.17 13.41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 11.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	30.9	15.0	mg/kg	10.10.17 11.43		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 11.43	U	1
Total TPH	PHC635	30.9	15.0	mg/kg	10.10.17 11.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.10.17 11.43	
o-Terphenyl	84-15-1	108	%	70-135	10.10.17 11.43	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **South Wall #1 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-005

Date Collected: 10.05.17 12.23

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.10.17 08.15

Basis: Wet Weight

Seq Number: 3029988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.10.17 16.28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.10.17 16.28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.10.17 16.28	U	1
m,p-Xylenes	179601-23-1	0.00487	0.00402	mg/kg	10.10.17 16.28		1
o-Xylene	95-47-6	0.0154	0.00201	mg/kg	10.10.17 16.28		1
Total Xylenes	1330-20-7	0.0203	0.00201	mg/kg	10.10.17 16.28		1
Total BTEX		0.0203	0.00201	mg/kg	10.10.17 16.28		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89		%	80-120	10.10.17 16.28	
4-Bromofluorobenzene	460-00-4	89		%	80-120	10.10.17 16.28	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **South Wall #2 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-006

Date Collected: 10.05.17 12.38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	127	4.93	mg/kg	10.10.17 13.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	39.1	15.0	mg/kg	10.10.17 12.02		1
Diesel Range Organics (DRO)	C10C28DRO	725	15.0	mg/kg	10.10.17 12.02		1
Oil Range Hydrocarbons (ORO)	PHCG2835	92.7	15.0	mg/kg	10.10.17 12.02		1
Total TPH	PHC635	857	15.0	mg/kg	10.10.17 12.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.10.17 12.02	
o-Terphenyl	84-15-1	94	%	70-135	10.10.17 12.02	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **South Wall #2 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-006

Date Collected: 10.05.17 12.38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.10.17 08.15

Basis: Wet Weight

Seq Number: 3029988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.10.17 16.47	U	1
Toluene	108-88-3	0.0255	0.00200	mg/kg	10.10.17 16.47		1
Ethylbenzene	100-41-4	0.0379	0.00200	mg/kg	10.10.17 16.47		1
m,p-Xylenes	179601-23-1	0.102	0.00399	mg/kg	10.10.17 16.47		1
o-Xylene	95-47-6	0.0299	0.00200	mg/kg	10.10.17 16.47		1
Total Xylenes	1330-20-7	0.132	0.00200	mg/kg	10.10.17 16.47		1
Total BTEX		0.195	0.00200	mg/kg	10.10.17 16.47		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89		%	80-120	10.10.17 16.47	
1,4-Difluorobenzene	540-36-3	94		%	80-120	10.10.17 16.47	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **North Wall #2 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-007

Date Collected: 10.05.17 13.48

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	68.3	4.94	mg/kg	10.10.17 14.12		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	942	74.8	mg/kg	10.10.17 12.22		5
Diesel Range Organics (DRO)	C10C28DRO	4950	74.8	mg/kg	10.10.17 12.22		5
Oil Range Hydrocarbons (ORO)	PHCG2835	612	74.8	mg/kg	10.10.17 12.22		5
Total TPH	PHC635	6500	74.8	mg/kg	10.10.17 12.22		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.10.17 12.22	
o-Terphenyl	84-15-1	93	%	70-135	10.10.17 12.22	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **Floor #3 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-008

Date Collected: 10.05.17 13.53

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 10.10.17 10.45

Basis: Wet Weight

Seq Number: 3030043

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	254	4.99	mg/kg	10.10.17 14.19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 10.09.17 14.00

Basis: Wet Weight

Seq Number: 3030023

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.10.17 12.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	25.0	15.0	mg/kg	10.10.17 12.42		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	10.10.17 12.42	U	1
Total TPH	PHC635	25.0	15.0	mg/kg	10.10.17 12.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.10.17 12.42	
o-Terphenyl	84-15-1	97	%	70-135	10.10.17 12.42	



Certificate of Analytical Results 564999



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed 1&2 CTB

Sample Id: **Floor #3 @ 1'**

Matrix: Soil

Date Received: 10.06.17 15.41

Lab Sample Id: 564999-008

Date Collected: 10.05.17 13.53

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.10.17 08.15

Basis: Wet Weight

Seq Number: 3029988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
Toluene	108-88-3	<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
Ethylbenzene	100-41-4	<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
m,p-Xylenes	179601-23-1	<0.00727	0.00727	mg/kg	10.10.17 18.02	U	1
o-Xylene	95-47-6	<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
Total Xylenes	1330-20-7	<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
Total BTEX		<0.00364	0.00364	mg/kg	10.10.17 18.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	10.10.17 18.02		
4-Bromofluorobenzene	460-00-4	96	%	80-120	10.10.17 18.02		

- 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 **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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QC Summary 564999

Trinity Oilfield Services & Rentals, LLC Red Tank 24 Fed 1&2 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3030043

MB Sample Id: 7632387-1-BLK

Matrix: Solid

LCS Sample Id: 7632387-1-BKS

Prep Method: E300P

Date Prep: 10.10.17

LCSD Sample Id: 7632387-1-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	246	98	245	98	90-110	0	20	mg/kg	10.10.17 11:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3030043

Parent Sample Id: 564999-006

Matrix: Soil

MS Sample Id: 564999-006 S

Prep Method: E300P

Date Prep: 10.10.17

MSD Sample Id: 564999-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	127	247	374	100	373	100	90-110	0	20	mg/kg	10.10.17 13:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3030043

Parent Sample Id: 565093-001

Matrix: Soil

MS Sample Id: 565093-001 S

Prep Method: E300P

Date Prep: 10.10.17

MSD Sample Id: 565093-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.4	255	272	101	274	102	90-110	1	20	mg/kg	10.10.17 12:09	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030023

MB Sample Id: 7632366-1-BLK

Matrix: Solid

LCS Sample Id: 7632366-1-BKS

Prep Method: TX1005P

Date Prep: 10.09.17

LCSD Sample Id: 7632366-1-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)	<15.0	1000	1030	103	972	97	70-135	6	35	mg/kg	10.09.17 23:49	
Diesel Range Organics (DRO)	<15.0	1000	1130	113	1120	112	70-135	1	35	mg/kg	10.09.17 23:49	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		109		106		70-135	%	10.09.17 23:49
o-Terphenyl	108		104		105		70-135	%	10.09.17 23:49

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed 1&2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030023

Parent Sample Id: 564893-001

Matrix: Soil

MS Sample Id: 564893-001 S

Prep Method: TX1005P

Date Prep: 10.09.17

MSD Sample Id: 564893-001 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)	<15.0	1000	951	95	965	97	70-135	1	35	mg/kg	10.10.17 00:50	
Diesel Range Organics (DRO)	236	1000	1240	100	1190	96	70-135	4	35	mg/kg	10.10.17 00:50	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		103		70-135	%	10.10.17 00:50
o-Terphenyl	99		100		70-135	%	10.10.17 00:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029988

MB Sample Id: 7632378-1-BLK

Matrix: Solid

LCS Sample Id: 7632378-1-BKS

Prep Method: SW5035

Date Prep: 10.10.17

LCSD Sample Id: 7632378-1-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	0.113	113	0.115	114	70-130	2	35	mg/kg	10.10.17 09:25	
Toluene	<0.00200	0.100	0.109	109	0.110	109	70-130	1	35	mg/kg	10.10.17 09:25	
Ethylbenzene	<0.00200	0.100	0.112	112	0.113	112	71-129	1	35	mg/kg	10.10.17 09:25	
m,p-Xylenes	<0.00401	0.200	0.215	108	0.217	107	70-135	1	35	mg/kg	10.10.17 09:25	
o-Xylene	<0.00200	0.100	0.105	105	0.106	105	71-133	1	35	mg/kg	10.10.17 09:25	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		92		92		80-120	%	10.10.17 09:25
4-Bromofluorobenzene	88		96		97		80-120	%	10.10.17 09:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029988

Parent Sample Id: 565094-001

Matrix: Soil

MS Sample Id: 565094-001 S

Prep Method: SW5035

Date Prep: 10.10.17

MSD Sample Id: 565094-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00211	0.106	0.101	95	0.104	98	70-130	3	35	mg/kg	10.10.17 10:03	
Toluene	<0.00211	0.106	0.0950	90	0.0977	92	70-130	3	35	mg/kg	10.10.17 10:03	
Ethylbenzene	<0.00211	0.106	0.0946	89	0.0973	92	71-129	3	35	mg/kg	10.10.17 10:03	
m,p-Xylenes	<0.00423	0.211	0.182	86	0.186	88	70-135	2	35	mg/kg	10.10.17 10:03	
o-Xylene	<0.00211	0.106	0.0897	85	0.0922	87	71-133	3	35	mg/kg	10.10.17 10:03	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		93		80-120	%	10.10.17 10:03
4-Bromofluorobenzene	96		98		80-120	%	10.10.17 10:03



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbrier Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
T0000-C

Page 1 of 1

LAB W.O #:

Field billable Hrs :

564999

* 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
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 C.
B. HNO₃ F. MeOH J. MCAA
H₂SO₄ G. Na₂S₂O₅ 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

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 24 Fed. 1 & 2 CTB	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	
Sampler Name:	Duskie Bennett	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	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL on Highest TPH)	Run PAH Only
								# Cont	Lab Only:				
1	Floor #1 @ 1'	10/5/17	1109	S			1	X					
2	North Wall #1 @ 1'	10/5/17	1120	S			1	X					
3	East Wall @ 1'	10/5/17	1136	S			1	X					
4	Floor #2 @ 1'	10/5/17	1205	S			1	X					
5	South Wall #1 @ 1'	10/5/17	1223	S			1	X					
6	South Wall #2 @ 1'	10/5/17	1238	S			1	X					
7	North Wall #2 @ 1'	10/5/17	1348	S			1	X					
8	Floor #3 @ 1'	10/5/17	1353	S			1	X					
9													
0													

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

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

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	10.6 2 3	Non-Conformances found?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 Duskie Bennett	Trinity	10/6/17	1539	Wade	N/S Hobbs	10-6-17	1541
2				Wade	Xenco	10-7-17	1300
3							
4							

REMARKS
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000
Run BTEX if TPH <= 5,000

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 602-437-0334

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-5

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 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

Temp: 2.2
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2

IR ID: R-8

days, and all past due amounts



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 10/06/2017 03:41:00 PM

Work Order #: 564999

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)?	.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:

Connie Hernandez

Date: 10/09/2017

Checklist reviewed by:

Holly Taylor

Date: 10/10/2017



Certificate of Analysis Summary 566985

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 CTB 1 & 2



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs

Date Received in Lab: Mon Oct-30-17 02:56 pm

Report Date: 10-NOV-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	566985-001	566985-002	566985-003	566985-004		
	Field Id:	East Wall b	North Wall #1b	Floor #2 @ 3'	North Wall #2b		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Oct-26-17 12:47	Oct-26-17 12:59	Oct-26-17 13:35	Oct-26-17 14:05		
BTEX by EPA 8021B	Extracted:	Nov-09-17 08:00	Nov-09-17 08:00	Nov-09-17 08:00	Nov-09-17 08:00		
	Analyzed:	Nov-09-17 15:58	Nov-09-17 16:16	Nov-09-17 15:20	Nov-09-17 15:39		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
Toluene		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
Ethylbenzene		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
m,p-Xylenes		<0.00707 0.00707	<0.00678 0.00678	<0.00402 0.00402	<0.00403 0.00403		
o-Xylene		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
Total Xylenes		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
Total BTEX		<0.00353 0.00353	<0.00339 0.00339	<0.00201 0.00201	<0.00202 0.00202		
Chloride by EPA 300	Extracted:	Nov-07-17 09:00	Nov-07-17 09:00	Nov-07-17 09:00	Nov-07-17 09:00		
	Analyzed:	Nov-07-17 10:30	Nov-07-17 10:49	Nov-07-17 10:55	Nov-07-17 11:02		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		14.6 4.96	120 4.90	2150 24.7	19.8 4.94		
TPH By SW8015 Mod	Extracted:	Nov-02-17 07:00	Nov-02-17 07:00	Nov-02-17 07:00	Nov-02-17 07:00		
	Analyzed:	Nov-02-17 10:54	Nov-02-17 11:14	Nov-02-17 11:34	Nov-02-17 11:54		
	Units/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		
Diesel Range Organics (DRO)		19.5 15.0	<15.0 15.0	154 15.0	15.8 15.0		
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	16.3 15.0	<15.0 15.0		
Total TPH		19.5 15.0	<15.0 15.0	170 15.0	15.8 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 566985
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 CTB 1 & 2

10-NOV-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



10-NOV-17

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

Reference: XENCO Report No(s): **566985**
Red Tank 24 CTB 1 & 2
Project Address: Hobbs

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) 566985. 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. 566985 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,

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 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East Wall b	S	10-26-17 12:47		566985-001
North Wall #1b	S	10-26-17 12:59		566985-002
Floor #2 @ 3'	S	10-26-17 13:35		566985-003
North Wall #2b	S	10-26-17 14:05		566985-004



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 CTB 1 & 2*

Project ID:

Work Order Number(s): 566985

Report Date: 10-NOV-17

Date Received: 10/30/2017

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3032829 BTEX by EPA 8021B

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



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **East Wall b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-001

Date Collected: 10.26.17 12.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.07.17 09.00

Basis: Wet Weight

Seq Number: 3032684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.96	mg/kg	11.07.17 10.30		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.02.17 07.00

Basis: Wet Weight

Seq Number: 3032266

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.02.17 10.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	19.5	15.0	mg/kg	11.02.17 10.54		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	11.02.17 10.54	U	1
Total TPH	PHC635	19.5	15.0	mg/kg	11.02.17 10.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.02.17 10.54	
o-Terphenyl	84-15-1	115	%	70-135	11.02.17 10.54	



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **East Wall b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-001

Date Collected: 10.26.17 12.47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.09.17 08.00

Basis: Wet Weight

Seq Number: 3032829

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
Toluene	108-88-3	<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
Ethylbenzene	100-41-4	<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
m,p-Xylenes	179601-23-1	<0.00707	0.00707	mg/kg	11.09.17 15.58	U	1
o-Xylene	95-47-6	<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
Total Xylenes	1330-20-7	<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
Total BTEX		<0.00353	0.00353	mg/kg	11.09.17 15.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	80-120	11.09.17 15.58		
1,4-Difluorobenzene	540-36-3	114	%	80-120	11.09.17 15.58		



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **North Wall #1b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-002

Date Collected: 10.26.17 12.59

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.07.17 09.00

Basis: Wet Weight

Seq Number: 3032684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	120	4.90	mg/kg	11.07.17 10.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.02.17 07.00

Basis: Wet Weight

Seq Number: 3032266

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.02.17 11.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.02.17 11.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	11.02.17 11.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.02.17 11.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.02.17 11.14	
o-Terphenyl	84-15-1	107	%	70-135	11.02.17 11.14	



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **North Wall #1b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-002

Date Collected: 10.26.17 12.59

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.09.17 08.00

Basis: Wet Weight

Seq Number: 3032829

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
Toluene	108-88-3	<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
Ethylbenzene	100-41-4	<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
m,p-Xylenes	179601-23-1	<0.00678	0.00678	mg/kg	11.09.17 16.16	U	1
o-Xylene	95-47-6	<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
Total Xylenes	1330-20-7	<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
Total BTEX		<0.00339	0.00339	mg/kg	11.09.17 16.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	80-120	11.09.17 16.16		
4-Bromofluorobenzene	460-00-4	84	%	80-120	11.09.17 16.16		



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **Floor #2 @ 3'**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-003

Date Collected: 10.26.17 13.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.07.17 09.00

Basis: Wet Weight

Seq Number: 3032684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2150	24.7	mg/kg	11.07.17 10.55		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.02.17 07.00

Basis: Wet Weight

Seq Number: 3032266

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.02.17 11.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	154	15.0	mg/kg	11.02.17 11.34		1
Oil Range Hydrocarbons (ORO)	PHCG2835	16.3	15.0	mg/kg	11.02.17 11.34		1
Total TPH	PHC635	170	15.0	mg/kg	11.02.17 11.34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	11.02.17 11.34	
o-Terphenyl	84-15-1	106	%	70-135	11.02.17 11.34	



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **Floor #2 @ 3'**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-003

Date Collected: 10.26.17 13.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.09.17 08.00

Basis: Wet Weight

Seq Number: 3032829

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.09.17 15.20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.09.17 15.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	11.09.17 15.20		
1,4-Difluorobenzene	540-36-3	92	%	80-120	11.09.17 15.20		



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **North Wall #2b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-004

Date Collected: 10.26.17 14.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.07.17 09.00

Basis: Wet Weight

Seq Number: 3032684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.8	4.94	mg/kg	11.07.17 11.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.02.17 07.00

Basis: Wet Weight

Seq Number: 3032266

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.02.17 11.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	15.8	15.0	mg/kg	11.02.17 11.54		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	11.02.17 11.54	U	1
Total TPH	PHC635	15.8	15.0	mg/kg	11.02.17 11.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	11.02.17 11.54	
o-Terphenyl	84-15-1	107	%	70-135	11.02.17 11.54	



Certificate of Analytical Results 566985



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **North Wall #2b**

Matrix: Soil

Date Received: 10.30.17 14.56

Lab Sample Id: 566985-004

Date Collected: 10.26.17 14.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.09.17 08.00

Basis: Wet Weight

Seq Number: 3032829

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.09.17 15.39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.09.17 15.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	80-120	11.09.17 15.39		
1,4-Difluorobenzene	540-36-3	103	%	80-120	11.09.17 15.39		

- 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

+ NELAC certification not offered for this compound.

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

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 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 CTB 1 & 2**Analytical Method: Chloride by EPA 300**

Seq Number: 3032684

MB Sample Id: 7633932-1-BLK

Matrix: Solid

LCS Sample Id: 7633932-1-BKS

Prep Method: E300P

Date Prep: 11.07.17

LCSD Sample Id: 7633932-1-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	249	100	257	103	90-110	3	20	mg/kg	11.07.17 09:39	

Analytical Method: Chloride by EPA 300

Seq Number: 3032684

Parent Sample Id: 566200-041

Matrix: Soil

MS Sample Id: 566200-041 S

Prep Method: E300P

Date Prep: 11.07.17

MSD Sample Id: 566200-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	114	246	368	103	370	104	90-110	1	20	mg/kg	11.07.17 11:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3032684

Parent Sample Id: 566954-008

Matrix: Soil

MS Sample Id: 566954-008 S

Prep Method: E300P

Date Prep: 11.07.17

MSD Sample Id: 566954-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	212	246	454	98	454	98	90-110	0	20	mg/kg	11.07.17 09:58	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3032266

MB Sample Id: 7633717-1-BLK

Matrix: Solid

LCS Sample Id: 7633717-1-BKS

Prep Method: TX1005P

Date Prep: 11.02.17

LCSD Sample Id: 7633717-1-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)	<15.0	1000	1080	108	1100	110	70-135	2	35	mg/kg	11.02.17 07:53	
Diesel Range Organics (DRO)	<15.0	1000	1100	110	1110	111	70-135	1	35	mg/kg	11.02.17 07:53	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		100		101		70-135	%	11.02.17 07:53
o-Terphenyl	108		95		95		70-135	%	11.02.17 07:53

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 CTB 1 & 2

Analytical Method: TPH By SW8015 Mod

Seq Number: 3032266

Parent Sample Id: 566983-021

Matrix: Soil

MS Sample Id: 566983-021 S

Prep Method: TX1005P

Date Prep: 11.02.17

MSD Sample Id: 566983-021 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)	<15.5	1040	1140	110	1170	113	70-135	3	35	mg/kg	11.02.17 08:53	
Diesel Range Organics (DRO)	<15.5	1040	1170	113	1190	114	70-135	2	35	mg/kg	11.02.17 08:53	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		95		70-135	%	11.02.17 08:53
o-Terphenyl	110		90		70-135	%	11.02.17 08:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3032829

MB Sample Id: 7634094-1-BLK

Matrix: Solid

LCS Sample Id: 7634094-1-BKS

Prep Method: SW5030B

Date Prep: 11.09.17

LCSD Sample Id: 7634094-1-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	0.0934	92	0.0864	86	70-130	8	35	mg/kg	11.09.17 05:20	
Toluene	<0.00202	0.101	0.0903	89	0.0859	85	70-130	5	35	mg/kg	11.09.17 05:20	
Ethylbenzene	<0.00202	0.101	0.0907	90	0.0868	86	71-129	4	35	mg/kg	11.09.17 05:20	
m,p-Xylenes	<0.00404	0.202	0.174	86	0.167	83	70-135	4	35	mg/kg	11.09.17 05:20	
o-Xylene	<0.00202	0.101	0.0874	87	0.0830	82	71-133	5	35	mg/kg	11.09.17 05:20	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		101		96		80-120	%	11.09.17 05:20
4-Bromofluorobenzene	83		86		84		80-120	%	11.09.17 05:20

Analytical Method: BTEX by EPA 8021B

Seq Number: 3032829

Parent Sample Id: 567832-001

Matrix: Soil

MS Sample Id: 567832-001 S

Prep Method: SW5030B

Date Prep: 11.09.17

MSD Sample Id: 567832-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.127	127	0.130	130	70-130	2	35	mg/kg	11.09.17 07:23	
Toluene	<0.00200	0.100	0.109	109	0.111	111	70-130	2	35	mg/kg	11.09.17 07:23	
Ethylbenzene	<0.00200	0.100	0.0958	96	0.0983	98	71-129	3	35	mg/kg	11.09.17 07:23	
m,p-Xylenes	<0.00401	0.200	0.187	94	0.192	96	70-135	3	35	mg/kg	11.09.17 07:23	
o-Xylene	<0.00200	0.100	0.0871	87	0.0900	90	71-133	3	35	mg/kg	11.09.17 07:23	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		88		80-120	%	11.09.17 07:23
4-Bromofluorobenzene	83		83		80-120	%	11.09.17 07:23



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 #: 5106985

Field billable Hrs :

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TeraCore 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
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. Na₂S₂O₈ 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
Other _____

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC		Phone: (575)390-7208		TAT Work Days = D Need results by: _____ Time: _____																					
Address: P.O. Box 2587		Fax: _____		Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other																					
City: Hobbs		State: NM		Zip: 88241		ANALYSES REQUESTED																			
PM/Attn: Ben J. Arguijo		Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com		PO#: _____		Quote #: _____																			
Project ID: Red Tank 24 CTB 1 & 2		Invoice To: Oxy - Wade Dittrich (575)390-2828		Sample Name: Duskie Bennett		Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A		Cont Type * vc		GC		GC		GC		Pres Type**		I		I		I		Hold Sample (CALL) Run PAH on Highest TPH Only	
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH 8015M	BTEX	Chloride														
1	East Wall b	10/26/17	1247	S			1	# Cont	X			X													
2	North Wall #1b	10/26/17	1259	S			1		X			X													
3	Floor #2 @ 3'	10/26/17	1335	S			1		X			X													
4	North Wall #2b	10/26/17	1405	S			1		X			X													
5																									
6																									
7																									
8																									
9																									
0																									
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		10-22 3		Non-Conformances found?		_____											
Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date		Time											
1 Duskie Bennett		Trinity		10/30/17		1456		Duskie Bennett		MS		10/30/17		2:56											
2								M. A. H. H. H.		XENCO		10-31-17		10:00											
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

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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



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 10/30/2017 02:56:00 PM

Work Order #: 566985

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
#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)?	No
#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:

Shawnee Smith

Date: 10/31/2017

Checklist reviewed by:

Holly Taylor

Date: 11/02/2017



Certificate of Analysis Summary 568423

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed. 1& 2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Nov-15-17 10:15 am

Report Date: 28-NOV-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	568423-001					
	Field Id:	Floor 2 @ 4'					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Nov-14-17 10:50					
BTEX by EPA 8021B	Extracted:	Nov-27-17 08:00					
	Analyzed:	Nov-27-17 15:45					
	Units/RL:	mg/kg RL					
Benzene		<0.00336 0.00336					
Toluene		<0.00336 0.00336					
Ethylbenzene		<0.00336 0.00336					
m,p-Xylenes		<0.00671 0.00671					
o-Xylene		<0.00336 0.00336					
Total Xylenes		<0.00336 0.00336					
Total BTEX		<0.00336 0.00336					
Chloride by EPA 300	Extracted:	Nov-17-17 09:45					
	Analyzed:	Nov-17-17 13:23					
	Units/RL:	mg/kg RL					
Chloride		739 4.96					
TPH By SW8015 Mod	Extracted:	Nov-16-17 09:00					
	Analyzed:	Nov-16-17 19:54					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		<15.0 15.0					
Oil Range Hydrocarbons (ORO)		<15.0 15.0					
Total TPH		<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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 568423
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Red Tank 24 Fed. 1& 2 CTB

28-NOV-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



28-NOV-17

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

Reference: XENCO Report No(s): **568423**
Red Tank 24 Fed. 1& 2 CTB
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) 568423. 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. 568423 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,

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 568423



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1& 2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 2 @ 4'	S	11-14-17 10:50		568423-001



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed. 1& 2 CTB*

Project ID:

Work Order Number(s): 568423

Report Date: 28-NOV-17

Date Received: 11/15/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3034261 BTEX by EPA 8021B

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



Certificate of Analytical Results 568423



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1& 2 CTB

Sample Id: **Floor 2 @ 4'**

Matrix: Soil

Date Received: 11.15.17 10.15

Lab Sample Id: 568423-001

Date Collected: 11.14.17 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 11.17.17 09.45

Basis: Wet Weight

Seq Number: 3033666

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	739	4.96	mg/kg	11.17.17 13.23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 11.16.17 09.00

Basis: Wet Weight

Seq Number: 3033814

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	11.16.17 19.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	11.16.17 19.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	11.16.17 19.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	11.16.17 19.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	11.16.17 19.54	
o-Terphenyl	84-15-1	86	%	70-135	11.16.17 19.54	



Certificate of Analytical Results 568423



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1& 2 CTB

Sample Id: **Floor 2 @ 4'**

Matrix: Soil

Date Received: 11.15.17 10.15

Lab Sample Id: 568423-001

Date Collected: 11.14.17 10.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 11.27.17 08.00

Basis: Wet Weight

Seq Number: 3034261

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
Toluene	108-88-3	<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
Ethylbenzene	100-41-4	<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
m,p-Xylenes	179601-23-1	<0.00671	0.00671	mg/kg	11.27.17 15.45	U	1
o-Xylene	95-47-6	<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
Total Xylenes	1330-20-7	<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
Total BTEX		<0.00336	0.00336	mg/kg	11.27.17 15.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	80-120	11.27.17 15.45		
4-Bromofluorobenzene	460-00-4	97	%	80-120	11.27.17 15.45		

- 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

+ NELAC certification not offered for this compound.

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

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 1211 W Florida Ave, Midland, TX 79701
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(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed. 1& 2 CTB**Analytical Method: Chloride by EPA 300**

Seq Number: 3033666

MB Sample Id: 7634578-1-BLK

Matrix: Solid

LCS Sample Id: 7634578-1-BKS

Prep Method: E300P

Date Prep: 11.17.17

LCSD Sample Id: 7634578-1-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	250	100	90-110	1	20	mg/kg	11.17.17 09:28	

Analytical Method: Chloride by EPA 300

Seq Number: 3033666

Parent Sample Id: 568372-023

Matrix: Soil

MS Sample Id: 568372-023 S

Prep Method: E300P

Date Prep: 11.17.17

MSD Sample Id: 568372-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	765	246	998	95	999	95	90-110	0	20	mg/kg	11.17.17 11:38	

Analytical Method: Chloride by EPA 300

Seq Number: 3033666

Parent Sample Id: 568728-001

Matrix: Soil

MS Sample Id: 568728-001 S

Prep Method: E300P

Date Prep: 11.17.17

MSD Sample Id: 568728-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.35	247	272	106	277	108	90-110	2	20	mg/kg	11.17.17 10:15	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3033814

MB Sample Id: 7634594-1-BLK

Matrix: Solid

LCS Sample Id: 7634594-1-BKS

Prep Method: TX1005P

Date Prep: 11.16.17

LCSD Sample Id: 7634594-1-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)	<15.0	1000	972	97	954	95	70-135	2	35	mg/kg	11.16.17 11:53	
Diesel Range Organics (DRO)	<15.0	1000	1020	102	1010	101	70-135	1	35	mg/kg	11.16.17 11:53	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		101		100		70-135	%	11.16.17 11:53
o-Terphenyl	97		114		110		70-135	%	11.16.17 11:53

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed. 1& 2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3033814

Parent Sample Id: 568179-013

Matrix: Soil

MS Sample Id: 568179-013 S

Prep Method: TX1005P

Date Prep: 11.16.17

MSD Sample Id: 568179-013 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)	<15.0	999	962	96	972	97	70-135	1	35	mg/kg	11.16.17 13:12	
Diesel Range Organics (DRO)	<15.0	999	1050	105	1060	106	70-135	1	35	mg/kg	11.16.17 13:12	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		106		70-135	%	11.16.17 13:12
o-Terphenyl	113		93		70-135	%	11.16.17 13:12

Analytical Method: BTEX by EPA 8021B

Seq Number: 3034261

MB Sample Id: 7634983-1-BLK

Matrix: Solid

LCS Sample Id: 7634983-1-BKS

Prep Method: SW5030B

Date Prep: 11.27.17

LCSD Sample Id: 7634983-1-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	0.0998	0.108	108	0.111	111	70-130	3	35	mg/kg	11.27.17 08:19	
Toluene	<0.00200	0.0998	0.105	105	0.108	108	70-130	3	35	mg/kg	11.27.17 08:19	
Ethylbenzene	<0.00200	0.0998	0.110	110	0.112	112	71-129	2	35	mg/kg	11.27.17 08:19	
m,p-Xylenes	<0.00399	0.200	0.209	105	0.214	107	70-135	2	35	mg/kg	11.27.17 08:19	
o-Xylene	<0.00200	0.0998	0.102	102	0.104	104	71-133	2	35	mg/kg	11.27.17 08:19	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		104		103		80-120	%	11.27.17 08:19
4-Bromofluorobenzene	84		102		101		80-120	%	11.27.17 08:19

Analytical Method: BTEX by EPA 8021B

Seq Number: 3034261

Parent Sample Id: 568956-007

Matrix: Soil

MS Sample Id: 568956-007 S

Prep Method: SW5030B

Date Prep: 11.27.17

MSD Sample Id: 568956-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00353	0.177	0.178	101	0.180	103	70-130	1	35	mg/kg	11.27.17 08:55	
Toluene	<0.00353	0.177	0.173	98	0.175	100	70-130	1	35	mg/kg	11.27.17 08:55	
Ethylbenzene	<0.00353	0.177	0.181	102	0.181	103	71-129	0	35	mg/kg	11.27.17 08:55	
m,p-Xylenes	<0.00707	0.353	0.346	98	0.346	99	70-135	0	35	mg/kg	11.27.17 08:55	
o-Xylene	<0.00353	0.177	0.170	96	0.169	97	71-133	1	35	mg/kg	11.27.17 08:55	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		102		80-120	%	11.27.17 08:55
4-Bromofluorobenzene	110		104		80-120	%	11.27.17 08:55



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 #: 568423

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	

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
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	

REMARKS

Run BTEX if TPH <= 5,000

Temp: 70.1 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

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 24 Fed. 1 & 2 CTB	PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:

Sampler Name: Duskie Bennett	Circle One Event: Daily Weekly Monthly Quarterly
	Semi-Annual Annual <u>N/A</u>

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) on Highest TPH	Run PAH Only
1	Floor 2 @ 4'	11/14/17	1050	S			1		X				
2													
3													
4													
5													
6													
7													
8													
9													
0													

Cont Type * VC	GC	GC	GC										
Pres Type**													
	TPH 8015M	BTEX	Chloride										
# Cont	Lab Only:												
		See 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 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	0.4	Non-Conformances found?	YES NO N/A	
Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date	
1 <u>Duskie Bennett</u>		<u>Trinity</u>		<u>11/14/17</u>		<u>1411</u>		<u>[Signature]</u>		<u>Trinity</u>		<u>11/14/17</u>	
2 <u>[Signature]</u>		<u>Trinity</u>		<u>11/14/17</u>		<u>1438</u>		<u>[Signature]</u>		<u>Mail Services</u>		<u>11/14/17</u>	
3 <u>[Signature]</u>		<u>Mail Services</u>		<u>11/14/17</u>		<u>3:51</u>		<u>[Signature]</u>		<u>Mail Services</u>		<u>11/15/17</u>	
4 <u>[Signature]</u>								<u>[Signature]</u>		<u>Xenco</u>		<u>11/15/17</u>	

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



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 11/15/2017 10:15:00 AM

Work Order #: 568423

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)?	1.9
#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)?	No
#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:

Connie Hernandez

Date: 11/15/2017

Checklist reviewed by:

Holly Taylor

Date: 11/15/2017



Certificate of Analysis Summary 572679

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 CTB 1 & 2



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Jan-04-18 10:52 am

Report Date: 15-JAN-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	572679-001					
	Field Id:	Floor 2 @ 6'					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Dec-29-17 13:45					
BTEX by EPA 8021B	Extracted:	Jan-10-18 10:00					
	Analyzed:	Jan-10-18 11:46					
	Units/RL:	mg/kg RL					
Benzene		<0.00201 0.00201					
Toluene		<0.00201 0.00201					
Ethylbenzene		<0.00201 0.00201					
m,p-Xylenes		<0.00402 0.00402					
o-Xylene		<0.00201 0.00201					
Total Xylenes		<0.00201 0.00201					
Total BTEX		<0.00201 0.00201					
Chloride by EPA 300	Extracted:	Jan-05-18 12:00					
	Analyzed:	Jan-05-18 14:54					
	Units/RL:	mg/kg RL					
Chloride		391 5.00					
TPH By SW8015 Mod	Extracted:	Jan-08-18 12:00					
	Analyzed:	Jan-08-18 17:37					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		16.2 15.0					
Diesel Range Organics (DRO)		120 15.0					
Oil Range Hydrocarbons (ORO)		<15.0 15.0					
Total TPH		136 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 572679
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Red Tank 24 CTB 1 & 2

15-JAN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



15-JAN-18

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

Reference: XENCO Report No(s): **572679**
Red Tank 24 CTB 1 & 2
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) 572679. 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. 572679 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,

Holly Taylor
Project Manager

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



Sample Cross Reference 572679



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 2 @ 6'	S	12-29-17 13:45		572679-001



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 CTB 1 & 2*

Project ID:
Work Order Number(s): 572679

Report Date: 15-JAN-18
Date Received: 01/04/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3037569 Inorganic Anions by EPA 300

Lab Sample ID 572679-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 572679-001.

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

Batch: LBA-3037883 BTEX by EPA 8021B

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



Certificate of Analytical Results 572679



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **Floor 2 @ 6'**

Matrix: Soil

Date Received: 01.04.18 10.52

Lab Sample Id: 572679-001

Date Collected: 12.29.17 13.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.05.18 12.00

Basis: Wet Weight

Seq Number: 3037569

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	391	5.00	mg/kg	01.05.18 14.54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.08.18 12.00

Basis: Wet Weight

Seq Number: 3037897

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	16.2	15.0	mg/kg	01.08.18 17.37		1
Diesel Range Organics (DRO)	C10C28DRO	120	15.0	mg/kg	01.08.18 17.37		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.08.18 17.37	U	1
Total TPH	PHC635	136	15.0	mg/kg	01.08.18 17.37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	01.08.18 17.37	
o-Terphenyl	84-15-1	85	%	70-135	01.08.18 17.37	



Certificate of Analytical Results 572679



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 CTB 1 & 2

Sample Id: **Floor 2 @ 6'**

Matrix: Soil

Date Received: 01.04.18 10.52

Lab Sample Id: 572679-001

Date Collected: 12.29.17 13.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.10.18 10.00

Basis: Wet Weight

Seq Number: 3037883

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.10.18 11.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.10.18 11.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	80-120	01.10.18 11.46		
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.10.18 11.46		

- 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

+ NELAC certification not offered for this compound.

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

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(281) 240-4200	(281) 240-4280
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(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



Trinity Oilfield Services & Rentals, LLC
Red Tank 24 CTB 1 & 2

Analytical Method: Chloride by EPA 300

Seq Number: 3037569

MB Sample Id: 7637031-1-BLK

Matrix: Solid

LCS Sample Id: 7637031-1-BKS

Prep Method: E300P

Date Prep: 01.05.18

LCSD Sample Id: 7637031-1-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	226	90	232	93	90-110	3	20	mg/kg	01.05.18 12:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3037569

Parent Sample Id: 572569-001

Matrix: Soil

MS Sample Id: 572569-001 S

Prep Method: E300P

Date Prep: 01.05.18

MSD Sample Id: 572569-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	299	248	531	94	546	100	90-110	3	20	mg/kg	01.05.18 13:23	

Analytical Method: Chloride by EPA 300

Seq Number: 3037569

Parent Sample Id: 572679-001

Matrix: Soil

MS Sample Id: 572679-001 S

Prep Method: E300P

Date Prep: 01.05.18

MSD Sample Id: 572679-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	391	250	624	93	612	88	90-110	2	20	mg/kg	01.05.18 15:01	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3037897

MB Sample Id: 7637141-1-BLK

Matrix: Solid

LCS Sample Id: 7637141-1-BKS

Prep Method: TX1005P

Date Prep: 01.08.18

LCSD Sample Id: 7637141-1-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)	<15.0	999	832	83	794	79	70-135	5	35	mg/kg	01.08.18 15:52	
Diesel Range Organics (DRO)	<15.0	999	866	87	823	82	70-135	5	35	mg/kg	01.08.18 15:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		86		82		70-135	%	01.08.18 15:52
o-Terphenyl	84		77		90		70-135	%	01.08.18 15:52

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

$[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$

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 24 CTB 1 & 2

Analytical Method: TPH By SW8015 Mod

Seq Number: 3037897

Parent Sample Id: 572801-001

Matrix: Soil

MS Sample Id: 572801-001 S

Prep Method: TX1005P

Date Prep: 01.08.18

MSD Sample Id: 572801-001 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)	<15.0	998	585	59	591	59	70-135	1	35	mg/kg	01.08.18 16:56	X
Diesel Range Organics (DRO)	<15.0	998	646	65	610	61	70-135	6	35	mg/kg	01.08.18 16:56	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		77		70-135	%	01.08.18 16:56
o-Terphenyl	77		75		70-135	%	01.08.18 16:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037883

MB Sample Id: 7637259-1-BLK

Matrix: Solid

LCS Sample Id: 7637259-1-BKS

Prep Method: SW5030B

Date Prep: 01.10.18

LCSD Sample Id: 7637259-1-BSO

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	0.0815	81	0.0801	80	70-130	2	35	mg/kg	01.10.18 08:37	
Toluene	<0.00202	0.101	0.0852	84	0.0838	84	70-130	2	35	mg/kg	01.10.18 08:37	
Ethylbenzene	<0.00202	0.101	0.0909	90	0.0894	89	71-129	2	35	mg/kg	01.10.18 08:37	
m,p-Xylenes	<0.00403	0.202	0.180	89	0.178	89	70-135	1	35	mg/kg	01.10.18 08:37	
o-Xylene	<0.00202	0.101	0.0917	91	0.0909	91	71-133	1	35	mg/kg	01.10.18 08:37	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		112		111		80-120	%	01.10.18 08:37
4-Bromofluorobenzene	96		110		109		80-120	%	01.10.18 08:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3037883

Parent Sample Id: 573013-002

Matrix: Soil

MS Sample Id: 573013-002 S

Prep Method: SW5030B

Date Prep: 01.10.18

MSD Sample Id: 573013-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0760	76	0.0726	73	70-130	5	35	mg/kg	01.10.18 09:32	
Toluene	<0.00201	0.100	0.0749	75	0.0753	75	70-130	1	35	mg/kg	01.10.18 09:32	
Ethylbenzene	<0.00201	0.100	0.0769	77	0.0792	79	71-129	3	35	mg/kg	01.10.18 09:32	
m,p-Xylenes	<0.00402	0.201	0.153	76	0.157	79	70-135	3	35	mg/kg	01.10.18 09:32	
o-Xylene	<0.00201	0.100	0.0791	79	0.0801	80	71-133	1	35	mg/kg	01.10.18 09:32	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		110		80-120	%	01.10.18 09:32
4-Bromofluorobenzene	111		105		80-120	%	01.10.18 09:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)561-0001-c

CHAIN OF CUSTODY RECORD

Page 1 of 1

LAB W.O #: 572679

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	TB Tedlar Bag
GA Glass Amber	ZB Zip Lock Bag
GC Glass Clear	PC Plastic Clear
PA Plastic Amber	
PC Plastic Clear	

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal

** 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		

^ Matrix Type Codes

GW Ground Water	S Soil/Sediment/Sol
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	

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 24 CTB 1 & 2 PO#:

Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

Sampler Name: Tristan Payne 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	Example Volatiles by 826C	TPH	8015M	BTEX	Chloride	Other
1	Floor 2 @ 6'	12/29/17	1345	S			1		X				
2													
3													
4													
5													
6													
7													
8													
9													
0													

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	GC	GC	GC										
VC													
Pres Type**	I	I	I										

TPH	8015M	BTEX	Chloride	Other

Cont Lab Only:

SEE REMARKS

REMARKS

Run BTEX if TPH <= 5,000

Temp: 1.2 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.

Reg. Program / Clean-up Std				STATE for Certs & Regs				QA/QC Level & Certification				EDDs		COC & Labels		Cooler	
CTLs	TRRP	DW	NPDES	LPST	DryCln	FL	TX	GA	NC	SC	NJ	PA	1	2	3	4	5
Other:						OK	LA	AL	NM	Other:		NELAC	DoD-ELAP	Other:			
Relinquished by				Affiliation		Date		Time		Received by		Affiliation		Date		Time	
1 Tristan Payne				Trinity		01/04/18		0930		Paul Pine		Trinity		1/4/18		0930	
2 Paul Pine				Trinity		1/4/18		1052		Eppaniza Company		Mail Services		1/4/18		1052	
3 Kaine Jones				MS		1/4/18		1200		Carmel				1/5/18		1020	
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- C.O.C. Serial # 437-0330

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

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



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/04/2018 10:52:00 AM

Work Order #: 572679

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)?	.8
#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)?	No
#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:

Connie Hernandez

Date: 01/05/2018

Checklist reviewed by:

Holly Taylor

Date: 01/05/2018



Certificate of Analysis Summary 583958

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed. 1&2 CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Apr-26-18 12:00 pm

Report Date: 03-MAY-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	583958-001					
	Field Id:	North Wall #3					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Apr-18-18 11:00					
BTEX by EPA 8021B	Extracted:	May-02-18 08:00					
	Analyzed:	May-02-18 16:25					
	Units/RL:	mg/kg RL					
	Benzene	<0.00199 0.00199					
	Toluene	<0.00199 0.00199					
	Ethylbenzene	<0.00199 0.00199					
	m,p-Xylenes	<0.00398 0.00398					
	o-Xylene	<0.00199 0.00199					
	Total Xylenes	<0.00199 0.00199					
	Total BTEX	<0.00199 0.00199					
Chloride by EPA 300	Extracted:	May-01-18 12:00					
	Analyzed:	May-01-18 15:11					
	Units/RL:	mg/kg RL					
Chloride		12.2 5.00					
TPH By SW8015 Mod	Extracted:	Apr-27-18 17:00					
	Analyzed:	Apr-28-18 08:35					
	Units/RL:	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0					
	Diesel Range Organics (DRO)	<15.0 15.0					
	Oil Range Hydrocarbons (ORO)	<15.0 15.0					
	Total TPH	<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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 583958

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 Fed. 1&2 CTB

03-MAY-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

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)

Xenco-Lakeland: Florida (E84098)



03-MAY-18

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

Reference: XENCO Report No(s): **583958**
Red Tank 24 Fed. 1&2 CTB
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) 583958. 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. 583958 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,

Holly Taylor
Project Manager

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



Sample Cross Reference 583958



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Wall #3	S	04-18-18 11:00		583958-001



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed. 1&2 CTB*

Project ID:

Work Order Number(s): 583958

Report Date: 03-MAY-18

Date Received: 04/26/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3048631 BTEX by EPA 8021B

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



Certificate of Analytical Results 583958



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **North Wall #3**

Matrix: Soil

Date Received: 04.26.18 12.00

Lab Sample Id: 583958-001

Date Collected: 04.18.18 11.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 05.01.18 12.00

Basis: Wet Weight

Seq Number: 3048596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	5.00	mg/kg	05.01.18 15.11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 04.27.18 17.00

Basis: Wet Weight

Seq Number: 3048340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	04.28.18 08.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	04.28.18 08.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	04.28.18 08.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	04.28.18 08.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.28.18 08.35	
o-Terphenyl	84-15-1	92	%	70-135	04.28.18 08.35	



Certificate of Analytical Results 583958



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **North Wall #3**

Matrix: Soil

Date Received: 04.26.18 12.00

Lab Sample Id: 583958-001

Date Collected: 04.18.18 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 05.02.18 08.00

Basis: Wet Weight

Seq Number: 3048631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.02.18 16.25	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.02.18 16.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.02.18 16.25		
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.02.18 16.25		

- 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 24 Fed. 1&2 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3048596

MB Sample Id: 7643803-1-BLK

Matrix: Solid

LCS Sample Id: 7643803-1-BKS

Prep Method: E300P

Date Prep: 05.01.18

LCSD Sample Id: 7643803-1-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	268	107	263	105	90-110	2	20	mg/kg	05.01.18 14:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3048596

Parent Sample Id: 584081-001

Matrix: Soil

MS Sample Id: 584081-001 S

Prep Method: E300P

Date Prep: 05.01.18

MSD Sample Id: 584081-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	274	110	254	102	90-110	8	20	mg/kg	05.01.18 14:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3048596

Parent Sample Id: 584081-002

Matrix: Soil

MS Sample Id: 584081-002 S

Prep Method: E300P

Date Prep: 05.01.18

MSD Sample Id: 584081-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	262	106	261	105	90-110	0	20	mg/kg	05.01.18 16:17	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3048340

MB Sample Id: 7643668-1-BLK

Matrix: Solid

LCS Sample Id: 7643668-1-BKS

Prep Method: TX1005P

Date Prep: 04.27.18

LCSD Sample Id: 7643668-1-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)	<15.0	1000	1050	105	1150	115	70-135	9	20	mg/kg	04.28.18 03:43	
Diesel Range Organics (DRO)	<15.0	1000	1060	106	1140	114	70-135	7	20	mg/kg	04.28.18 03:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		122		126		70-135	%	04.28.18 03:43
o-Terphenyl	105		124		129		70-135	%	04.28.18 03:43

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

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed. 1&2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3048340

Parent Sample Id: 583730-001

Matrix: Soil

MS Sample Id: 583730-001 S

Prep Method: TX1005P

Date Prep: 04.27.18

MSD Sample Id: 583730-001 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)	<15.0	999	1110	111	1150	115	70-135	4	20	mg/kg	04.28.18 05:01	
Diesel Range Organics (DRO)	<15.0	999	1120	112	1150	115	70-135	3	20	mg/kg	04.28.18 05:01	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		117		70-135	%	04.28.18 05:01
o-Terphenyl	116		116		70-135	%	04.28.18 05:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3048631

MB Sample Id: 7643879-1-BLK

Matrix: Solid

LCS Sample Id: 7643879-1-BKS

Prep Method: SW5030B

Date Prep: 05.02.18

LCSD Sample Id: 7643879-1-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	0.0998	0.113	113	0.114	115	70-130	1	35	mg/kg	05.02.18 07:21	
Toluene	<0.00200	0.0998	0.110	110	0.110	111	70-130	0	35	mg/kg	05.02.18 07:21	
Ethylbenzene	<0.00200	0.0998	0.111	111	0.112	113	70-130	1	35	mg/kg	05.02.18 07:21	
m,p-Xylenes	<0.00399	0.200	0.227	114	0.231	116	70-130	2	35	mg/kg	05.02.18 07:21	
o-Xylene	<0.00200	0.0998	0.113	113	0.115	116	70-130	2	35	mg/kg	05.02.18 07:21	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		105		102		70-130	%	05.02.18 07:21
4-Bromofluorobenzene	86		102		103		70-130	%	05.02.18 07:21

Analytical Method: BTEX by EPA 8021B

Seq Number: 3048631

Parent Sample Id: 584460-001

Matrix: Soil

MS Sample Id: 584460-001 S

Prep Method: SW5030B

Date Prep: 05.02.18

MSD Sample Id: 584460-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.101	101	0.107	107	70-130	6	35	mg/kg	05.02.18 08:04	
Toluene	<0.00199	0.0996	0.0982	99	0.103	103	70-130	5	35	mg/kg	05.02.18 08:04	
Ethylbenzene	<0.00199	0.0996	0.101	101	0.107	107	70-130	6	35	mg/kg	05.02.18 08:04	
m,p-Xylenes	<0.00398	0.199	0.208	105	0.219	110	70-130	5	35	mg/kg	05.02.18 08:04	
o-Xylene	<0.00199	0.0996	0.102	102	0.108	108	70-130	6	35	mg/kg	05.02.18 08:04	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		103		70-130	%	05.02.18 08:04
4-Bromofluorobenzene	96		99		70-130	%	05.02.18 08:04

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 ResultMS = 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
 :rool-c

Page 1 of 1

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
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	

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 24 Fed. 1 & 2 CTB PO#:

Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

Sampler Name: Tristan Payne 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	North Wall #3	4/18/18	1100	S			1
2							
3							
4							
5							
6							
7							
8							
9							
0							

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:												

Hold Sample (CALL) Run PAH on Highest TPH Only if

REMARKS

Run BTEX if TPH <= 5,000

Temp: 2.9°C IR ID:R-8
 CF:(0-6: -0.2°C)
 (6-23: +0.2°C)
 Corrected Temp: 2.7°C

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	Other:	1	2	3	4	CLP	AFCEE	QAPP	ADaPT	SEDD	ERPIMS	Match	Incomplete	1	2	3	Non-Conformances found?							
						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						Trinity						4-26-18						6:00am						Trinity			4/26/18		12:00		Labeled with proper preservatives?						
2						Trinity						4/26/18						16:00						Brianna Cox			Trinity		4-27-18		Received within holding time?						
3																								Bill Robinson			Xenco		4-27-18		10:15		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 #

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



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 04/26/2018 12:00:00 PM

Work Order #: 583958

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)?	3.1	
#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	TPH received in bulk container
#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)?	No	
#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:

Katie Lowe

Date: 04/27/2018

Checklist reviewed by:

Holly Taylor

Date: 04/28/2018



Certificate of Analysis Summary 588902

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Red Tank 24 Fed. 1&2 CTB



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

Date Received in Lab: Tue Jun-12-18 10:45 am

Report Date: 19-JUN-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	588902-001	588902-002	588902-003			
	Field Id:	W. Wall #1	E. Wall #2	W. Wall #2			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jun-04-18 14:35	Jun-07-18 11:00	Jun-07-18 11:30			
BTEX by EPA 8021B	Extracted:	Jun-15-18 08:00	Jun-18-18 08:00	Jun-16-18 08:30			
	Analyzed:	Jun-15-18 14:30	Jun-18-18 11:33	Jun-17-18 01:28			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202			
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202			
Ethylbenzene		<0.00199 0.00199	0.00691 0.00201	0.0360 0.00202			
m,p-Xylenes		<0.00398 0.00398	0.0213 0.00402	0.0427 0.00403			
o-Xylene		<0.00199 0.00199	0.0162 0.00201	0.147 0.00202			
Total Xylenes		<0.00199 0.00199	0.0375 0.00201	0.190 0.00202			
Total BTEX		<0.00199 0.00199	0.0444 0.00201	0.226 0.00202			
Chloride by EPA 300	Extracted:	Jun-15-18 10:30	Jun-15-18 10:30	Jun-15-18 10:30			
	Analyzed:	Jun-15-18 13:47	Jun-15-18 13:52	Jun-15-18 13:57			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		267 4.98	689 4.93	382 4.96			
TPH By SW8015 Mod	Extracted:	Jun-15-18 14:00	Jun-15-18 14:00	Jun-15-18 14:00			
	Analyzed:	Jun-16-18 01:51	Jun-16-18 02:12	Jun-16-18 02:32			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	134 74.9	461 74.8			
Diesel Range Organics (DRO)		<15.0 15.0	4470 74.9	3860 74.8			
Oil Range Hydrocarbons (ORO)		<15.0 15.0	132 74.9	<74.8 74.8			
Total TPH		<15.0 15.0	4740 74.9	4320 74.8			

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brandi Ritcherson
Project Manager

Analytical Report 588902
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Red Tank 24 Fed. 1&2 CTB

19-JUN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
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)
Xenco-Lakeland: Florida (E84098)



19-JUN-18

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

Reference: XENCO Report No(s): **588902**
Red Tank 24 Fed. 1&2 CTB
Project Address: Hobbs,NM

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) 588902. 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. 588902 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,

Brandi Ritcherson

Project Manager

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

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

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



Sample Cross Reference 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
W. Wall #1	S	06-04-18 14:35		588902-001
E. Wall #2	S	06-07-18 11:00		588902-002
W. Wall #2	S	06-07-18 11:30		588902-003



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Red Tank 24 Fed. 1&2 CTB*

Project ID:
Work Order Number(s): 588902

Report Date: 19-JUN-18
Date Received: 06/12/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3053699 BTEX by EPA 8021B

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

Batch: LBA-3053744 BTEX by EPA 8021B

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 588902-003

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

Lab Sample ID 588902-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 588902-003.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3053754 BTEX by EPA 8021B

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



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **W. Wall #1**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-001

Date Collected: 06.04.18 14.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.15.18 10.30

Basis: Wet Weight

Seq Number: 3053705

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	267	4.98	mg/kg	06.15.18 13.47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.15.18 14.00

Basis: Wet Weight

Seq Number: 3053879

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.16.18 01.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.16.18 01.51	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.16.18 01.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.16.18 01.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	79	%	70-135	06.16.18 01.51		
o-Terphenyl	84-15-1	81	%	70-135	06.16.18 01.51		



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **W. Wall #1**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-001

Date Collected: 06.04.18 14.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.15.18 08.00

Basis: Wet Weight

Seq Number: 3053699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.15.18 14.30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.15.18 14.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.15.18 14.30		
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.15.18 14.30		



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **E. Wall #2**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-002

Date Collected: 06.07.18 11.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.15.18 10.30

Basis: Wet Weight

Seq Number: 3053705

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	689	4.93	mg/kg	06.15.18 13.52		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.15.18 14.00

Basis: Wet Weight

Seq Number: 3053879

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	134	74.9	mg/kg	06.16.18 02.12		5
Diesel Range Organics (DRO)	C10C28DRO	4470	74.9	mg/kg	06.16.18 02.12		5
Oil Range Hydrocarbons (ORO)	PHCG2835	132	74.9	mg/kg	06.16.18 02.12		5
Total TPH	PHC635	4740	74.9	mg/kg	06.16.18 02.12		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	06.16.18 02.12	
o-Terphenyl	84-15-1	83	%	70-135	06.16.18 02.12	



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **E. Wall #2**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-002

Date Collected: 06.07.18 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.18.18 08.00

Basis: Wet Weight

Seq Number: 3053754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.18.18 11.33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.18.18 11.33	U	1
Ethylbenzene	100-41-4	0.00691	0.00201	mg/kg	06.18.18 11.33		1
m,p-Xylenes	179601-23-1	0.0213	0.00402	mg/kg	06.18.18 11.33		1
o-Xylene	95-47-6	0.0162	0.00201	mg/kg	06.18.18 11.33		1
Total Xylenes	1330-20-7	0.0375	0.00201	mg/kg	06.18.18 11.33		1
Total BTEX		0.0444	0.00201	mg/kg	06.18.18 11.33		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	130		%	70-130	06.18.18 11.33	
4-Bromofluorobenzene	460-00-4	125		%	70-130	06.18.18 11.33	



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **W. Wall #2**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-003

Date Collected: 06.07.18 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.15.18 10.30

Basis: Wet Weight

Seq Number: 3053705

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	382	4.96	mg/kg	06.15.18 13.57		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.15.18 14.00

Basis: Wet Weight

Seq Number: 3053879

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	461	74.8	mg/kg	06.16.18 02.32		5
Diesel Range Organics (DRO)	C10C28DRO	3860	74.8	mg/kg	06.16.18 02.32		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.8	74.8	mg/kg	06.16.18 02.32	U	5
Total TPH	PHC635	4320	74.8	mg/kg	06.16.18 02.32		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	06.16.18 02.32		
o-Terphenyl	84-15-1	129	%	70-135	06.16.18 02.32		



Certificate of Analytical Results 588902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Red Tank 24 Fed. 1&2 CTB

Sample Id: **W. Wall #2**

Matrix: Soil

Date Received: 06.12.18 10.45

Lab Sample Id: 588902-003

Date Collected: 06.07.18 11.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.16.18 08.30

Basis: Wet Weight

Seq Number: 3053744

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.17.18 01.28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.17.18 01.28	U	1
Ethylbenzene	100-41-4	0.0360	0.00202	mg/kg	06.17.18 01.28		1
m,p-Xylenes	179601-23-1	0.0427	0.00403	mg/kg	06.17.18 01.28		1
o-Xylene	95-47-6	0.147	0.00202	mg/kg	06.17.18 01.28		1
Total Xylenes	1330-20-7	0.190	0.00202	mg/kg	06.17.18 01.28		1
Total BTEX		0.226	0.00202	mg/kg	06.17.18 01.28		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125		%	70-130	06.17.18 01.28	
1,4-Difluorobenzene	540-36-3	103		%	70-130	06.17.18 01.28	

- 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 24 Fed. 1&2 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3053705

MB Sample Id: 7656729-1-BLK

Matrix: Solid

LCS Sample Id: 7656729-1-BKS

Prep Method: E300P

Date Prep: 06.15.18

LCSD Sample Id: 7656729-1-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	254	102	253	101	90-110	0	20	mg/kg	06.15.18 12:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3053705

Parent Sample Id: 588900-002

Matrix: Soil

MS Sample Id: 588900-002 S

Prep Method: E300P

Date Prep: 06.15.18

MSD Sample Id: 588900-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	400	245	628	93	628	93	90-110	0	20	mg/kg	06.15.18 12:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3053705

Parent Sample Id: 588983-001

Matrix: Soil

MS Sample Id: 588983-001 S

Prep Method: E300P

Date Prep: 06.15.18

MSD Sample Id: 588983-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	398	246	620	90	619	90	90-110	0	20	mg/kg	06.15.18 14:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3053879

MB Sample Id: 7656841-1-BLK

Matrix: Solid

LCS Sample Id: 7656841-1-BKS

Prep Method: TX1005P

Date Prep: 06.15.18

LCSD Sample Id: 7656841-1-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)	<15.0	1000	810	81	832	83	70-135	3	20	mg/kg	06.15.18 22:50	
Diesel Range Organics (DRO)	<15.0	1000	853	85	841	84	70-135	1	20	mg/kg	06.15.18 22:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		99		97		70-135	%	06.15.18 22:50
o-Terphenyl	85		89		90		70-135	%	06.15.18 22:50

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 24 Fed. 1&2 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3053879

Parent Sample Id: 588924-001

Matrix: Soil

MS Sample Id: 588924-001 S

Prep Method: TX1005P

Date Prep: 06.15.18

MSD Sample Id: 588924-001 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)	<15.0	998	794	80	790	79	70-135	1	20	mg/kg	06.15.18 23:50	
Diesel Range Organics (DRO)	<15.0	998	792	79	790	79	70-135	0	20	mg/kg	06.15.18 23:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		95		70-135	%	06.15.18 23:50
o-Terphenyl	84		84		70-135	%	06.15.18 23:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053699

MB Sample Id: 7656796-1-BLK

Matrix: Solid

LCS Sample Id: 7656796-1-BKS

Prep Method: SW5030B

Date Prep: 06.15.18

LCSD Sample Id: 7656796-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0915	91	0.0882	88	70-130	4	35	mg/kg	06.15.18 07:31	
Toluene	<0.00201	0.101	0.0993	98	0.0953	95	70-130	4	35	mg/kg	06.15.18 07:31	
Ethylbenzene	<0.00201	0.101	0.0984	97	0.0935	94	70-130	5	35	mg/kg	06.15.18 07:31	
m,p-Xylenes	<0.00402	0.201	0.206	102	0.196	98	70-130	5	35	mg/kg	06.15.18 07:31	
o-Xylene	<0.00201	0.101	0.0946	94	0.0924	92	70-130	2	35	mg/kg	06.15.18 07:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		93		100		70-130	%	06.15.18 07:31
4-Bromofluorobenzene	106		101		98		70-130	%	06.15.18 07:31

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053744

MB Sample Id: 7656828-1-BLK

Matrix: Solid

LCS Sample Id: 7656828-1-BKS

Prep Method: SW5030B

Date Prep: 06.16.18

LCSD Sample Id: 7656828-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0818	82	0.0948	94	70-130	15	35	mg/kg	06.16.18 23:39	
Toluene	<0.00201	0.100	0.0860	86	0.0968	96	70-130	12	35	mg/kg	06.16.18 23:39	
Ethylbenzene	<0.00201	0.100	0.0853	85	0.0974	96	70-130	13	35	mg/kg	06.16.18 23:39	
m,p-Xylenes	<0.00402	0.201	0.176	88	0.200	99	70-130	13	35	mg/kg	06.16.18 23:39	
o-Xylene	<0.00201	0.100	0.0827	83	0.0950	94	70-130	14	35	mg/kg	06.16.18 23:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		89		104		70-130	%	06.16.18 23:39
4-Bromofluorobenzene	96		92		103		70-130	%	06.16.18 23:39

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed. 1&2 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053754

MB Sample Id: 7656840-1-BLK

Matrix: Solid

LCS Sample Id: 7656840-1-BKS

Prep Method: SW5030B

Date Prep: 06.18.18

LCSD Sample Id: 7656840-1-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	0.106	106	0.0956	96	70-130	10	35	mg/kg	06.18.18 07:53	
Toluene	<0.00200	0.100	0.112	112	0.0994	100	70-130	12	35	mg/kg	06.18.18 07:53	
Ethylbenzene	<0.00200	0.100	0.112	112	0.0982	99	70-130	13	35	mg/kg	06.18.18 07:53	
m,p-Xylenes	<0.00401	0.200	0.233	117	0.206	104	70-130	12	35	mg/kg	06.18.18 07:53	
o-Xylene	<0.00200	0.100	0.110	110	0.0957	96	70-130	14	35	mg/kg	06.18.18 07:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		102		103		70-130	%	06.18.18 07:53
4-Bromofluorobenzene	86		102		96		70-130	%	06.18.18 07:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053699

Parent Sample Id: 588766-001

Matrix: Soil

MS Sample Id: 588766-001 S

Prep Method: SW5030B

Date Prep: 06.15.18

MSD Sample Id: 588766-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0356	36	0.0325	33	70-130	9	35	mg/kg	06.15.18 08:07	X
Toluene	<0.00200	0.0998	0.0393	39	0.0342	34	70-130	14	35	mg/kg	06.15.18 08:07	X
Ethylbenzene	<0.00200	0.0998	0.0365	37	0.0349	35	70-130	4	35	mg/kg	06.15.18 08:07	X
m,p-Xylenes	<0.00399	0.200	0.0760	38	0.0722	36	70-130	5	35	mg/kg	06.15.18 08:07	X
o-Xylene	<0.00200	0.0998	0.0351	35	0.0327	33	70-130	7	35	mg/kg	06.15.18 08:07	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		96		70-130	%	06.15.18 08:07
4-Bromofluorobenzene	102		103		70-130	%	06.15.18 08:07

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053744

Parent Sample Id: 588902-003

Matrix: Soil

MS Sample Id: 588902-003 S

Prep Method: SW5030B

Date Prep: 06.16.18

MSD Sample Id: 588902-003 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	0.0990	0.0797	81	0.0196	19	70-130	121	35	mg/kg	06.17.18 00:15	XF
Toluene	<0.00198	0.0990	0.0465	47	0.00325	3	70-130	174	35	mg/kg	06.17.18 00:15	XF
Ethylbenzene	0.0360	0.0990	0.0870	52	0.0469	11	70-130	60	35	mg/kg	06.17.18 00:15	XF
m,p-Xylenes	0.0427	0.198	0.189	74	0.0540	6	70-130	111	35	mg/kg	06.17.18 00:15	XF
o-Xylene	0.147	0.0990	0.0675	0	0.192	45	70-130	96	35	mg/kg	06.17.18 00:15	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	116		101		70-130	%	06.17.18 00:15
4-Bromofluorobenzene	76		128		70-130	%	06.17.18 00:15

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

Trinity Oilfield Services & Rentals, LLC
Red Tank 24 Fed. 1&2 CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3053754

Parent Sample Id: 588895-001

Matrix: Soil

MS Sample Id: 588895-001 S

Prep Method: SW5030B

Date Prep: 06.18.18

MSD Sample Id: 588895-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0732	73	0.0744	75	70-130	2	35	mg/kg	06.18.18 08:51	
Toluene	<0.00200	0.100	0.0767	77	0.0762	76	70-130	1	35	mg/kg	06.18.18 08:51	
Ethylbenzene	<0.00200	0.100	0.0763	76	0.0731	73	70-130	4	35	mg/kg	06.18.18 08:51	
m,p-Xylenes	<0.00401	0.200	0.159	80	0.152	76	70-130	5	35	mg/kg	06.18.18 08:51	
o-Xylene	<0.00200	0.100	0.0760	76	0.0712	71	70-130	7	35	mg/kg	06.18.18 08:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		109		70-130	%	06.18.18 08:51
4-Bromofluorobenzene	91		120		70-130	%	06.18.18 08:51

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

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

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



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 # :

Field billable Hrs :

588902

* 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	

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	

REMARKS

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 24 Fed. 1 & 2 CTB PO#:

Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

Sampler Name: Ben J. Arguijo 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	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) Run PAH on Highest TPH Only if
								# Cont	Lab Only:			
1	W. Wall #1	6/4/18	1435	S			1		X	X	X	
2	E. Wall #2	6/7/18	1100	S			1		X	X	X	
3	W. Wall #2	6/7/18	1130	S			1		X	X	X	
4												
5												
6												
7												
8												
9												
0												

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 Absent Unclear	1-0.92 23 0.04	Non-Conformances found?			
Other:	LA AL NM Other:	NELAC DoD-ELAP Other:	XLS Other:			Samples intact upon arrival?			
Refrinquired by	Affiliation	Date	Time	Received by	Affiliation	Date	Time		
1	Trinity	6/11/18	1620	Brittany Cox		6/11/18	4:18	Received on Wet Ice?	
2		6/10/18	4:30	Kate K	Xenco	6/12/18	10:45	Labeled with proper preservatives?	
3								Received within holding time?	
4								Custody seals intact?	
								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 #

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

Final 1.000

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 06/12/2018 10:45:00 AM

Work Order #: 588902

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)?	-.9
#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)?	No
#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:

Katie Lowe

Date: 06/12/2018

Checklist reviewed by:

Holly Taylor

Date: 06/12/2018