

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal



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

Site Name: Madera 35 Federal #1H CTB NMOCD Reference#: 1RP-4785 & 4906

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: "D" (NW/NW) Section: 35 Township: 26S Range: 34E County: Lea GPS Coordinates: 32.005939 N -103.448074 W

Depth to Ground Water: 135' - 140' 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: 8/8/17 & 12/26/17 Type of Release: Produced Water Approximate Volume of Release: See Below

Background Information:

On August 8, 2017, OXY USA, Inc. (OXY), discovered a release at the Madera 35 Federal #1H Central Tank Battery (CTB). Lightning struck the on-site water storage tanks, resulting in the release of approximately 96 barrels (bbls) of produced water, with no recovery. The release affected a total area of the containment area and caliche pad measuring approximately 5,600 square feet. The damaged storage tanks were removed or repaired following initial response activities.

On December 26, 2017, OXY discovered an additional release at the Madera 35 Federal #1H CTB. A section of a 4-inch steel produced water line failed, resulting in the release of approximately 25 bbls of produced water, with no recovery. The damaged section of pipe was replaced during initial response activities. The release commingled with the August 2017 release and affected a total area of the containment area and caliche pad measuring approximately 3,825 square feet.

The releases were 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" forms (C-141s) are provided in Appendix A. General photographs of the releases are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On August 10, 2017, a hand-auger was utilized to collect a series of soil samples from two (2) locations (SP-1 and SP-2) in the primary pooling area of the August 2017 release. The auger holes were spaced approximately 45 feet apart and were advanced to total depths of 1.5 feet 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 benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively.

On August 24, 2017, a hand-auger was utilized to collect a series of soil samples from two (2) locations (SP-3 and SP-4) along the flow path of the August 2017 release. The auger holes were advanced to the extent practicable and ranged in total depth from 5 feet bgs (SP-3) to 5.5 feet bgs (SP-4). Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. The hand auger was also utilized to further advance existing auger holes SP-1 and SP-2 to 6.5 feet bgs and 2 feet bgs, respectively (the extents practicable). Soil samples were collected from the bottom of each auger hole and field-screened with a chloride test kit. Confirmation samples from each auger hole were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations.

Laboratory analytical results and field screens indicated vertical delineation of the areas represented by auger holes SP-1 through SP-4 had been achieved. However, delineation of the remainder of the release, including inside the containment area, was not possible at the time, as repair/removal of the damaged storage tanks was ongoing.

Trinity Oilfield Services & Rentals, LLC

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Summary of Field Activities (cont.):

Repairs of the Madera 35 Federal #1H CTB were completed in mid-September. A new containment area was constructed around the facility, which includes steel perimeter walls extending approximately 2 feet above ground surface. A felt liner was installed on the floor of the new containment area, and the floor and perimeter walls were coated with an impermeable, spray-on poly liner.

On September 22, 2017, trenches were advanced in the areas represented by auger holes SP-2 and SP-3 to confirm that vertical delineation had been achieved. The trenches were advanced to total depths of 6.5 feet bgs (SP-2) and 8 feet bgs (SP-3). Soil samples were collected from the bottom of each trench and field-screened with a chloride test kit. An additional delineation trench (SP-5) was advanced inside the containment area, in the footprint of a storage tank that had been destroyed by the lightning strike. The trench was advanced to a total depth of 5 feet bgs. Soil samples were collected at 6-inch to 2-foot vertical intervals and field-screened with a chloride test kit. Field-screens and laboratory analytical results indicated delineation of the August 2017 release had been achieved.

On December 28, 2017, a hand-auger was utilized to collect a series of soil samples from three (3) locations (SP-6 through SP-8) along the flow path and in the primary pooling area of the December 2017 release. Soil samples were collected at 6-inch to 1-foot vertical intervals and field-screened with a chloride test kit. Field screen results confirmed that the release commingled with the August 2017 release and indicated that delineation of the primary pooling area had been achieved.

Locations of the auger holes and delineation trenches are depicted in Figure 2, "Sample Location Map". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D.

Proposed Activities:

OXY proposes to conduct the following activities to progress the Madera 35 Federal #1H CTB release site to an NMOCD- and BLM-approved closure:

- The August 8 and December 26, 2017, releases will be remediated concurrently.
- Delineation trenches will be advanced to the extent practicable in the areas represented by auger holes SP-7 and SP-8 to further delineate the vertical extent of impacted soil. Soil samples will be collected at 1- to 2-foot vertical intervals and field-screened with a chloride test kit and/or olfactory/visual senses. Representative soil samples will be submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using EPA Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively.
- Excavation in some impacted areas may be hindered by the presence of active pumps, pipes, electrical lines, etc. The excavation will be advanced horizontally until field test readings and/or visual/olfactory senses suggest contaminants of concern are below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site (or to the extent practicable). The excavation will be advanced vertically as follows:
 - Maximum depth of 6 inches bgs in the area south of the former containment (represented by auger hole SP-4), as well as along the pipe array that bisects the release site north-to-south (see Figure 2).
 - Maximum depth of 1 to 2 feet bgs in the footprint of the former containment area and in the area represented by auger hole/delineation trench SP-5.
 - Maximum depth of 3 feet bgs in the areas represented by auger holes SP-1, SP-2, and SP-6.
 - Maximum depth of 4 feet bgs in the areas represented by auger holes SP-3, SP-7, and SP-8.
- Soil samples will be collected at approximate 50-foot horizontal intervals from the sidewalls of the excavation(s) and submitted to Xenco Laboratories for confirmatory analyses of chloride, TPH, and/or BTEX concentrations using the EPA analytical methods listed above.
- All excavated soil will be stockpiled on-site on 6-mil plastic, pending transfer to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.
- All open excavations will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and wildlife.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Spill Remediation Proposal



Proposed Activities (cont.):

- A 20-mil, impermeable, plastic liner will be installed at approximately 4 feet bgs in the areas represented by auger holes SP-3, SP-7, and SP-8. This engineered control will serve to inhibit vertical migration of contaminants remaining in-situ. Felt padding will be installed on the floor of the excavation prior to installation of the liner to protect it during installation and backfilling activities.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary" will be submitted to the NMOCD and BLM, documenting remediation activities and results of confirmation soil samples.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

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

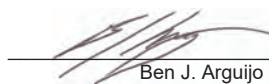
Table 2: Chloride Field Tests

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

Appendix B: Photographs

Appendix C: Depth-to-Groundwater Data

Appendix D: Laboratory Analytical Results

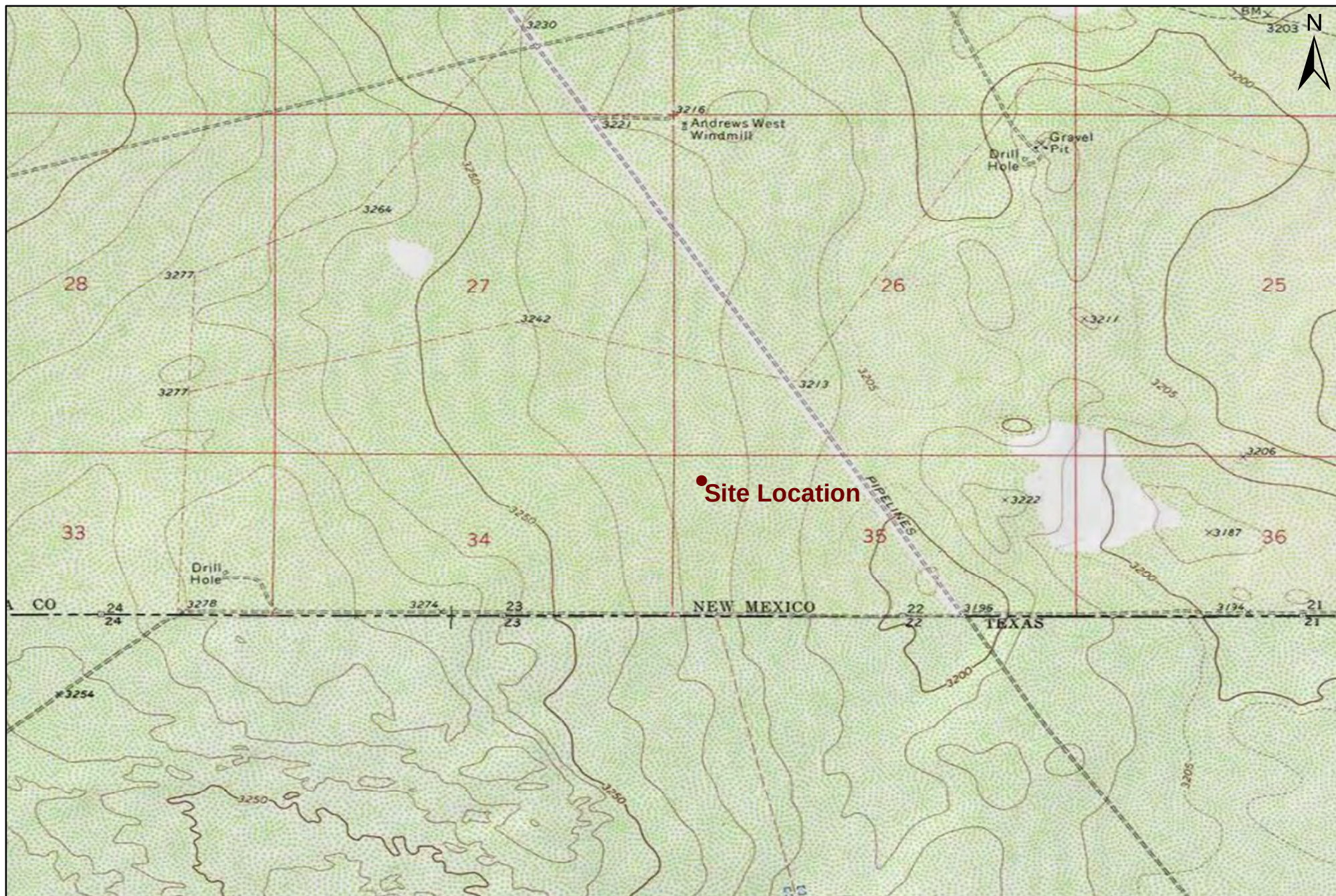
 4/10/2018
Ben J. Arguijo
Project Manager

APPROVED

By Olivia Yu at 11:39 am, May 07, 2018

NMOCD approves of the additional delineation required for 1RP-4785 & 1RP-4906. For proposed remediation, bottom and sidewall/edge samples are required for each of the different depths of excavation.

Figures



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

Figure 1
Site Location Map
OXY USA, Inc.
Madera 35 Federal #1H CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4785 & 4906



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

Drawn By: BJA	Checked By: CTR
August 29, 2017	Scale: 1" = 2,000'

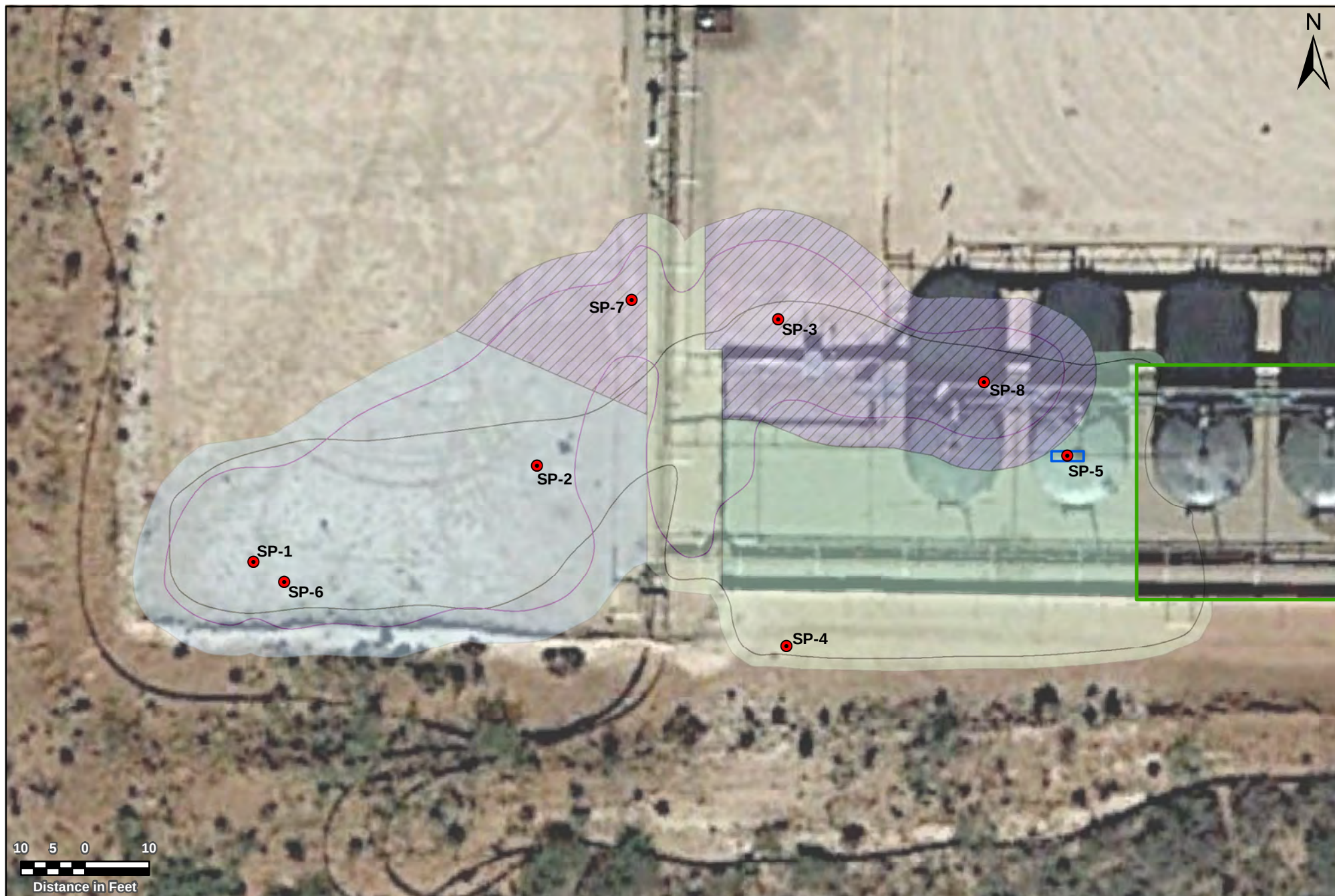


Figure 2
Sample Location Map
OXY USA, Inc.
Madera 35 Federal #1H CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4785 & 4906



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

Drawn By: BJA	Checked By: CTR
March 13, 2018	Scale: 1" = 20'

Tables

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

OXY USA, INC.
MADERA 35 FEDERAL #1H CTB
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4785 & 4906



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 @ 0.5'	6"	8/10/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	392
SP-1 @ 1'	1'	8/10/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	15.2
SP-1 @ 1.5	1.5'	8/10/2017	In-Situ	<0.0040	<0.0040	<0.0040	<0.0073	0.00462	0.00462	0.00462	<15.0	<15.0	<15.0	<15.0	16.2
SP-1 @ 6.5'	6.5'	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	68.3	<15.0	68.3	59.6
SP-2 @ 0.5'	6"	8/10/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	979
SP-2 @ 1'	1'	8/10/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	108
SP-2 @ 1.5	1.5'	8/10/2017	In-Situ	<0.0040	<0.0040	<0.0040	<0.0072	<0.0040	<0.0040	<0.0040	<15.0	<15.0	<15.0	<15.0	64.3
SP-2 @ 2'	2'	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	862	244	1,110	307
SP-2 @ 6.5'	6.5'	9/22/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0067	<0.0033	<0.0033	<0.0033	<15.0	<15.0	<15.0	<15.0	<4.92
SP-3 @ 6"	6"	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	4,380
SP-3 @ 2'	2'	8/24/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	2,160
SP-3 @ 4'	4'	8/24/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	-	684
SP-3 @ 5'	5'	8/24/2017	In-Situ	<0.0040	<0.0040	<0.0040	<0.0073	<0.0040	<0.0040	<0.0040	<15.0	<15.0	<15.0	<15.0	104
SP-3 @ 8'	8'	9/22/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0067	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	46.8
SP-4 @ 6"	6"	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	100	22.0	122	18.1
SP-4 @ 1'	1'	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	37.8	<15.0	37.8	10.4
SP-4 @ 5.5'	5.5'	8/24/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	52.9	<14.9	52.9	<4.92
SP-5 @ 6"	6"	9/22/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<15.0	<15.0	<15.0	<15.0	30.2
SP-5 @ 4'	4'	9/22/2017	In-Situ	<0.0035	<0.0035	<0.0035	<0.0069	<0.0035	<0.0035	<0.0035	<14.9	<14.9	<14.9	<14.9	<4.94
SP-5 @ 5'	5'	9/22/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	469

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
MADERA 35 FEDERAL #1H CTB
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4785 & 4906**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
August 2017 Release				
SP-1 @ Surface	Surface	8/10/2017	In-Situ	260
SP-1 @ 6"	6"	8/10/2017	In-Situ	320
SP-1 @ 1'	1'	8/10/2017	In-Situ	<128
SP-1 @ 1.5'	1.5'	8/10/2017	In-Situ	<128
SP-1 @ 6.5'	6.5'	8/24/2017	In-Situ	<128
SP-2 @ Surface	Surface	8/10/2017	In-Situ	836
SP-2 @ 6"	6"	8/10/2017	In-Situ	1,320
SP-2 @ 1'	1'	8/10/2017	In-Situ	356
SP-2 @ 1.5'	1.5'	8/10/2017	In-Situ	128
SP-2 @ 2'	2'	8/24/2017	In-Situ	176
SP-2 @ 6.5'	6.5'	9/22/2017	In-Situ	<128
SP-3 @ 6"	6"	8/24/2017	In-Situ	3,860
SP-3 @ 1'	1'	8/24/2017	In-Situ	1,920
SP-3 @ 2'	2'	8/24/2017	In-Situ	1,780
SP-3 @ 3'	3'	8/24/2017	In-Situ	260
SP-3 @ 4'	4'	8/24/2017	In-Situ	152
SP-3 @ 5'	5'	8/24/2017	In-Situ	128
SP-3 @ 8'	8'	9/22/2017	In-Situ	128
SP-4 @ 6"	6"	8/24/2017	In-Situ	<128
SP-4 @ 1'	1'	8/24/2017	In-Situ	<128
SP-4 @ 5.5'	5.5'	8/24/2017	In-Situ	<128
SP-5 @ 6"	6"	9/22/2017	In-Situ	<128
SP-5 @ 2'	2'	9/22/2017	In-Situ	<128
SP-5 @ 4'	4'	9/22/2017	In-Situ	<128
SP-5 @ 5'	5'	9/22/2017	In-Situ	<128
December 2017 Release				
SP-6 @ 6"	6"	12/28/2017	In-Situ	7,160
SP-6 @ 1'	1'	12/28/2017	In-Situ	4,768
SP-6 @ 2'	2'	12/28/2017	In-Situ	5,164
SP-6 @ 3'	3'	12/28/2017	In-Situ	380
SP-7 @ 6"	6"	12/28/2017	In-Situ	9,280
SP-7 @ 1'	1'	12/28/2017	In-Situ	5,164
SP-7 @ 2'	2'	12/28/2017	In-Situ	4,068
SP-7 @ 3'	3'	12/28/2017	In-Situ	3,756
SP-7 @ 4'	4'	12/28/2017	In-Situ	3,756

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
MADERA 35 FEDERAL #1H CTB
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4785 & 4906**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-8 @ 6"	6"	12/28/2017	In-Situ	4,068
SP-8 @ 1'	1'	12/28/2017	In-Situ	1,712
SP-8 @ 2'	2'	12/28/2017	In-Situ	1,712
SP-8 @ 3'	3'	12/28/2017	In-Situ	4,404
SP-8 @ 4'	4'	12/28/2017	In-Situ	5,580

Concentrations in BOLD exceed the NMOCD RRAL

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	MADERA 35 FEDERAL #1H CTB	Facility Type	BATTERY
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-025-41083

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	35	26S	34E	400	NORTH	329	WEST	LEA

Latitude_32.005939_ Longitude_-103.448074_ NAD83

NATURE OF RELEASE

Type of Release	PRODUCED WATER	Volume of Release	96 bbls	Volume Recovered	0 bbls
Source of Release	Lighting struck water tanks	Date and Hour of Occurrence	08/08/2017	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	8-9-2017 @ 8:23 AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 1:16 pm, Aug 11, 2017

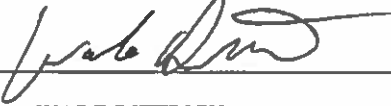
Describe Cause of Problem and Remedial Action Taken.*

Spill was caused when lighting struck the water tanks. Repairs will be made and then returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 50x100 FT, Leak did not leave the location-leak is partially outside containment (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the 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: 	OIL CONSERVATION DIVISION	
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: 	
Title: ENVIROMENTAL COORDINATOR	Approval Date: 8/11/2017	Expiration Date:
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: see attached directive	Attached ☒
Date: 8/9/2017	Phone: 575-390-2828	

* Attach Additional Sheets If Necessary

1RP-4785

nOY1722348017

pOY1722348422

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	MADERA 35 FEDERAL #1H CTB	Facility Type	BATTERY
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-025-41083

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	35	26S	34E	400	NORTH	329	WEST	LEA

Latitude 32.005939 Longitude -103.448074 NAD83

NATURE OF RELEASE

Type of Release	PRODUCED WATER	Volume of Release	25 bbls	Volume Recovered	0 bbls
Source of Release	4 inch steel produced water line failure.	Date and Hour of Occurrence	12/26/2017	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	12/27/2017 @ 4:37 PM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 8:33 am, Jan 02, 2018

Describe Cause of Problem and Remedial Action Taken.*

Spill was caused when a 4 inch steel produced water line failed. Repairs will be made and then returned to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 15x20 FT, Leak is partially inside the containment-leak is partially outside containment (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and the 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: 	OIL CONSERVATION DIVISION	
Printed Name: WADE DITTRICH	Approved by Environmental Specialist: 	
Title: ENVIROMENTAL SPECIALIST	Approval Date: 1/2/2018	Expiration Date:
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval: see attached directive	Attached ☒
Date: 12/28/2017	Phone: 575-390-2828	

* Attach Additional Sheets If Necessary

Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.

1RP-4906

nOY1800231197

pOY1800231501

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): 646586.17

Northing (Y): 3542146.33

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 9:39 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

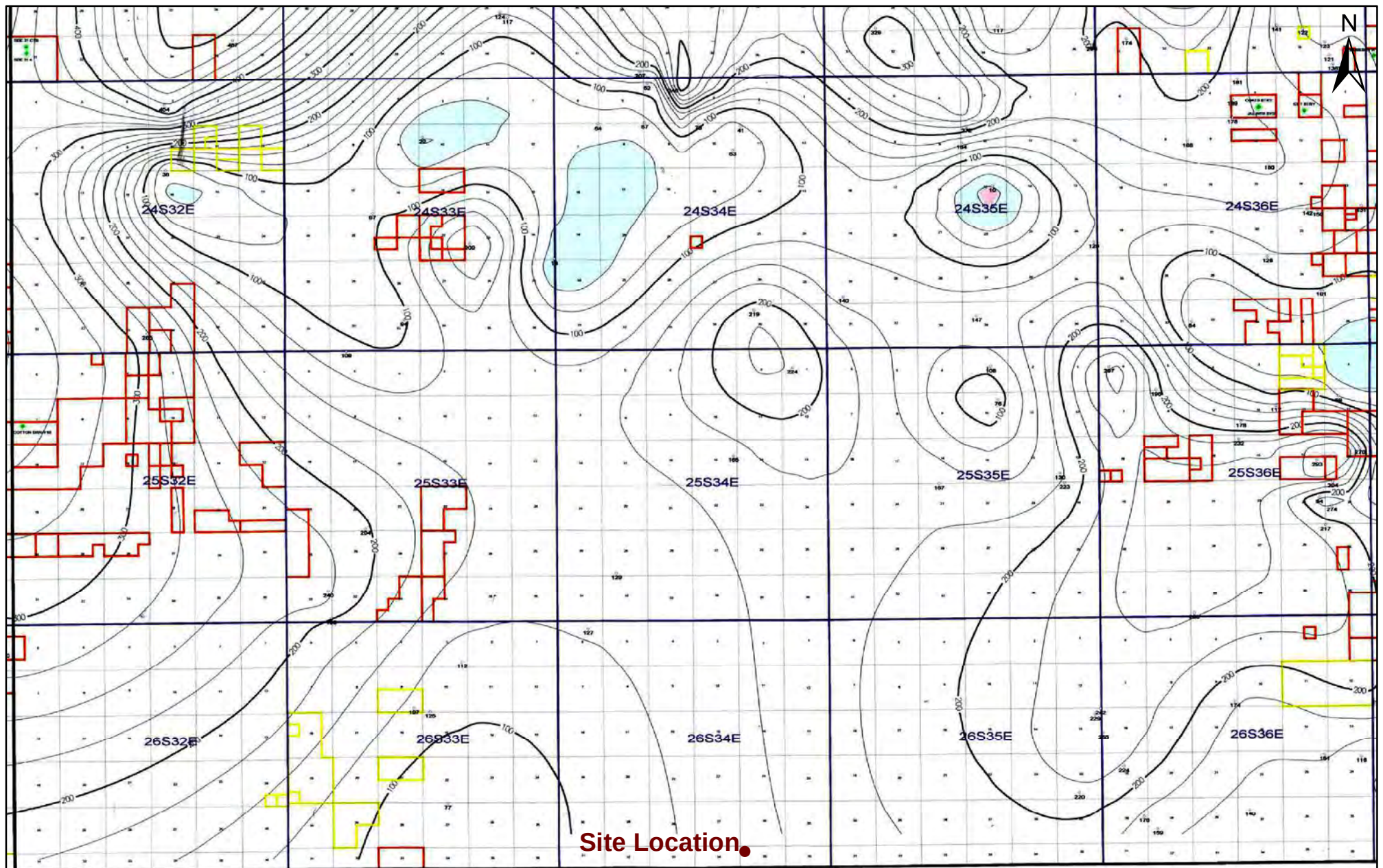


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Madera 35 Federal #1H CTB
Lea County, New Mexico
NMOCD Reference #: 1RP-4785



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

Drawn By: BJA	Checked By: CTR
November 17, 2017	Not To Scale

Appendix C

Photographs



Madera 35 Federal #1H CTB – August 2017 Release (Looking East-Southeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking East)



Madera 35 Federal #1H CTB – August 2017 Release (Looking East)



Madera 35 Federal #1H CTB – August 2017 Release (Looking North-Northeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking East-Northeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking North)



Madera 35 Federal #1H CTB – August 2017 Release (Looking East)



Madera 35 Federal #1H CTB – August 2017 Release (Looking Southeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking Southeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking South-Southeast)



Madera 35 Federal #1H CTB – August 2017 Release (Looking South)



Madera 35 Federal #1H CTB – December 2017 Release (Looking Southwest)



Madera 35 Federal #1H CTB – December 2017 Release (Looking West)



Madera 35 Federal #1H CTB – December 2017 Release (Looking East-Northeast)



Madera 35 Federal #1H CTB – December 2017 Release (Looking Southeast)



Madera 35 Federal #1H CTB – December 2017 Release (Looking South)



Madera 35 Federal #1H CTB – December 2017 Release (Looking Southwest)



Madera 35 Federal #1H CTB – December 2017 Release (Looking Southwest)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 559993

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Madera 35 Fed CTB



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs

Date Received in Lab: Fri Aug-11-17 01:00 pm

Report Date: 21-AUG-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	559993-001	559993-002	559993-003	559993-004	559993-005	559993-006
	Field Id:	SP-1 @ 0.5'	SP-1 @ 1'	SP-1 @ 1.5'	SP-2 @ 0.5'	SP-2 @ 1'	SP-2 @ 1.5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-10-17 09:35	Aug-10-17 09:40	Aug-10-17 09:45	Aug-10-17 09:50	Aug-10-17 10:00	Aug-10-17 10:05
BTEX by EPA 8021B	Extracted:	Aug-15-17 08:45	Aug-15-17 08:45	Aug-16-17 09:20	Aug-16-17 08:00	Aug-15-17 11:00	Aug-16-17 09:20
	Analyzed:	Aug-18-17 15:27	Aug-18-17 15:27	Aug-16-17 23:57	Aug-16-17 17:41	Aug-16-17 02:25	Aug-16-17 23:02
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00366 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00366 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00366 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400	<0.00733 0.00733	<0.00403 0.00403	<0.00402 0.00402	<0.00717 0.00717
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	0.00462 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	0.00462 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	0.00462 0.00366	<0.00202 0.00202	<0.00201 0.00201	<0.00358 0.00358
Chloride by EPA 300	Extracted:	Aug-17-17 12:00	Aug-17-17 12:00	Aug-17-17 12:00	Aug-17-17 12:00	Aug-17-17 12:00	Aug-17-17 12:00
	Analyzed:	Aug-17-17 19:29	Aug-17-17 19:37	Aug-17-17 20:00	Aug-17-17 20:07	Aug-17-17 20:15	Aug-17-17 20:23
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		392 4.99	15.2 4.94	16.2 5.00	979 4.97	108 4.98	64.3 4.93
TPH By SW8015 Mod	Extracted:	Aug-11-17 19:00	Aug-11-17 19:00	Aug-11-17 19:00	Aug-11-17 19:00	Aug-11-17 18:00	Aug-11-17 18:00
	Analyzed:	Aug-14-17 09:25	Aug-14-17 09:25	Aug-14-17 09:25	Aug-14-17 09:25	Aug-12-17 06:14	Aug-12-17 06:36
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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

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

Holly Taylor
Project Manager

Analytical Report 559993
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Madera 35 Fed CTB

21-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)



21-AUG-17

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

Reference: XENCO Report No(s): **559993**
Madera 35 Fed CTB
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) 559993. 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. 559993 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 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 0.5'	S	08-10-17 09:35		559993-001
SP-1 @ 1'	S	08-10-17 09:40		559993-002
SP-1 @ 1.5'	S	08-10-17 09:45		559993-003
SP-2 @ 0.5'	S	08-10-17 09:50		559993-004
SP-2 @ 1'	S	08-10-17 10:00		559993-005
SP-2 @ 1.5'	S	08-10-17 10:05		559993-006



CASE NARRATIVE

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

Project Name: *Madera 35 Fed CTB*

Project ID:
Work Order Number(s): 559993

Report Date: 21-AUG-17
Date Received: 08/11/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3025341 BTEX by EPA 8021B

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

Batch: LBA-3025343 BTEX by EPA 8021B

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

Batch: LBA-3025345 BTEX by EPA 8021B

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

Batch: LBA-3025365 BTEX by EPA 8021B

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



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-001

Date Collected: 08.10.17 09.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 08.17.17 12.00

Basis: Wet Weight

Seq Number: 3025288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	392	4.99	mg/kg	08.17.17 19.29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.11.17 19.00

Basis: Wet Weight

Seq Number: 3024777

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	08.14.17 09.25		
o-Terphenyl	84-15-1	101	%	70-135	08.14.17 09.25		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-001

Date Collected: 08.10.17 09.35

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.17 08.45

Basis: Wet Weight

Seq Number: 3025365

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.18.17 15.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	80-120	08.18.17 15.27		
1,4-Difluorobenzene	540-36-3	95	%	80-120	08.18.17 15.27		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-1 @ 1'**
Lab Sample Id: 559993-002

Matrix: Soil
Date Collected: 08.10.17 09.40

Date Received: 08.11.17 13.00

Analytical Method: Chloride by EPA 300

Tech: MGO

Analyst: MGO

Seq Number: 3025288

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.17.17 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	4.94	mg/kg	08.17.17 19.37		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3024777

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.11.17 19.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.14.17 09.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.14.17 09.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.14.17 09.25	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.14.17 09.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	08.14.17 09.25		
o-Terphenyl	84-15-1	105	%	70-135	08.14.17 09.25		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-1 @ 1'**
Lab Sample Id: 559993-002

Matrix: Soil
Date Collected: 08.10.17 09.40

Date Received: 08.11.17 13.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.17 08.45

Basis: Wet Weight

Seq Number: 3025365

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.18.17 15.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.18.17 15.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	80-120	08.18.17 15.27		
1,4-Difluorobenzene	540-36-3	96	%	80-120	08.18.17 15.27		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-003

Date Collected: 08.10.17 09.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 08.17.17 12.00

Basis: Wet Weight

Seq Number: 3025288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	5.00	mg/kg	08.17.17 20.00		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.11.17 19.00

Basis: Wet Weight

Seq Number: 3024777

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	08.14.17 09.25		
o-Terphenyl	84-15-1	104	%	70-135	08.14.17 09.25		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-003

Date Collected: 08.10.17 09.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.16.17 09.20

Basis: Wet Weight

Seq Number: 3025345

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00366	0.00366	mg/kg	08.16.17 23.57	U	1
Toluene	108-88-3	<0.00366	0.00366	mg/kg	08.16.17 23.57	U	1
Ethylbenzene	100-41-4	<0.00366	0.00366	mg/kg	08.16.17 23.57	U	1
m,p-Xylenes	179601-23-1	<0.00733	0.00733	mg/kg	08.16.17 23.57	U	1
o-Xylene	95-47-6	0.00462	0.00366	mg/kg	08.16.17 23.57		1
Total Xylenes	1330-20-7	0.00462	0.00366	mg/kg	08.16.17 23.57		1
Total BTEX		0.00462	0.00366	mg/kg	08.16.17 23.57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	08.16.17 23.57		
1,4-Difluorobenzene	540-36-3	102	%	80-120	08.16.17 23.57		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-004

Date Collected: 08.10.17 09.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 08.17.17 12.00

Basis: Wet Weight

Seq Number: 3025288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	979	4.97	mg/kg	08.17.17 20.07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.11.17 19.00

Basis: Wet Weight

Seq Number: 3024777

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.14.17 09.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.14.17 09.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	08.14.17 09.25	
o-Terphenyl	84-15-1	99	%	70-135	08.14.17 09.25	



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-004

Date Collected: 08.10.17 09.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.16.17 08.00

Basis: Wet Weight

Seq Number: 3025343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.16.17 17.41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.16.17 17.41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	08.16.17 17.41		
1,4-Difluorobenzene	540-36-3	95	%	80-120	08.16.17 17.41		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-2 @ 1'**
Lab Sample Id: 559993-005

Matrix: Soil
Date Collected: 08.10.17 10.00

Date Received: 08.11.17 13.00

Analytical Method: Chloride by EPA 300

Tech: MGO

Analyst: MGO

Seq Number: 3025288

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.17.17 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	4.98	mg/kg	08.17.17 20.15		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3024776

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.11.17 18.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.12.17 06.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.12.17 06.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.12.17 06.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.12.17 06.14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	08.12.17 06.14		
o-Terphenyl	84-15-1	103	%	70-135	08.12.17 06.14		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-2 @ 1'**
Lab Sample Id: 559993-005

Matrix: Soil
Date Collected: 08.10.17 10.00

Date Received: 08.11.17 13.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.15.17 11.00

Basis: Wet Weight

Seq Number: 3025341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.16.17 02.25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.16.17 02.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	80-120	08.16.17 02.25		
1,4-Difluorobenzene	540-36-3	95	%	80-120	08.16.17 02.25		



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-2 @ 1.5'**

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-006

Date Collected: 08.10.17 10.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MGO

% Moisture:

Analyst: MGO

Date Prep: 08.17.17 12.00

Basis: Wet Weight

Seq Number: 3025288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.3	4.93	mg/kg	08.17.17 20.23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.11.17 18.00

Basis: Wet Weight

Seq Number: 3024776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.12.17 06.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.12.17 06.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.12.17 06.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.12.17 06.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	08.12.17 06.36	
o-Terphenyl	84-15-1	102	%	70-135	08.12.17 06.36	



Certificate of Analytical Results 559993



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-2 @ 1.5'**

Matrix: Soil

Date Received: 08.11.17 13.00

Lab Sample Id: 559993-006

Date Collected: 08.10.17 10.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.16.17 09.20

Basis: Wet Weight

Seq Number: 3025345

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
Toluene	108-88-3	<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
Ethylbenzene	100-41-4	<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
m,p-Xylenes	179601-23-1	<0.00717	0.00717	mg/kg	08.16.17 23.02	U	1
o-Xylene	95-47-6	<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
Total Xylenes	1330-20-7	<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
Total BTEX		<0.00358	0.00358	mg/kg	08.16.17 23.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	08.16.17 23.02		
4-Bromofluorobenzene	460-00-4	81	%	80-120	08.16.17 23.02		

- 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 **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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(602) 437-0330	



QC Summary 559993

Trinity Oilfield Services & Rentals, LLC Madera 35 Fed CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3025288

MB Sample Id: 729472-1-BLK

Matrix: Solid

LCS Sample Id: 729472-1-BKS

Prep Method: E300P

Date Prep: 08.17.17

LCSD Sample Id: 729472-1-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	258	103	261	104	90-110	1	20	mg/kg	08.17.17 17:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3025288

Parent Sample Id: 559992-009

Matrix: Soil

MS Sample Id: 559992-009 S

Prep Method: E300P

Date Prep: 08.17.17

MSD Sample Id: 559992-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	150	245	424	112	418	109	90-110	1	20	mg/kg	08.17.17 17:26	X

Analytical Method: Chloride by EPA 300

Seq Number: 3025288

Parent Sample Id: 559992-018

Matrix: Soil

MS Sample Id: 559992-018 S

Prep Method: E300P

Date Prep: 08.17.17

MSD Sample Id: 559992-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.51	247	274	107	277	108	90-110	1	20	mg/kg	08.17.17 19:14	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3024776

MB Sample Id: 729210-1-BLK

Matrix: Solid

LCS Sample Id: 729210-1-BKS

Prep Method: TX1005P

Date Prep: 08.11.17

LCSD Sample Id: 729210-1-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	893	89	879	88	70-135	2	35	mg/kg	08.14.17 09:22	
Diesel Range Organics (DRO)	<15.0	1000	1010	101	988	99	70-135	2	35	mg/kg	08.14.17 09:22	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		108		109		70-135	%	08.14.17 09:22
o-Terphenyl	110		97		98		70-135	%	08.14.17 09:22



QC Summary 559993

Trinity Oilfield Services & Rentals, LLC Madera 35 Fed CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3024777

MB Sample Id: 729212-1-BLK

Matrix: Solid

LCS Sample Id: 729212-1-BKS

Prep Method: TX1005P

Date Prep: 08.11.17

LCSD Sample Id: 729212-1-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	878	88	896	90	70-135	2	35	mg/kg	08.12.17 08:23	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	08.12.17 08:23	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	112		107		109		70-135	%	08.12.17 08:23			
o-Terphenyl	113		97		101		70-135	%	08.12.17 08:23			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3024776

Parent Sample Id: 559993-006

Matrix: Soil

MS Sample Id: 559993-006 S

Prep Method: TX1005P

Date Prep: 08.11.17

MSD Sample Id: 559993-006 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	838	84	860	86	70-135	3	35	mg/kg	08.12.17 06:58	
Diesel Range Organics (DRO)	<15.0	998	932	93	938	94	70-135	1	35	mg/kg	08.12.17 06:58	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			109		111		70-135	%	08.12.17 06:58			
o-Terphenyl			100		100		70-135	%	08.12.17 06:58			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3024777

Parent Sample Id: 559876-001

Matrix: Soil

MS Sample Id: 559876-001 S

Prep Method: TX1005P

Date Prep: 08.11.17

MSD Sample Id: 559876-001 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	859	86	847	85	70-135	1	35	mg/kg	08.12.17 09:25	
Diesel Range Organics (DRO)	<15.0	998	1040	104	1050	105	70-135	1	35	mg/kg	08.12.17 09:25	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			108		107		70-135	%	08.12.17 09:25			
o-Terphenyl			99		100		70-135	%	08.12.17 09:25			

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025365

MB Sample Id: 729496-1-BLK

Matrix: Solid

LCS Sample Id: 729496-1-BKS

Prep Method: SW5030B

Date Prep: 08.15.17

LCSD Sample Id: 729496-1-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	0.124	124	0.115	115	70-130	8	35	mg/kg	08.18.17 15:27	
Toluene	<0.00200	0.100	0.119	119	0.113	113	70-130	5	35	mg/kg	08.18.17 15:27	
Ethylbenzene	<0.00200	0.100	0.115	115	0.107	107	71-129	7	35	mg/kg	08.18.17 15:27	
m,p-Xylenes	<0.00400	0.200	0.235	118	0.219	110	70-135	7	35	mg/kg	08.18.17 15:27	
o-Xylene	<0.00200	0.100	0.118	118	0.110	110	71-133	7	35	mg/kg	08.18.17 15:27	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	93		112		112		80-120			%	08.18.17 15:27	
4-Bromofluorobenzene	104		106		101		80-120			%	08.18.17 15:27	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025341

MB Sample Id: 729488-1-BLK

Matrix: Solid

LCS Sample Id: 729488-1-BKS

Prep Method: SW5030B

Date Prep: 08.15.17

LCSD Sample Id: 729488-1-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	0.117	117	0.111	112	70-130	5	35	mg/kg	08.15.17 18:40	
Toluene	<0.00200	0.0998	0.117	117	0.110	111	70-130	6	35	mg/kg	08.15.17 18:40	
Ethylbenzene	<0.00200	0.0998	0.120	120	0.110	111	71-129	9	35	mg/kg	08.15.17 18:40	
m,p-Xylenes	<0.00399	0.200	0.234	117	0.214	108	70-135	9	35	mg/kg	08.15.17 18:40	
o-Xylene	<0.00200	0.0998	0.115	115	0.105	106	71-133	9	35	mg/kg	08.15.17 18:40	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	101		95		98		80-120			%	08.15.17 18:40	
4-Bromofluorobenzene	81		95		91		80-120			%	08.15.17 18:40	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025343

MB Sample Id: 729489-1-BLK

Matrix: Solid

LCS Sample Id: 729489-1-BKS

Prep Method: SW5030B

Date Prep: 08.16.17

LCSD Sample Id: 729489-1-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	0.119	119	0.121	122	70-130	2	35	mg/kg	08.16.17 08:17	
Toluene	<0.00200	0.0998	0.115	115	0.111	112	70-130	4	35	mg/kg	08.16.17 08:17	
Ethylbenzene	<0.00200	0.0998	0.113	113	0.108	109	71-129	5	35	mg/kg	08.16.17 08:17	
m,p-Xylenes	<0.00399	0.200	0.219	110	0.211	107	70-135	4	35	mg/kg	08.16.17 08:17	
o-Xylene	<0.00200	0.0998	0.106	106	0.101	102	71-133	5	35	mg/kg	08.16.17 08:17	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	95		94		112		80-120			%	08.16.17 08:17	
4-Bromofluorobenzene	84		81		81		80-120			%	08.16.17 08:17	

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025345

MB Sample Id: 729520-1-BLK

Matrix: Solid

LCS Sample Id: 729520-1-BKS

Prep Method: SW5030B

Date Prep: 08.16.17

LCSD Sample Id: 729520-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.124	124	0.124	124	70-130	0	35	mg/kg	08.17.17 11:56	
Toluene	<0.00199	0.0996	0.122	122	0.123	123	70-130	1	35	mg/kg	08.17.17 11:56	
Ethylbenzene	<0.00199	0.0996	0.121	121	0.121	121	71-129	0	35	mg/kg	08.17.17 11:56	
m,p-Xylenes	<0.00398	0.199	0.237	119	0.237	119	70-135	0	35	mg/kg	08.17.17 11:56	
o-Xylene	<0.00199	0.0996	0.115	115	0.116	116	71-133	1	35	mg/kg	08.17.17 11:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		98		95		80-120	%	08.17.17 11:56
4-Bromofluorobenzene	82		86		85		80-120	%	08.17.17 11:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025365

Parent Sample Id: 559993-001

Matrix: Soil

MS Sample Id: 559993-001 S

Prep Method: SW5030B

Date Prep: 08.15.17

MSD Sample Id: 559993-001 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	0.103	103	0.101	101	70-130	2	35	mg/kg	08.18.17 15:27	
Toluene	<0.00200	0.100	0.100	100	0.101	101	70-130	1	35	mg/kg	08.18.17 15:27	
Ethylbenzene	<0.00200	0.100	0.0948	95	0.0928	93	71-129	2	35	mg/kg	08.18.17 15:27	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.186	93	70-135	3	35	mg/kg	08.18.17 15:27	
o-Xylene	<0.00200	0.100	0.101	101	0.0956	96	71-133	5	35	mg/kg	08.18.17 15:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		110		80-120	%	08.18.17 15:27
4-Bromofluorobenzene	87		109		80-120	%	08.18.17 15:27

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025341

Parent Sample Id: 560033-005

Matrix: Soil

MS Sample Id: 560033-005 S

Prep Method: SW5030B

Date Prep: 08.15.17

MSD Sample Id: 560033-005 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	0.0877	88	0.0839	83	70-130	4	35	mg/kg	08.15.17 19:18	
Toluene	<0.00201	0.100	0.0871	87	0.0827	82	70-130	5	35	mg/kg	08.15.17 19:18	
Ethylbenzene	<0.00201	0.100	0.0860	86	0.0824	82	71-129	4	35	mg/kg	08.15.17 19:18	
m,p-Xylenes	<0.00402	0.201	0.168	84	0.161	80	70-135	4	35	mg/kg	08.15.17 19:18	
o-Xylene	<0.00201	0.100	0.0833	83	0.0804	80	71-133	4	35	mg/kg	08.15.17 19:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		98		80-120	%	08.15.17 19:18
4-Bromofluorobenzene	115		120		80-120	%	08.15.17 19:18

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025343

Parent Sample Id: 560049-002

Matrix: Soil

MS Sample Id: 560049-002 S

Prep Method: SW5030B

Date Prep: 08.16.17

MSD Sample Id: 560049-002 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	0.0994	0.0938	94	0.0855	86	70-130	9	35	mg/kg	08.16.17 08:55	
Toluene	<0.00199	0.0994	0.0858	86	0.0785	79	70-130	9	35	mg/kg	08.16.17 08:55	
Ethylbenzene	<0.00199	0.0994	0.0755	76	0.0735	74	71-129	3	35	mg/kg	08.16.17 08:55	
m,p-Xylenes	<0.00398	0.199	0.145	73	0.140	71	70-135	4	35	mg/kg	08.16.17 08:55	
o-Xylene	<0.00199	0.0994	0.0725	73	0.0732	74	71-133	1	35	mg/kg	08.16.17 08:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		80-120	%	08.16.17 08:55
4-Bromofluorobenzene	87		88		80-120	%	08.16.17 08:55

Analytical Method: BTEX by EPA 8021B

Seq Number: 3025345

Parent Sample Id: 560035-001

Matrix: Soil

MS Sample Id: 560035-001 S

Prep Method: SW5030B

Date Prep: 08.16.17

MSD Sample Id: 560035-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00348	0.174	0.186	107	0.176	101	70-130	6	35	mg/kg	08.17.17 12:32	
Toluene	<0.00348	0.174	0.176	101	0.165	94	70-130	6	35	mg/kg	08.17.17 12:32	
Ethylbenzene	<0.00348	0.174	0.162	93	0.151	86	71-129	7	35	mg/kg	08.17.17 12:32	
m,p-Xylenes	<0.00697	0.348	0.313	90	0.291	83	70-135	7	35	mg/kg	08.17.17 12:32	
o-Xylene	<0.00348	0.174	0.154	89	0.145	83	71-133	6	35	mg/kg	08.17.17 12:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		98		80-120	%	08.17.17 12:32
4-Bromofluorobenzene	83		87		80-120	%	08.17.17 12:32



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:

559993

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TensCore 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. Na₂S₂O₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

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

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

Temp: 3.2

CF:(0-6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 3.0

IR ID:R-8

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:	Madera 35 Fed 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 Only on Highest TPH
								# Cont	Lab Only:			
1	SP-1 @ 0.5'	8/10/17	0935	S			1		X			
2	SP-1 @ 1'	8/10/17	0940	S			1		X			
3	SP-1 @ 1.5'	8/10/17	0945	S			1		X			
4	SP-2 @ 0.5'	8/10/17	0950	S			1		X			
5	SP-2 @ 1'	8/10/17	1000	S			1		X			
6	SP-2 @ 1.5'	8/10/17	1005	S			1		X			
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	
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	17.0 2 3	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, excd VOCs? Received on time to meet HTs?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Trinity	8/10/17	1619	Kushong	MS	8/10/17	4:19
2				Shawtestmth	Xenco	8-11-17	13:00
3							
4							

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

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

C.O.C. Serial #

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

Page 24 of 24



Certificate of Analysis Summary 561472

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Madera 35 Fed CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Aug-28-17 01:05 pm

Report Date: 12-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	561472-001	561472-002	561472-003	561472-004	561472-005	561472-006
	Field Id:	SP-1 @ 6.5'	SP-2 @ 2'	SP-3 @ 6"	SP-3 @ 2'	SP-3 @ 4'	SP-3 @ 5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-24-17 11:20	Aug-24-17 10:20	Aug-24-17 10:00	Aug-24-17 10:10	Aug-24-17 10:15	Aug-24-17 10:18
BTEX by EPA 8021B	Extracted:	Sep-07-17 08:00	Sep-07-17 08:00	Sep-07-17 08:00			Sep-08-17 08:30
	Analyzed:	Sep-07-17 14:48	Sep-07-17 17:04	Sep-07-17 17:23			Sep-08-17 10:09
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402			<0.00725 0.00725
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201			<0.00362 0.00362
Chloride by EPA 300	Extracted:	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35	Sep-07-17 10:35
	Analyzed:	Sep-07-17 13:05	Sep-07-17 13:13	Sep-07-17 13:37	Sep-07-17 13:46	Sep-07-17 18:07	Sep-07-17 18:15
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		59.6 4.92	307 4.99	4380 24.6	2160 24.6	684 25.0	104 4.99
TPH By SW8015 Mod	Extracted:	Aug-30-17 10:00	Aug-30-17 10:00	Aug-30-17 10:00			Aug-30-17 10:00
	Analyzed:	Sep-05-17 09:35	Sep-05-17 09:35	Sep-05-17 09:35			Sep-05-17 09:35
	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)		68.3 15.0	862 15.0	<15.0 15.0			<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	244 15.0	<15.0 15.0			<15.0 15.0
Total TPH		68.3 15.0	1110 15.0	<15.0 15.0			<15.0 15.0

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

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 561472

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Madera 35 Fed CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Aug-28-17 01:05 pm

Report Date: 12-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	561472-007	561472-008	561472-009			
	Field Id:	SP-4 @ 6"	SP-4 @ 1'	SP-4 @ 5.5'			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-24-17 12:00	Aug-24-17 12:03	Aug-24-17 12:20			
BTEX by EPA 8021B	Extracted:	Sep-07-17 08:00	Sep-07-17 08:00	Sep-07-17 08:00			
	Analyzed:	Sep-07-17 18:00	Sep-07-17 18:19	Sep-07-17 18:36			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00403 0.00403			
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202			
Chloride by EPA 300	Extracted:	Sep-08-17 11:15	Sep-08-17 11:15	Sep-08-17 11:15			
	Analyzed:	Sep-08-17 14:34	Sep-08-17 14:58	Sep-08-17 15:06			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		18.1 4.97	10.4 4.95	<4.92 4.92			
TPH By SW8015 Mod	Extracted:	Aug-31-17 16:00	Aug-31-17 16:00	Aug-30-17 10:00			
	Analyzed:	Sep-05-17 09:41	Sep-05-17 09:41	Sep-05-17 09:35			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9			
Diesel Range Organics (DRO)		100 15.0	37.8 15.0	52.9 14.9			
Oil Range Hydrocarbons (ORO)		22.0 15.0	<15.0 15.0	<14.9 14.9			
Total TPH		122 15.0	37.8 15.0	52.9 14.9			

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

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

Holly Taylor
Project Manager

Analytical Report 561472
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Madera 35 Fed CTB

12-SEP-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)



12-SEP-17

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

Reference: XENCO Report No(s): **561472**
Madera 35 Fed 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) 561472. 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. 561472 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 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6.5'	S	08-24-17 11:20		561472-001
SP-2 @ 2'	S	08-24-17 10:20		561472-002
SP-3 @ 6"	S	08-24-17 10:00		561472-003
SP-3 @ 2'	S	08-24-17 10:10		561472-004
SP-3 @ 4'	S	08-24-17 10:15		561472-005
SP-3 @ 5'	S	08-24-17 10:18		561472-006
SP-4 @ 6"	S	08-24-17 12:00		561472-007
SP-4 @ 1'	S	08-24-17 12:03		561472-008
SP-4 @ 5.5'	S	08-24-17 12:20		561472-009



CASE NARRATIVE

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

Project Name: *Madera 35 Fed CTB*

Project ID:
Work Order Number(s): 561472

Report Date: 12-SEP-17
Date Received: 08/28/2017

Sample receipt non conformances and comments:

8/31/17 Per Ben Arguijo: Add TPH to sample 008.

9/7/17 Analyze Samples 001, 002, 003, 006, 007, 008, and 009 for BTEX per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3027028 BTEX by EPA 8021B

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

Batch: LBA-3027189 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 561472-006.

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



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-1 @ 6.5'**

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-001

Date Collected: 08.24.17 11.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.6	4.92	mg/kg	09.07.17 13.05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 10.00

Basis: Wet Weight

Seq Number: 3026606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	68.3	15.0	mg/kg	09.05.17 09.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Total TPH	PHC635	68.3	15.0	mg/kg	09.05.17 09.35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	09.05.17 09.35	
o-Terphenyl	84-15-1	107	%	70-135	09.05.17 09.35	



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-1 @ 6.5'**

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-001

Date Collected: 08.24.17 11.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.07.17 14.48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.07.17 14.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	80-120	09.07.17 14.48		
1,4-Difluorobenzene	540-36-3	91	%	80-120	09.07.17 14.48		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-002

Date Collected: 08.24.17 10.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	307	4.99	mg/kg	09.07.17 13.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 10.00

Basis: Wet Weight

Seq Number: 3026606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	862	15.0	mg/kg	09.05.17 09.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	244	15.0	mg/kg	09.05.17 09.35		1
Total TPH	PHC635	1110	15.0	mg/kg	09.05.17 09.35		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	09.05.17 09.35		
o-Terphenyl	84-15-1	119	%	70-135	09.05.17 09.35		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-002

Date Collected: 08.24.17 10.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.07.17 17.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.07.17 17.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.07.17 17.04		
4-Bromofluorobenzene	460-00-4	86	%	80-120	09.07.17 17.04		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-003

Date Collected: 08.24.17 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4380	24.6	mg/kg	09.07.17 13.37		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 10.00

Basis: Wet Weight

Seq Number: 3026606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.05.17 09.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	09.05.17 09.35	
o-Terphenyl	84-15-1	101	%	70-135	09.05.17 09.35	



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-003

Date Collected: 08.24.17 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.07.17 17.23	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.07.17 17.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	09.07.17 17.23		
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.07.17 17.23		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-3 @2'** Matrix: Soil Date Received: 08.28.17 13.05
Lab Sample Id: 561472-004 Date Collected: 08.24.17 10.10
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MNV % Moisture:
Analyst: MNV Date Prep: 09.07.17 10.35 Basis: Wet Weight
Seq Number: 3026932

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2160	24.6	mg/kg	09.07.17 13.46		5



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-3 @ 4'** Matrix: Soil Date Received: 08.28.17 13.05
Lab Sample Id: 561472-005 Date Collected: 08.24.17 10.15
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MNV % Moisture:
Analyst: MNV Date Prep: 09.07.17 10.35 Basis: Wet Weight
Seq Number: 3027059

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	684	25.0	mg/kg	09.07.17 18.07		5



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-006

Date Collected: 08.24.17 10.18

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.07.17 10.35

Basis: Wet Weight

Seq Number: 3027059

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	4.99	mg/kg	09.07.17 18.15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 10.00

Basis: Wet Weight

Seq Number: 3026606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.05.17 09.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	09.05.17 09.35		
o-Terphenyl	84-15-1	102	%	70-135	09.05.17 09.35		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-006

Date Collected: 08.24.17 10.18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.08.17 08.30

Basis: Wet Weight

Seq Number: 3027189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
Toluene	108-88-3	<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
Ethylbenzene	100-41-4	<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
m,p-Xylenes	179601-23-1	<0.00725	0.00725	mg/kg	09.08.17 10.09	UK	1
o-Xylene	95-47-6	<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
Total Xylenes	1330-20-7	<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
Total BTEX		<0.00362	0.00362	mg/kg	09.08.17 10.09	UK	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	34	%	80-120	09.08.17 10.09	**	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.08.17 10.09		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-4 @ 6"**
Lab Sample Id: 561472-007

Matrix: Soil
Date Collected: 08.24.17 12.00

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3027156

Date Prep: 09.08.17 11.15

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.1	4.97	mg/kg	09.08.17 14.34		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3026608

Date Prep: 08.31.17 16.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	100	15.0	mg/kg	09.05.17 09.41		1
Oil Range Hydrocarbons (ORO)	PHCG2835	22.0	15.0	mg/kg	09.05.17 09.41		1
Total TPH	PHC635	122	15.0	mg/kg	09.05.17 09.41		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	09.05.17 09.41		
o-Terphenyl	84-15-1	99	%	70-135	09.05.17 09.41		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-007

Date Collected: 08.24.17 12.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.07.17 18.00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.07.17 18.00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 18.00		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.07.17 18.00		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-4 @ 1'**
Lab Sample Id: 561472-008

Matrix: Soil
Date Collected: 08.24.17 12.03

Date Received: 08.28.17 13.05

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3027156

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.08.17 11.15

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	4.95	mg/kg	09.08.17 14.58		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3026608

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 08.31.17 16.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	37.8	15.0	mg/kg	09.05.17 09.41		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.05.17 09.41	U	1
Total TPH	PHC635	37.8	15.0	mg/kg	09.05.17 09.41		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	09.05.17 09.41		
o-Terphenyl	84-15-1	109	%	70-135	09.05.17 09.41		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-4 @ 1'**
Lab Sample Id: 561472-008

Matrix: Soil
Date Collected: 08.24.17 12.03

Date Received: 08.28.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.07.17 18.19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.07.17 18.19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.07.17 18.19		
1,4-Difluorobenzene	540-36-3	97	%	80-120	09.07.17 18.19		



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-4 @ 5.5'**

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-009

Date Collected: 08.24.17 12.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.08.17 11.15

Basis: Wet Weight

Seq Number: 3027156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.92	4.92	mg/kg	09.08.17 15.06	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.30.17 10.00

Basis: Wet Weight

Seq Number: 3026606

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.05.17 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	52.9	14.9	mg/kg	09.05.17 09.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	09.05.17 09.35	U	1
Total TPH	PHC635	52.9	14.9	mg/kg	09.05.17 09.35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	09.05.17 09.35	
o-Terphenyl	84-15-1	102	%	70-135	09.05.17 09.35	



Certificate of Analytical Results 561472



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-4 @ 5.5'**

Matrix: Soil

Date Received: 08.28.17 13.05

Lab Sample Id: 561472-009

Date Collected: 08.24.17 12.20

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.07.17 08.00

Basis: Wet Weight

Seq Number: 3027028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.07.17 18.36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.07.17 18.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	80-120	09.07.17 18.36		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.07.17 18.36		

- 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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(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB**Analytical Method: Chloride by EPA 300**

Seq Number: 3026932

MB Sample Id: 730493-1-BLK

Matrix: Solid

LCS Sample Id: 730493-1-BKS

Prep Method: E300P

Date Prep: 09.07.17

LCSD Sample Id: 730493-1-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	274	110	90-110	1	20	mg/kg	09.07.17 10:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

MB Sample Id: 730493-1-BLK

Matrix: Solid

LCS Sample Id: 730493-1-BKS

Prep Method: E300P

Date Prep: 09.07.17

LCSD Sample Id: 730493-1-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	274	110	90-110	1	20	mg/kg	09.07.17 10:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3027156

MB Sample Id: 730568-1-BLK

Matrix: Solid

LCS Sample Id: 730568-1-BKS

Prep Method: E300P

Date Prep: 09.08.17

LCSD Sample Id: 730568-1-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	240	96	242	97	90-110	1	20	mg/kg	09.08.17 11:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3026932

Parent Sample Id: 561470-009

Matrix: Soil

MS Sample Id: 561470-009 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561470-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.8	249	314	113	317	114	90-110	1	20	mg/kg	09.07.17 11:27	X

Analytical Method: Chloride by EPA 300

Seq Number: 3026932

Parent Sample Id: 561472-002

Matrix: Soil

MS Sample Id: 561472-002 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561472-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	582	110	582	110	90-110	0	20	mg/kg	09.07.17 13:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

Parent Sample Id: 561470-009

Matrix: Soil

MS Sample Id: 561470-009 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561470-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.8	249	314	113	317	114	90-110	1	20	mg/kg	09.07.17 11:27	X



QC Summary 561472

Trinity Oilfield Services & Rentals, LLC Madera 35 Fed CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3027059

Parent Sample Id: 561472-002

Matrix: Soil

MS Sample Id: 561472-002 S

Prep Method: E300P

Date Prep: 09.07.17

MSD Sample Id: 561472-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	307	250	582	110	582	110	90-110	0	20	mg/kg	09.07.17 13:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3027156

Parent Sample Id: 561733-001

Matrix: Soil

MS Sample Id: 561733-001 S

Prep Method: E300P

Date Prep: 09.08.17

MSD Sample Id: 561733-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.1	247	300	113	298	112	90-110	1	20	mg/kg	09.08.17 12:15	X

Analytical Method: Chloride by EPA 300

Seq Number: 3027156

Parent Sample Id: 561733-011

Matrix: Soil

MS Sample Id: 561733-011 S

Prep Method: E300P

Date Prep: 09.08.17

MSD Sample Id: 561733-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	278	112	278	112	90-110	0	20	mg/kg	09.08.17 14:09	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026606

MB Sample Id: 730144-1-BLK

Matrix: Solid

LCS Sample Id: 730144-1-BKS

Prep Method: TX1005P

Date Prep: 08.30.17

LCSD Sample Id: 730144-1-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	878	88	915	92	70-135	4	35	mg/kg	08.30.17 12:59	
Diesel Range Organics (DRO)	<15.0	1000	1060	106	1070	107	70-135	1	35	mg/kg	08.30.17 12:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		116		121		70-135	%	08.30.17 12:59
o-Terphenyl	115		106		113		70-135	%	08.30.17 12:59

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026608

MB Sample Id: 730183-1-BLK

Matrix: Solid

LCS Sample Id: 730183-1-BKS

Prep Method: TX1005P

Date Prep: 08.31.17

LCSD Sample Id: 730183-1-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	839	84	895	90	70-135	6	35	mg/kg	09.05.17 09:41	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	09.05.17 09:41	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	102		103		103		70-135	%	09.05.17 09:41			
o-Terphenyl	103		99		105		70-135	%	09.05.17 09:41			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026606

Parent Sample Id: 561433-001

Matrix: Soil

MS Sample Id: 561433-001 S

Prep Method: TX1005P

Date Prep: 08.30.17

MSD Sample Id: 561433-001 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	876	88	877	88	70-135	0	35	mg/kg	09.05.17 09:35	
Diesel Range Organics (DRO)	<15.0	999	1050	105	1080	108	70-135	3	35	mg/kg	09.05.17 09:35	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			125		124		70-135	%	09.05.17 09:35			
o-Terphenyl			104		104		70-135	%	09.05.17 09:35			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3026608

Parent Sample Id: 561470-006

Matrix: Soil

MS Sample Id: 561470-006 S

Prep Method: TX1005P

Date Prep: 08.31.17

MSD Sample Id: 561470-006 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	813	81	813	82	70-135	0	35	mg/kg	09.05.17 09:41	
Diesel Range Organics (DRO)	<15.0	999	1000	100	1010	101	70-135	1	35	mg/kg	09.05.17 09:41	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			97		98		70-135	%	09.05.17 09:41			
o-Terphenyl			94		93		70-135	%	09.05.17 09:41			

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027028

MB Sample Id: 730538-1-BLK

Matrix: Solid

LCS Sample Id: 730538-1-BKS

Prep Method: SW5030B

Date Prep: 09.07.17

LCSD Sample Id: 730538-1-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	0.106	105	0.106	106	70-130	0	35	mg/kg	09.07.17 07:48	
Toluene	<0.00202	0.101	0.102	101	0.101	101	70-130	1	35	mg/kg	09.07.17 07:48	
Ethylbenzene	<0.00202	0.101	0.0994	98	0.0992	99	71-129	0	35	mg/kg	09.07.17 07:48	
m,p-Xylenes	<0.00403	0.202	0.194	96	0.193	97	70-135	1	35	mg/kg	09.07.17 07:48	
o-Xylene	<0.00202	0.101	0.0929	92	0.0931	93	71-133	0	35	mg/kg	09.07.17 07:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		94		98		80-120	%	09.07.17 07:48
4-Bromofluorobenzene	94		95		98		80-120	%	09.07.17 07:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027189

MB Sample Id: 730642-1-BLK

Matrix: Solid

LCS Sample Id: 730642-1-BKS

Prep Method: SW5030B

Date Prep: 09.08.17

LCSD Sample Id: 730642-1-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	0.119	119	0.108	107	70-130	10	35	mg/kg	09.08.17 07:50	
Toluene	<0.00200	0.100	0.110	110	0.101	100	70-130	9	35	mg/kg	09.08.17 07:50	
Ethylbenzene	<0.00200	0.100	0.107	107	0.0984	97	71-129	8	35	mg/kg	09.08.17 07:50	
m,p-Xylenes	<0.00401	0.200	0.208	104	0.191	95	70-135	9	35	mg/kg	09.08.17 07:50	
o-Xylene	<0.00200	0.100	0.0995	100	0.0920	91	71-133	8	35	mg/kg	09.08.17 07:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		98		80-120	%	09.08.17 07:50
4-Bromofluorobenzene	80		83		88		80-120	%	09.08.17 07:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027028

Parent Sample Id: 561863-002

Matrix: Soil

MS Sample Id: 561863-002 S

Prep Method: SW5030B

Date Prep: 09.07.17

MSD Sample Id: 561863-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00351	0.175	0.211	121	0.148	86	70-130	35	35	mg/kg	09.07.17 08:27	
Toluene	<0.00351	0.175	0.166	95	0.136	79	70-130	20	35	mg/kg	09.07.17 08:27	
Ethylbenzene	<0.00351	0.175	0.127	73	0.129	75	71-129	2	35	mg/kg	09.07.17 08:27	
m,p-Xylenes	<0.00702	0.351	0.239	68	0.251	73	70-135	5	35	mg/kg	09.07.17 08:27	X
o-Xylene	<0.00351	0.175	0.134	77	0.126	73	71-133	6	35	mg/kg	09.07.17 08:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		97		80-120	%	09.07.17 08:27
4-Bromofluorobenzene	90		105		80-120	%	09.07.17 08:27



Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3027189

Parent Sample Id: 562130-006

Matrix: Soil

MS Sample Id: 562130-006 S

Prep Method: SW5030B

Date Prep: 09.08.17

MSD Sample Id: 562130-006 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	0.0668	67	0.0830	84	70-130	22	35	mg/kg	09.08.17 08:28	X
Toluene	<0.00200	0.0998	0.0614	62	0.0756	76	70-130	21	35	mg/kg	09.08.17 08:28	X
Ethylbenzene	<0.00200	0.0998	0.0581	58	0.0702	71	71-129	19	35	mg/kg	09.08.17 08:28	X
m,p-Xylenes	<0.00399	0.200	0.114	57	0.137	69	70-135	18	35	mg/kg	09.08.17 08:28	X
o-Xylene	<0.00200	0.0998	0.0559	56	0.0669	67	71-133	18	35	mg/kg	09.08.17 08:28	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		80-120	%	09.08.17 08:28
4-Bromofluorobenzene	88		88		80-120	%	09.08.17 08:28



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 08/28/2017 01:05:00 PM

Work Order #: 561472

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)?	1.3
#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)?	No
#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:

Shawnee Smith

Date: 08/29/2017

Checklist reviewed by:

Holly Taylor

Date: 08/30/2017



Certificate of Analysis Summary 563852

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Madera 35 Fed CTB



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-25-17 03:19 pm

Report Date: 02-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563852-001	563852-002	563852-003	563852-004	563852-005	
	Field Id:	SP-2 @ 6.5'	SP-3 @ 8'	SP-5 @ 6"	SP-5 @ 4'	SP-5 @ 5'	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Sep-22-17 11:38	Sep-22-17 12:00	Sep-22-17 12:18	Sep-22-17 12:23	Sep-22-17 12:26	
BTEX by EPA 8021B	Extracted:	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	
	Analyzed:	Sep-29-17 22:18	Sep-29-17 22:37	Sep-29-17 22:56	Sep-29-17 23:14	Sep-29-17 23:33	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
Toluene		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
Ethylbenzene		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
m,p-Xylenes		<0.00669 0.00669	<0.00673 0.00673	<0.00664 0.00664	<0.00692 0.00692	<0.00398 0.00398	
o-Xylene		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
Total Xylenes		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
Total BTEX		<0.00334 0.00334	<0.00337 0.00337	<0.00332 0.00332	<0.00346 0.00346	<0.00199 0.00199	
Chloride by EPA 300	Extracted:	Sep-27-17 16:05	Sep-27-17 16:05	Sep-27-17 16:05	Sep-27-17 16:05	Sep-27-17 16:05	
	Analyzed:	Sep-27-17 17:04	Sep-27-17 17:25	Sep-27-17 17:32	Sep-27-17 17:39	Sep-27-17 17:46	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<4.92 4.92	46.8 4.90	30.2 4.97	<4.94 4.94	469 4.93	
TPH By SW8015 Mod	Extracted:	Sep-26-17 15:03	Sep-26-17 15:03	Sep-26-17 15:03	Sep-26-17 15:03	Sep-26-17 15:03	
	Analyzed:	Sep-26-17 22:15	Sep-26-17 22:36	Sep-26-17 22:56	Sep-26-17 23:17	Sep-27-17 00:18	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<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 563852
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Madera 35 Fed CTB

02-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)



02-OCT-17

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

Reference: XENCO Report No(s): **563852**
Madera 35 Fed 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) 563852. 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. 563852 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 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-2 @ 6.5'	S	09-22-17 11:38		563852-001
SP-3 @ 8'	S	09-22-17 12:00		563852-002
SP-5 @ 6"	S	09-22-17 12:18		563852-003
SP-5 @ 4'	S	09-22-17 12:23		563852-004
SP-5 @ 5'	S	09-22-17 12:26		563852-005



CASE NARRATIVE

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

Project Name: *Madera 35 Fed CTB*

Project ID:
Work Order Number(s): 563852

Report Date: 02-OCT-17
Date Received: 09/25/2017

Sample receipt non conformances and comments:

9/29/17 Analyze all samples for BTEX per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3029142 BTEX by EPA 8021B

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



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-001

Date Collected: 09.22.17 11.38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.27.17 16.05

Basis: Wet Weight

Seq Number: 3029090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.92	4.92	mg/kg	09.27.17 17.04	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.26.17 15.03

Basis: Wet Weight

Seq Number: 3028942

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.26.17 22.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.26.17 22.15	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.26.17 22.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.26.17 22.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	09.26.17 22.15	
o-Terphenyl	84-15-1	92	%	70-135	09.26.17 22.15	



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-001

Date Collected: 09.22.17 11.38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
Toluene	108-88-3	<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
Ethylbenzene	100-41-4	<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
m,p-Xylenes	179601-23-1	<0.00669	0.00669	mg/kg	09.29.17 22.18	U	1
o-Xylene	95-47-6	<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
Total Xylenes	1330-20-7	<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
Total BTEX		<0.00334	0.00334	mg/kg	09.29.17 22.18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.29.17 22.18		
1,4-Difluorobenzene	540-36-3	92	%	80-120	09.29.17 22.18		



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-3 @ 8'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-002

Date Collected: 09.22.17 12.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.27.17 16.05

Basis: Wet Weight

Seq Number: 3029090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.8	4.90	mg/kg	09.27.17 17.25		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.26.17 15.03

Basis: Wet Weight

Seq Number: 3028942

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.26.17 22.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.26.17 22.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.26.17 22.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.26.17 22.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	09.26.17 22.36	
o-Terphenyl	84-15-1	94	%	70-135	09.26.17 22.36	



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

Sample Id: **SP-3 @ 8'**
Lab Sample Id: 563852-002

Matrix: Soil
Date Collected: 09.22.17 12.00

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
Toluene	108-88-3	<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
Ethylbenzene	100-41-4	<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
m,p-Xylenes	179601-23-1	<0.00673	0.00673	mg/kg	09.29.17 22.37	U	1
o-Xylene	95-47-6	<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
Total Xylenes	1330-20-7	<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
Total BTEX		<0.00337	0.00337	mg/kg	09.29.17 22.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	92	%	80-120	09.29.17 22.37		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.29.17 22.37		



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-003

Date Collected: 09.22.17 12.18

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.27.17 16.05

Basis: Wet Weight

Seq Number: 3029090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.2	4.97	mg/kg	09.27.17 17.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.26.17 15.03

Basis: Wet Weight

Seq Number: 3028942

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.26.17 22.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.26.17 22.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.26.17 22.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.26.17 22.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	09.26.17 22.56	
o-Terphenyl	84-15-1	95	%	70-135	09.26.17 22.56	



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-003

Date Collected: 09.22.17 12.18

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
Toluene	108-88-3	<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
Ethylbenzene	100-41-4	<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
m,p-Xylenes	179601-23-1	<0.00664	0.00664	mg/kg	09.29.17 22.56	U	1
o-Xylene	95-47-6	<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
Total Xylenes	1330-20-7	<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
Total BTEX		<0.00332	0.00332	mg/kg	09.29.17 22.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.29.17 22.56		
1,4-Difluorobenzene	540-36-3	92	%	80-120	09.29.17 22.56		



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-5 @ 4'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-004

Date Collected: 09.22.17 12.23

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.27.17 16.05

Basis: Wet Weight

Seq Number: 3029090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.94	4.94	mg/kg	09.27.17 17.39	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.26.17 15.03

Basis: Wet Weight

Seq Number: 3028942

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.26.17 23.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.26.17 23.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	09.26.17 23.17	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.26.17 23.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	09.26.17 23.17	
o-Terphenyl	84-15-1	93	%	70-135	09.26.17 23.17	



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

Sample Id: **SP-5 @ 4'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-004

Date Collected: 09.22.17 12.23

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
Toluene	108-88-3	<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
Ethylbenzene	100-41-4	<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
m,p-Xylenes	179601-23-1	<0.00692	0.00692	mg/kg	09.29.17 23.14	U	1
o-Xylene	95-47-6	<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
Total Xylenes	1330-20-7	<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
Total BTEX		<0.00346	0.00346	mg/kg	09.29.17 23.14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	80-120	09.29.17 23.14		
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.29.17 23.14		



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-005

Date Collected: 09.22.17 12.26

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.27.17 16.05

Basis: Wet Weight

Seq Number: 3029090

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	469	4.93	mg/kg	09.27.17 17.46		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.26.17 15.03

Basis: Wet Weight

Seq Number: 3028942

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.27.17 00.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.27.17 00.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.27.17 00.18	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.27.17 00.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.27.17 00.18	
o-Terphenyl	84-15-1	92	%	70-135	09.27.17 00.18	



Certificate of Analytical Results 563852



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Madera 35 Fed CTB

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

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563852-005

Date Collected: 09.22.17 12.26

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.17 23.33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.17 23.33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	09.29.17 23.33		
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.29.17 23.33		

- 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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(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB**Analytical Method: Chloride by EPA 300**

Seq Number: 3029090

MB Sample Id: 731674-1-BLK

Matrix: Solid

LCS Sample Id: 731674-1-BKS

Prep Method: E300P

Date Prep: 09.27.17

LCSD Sample Id: 731674-1-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	257	103	261	104	90-110	2	20	mg/kg	09.27.17 16:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3029090

Parent Sample Id: 563780-004

Matrix: Soil

MS Sample Id: 563780-004 S

Prep Method: E300P

Date Prep: 09.27.17

MSD Sample Id: 563780-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.97	249	266	107	273	110	90-110	3	20	mg/kg	09.27.17 18:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3029090

Parent Sample Id: 563852-001

Matrix: Soil

MS Sample Id: 563852-001 S

Prep Method: E300P

Date Prep: 09.27.17

MSD Sample Id: 563852-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.92	246	260	106	261	106	90-110	0	20	mg/kg	09.27.17 17:11	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028942

MB Sample Id: 731742-1-BLK

Matrix: Solid

LCS Sample Id: 731742-1-BKS

Prep Method: TX1005P

Date Prep: 09.26.17

LCSD Sample Id: 731742-1-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	979	98	1010	101	70-135	3	35	mg/kg	09.26.17 18:53	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1070	107	70-135	2	35	mg/kg	09.26.17 18:53	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		101		112		70-135	%	09.26.17 18:53
o-Terphenyl	100		97		107		70-135	%	09.26.17 18:53

Trinity Oilfield Services & Rentals, LLC
Madera 35 Fed CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028942

Parent Sample Id: 563723-001

Matrix: Soil

MS Sample Id: 563723-001 S

Prep Method: TX1005P

Date Prep: 09.26.17

MSD Sample Id: 563723-001 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	929	93	944	95	70-135	2	35	mg/kg	09.26.17 19:54	
Diesel Range Organics (DRO)	<15.0	999	1040	104	1040	104	70-135	0	35	mg/kg	09.26.17 19:54	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		101		70-135	%	09.26.17 19:54
o-Terphenyl	97		96		70-135	%	09.26.17 19:54

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029142

MB Sample Id: 7631855-1-BLK

Matrix: Solid

LCS Sample Id: 7631855-1-BKS

Prep Method: SW5030B

Date Prep: 09.29.17

LCSD Sample Id: 7631855-1-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	0.105	104	0.104	104	70-130	1	35	mg/kg	09.29.17 15:06	
Toluene	<0.00202	0.101	0.100	99	0.0991	99	70-130	1	35	mg/kg	09.29.17 15:06	
Ethylbenzene	<0.00202	0.101	0.100	99	0.0990	99	71-129	1	35	mg/kg	09.29.17 15:06	
m,p-Xylenes	<0.00403	0.202	0.195	97	0.193	96	70-135	1	35	mg/kg	09.29.17 15:06	
o-Xylene	<0.00202	0.101	0.0942	93	0.0935	94	71-133	1	35	mg/kg	09.29.17 15:06	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		97		97		80-120	%	09.29.17 15:06
4-Bromofluorobenzene	86		91		92		80-120	%	09.29.17 15:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029142

Parent Sample Id: 563850-001

Matrix: Soil

MS Sample Id: 563850-001 S

Prep Method: SW5030B

Date Prep: 09.29.17

MSD Sample Id: 563850-001 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	0.0831	83	0.0808	80	70-130	3	35	mg/kg	09.29.17 15:42	
Toluene	<0.00199	0.0996	0.0779	78	0.0728	72	70-130	7	35	mg/kg	09.29.17 15:42	
Ethylbenzene	<0.00199	0.0996	0.0768	77	0.0716	71	71-129	7	35	mg/kg	09.29.17 15:42	
m,p-Xylenes	<0.00398	0.199	0.149	75	0.137	68	70-135	8	35	mg/kg	09.29.17 15:42	X
o-Xylene	<0.00199	0.0996	0.0737	74	0.0686	68	71-133	7	35	mg/kg	09.29.17 15:42	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		80-120	%	09.29.17 15:42
4-Bromofluorobenzene	94		87		80-120	%	09.29.17 15:42



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 #:

563852

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. 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

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

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:	Madera 35 Fed 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 8015M	BTEX	Chloride	Hold Sample (CALL) Run PAH on Highest TPH Only
1	SP-2 @ 6.5'	9/22/17	1138	S			1		X			
2	SP-3 @ 8'	9/22/17	1200	S			1		X			
3	SP-5 @ 6"	9/22/17	1218	S			1		X			
4	SP-5 @ 4'	9/22/17	1223	S			1		X			
5	SP-5 @ 5'	9/22/17	1226	S			1		X			
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	
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	12.22 3	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, exd VOCs? Received on time to meet HTs?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Duskie Bennett	Trinity	9/25/17	15:18	Brittany Cox		9/25/17	3:19
				Comitling		9/26/17	11:00

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

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

Temp: 25 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 2.3



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 09/25/2017 03:19:00 PM

Work Order #: 563852

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
#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: 09/26/2017

Checklist reviewed by:

Holly Taylor

Date: 09/26/2017