

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary



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

Site Name: FNR 26 Federal #1 CTB NMOCD Reference#: 2RP-4595

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: M (SW/SW) Section: 26 Township: 23S Range: 30E County: Eddy GPS Coordinates: 32.2704697N -103.8581543W

Depth to Ground Water: 365' 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 Chloride: ☐ 250
☐ 1,000 ☒ 600
☒ 5,000

Date/Time of Release: 1/8/2018 Type of Release: Crude Oil & Produced Water Approximate Volume of Release: See Below

Background Information:

On January 8, 2018, OXY USA, Inc. (OXY), discovered a release at the FNR 26 Federal #1 Central Tank Battery (CTB). Failure of a clamp on a 2-inch steel gas sales line resulted in the release of approximately 4 barrels (bbls) of crude oil and 10 bbls of produced water, with no recovery. The clamp was repaired during initial response activities. Based on an environmental site assessment conducted on January 25, 2018, the release impacted an area of the tank battery pad measuring approximately 5,880 square feet.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia 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 January 25, 2018, during the initial environmental site assessment, a hand-auger was utilized to collect a series of soil samples from six (6) locations (SP-1 through SP-6) in the visibly stained area to investigate the extent of impacted soil. The auger holes were spaced approximately 30 to 35 feet part, in a grid-like pattern, and were advanced to total depths ranging from approximately 6 inches (SP-1, SP-3, and SP-4) to 1 foot (SP-2, SP-5, and SP-6) below ground surface (bgs). Soil samples were collected at 6-inch vertical intervals and field-screened with a chloride test kit. Confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results and field-screens indicated vertical delineation of chloride contamination had been achieved. However, additional delineation was required to determine the extent of TPH and BTEX contamination in the areas represented by auger holes SP-3 and SP-6.

On February 5, 2018, additional delineation was conducted at the site to investigate the extent of TPH and BTEX contamination. A delineation trench was advanced in the area represented by auger hole SP-3, and a hand auger was utilized to re-enter and further advance auger hole SP-6. Soil samples were collected at 1-foot vertical intervals until olfactory and visual senses suggested TPH and BTEX concentrations were below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site (i.e., 4 feet bgs in SP-3 and 3 feet bgs in SP-6). The soil samples were also field-screened with a chloride test kit, and confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results are pending.

Locations of the auger holes and the 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. Chloride field test results are summarized in Table 2.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary



Proposed Activities:

Upon receipt of laboratory analytical results from the February 5, 2018, delineation event, an "Environmental Site Summary & Spill Remediation Proposal" (Work Plan) will be developed, outlining an appropriate soil remediation strategy for the site. The Work Plan will be submitted to both the NMOCD and BLM for review and approval prior to conducting any excavation activities.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

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

Table 2: Chloride Field Tests

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

Appendix B: Depth-to-Groundwater Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

 3/7/2018
Ben J. Arguijo
Project Manager

Figures



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

Figure 1
Site Location Map
OXY USA, Inc.
FNR 26 Federal #1 CTB
Eddy County, New Mexico
NMOCD Reference #: 2RP-4595



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

Drawn By: BJA	Checked By: CTR
March 6, 2018	Scale: 1" = 2,000'



30 15 0 30

Distance in Feet

Legend

- Release
- Sample Location
- Delineation Trench

Figure 2
Sample Location Map
 OXY USA, Inc.
 FNR 26 Federal #1 CTB
 Eddy County, New Mexico
 NMOCD Reference #: 2RP-4595



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

Drawn By: BJA	Checked By: CTR
March 7, 2018	Scale: 1" = 30'

Tables

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

OXY USA, INC.
FNR 26 FEDERAL #1 CTB
EDDY COUNTY, NEW MEXICO
NMOCD REF. #: 2RP-4595



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300.1
				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	600
SP-1 @ 6"	6"	1/25/2018	In-Situ	<0.0199	1.53	3.51	8.60	3.36	12.0	17.0	900	2,840	470	4,210	548
SP-2 @ 6"	6"	1/25/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	38.8	<14.9	38.8	916
SP-2 @ 1'	1'	1/25/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	69.5	<15.0	69.5	170
SP-3 @ 6"	6"	1/25/2018	In-Situ	-	-	-	-	-	-	-	5,840	11,500	1,990	19,300	190
SP-4 @ 6"	6"	1/25/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	60.9	<15.0	60.9	54.6
SP-5 @ 6"	6"	1/25/2018	In-Situ	<0.0020	<0.0020	0.0026	0.0077	0.0056	0.0133	0.0159	<14.9	180	27.1	207	585
SP-5 @ 1'	1'	1/25/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	62.0	<15.0	62.0	114
SP-6 @ 6"	6"	1/25/2018	In-Situ	-	-	-	-	-	-	-	2,930	6,550	1,060	10,500	16,700
SP-6 @ 1'	1'	1/25/2018	In-Situ	-	-	-	-	-	-	-	1,320	3,540	636	5,500	211

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

TABLE 2
CHLORIDE FIELD TESTS

OXY USA, INC.
FNR 26 FEDERAL #1 CTB
EDDY COUNTY, NEW MEXICO
NMOCD REF. #: 2RP-4595



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-1 @ 6"	6"	1/25/2018	In-Situ	380
SP-2 @ 6"	6"	1/25/2018	In-Situ	608
SP-2 @ 1'	1'	1/25/2018	In-Situ	344
SP-3 @ 6"	6"	1/25/2018	In-Situ	208
SP-3 @ 1'	1'	3/5/2018	In-Situ	196
SP-3 @ 2'	2'	3/5/2018	In-Situ	356
SP-3 @ 3'	3'	3/5/2018	In-Situ	664
SP-3 @ 4'	4'	3/5/2018	In-Situ	432
SP-4 @ 6"	6"	1/25/2018	In-Situ	180
SP-5 @ 6"	6"	1/25/2018	In-Situ	608
SP-5 @ 1'	1'	1/25/2018	In-Situ	344
SP-6 @ 6"	6"	1/25/2018	In-Situ	14,928
SP-6 @ 1'	1'	1/25/2018	In-Situ	240
SP-6 @ 2'	2'	3/5/2018	In-Situ	224
SP-6 @ 3'	3'	3/5/2018	In-Situ	224

Concentrations in BOLD exceed the NMOCD RRAL

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

NM OIL CONSERVATION

ARTESIA DISTRICT

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

JAN 31 2018

Form C-141
Revised April 3, 2017

Submit Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1803253192

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	FNR 26 FEDERAL #1 CTB	Facility Type	BATTERY

Surface Owner	BLM	Mineral Owner	BLM	API No.	30-015-30412
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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
M	26	23S	30E	660	SOUTH	660	WEST	EDDY

Latitude 32.2704697° Longitude -103.8581543° NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCE WATER	Volume of Release	4 bbls OIL & 10 bbls PRODUCED WATER	Volume Recovered	0 bbls
Source of Release	2 inch steel Victaulic clamp on the gas sales line failure	Date and Hour of Occurrence	1/8/2018	Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM		
By Whom?	WADE DITTRICH	Date and Hour	01/25/2018 @ 4:43 PM	3:43pm * email	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 2 inch steel Victaulic clamp on the gas sales line failed causing 4 bbls of oil and 10 bbls of produced water. No fluids have been recovered at this time. The clamp has been repaired and returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 10x20ft (measurements are subject to change with GPS tracking). Remediation will be completed by an approved plan from NMOCD & 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>WADE DITTRICH</u>		
Printed Name:	WADE DITTRICH		
Title:	ENVIRONMENTAL SPECIALIST		
E-mail Address:	wade.dittrich@oxy.com		
Date:	1-31-18	Phone:	575-390-2828
OIL CONSERVATION DIVISION		SIGNED BY: <u>MIKE BRATCHER</u>	
Approved by Environmental Specialist:		Approval Date:	2/1/18
		Expiration Date:	N/A
Conditions of Approval:		Attached: <u>ARP-4595</u>	
See attached			

* Attach Additional Sheets If Necessary

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 607556.79

Northing (Y): 3570981.38

Radius: 1610



Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
FNR 26 Federal #1 CTB
Eddy County, New Mexico
NMOCD Reference #: 2RP-4595



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

Drawn By: BJA	Checked By: CTR
March 6, 2018	Not To Scale

Appendix C

Photographs

OXY USA, Inc. – FNR 26 1 CTB

Unit Letter “M” (SW/SW), Section 26, Township 23S, Range 30E



FNR 26 1 CTB - Release (Looking East-Southeast)



FNR 26 1 CTB - Release (Looking Southeast)

OXY USA, Inc. – FNR 26 1 CTB

Unit Letter “M” (SW/SW), Section 26, Township 23S, Range 30E



FNR 26 1 CTB – Release (Looking East-Northeast)



FNR 26 1 CTB – Release (Looking West)

OXY USA, Inc. – FNR 26 1 CTB

Unit Letter “M” (SW/SW), Section 26, Township 23S, Range 30E



FNR 26 1 CTB – Release (Looking West-Northwest)



FNR 26 1 CTB – Release (Looking Southwest)

OXY USA, Inc. – FNR 26 1 CTB

Unit Letter “M” (SW/SW), Section 26, Township 23S, Range 30E



FNR 26 1 CTB – Release (Looking Southwest)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 575034

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: FNR 26 1 CTB



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

Date Received in Lab: Tue Jan-30-18 02:40 pm

Report Date: 06-FEB-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	575034-001	575034-002	575034-003	575034-004	575034-005	575034-006
	<i>Field Id:</i>	SP-1 @ 6"	SP-2 @ 6"	SP-2 @ 1'	SP-3 @ 6"	SP-4 @ 6"	SP-5 @ 6"
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-25-18 12:30	Jan-25-18 12:45	Jan-25-18 13:10	Jan-25-18 13:05	Jan-25-18 13:20	Jan-25-18 13:30
BTEX by EPA 8021B	<i>Extracted:</i>	Feb-05-18 14:50	Feb-05-18 14:50	Feb-05-18 14:50		Feb-05-18 14:50	Feb-05-18 14:50
	<i>Analyzed:</i>	Feb-06-18 00:58	Feb-05-18 23:04	Feb-05-18 23:22		Feb-05-18 23:41	Feb-06-18 07:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL	mg/kg RL
Benzene		<0.0199 0.0199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	<0.00199 0.00199
Toluene		1.53 0.0199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		3.51 0.0199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	0.00256 0.00199
m,p-Xylenes		8.60 D 0.398	<0.00398 0.00398	<0.00402 0.00402		<0.00399 0.00399	0.00771 0.00398
o-Xylene		3.36 D 0.199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	0.00559 0.00199
Total Xylenes		12.0 0.199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	0.0133 0.00199
Total BTEX		17.0 0.0199	<0.00199 0.00199	<0.00201 0.00201		<0.00200 0.00200	0.0159 0.00199
Chloride by EPA 300	<i>Extracted:</i>	Feb-02-18 16:45	Feb-02-18 16:45	Feb-02-18 16:45	Feb-02-18 16:45	Feb-02-18 16:45	Feb-02-18 16:45
	<i>Analyzed:</i>	Feb-02-18 20:25	Feb-02-18 20:32	Feb-03-18 20:37	Feb-03-18 20:44	Feb-03-18 20:51	Feb-03-18 20:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		548 4.94	916 4.99	170 4.99	190 5.00	54.6 4.95	585 4.94
TPH By SW8015 Mod	<i>Extracted:</i>	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00
	<i>Analyzed:</i>	Feb-03-18 03:22	Feb-03-18 03:44	Feb-03-18 04:06	Feb-03-18 04:28	Feb-03-18 04:49	Feb-03-18 05:10
	<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)		900 15.0	<14.9 14.9	<15.0 15.0	5840 74.8	<15.0 15.0	<14.9 14.9
Diesel Range Organics (DRO)		2840 15.0	38.8 14.9	69.5 15.0	11500 74.8	60.9 15.0	180 14.9
Oil Range Hydrocarbons (ORO)		470 15.0	<14.9 14.9	<15.0 15.0	1990 74.8	<15.0 15.0	27.1 14.9
Total TPH		4210 15.0	38.8 14.9	69.5 15.0	19300 74.8	60.9 15.0	207 14.9

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

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 575034

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: FNR 26 1 CTB



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

Date Received in Lab: Tue Jan-30-18 02:40 pm

Report Date: 06-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	575034-007	575034-008	575034-009			
	Field Id:	SP-5 @ 1'	SP-6 @ 6"	SP-6 @ 1'			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jan-25-18 13:50	Jan-25-18 13:40	Jan-25-18 14:00			
BTEX by EPA 8021B	Extracted:	Feb-05-18 14:50					
	Analyzed:	Feb-06-18 00:20					
	Units/RL:	mg/kg RL					
	Benzene	<0.00202 0.00202					
	Toluene	<0.00202 0.00202					
Ethylbenzene		<0.00202 0.00202					
m,p-Xylenes		<0.00404 0.00404					
o-Xylene		<0.00202 0.00202					
Total Xylenes		<0.00202 0.00202					
Total BTEX		<0.00202 0.00202					
Chloride by EPA 300	Extracted:	Feb-02-18 16:45	Feb-02-18 16:45	Feb-02-18 16:45			
	Analyzed:	Feb-03-18 21:05	Feb-03-18 21:12	Feb-03-18 21:19			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
	Chloride	114 4.95	16700 99.6	211 4.99			
TPH By SW8015 Mod	Extracted:	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00			
	Analyzed:	Feb-03-18 05:33	Feb-03-18 05:54	Feb-03-18 06:15			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0	2930 75.0	1320 15.0			
	Diesel Range Organics (DRO)	62.0 15.0	6550 75.0	3540 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0	1060 75.0	636 15.0			
Total TPH		62.0 15.0	10500 75.0	5500 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 575034
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

FNR 26 1 CTB

06-FEB-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)



06-FEB-18

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

Reference: XENCO Report No(s): **575034**
FNR 26 1 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) 575034. 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. 575034 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 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6"	S	01-25-18 12:30		575034-001
SP-2 @ 6"	S	01-25-18 12:45		575034-002
SP-2 @ 1'	S	01-25-18 13:10		575034-003
SP-3 @ 6"	S	01-25-18 13:05		575034-004
SP-4 @ 6"	S	01-25-18 13:20		575034-005
SP-5 @ 6"	S	01-25-18 13:30		575034-006
SP-5 @ 1'	S	01-25-18 13:50		575034-007
SP-6 @ 6"	S	01-25-18 13:40		575034-008
SP-6 @ 1'	S	01-25-18 14:00		575034-009



CASE NARRATIVE

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

Project Name: *FNR 26 1 CTB*

Project ID:

Work Order Number(s): 575034

Report Date: 06-FEB-18

Date Received: 01/30/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3040267 BTEX by EPA 8021B

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



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-1 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-001

Date Collected: 01.25.18 12.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	548	4.94	mg/kg	02.02.18 20.25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	900	15.0	mg/kg	02.03.18 03.22		1
Diesel Range Organics (DRO)	C10C28DRO	2840	15.0	mg/kg	02.03.18 03.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	470	15.0	mg/kg	02.03.18 03.22		1
Total TPH	PHC635	4210	15.0	mg/kg	02.03.18 03.22		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	02.03.18 03.22		
o-Terphenyl	84-15-1	82	%	70-135	02.03.18 03.22		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-1 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-001

Date Collected: 01.25.18 12.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	02.06.18 00.58	U	10
Toluene	108-88-3	1.53	0.0199	mg/kg	02.06.18 00.58		10
Ethylbenzene	100-41-4	3.51	0.0199	mg/kg	02.06.18 00.58		10
m,p-Xylenes	179601-23-1	8.60	0.398	mg/kg	02.06.18 00.39	D	100
o-Xylene	95-47-6	3.36	0.199	mg/kg	02.06.18 00.39	D	100
Total Xylenes	1330-20-7	12.0	0.199	mg/kg	02.06.18 00.39		100
Total BTEX		17.0	0.0199	mg/kg	02.06.18 00.39		100
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120		%	80-120	02.06.18 00.58	
1,4-Difluorobenzene	540-36-3	89		%	80-120	02.06.18 00.58	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: SP-2 @ 6"

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-002

Date Collected: 01.25.18 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	916	4.99	mg/kg	02.02.18 20.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	02.03.18 03.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	38.8	14.9	mg/kg	02.03.18 03.44		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	02.03.18 03.44	U	1
Total TPH	PHC635	38.8	14.9	mg/kg	02.03.18 03.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	02.03.18 03.44	
o-Terphenyl	84-15-1	92	%	70-135	02.03.18 03.44	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-2 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-002

Date Collected: 01.25.18 12.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.05.18 23.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.05.18 23.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	80-120	02.05.18 23.04		
1,4-Difluorobenzene	540-36-3	93	%	80-120	02.05.18 23.04		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

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

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-003

Date Collected: 01.25.18 13.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	170	4.99	mg/kg	02.03.18 20.37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.03.18 04.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	69.5	15.0	mg/kg	02.03.18 04.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.03.18 04.06	U	1
Total TPH	PHC635	69.5	15.0	mg/kg	02.03.18 04.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	02.03.18 04.06	
o-Terphenyl	84-15-1	86	%	70-135	02.03.18 04.06	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

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

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-003

Date Collected: 01.25.18 13.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.18 23.22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.05.18 23.22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	92	%	80-120	02.05.18 23.22		
4-Bromofluorobenzene	460-00-4	95	%	80-120	02.05.18 23.22		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-3 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-004

Date Collected: 01.25.18 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	190	5.00	mg/kg	02.03.18 20.44		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	5840	74.8	mg/kg	02.03.18 04.28		5
Diesel Range Organics (DRO)	C10C28DRO	11500	74.8	mg/kg	02.03.18 04.28		5
Oil Range Hydrocarbons (ORO)	PHCG2835	1990	74.8	mg/kg	02.03.18 04.28		5
Total TPH	PHC635	19300	74.8	mg/kg	02.03.18 04.28		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	02.03.18 04.28		
o-Terphenyl	84-15-1	97	%	70-135	02.03.18 04.28		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-005

Date Collected: 01.25.18 13.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.6	4.95	mg/kg	02.03.18 20.51		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.03.18 04.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.9	15.0	mg/kg	02.03.18 04.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.03.18 04.49	U	1
Total TPH	PHC635	60.9	15.0	mg/kg	02.03.18 04.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	02.03.18 04.49	
o-Terphenyl	84-15-1	89	%	70-135	02.03.18 04.49	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-005

Date Collected: 01.25.18 13.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.05.18 23.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 23.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	80-120	02.05.18 23.41		
4-Bromofluorobenzene	460-00-4	92	%	80-120	02.05.18 23.41		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: SP-5 @ 6"

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-006

Date Collected: 01.25.18 13.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	585	4.94	mg/kg	02.03.18 20.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	02.03.18 05.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	180	14.9	mg/kg	02.03.18 05.10		1
Oil Range Hydrocarbons (ORO)	PHCG2835	27.1	14.9	mg/kg	02.03.18 05.10		1
Total TPH	PHC635	207	14.9	mg/kg	02.03.18 05.10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	02.03.18 05.10	
o-Terphenyl	84-15-1	93	%	70-135	02.03.18 05.10	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-5 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-006

Date Collected: 01.25.18 13.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.06.18 07.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.06.18 07.54	U	1
Ethylbenzene	100-41-4	0.00256	0.00199	mg/kg	02.06.18 07.54		1
m,p-Xylenes	179601-23-1	0.00771	0.00398	mg/kg	02.06.18 07.54		1
o-Xylene	95-47-6	0.00559	0.00199	mg/kg	02.06.18 07.54		1
Total Xylenes	1330-20-7	0.0133	0.00199	mg/kg	02.06.18 07.54		1
Total BTEX		0.0159	0.00199	mg/kg	02.06.18 07.54		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	85		%	80-120	02.06.18 07.54	
4-Bromofluorobenzene	460-00-4	93		%	80-120	02.06.18 07.54	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: SP-5 @ 1'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-007

Date Collected: 01.25.18 13.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	4.95	mg/kg	02.03.18 21.05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.03.18 05.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	62.0	15.0	mg/kg	02.03.18 05.33		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.03.18 05.33	U	1
Total TPH	PHC635	62.0	15.0	mg/kg	02.03.18 05.33		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-135	02.03.18 05.33		
o-Terphenyl	84-15-1	83	%	70-135	02.03.18 05.33		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-5 @ 1'**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-007

Date Collected: 01.25.18 13.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.06.18 00.20	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.06.18 00.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	80-120	02.06.18 00.20		
1,4-Difluorobenzene	540-36-3	98	%	80-120	02.06.18 00.20		



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-6 @ 6"**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-008

Date Collected: 01.25.18 13.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16700	99.6	mg/kg	02.03.18 21.12		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2930	75.0	mg/kg	02.03.18 05.54		5
Diesel Range Organics (DRO)	C10C28DRO	6550	75.0	mg/kg	02.03.18 05.54		5
Oil Range Hydrocarbons (ORO)	PHCG2835	1060	75.0	mg/kg	02.03.18 05.54		5
Total TPH	PHC635	10500	75.0	mg/kg	02.03.18 05.54		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.03.18 05.54	
o-Terphenyl	84-15-1	94	%	70-135	02.03.18 05.54	



Certificate of Analytical Results 575034



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

FNR 26 1 CTB

Sample Id: **SP-6 @ 1'**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575034-009

Date Collected: 01.25.18 14.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.02.18 16.45

Basis: Wet Weight

Seq Number: 3040187

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	211	4.99	mg/kg	02.03.18 21.19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040140

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1320	15.0	mg/kg	02.03.18 06.15		1
Diesel Range Organics (DRO)	C10C28DRO	3540	15.0	mg/kg	02.03.18 06.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	636	15.0	mg/kg	02.03.18 06.15		1
Total TPH	PHC635	5500	15.0	mg/kg	02.03.18 06.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	02.03.18 06.15		
o-Terphenyl	84-15-1	80	%	70-135	02.03.18 06.15		

- 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

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

Certified and approved by numerous States and Agencies.

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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
FNR 26 1 CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3040187

MB Sample Id: 7638556-1-BLK

Matrix: Solid

LCS Sample Id: 7638556-1-BKS

Prep Method: E300P

Date Prep: 02.02.18

LCSD Sample Id: 7638556-1-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	272	109	267	107	90-110	2	20	mg/kg	02.02.18 18:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3040187

Parent Sample Id: 574954-006

Matrix: Soil

MS Sample Id: 574954-006 S

Prep Method: E300P

Date Prep: 02.02.18

MSD Sample Id: 574954-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	59.5	250	320	104	316	103	90-110	1	20	mg/kg	02.02.18 20:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3040187

Parent Sample Id: 575271-001

Matrix: Soil

MS Sample Id: 575271-001 S

Prep Method: E300P

Date Prep: 02.02.18

MSD Sample Id: 575271-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	751	250	957	82	956	82	90-110	0	20	mg/kg	02.02.18 18:33	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3040140

MB Sample Id: 7638545-1-BLK

Matrix: Solid

LCS Sample Id: 7638545-1-BKS

Prep Method: TX1005P

Date Prep: 02.02.18

LCSD Sample Id: 7638545-1-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	961	96	905	91	70-135	6	35	mg/kg	02.03.18 01:34	
Diesel Range Organics (DRO)	<15.0	1000	1060	106	976	98	70-135	8	35	mg/kg	02.03.18 01:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		122		114		70-135	%	02.03.18 01:34
o-Terphenyl	106		118		122		70-135	%	02.03.18 01:34

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



Trinity Oilfield Services & Rentals, LLC

FNR 26 1 CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3040140

Parent Sample Id: 575033-005

Matrix: Soil

MS Sample Id: 575033-005 S

Prep Method: TX1005P

Date Prep: 02.02.18

MSD Sample Id: 575033-005 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	823	83	846	85	70-135	3	35	mg/kg	02.03.18 02:40	
Diesel Range Organics (DRO)	120	997	1010	89	1030	91	70-135	2	35	mg/kg	02.03.18 02:40	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		98		70-135	%	02.03.18 02:40
o-Terphenyl	98		80		70-135	%	02.03.18 02:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040267

MB Sample Id: 7638660-1-BLK

Matrix: Solid

LCS Sample Id: 7638660-1-BKS

Prep Method: SW5030B

Date Prep: 02.05.18

LCSD Sample Id: 7638660-1-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	0.0918	92	0.104	103	70-130	12	35	mg/kg	02.05.18 19:53	
Toluene	<0.00200	0.0998	0.0923	92	0.102	101	70-130	10	35	mg/kg	02.05.18 19:53	
Ethylbenzene	<0.00200	0.0998	0.103	103	0.108	107	71-129	5	35	mg/kg	02.05.18 19:53	
m,p-Xylenes	<0.00399	0.200	0.202	101	0.213	106	70-135	5	35	mg/kg	02.05.18 19:53	
o-Xylene	<0.00200	0.0998	0.101	101	0.107	106	71-133	6	35	mg/kg	02.05.18 19:53	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		93		94		80-120	%	02.05.18 19:53
4-Bromofluorobenzene	92		97		108		80-120	%	02.05.18 19:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040267

Parent Sample Id: 575036-014

Matrix: Soil

MS Sample Id: 575036-014 S

Prep Method: SW5030B

Date Prep: 02.05.18

MSD Sample Id: 575036-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0758	76	0.0803	80	70-130	6	35	mg/kg	02.05.18 20:31	
Toluene	<0.00199	0.0994	0.0781	79	0.0852	85	70-130	9	35	mg/kg	02.05.18 20:31	
Ethylbenzene	<0.00199	0.0994	0.0875	88	0.0939	94	71-129	7	35	mg/kg	02.05.18 20:31	
m,p-Xylenes	<0.00398	0.199	0.172	86	0.182	91	70-135	6	35	mg/kg	02.05.18 20:31	
o-Xylene	<0.00199	0.0994	0.0870	88	0.0901	90	71-133	4	35	mg/kg	02.05.18 20:31	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		89		80-120	%	02.05.18 20:31
4-Bromofluorobenzene	107		103		80-120	%	02.05.18 20:31

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



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
70001-C

Page 1 of 1

LAB W.O #: 575034

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

A.	None	E.	HCL	I.	Ice		
B.	HNO ₃	F.	MeOH	J.	MCAA	C.	
H.	SO ₄	G.	Na ₂ S ₂ O ₅	K.	ZnAc&NaOH		
D.	NaOH	H.	NaHSO ₄	L.	Asbc Acid&NaOH		
O.							

^ Matrix Type Codes

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

REMARKS

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:	FNR 26 1 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	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL J on Highest TPH Only)
1	SP-1 @ 6"	1/25/18	1230	S			1		X			
2	SP-2 @ 6"	1/25/18	1245	S			1		X			
3	SP-2 @ 1'	1/25/18	1310	S			1		X			
4	SP-3 @ 6"	1/25/18	1305	S			1		X			
5	SP-4 @ 6"	1/25/18	1320	S			1		X			
6	SP-5 @ 6"	1/25/18	1330	S			1		X			
7	SP-5 @ 1'	1/25/18	1350	S			1		X			
8	SP-6 @ 6"	1/25/18	1340	S			1		X			
9	SP-6 @ 1'	1/25/18	1400	S			1		X			
0												

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
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 - 1.8
Relinquished by	Affiliation	Date	Time	Received by	Affiliation
1	Trinity	1-30-18	2:40pm	Esperanza Gonzalez	Mail Services
2	Esperanza Gonzalez	Mail Services	1-30-18	3:37	11:30
3					
4					

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0334
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless prior 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 Dai

Temp: 0.6 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 0.4

counts



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/30/2018 02:40:00 PM

Work Order #: 575034

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)?	-1.8
#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: 01/31/2018

Checklist reviewed by:

Holly Taylor

Date: 02/01/2018