

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: NEL 4 SWD Battery NMOCD Reference#: 2RP-4623

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: H (SE/NE) Section: 9 Township: 23S Range: 28E County: Eddy GPS Coordinates: 32.3218727N -104.0860443W

Depth to Ground Water: 30' 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: 40 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: 100 Chloride: 250
 1,000 600
 5,000

Date/Time of Release: 9/8/2017 Type of Release: Produced Water Approximate Volume of Release: See Below

Background Information:

On September 8, 2017, OXY USA, Inc. (OXY), discovered a release at the NEL 4 Salt Water Disposal (SWD) Battery. Failure of a pop-up valve on a relief line resulted in the release of approximately 263 barrels (bbls) of produced water and 1 bbl of crude oil. During initial response activities, the pop-up valve was repaired, and a vacuum truck was utilized to recover approximately 80 bbls of free-standing liquid. The release was confined to the earthen containment surrounding the SWD battery and affected an area measuring approximately 6,400 square feet.

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office and the United States Department of the Interior - Bureau of Land Management's (BLM) Carlsbad District Office on September 11, 2017. The NMOCD "Release Notification & Corrective Action" form C-141 is provided as Appendix A. General photographs of the release site are provided in Appendix C. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On September 12, 2017, during an initial environmental site assessment, a hand-auger was utilized to collect a series of soil samples from six (6) locations (SP-1 through SP-6) inside the containment area to investigate the extent of impacted soil. The auger holes were advanced to the hard rock layer underlying the site and ranged in depth from approximately 6 inches (SP-1, SP-2, and SP-6) to 2 feet (SP-3 and SP-4) below ground surface (bgs). Soil samples were collected at 6-inch to 2-foot vertical intervals and field-screened with a chloride test kit. Confirmation samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8015 Mod, and SW 846-8021B, respectively. Laboratory analytical results and field-screens indicated additional vertical delineation was required.

On January 22 and 23, 2018, due to the comparatively small size of the containment area, a mini backhoe was utilized in an attempt to conduct additional delineation of the release. Delineation trenches were advanced in the areas represented by auger holes SP-1, SP-2, SP-5, and SP-6, as well as in a previously undisturbed section of the containment area (SP-7). The delineation trenches were advanced to the hard rock layer underlying the site and ranged in depth from approximately 2 feet (SP-2 and SP-7) to 3 feet (SP-1, SP-5, and SP-6) bgs. Soil samples were collected from the floor of each trench, and select soil samples were field-screened with a chloride test kit. Confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results and field-screens indicated additional vertical delineation was required, however, further advancement into the hard rock layer was deemed impracticable without specialized equipment.

On January 20, 2018, a mechanical auger was utilized to advance boreholes in the areas represented by auger holes/delineation trenches SP-1, SP-3, SP-4, SP-5, and SP-6. The boreholes were advanced to total depths ranging

Trinity Oilfield Services & Rentals, LLC

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Summary of Field Activities (cont.):

from approximately 7 feet (SP-1) to 14 feet (SP-3, SP-4, SP-5, and SP-6) bgs. Soil samples were collected at 1- to 2-foot vertical intervals and field-screened with a chloride test kit. Confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results and field-screens indicated that the release may have commingled with a historical release (or releases). Additional delineation is required to determine the extent of chloride contamination, however, vertical delineation of TPH and BTEX contamination was achieved.

Locations of the auger/boreholes and delineation trenches are depicted in Figure 2, "Site Plan". 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 NEL 4 SWD Battery release site to an NMOCD- and BLM-approved closure:

- The existing SWD facility will be dismantled and relocated to another area of the caliche pad.
- The footprint of the containment area will be excavated to a total depth of 4 feet bgs. Soil samples will be collected at approximate 50-foot horizontal intervals from the sidewalls of the excavation 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.
- The excavation will be fenced off during periods of inactivity to prevent injury to oilfield personnel, wildlife, and/or livestock.
- A 20-mil, impermeable, plastic liner will be installed on the floor of the excavation at approximately 4 feet bgs. This engineered control will serve to inhibit vertical migration of contaminants remaining in-situ. Felt padding will be installed prior to installation of the liner to protect it during installation and backfilling activities.
- A section of 8-inch PVC conduit will be installed near the release point, in the area represented by auger hole/delineation trench SP-6, to facilitate drilling of a soil boring/temporary monitor well through the liner at a later date. The riser will be fitted with a chemically-welded, 40-mil boot to preserve the integrity and impermeability of the liner.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography.
- A temporary monitoring well (TMW-1) will be drilled in the area represented by auger hole/delineation trench SP-6 (i.e., through the 8-inch PVC conduit) to allow collection of a groundwater sample. Should it be determined that groundwater has been impacted, the well will be converted to a four-inch (4") monitor well (PMW-1) to facilitate any necessary groundwater remediation activities. Four (4) 2-inch diameter monitor wells will also be installed up-, down-, and cross-gradient of PMW-1 to determine the extent of the dissolved-phase plume. The locations of the proposed monitor wells are depicted in Figure 2.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary" will be submitted to the NMOCD and BLM, documenting remediation activities and results of soil and groundwater samples.

Trinity Oilfield Services & Rentals, LLC

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**Proposed Soil Boring/Monitor Well Locations:**

32.321631	N	-104.086613	W
32.321472	N	-104.086602	W
32.321609	N	-104.086440	W
32.321816	N	-104.086598	W
32.321610	N	-104.086844	W

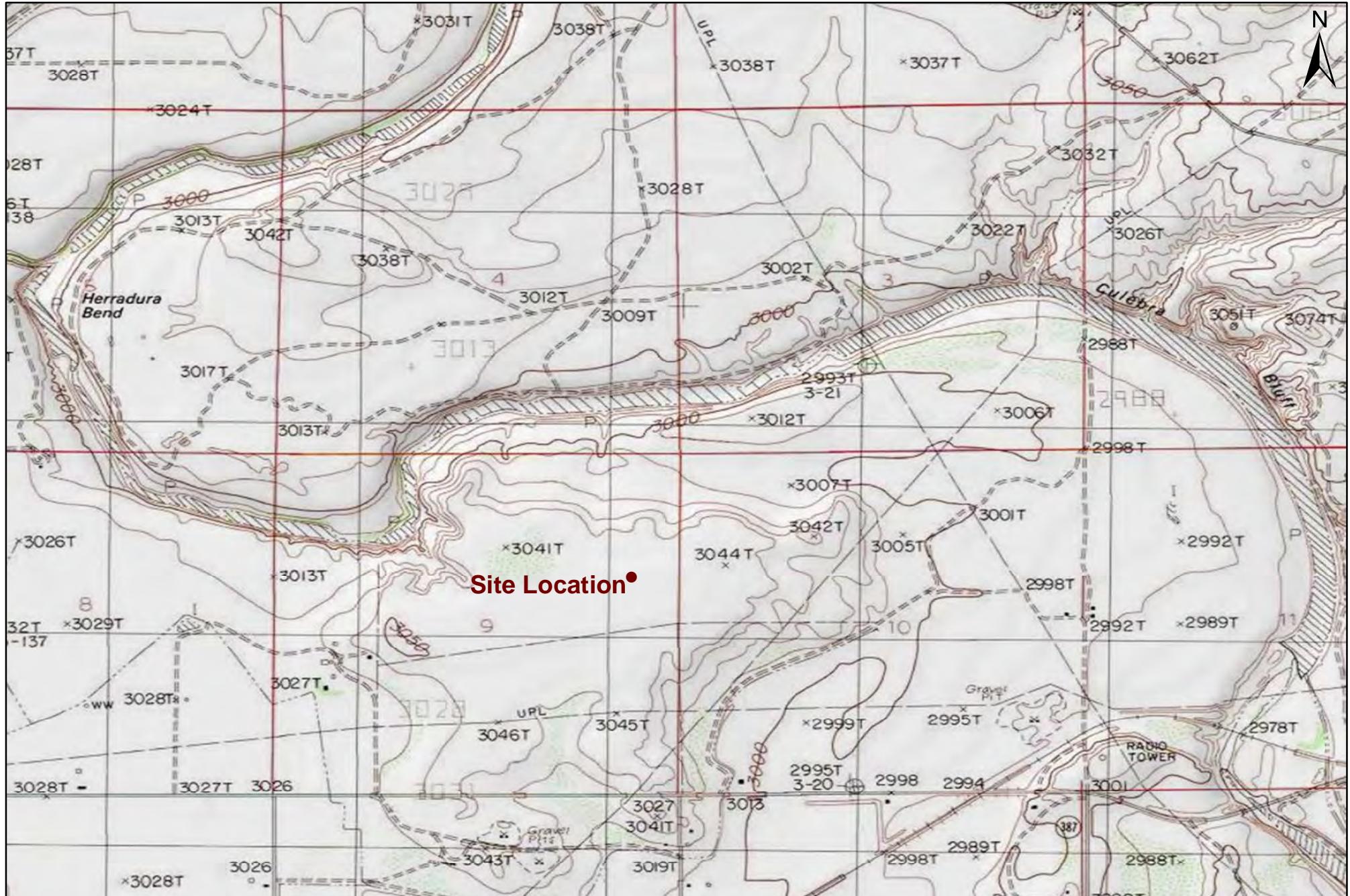
Name/Description:

TMW-1/PMW-1
PMW-2
PMW-3
PMW-4
PMW-5

Enclosures:**Figure 1: Site Location Map****Figure 2: Site Plan****Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil****Appendix A: Release Notification & Corrective Action (Form C-141)****Appendix B: Depth-to-Groundwater Data****Appendix C: Photographs****Appendix D: Laboratory Analytical Results**
4/18/2018

Ben J. Arguijo
Project Manager

Figures



A horizontal scale bar representing distance in feet. The scale is marked at 2,000, 1,000, 0, and 2,000. A thick black line segment spans from the -2,000 mark to the +2,000 mark, with a vertical tick mark at the 0 position.

**Figure 1
Site Location Map
OXY USA, Inc.
NEL 4 SWD Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-4623**



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

Drawn By: BJA	Checked By: CTR
April 19, 2018	Scale: 1" = 2,000'



Legend

- [Green Box] Proposed Excavation (4' bgs)
- [Red Circle] Auger/Borehole
- [Blue Line] Delineation Trench
- [Blue Arrow] Groundwater Gradient (Inferred)
- [Blue Circle] Proposed Monitor Well

**Figure 2
Site Plan**
OXY USA, Inc.
NEL 4 SWD Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-4623



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

Drawn By: BJA	Checked By: CTR
April 19, 2018	Scale: 1" = 25'

Tables

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

OXY USA, INC.
NEL FEDERAL 4 BATTERY
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-4623



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	100	250
SP-1 @ 6"	6"	9/12/2017	In-Situ	-	-	-	-	-	-	2,210	7,220	2,820	12,300	952	
SP-1 @ 1'	1'	1/22/2018	In-Situ	-	-	-	-	-	-	359	539	610	1,510	866	
SP-1 @ 3'	3'	1/23/2018	In-Situ	-	-	-	-	-	-	644	688	1,120	2,450	327	
SP-1 @ 3'	3'	1/29/2018	In-Situ	-	-	-	-	-	-	124	540	340	1,000	714	
SP-1 @ 5'	5'	1/29/2018	In-Situ	-	-	-	-	-	-	<15.0	73.7	27.8	102	298	
SP-1 @ 7'	7'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	0.0041	0.0037	0.0077	0.0077	<15.0	65.2	23.8	89.0	336
SP-2 @ 6"	6"	9/12/2017	In-Situ	-	-	-	-	-	-	586	982	<74.9	1,570	3,610	
SP-2 @ 2'	2'	1/22/2018	In-Situ	-	-	-	-	-	-	68.4	118	150	336	1,530	
SP-3 @ 2'	2'	9/12/2017	In-Situ	-	-	-	-	-	-	23.5	132	81.3	237	7,480	
SP-3 @ 4'	4'	1/29/2018	In-Situ	-	-	-	-	-	-	53.1	83.3	126	262	460	
SP-3 @ 8'	8'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	1,530
SP-3 @ 14'	14'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	17.0	18.0	35.0	391
SP-4 @ 6"	6"	9/12/2017	In-Situ	-	-	-	-	-	-	301	3,390	497	4,190	15,300	
SP-4 @ 2'	2'	9/12/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	84.3	<15.0	84.3	858
SP-4 @ 4'	4'	1/29/2018	In-Situ	-	-	-	-	-	-	<15.0	125	33.1	158	1,200	
SP-4 @ 12'	12'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	56.0	24.6	80.6	269
SP-4 @ 14'	14'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	71.3	22.1	93.4	624
SP-5 @ 6"	6"	9/12/2017	In-Situ	0.0161	0.0162	0.0103	0.222	0.0424	0.264	0.307	<15.0	80.7	<15.0	80.7	1,360
SP-5 @ 1'	1'	9/12/2017	In-Situ	<0.0036	<0.0036	<0.0036	<0.0072	0.0076	0.0076	0.0076	<15.0	18.4	<15.0	18.4	3,030
SP-5 @ 3'	3'	1/22/2018	In-Situ	-	-	-	-	-	-	<15.0	177	44.7	222	9,250	
SP-5 @ 4'	4'	1/29/2018	In-Situ	-	-	-	-	-	-	<15.0	109	18.6	128	6,170	
SP-5 @ 10'	10'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	630
SP-5 @ 14'	14'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	47.5	<15.0	47.5	874
SP-6 @ 6"	6"	9/12/2017	In-Situ	-	-	-	-	-	-	91.3	705	71.6	868	9,210	
SP-6 @ 3'	3'	1/23/2018	In-Situ	<0.0033	<0.0033	<0.0033	<0.0065	<0.0033	<0.0033	<0.0033	<15.0	67.2	26.1	93.3	7,750
SP-6 @ 3'	3'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	2,990
SP-6 @ 7'	7'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	6,080
SP-6 @ 10'	10'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	2,990
SP-6 @ 14'	14'	1/29/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	1,500
SP-7 @ 2'	2'	1/22/2018	In-Situ	-	-	-	-	-	-	118	915	280	1,310	2,410	

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

AMENDED

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 P.O. Box 4294, Houston, TX 77210	Telephone No. (575)390-2828
Facility Name NEL 4 SWD Battery	Facility Type Salt Water Disposal

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-24424
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	9	23S	28E	1980	N	720	E	Eddy

Latitude 32.3218727 Longitude -104.0860443 NAD83

NATURE OF RELEASE

Type of Release Produced water & crude oil	Volume of Release 263 bbls Produced Water & 1 bbl Crude Oil	Volume Recovered 80 bbls
Source of Release Pop-off valve on relief line	Date and Hour of Occurrence 9/8/2017, Time unknown	Date and Hour of Discovery 9/8/2017, 12:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher & Crystal Weaver - NMOCD; Shirley Tucker - BLM	
By Whom? Wade Dittrich	Date and Hour 9/11/2017, 1:59 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

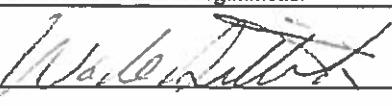
Describe Cause of Problem and Remedial Action Taken.*

Spill caused by failure of a pop-off valve on a relief line. The pop-off valve has been repaired.

Describe Area Affected and Cleanup Action Taken.*

The release was confined to the earthen containment surrounding the SWD battery, and the affected area inside the berm measured approximately 6,400 sq. ft. Remediation of the impacted area will be conducted in accordance with NMOCD and BLM guidelines.

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: Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: wade_dittrich@oxy.com	Conditions of Approval:	
Date: 4/20/2018	Attached <input type="checkbox"/>	
Phone: (575) 390-2828		

* Attach Additional Sheets If Necessary

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	POD				X	Y	Water				
				Q	Q	Q	64 16 4 Sec Tws Rng			Distance	Depth	Well Depth	Water Column	
C_00800		C	ED	4	2	09	23S 28E	586050	3576479*		23	200	30	170
C_00326		C	ED	3	3	3	10 23S 28E	586358	3575572*		967	130	19	111
C_00326 CLW196238	O		ED	3	3	3	10 23S 28E	586358	3575572*		967	196	25	171
C_03762 POD2		CUB	ED	4	4	2	17 23S 28E	584893	3575598		1436	40	30	10
C_00311		C	ED	4	2	1	16 23S 28E	585353	3575152*		1489	163	55	108

Average Depth to Water: **31 feet**

Minimum Depth: **19 feet**

Maximum Depth: **55 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 586026.66

Northing (Y): 3576480.66

Radius: 1610

*UTM location was derived from PLSS - see Help

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 9:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

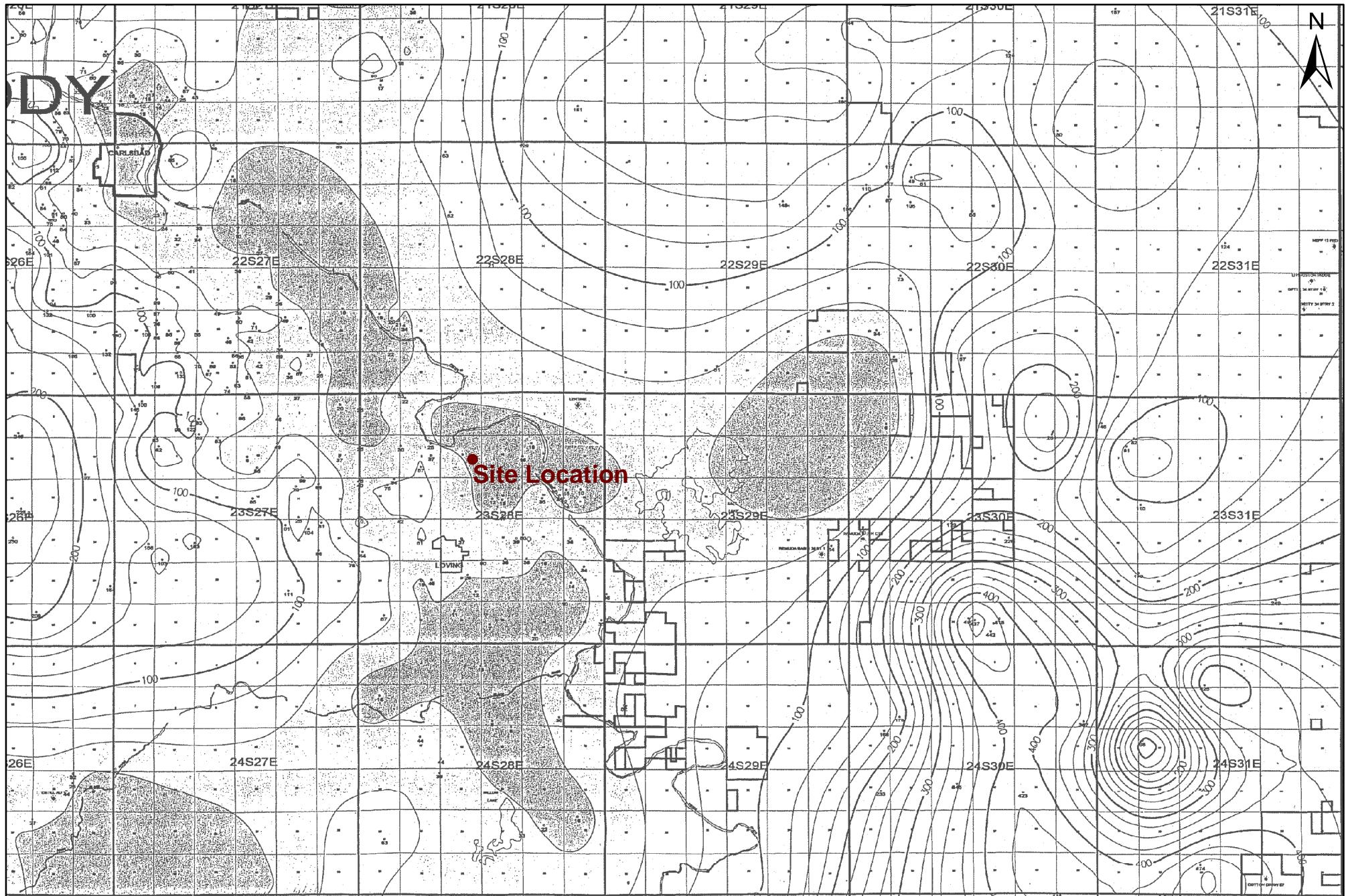


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
NEL 4 SWD Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-4623



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

Drawn By: BJA	Checked By: CTR
April 19, 2018	Not To Scale

Appendix C

Photographs

OXY USA, Inc. – NEL 4 SWD Battery
Unit Letter "H" (SE/NE), Section 9, Township 23S, Range 28E



NEL 4 SWD Battery - Release (Looking South-Southwest)



NEL 4 SWD Battery - Release (Looking South)

OXY USA, Inc. – NEL 4 SWD Battery
Unit Letter "H" (SE/NE), Section 9, Township 23S, Range 28E



NEL 4 SWD Battery – Release (Looking West-Southwest)



NEL 4 SWD Battery – Release (Looking East-Southeast)

OXY USA, Inc. – NEL 4 SWD Battery
Unit Letter "H" (SE/NE), Section 9, Township 23S, Range 28E



NEL 4 SWD Battery – Release (Looking West-Southwest)



NEL 4 SWD Battery – Release (Looking South)

OXY USA, Inc. – NEL 4 SWD Battery
Unit Letter "H" (SE/NE), Section 9, Township 23S, Range 28E



NEL 4 SWD Battery – Release (Looking North-Northeast)



NEL 4 SWD Battery – Release (Looking East-Northeast)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 563204

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal #4 SWD



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-18-17 09:25 am

Report Date: 28-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563204-001	563204-002	563204-003	563204-004	563204-005	563204-006
	Field Id:	SP-1 @ 6"	SP-2 @ 6"	SP-3 @ 2'	SP-4 @ 6"	SP-4 @ 2'	SP-5 @ 6"
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-12-17 09:23	Sep-12-17 09:38	Sep-12-17 09:55	Sep-12-17 10:13	Sep-12-17 10:34	Sep-12-17 10:45
BTEX by EPA 8021B	Extracted:					Sep-25-17 09:00	Sep-25-17 16:50
	Analyzed:					Sep-25-17 13:19	Sep-26-17 08:23
	Units/RL:					mg/kg	RL
Benzene						<0.00202	0.00202
Toluene						<0.00202	0.00202
Ethylbenzene						<0.00202	0.00202
m,p-Xylenes						<0.00404	0.00404
o-Xylene						<0.00202	0.00202
Total Xylenes						<0.00202	0.00202
Total BTEX						<0.00202	0.00202
Chloride by EPA 300	Extracted:	Sep-25-17 09:45	Sep-25-17 15:35				
	Analyzed:	Sep-25-17 14:39	Sep-25-17 17:33	Sep-25-17 17:54	Sep-25-17 18:01	Sep-25-17 18:08	Sep-25-17 18:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		952	4.99	3610	24.9	7480	49.4
						15300	98.6
TPH By SW8015 Mod	Extracted:	Sep-21-17 09:00					
	Analyzed:	Sep-21-17 14:48	Sep-21-17 15:09	Sep-21-17 15:29	Sep-21-17 15:50	Sep-21-17 16:10	Sep-21-17 16:31
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		2210	74.7	586	74.9	23.5	14.9
						301	15.0
Diesel Range Organics (DRO)		7220	74.7	982	74.9	132	14.9
						3390	15.0
Oil Range Hydrocarbons (ORO)		2820	74.7	<74.9	74.9	81.3	14.9
						497	15.0
Total TPH		12300	74.7	1570	74.9	237	14.9
						4190	15.0
						84.3	15.0
						80.7	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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America

Hely Taylor

Holly Taylor
Project Manager



Certificate of Analysis Summary 563204

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal #4 SWD



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-18-17 09:25 am

Report Date: 28-SEP-17

Project Manager: Holly Taylor

Analysis Requested		<i>Lab Id:</i>	563204-007	563204-008				
		<i>Field Id:</i>	SP-5 @ 1'	SP-6 @ 6"				
		<i>Depth:</i>						
		<i>Matrix:</i>	SOIL	SOIL				
		<i>Sampled:</i>	Sep-12-17 10:53	Sep-12-17 11:12				
BTEX by EPA 8021B		<i>Extracted:</i>	Sep-25-17 16:50					
		<i>Analyzed:</i>	Sep-25-17 22:48					
		<i>Units/RL:</i>	mg/kg	RL				
Benzene		<0.00361	0.00361					
Toluene		<0.00361	0.00361					
Ethylbenzene		<0.00361	0.00361					
m,p-Xylenes		<0.00722	0.00722					
o-Xylene		0.00762	0.00361					
Total Xylenes		0.00762	0.00361					
Total BTEX		0.00762	0.00361					
Chloride by EPA 300		<i>Extracted:</i>	Sep-25-17 15:35	Sep-25-17 15:35				
		<i>Analyzed:</i>	Sep-25-17 18:22	Sep-25-17 22:12				
		<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL		
Chloride		3030	24.8	9210	49.9			
TPH By SW8015 Mod		<i>Extracted:</i>	Sep-21-17 09:00	Sep-21-17 09:00				
		<i>Analyzed:</i>	Sep-21-17 17:32	Sep-21-17 17:52				
		<i>Units/RL:</i>	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	91.3	15.0			
Diesel Range Organics (DRO)		18.4	15.0	705	15.0			
Oil Range Hydrocarbons (ORO)		<15.0	15.0	71.6	15.0			
Total TPH		18.4	15.0	868	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 563204
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
NEL Federal #4 SWD

28-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)

28-SEP-17

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

Reference: XENCO Report No(s): **563204**

NEL Federal #4 SWD

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) 563204. 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. 563204 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

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6"	S	09-12-17 09:23		563204-001
SP-2 @ 6"	S	09-12-17 09:38		563204-002
SP-3 @ 2'	S	09-12-17 09:55		563204-003
SP-4 @ 6"	S	09-12-17 10:13		563204-004
SP-4 @ 2'	S	09-12-17 10:34		563204-005
SP-5 @ 6"	S	09-12-17 10:45		563204-006
SP-5 @ 1'	S	09-12-17 10:53		563204-007
SP-6 @ 6"	S	09-12-17 11:12		563204-008



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: NEL Federal #4 SWD

Project ID:

Work Order Number(s): 563204

Report Date: 28-SEP-17

Date Received: 09/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3028672 BTEX by EPA 8021B

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

Batch: LBA-3028678 BTEX by EPA 8021B

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



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received:09.18.17 09.25

Lab Sample Id: **563204-001**

Date Collected:09.12.17 09.23

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 09.45**

Basis: **Wet Weight**

Seq Number: **3028582**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	952	4.99	mg/kg	09.25.17 14.39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2210	74.7	mg/kg	09.21.17 14.48		5
Diesel Range Organics (DRO)	C10C28DRO	7220	74.7	mg/kg	09.21.17 14.48		5
Oil Range Hydrocarbons (ORO)	PHCG2835	2820	74.7	mg/kg	09.21.17 14.48		5
Total TPH	PHC635	12300	74.7	mg/kg	09.21.17 14.48		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	120	%	70-135	09.21.17 14.48	
o-Terphenyl		84-15-1	107	%	70-135	09.21.17 14.48	



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received: 09.18.17 09.25

Lab Sample Id: **563204-002**

Date Collected: 09.12.17 09.38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3610	24.9	mg/kg	09.25.17 17.33		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	586	74.9	mg/kg	09.21.17 15.09		5
Diesel Range Organics (DRO)	C10C28DRO	982	74.9	mg/kg	09.21.17 15.09		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<74.9	74.9	mg/kg	09.21.17 15.09	U	5
Total TPH	PHC635	1570	74.9	mg/kg	09.21.17 15.09		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.21.17 15.09		
o-Terphenyl	84-15-1	100	%	70-135	09.21.17 15.09		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

Sample Id: **SP-3 @ 2'**

Matrix: **Soil**

Date Received: 09.18.17 09.25

Lab Sample Id: **563204-003**

Date Collected: 09.12.17 09.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7480	49.4	mg/kg	09.25.17 17.54		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	23.5	14.9	mg/kg	09.21.17 15.29		1
Diesel Range Organics (DRO)	C10C28DRO	132	14.9	mg/kg	09.21.17 15.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	81.3	14.9	mg/kg	09.21.17 15.29		1
Total TPH	PHC635	237	14.9	mg/kg	09.21.17 15.29		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	09.21.17 15.29		
o-Terphenyl	84-15-1	101	%	70-135	09.21.17 15.29		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received:09.18.17 09.25

Lab Sample Id: **563204-004**

Date Collected:09.12.17 10.13

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15300	98.6	mg/kg	09.25.17 18.01		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	301	15.0	mg/kg	09.21.17 15.50		1
Diesel Range Organics (DRO)	C10C28DRO	3390	15.0	mg/kg	09.21.17 15.50		1
Oil Range Hydrocarbons (ORO)	PHCG2835	497	15.0	mg/kg	09.21.17 15.50		1
Total TPH	PHC635	4190	15.0	mg/kg	09.21.17 15.50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	106	%	70-135	09.21.17 15.50	
o-Terphenyl		84-15-1	90	%	70-135	09.21.17 15.50	



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

Sample Id: **SP-4 @ 2'**

Matrix: **Soil**

Date Received: 09.18.17 09.25

Lab Sample Id: **563204-005**

Date Collected: 09.12.17 10.34

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	858	4.95	mg/kg	09.25.17 18.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.21.17 16.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	84.3	15.0	mg/kg	09.21.17 16.10		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.21.17 16.10	U	1
Total TPH	PHC635	84.3	15.0	mg/kg	09.21.17 16.10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	09.21.17 16.10		
o-Terphenyl	84-15-1	103	%	70-135	09.21.17 16.10		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

Sample Id: SP-4 @ 2'

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563204-005

Date Collected: 09.12.17 10.34

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.25.17 13.19	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.25.17 13.19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	86	%	80-120	09.25.17 13.19		
1,4-Difluorobenzene	540-36-3	91	%	80-120	09.25.17 13.19		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

Sample Id: **SP-5 @ 6"** Matrix: **Soil** Date Received:09.18.17 09.25
Lab Sample Id: 563204-006 Date Collected: 09.12.17 10.45

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MNV % Moisture:
Analyst: MNV Date Prep: 09.25.17 15.35 Basis: Wet Weight
Seq Number: 3028831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1360	4.97	mg/kg	09.25.17 18.15		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.21.17 09.00 Basis: Wet Weight
Seq Number: 3028432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.21.17 16.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.7	15.0	mg/kg	09.21.17 16.31		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.21.17 16.31	U	1
Total TPH	PHC635	80.7	15.0	mg/kg	09.21.17 16.31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	09.21.17 16.31	
o-Terphenyl	84-15-1	104	%	70-135	09.21.17 16.31	



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received:09.18.17 09.25

Lab Sample Id: **563204-006**

Date Collected:09.12.17 10.45

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **09.25.17 16.50**

Basis: **Wet Weight**

Seq Number: **3028678**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0161	0.00662	mg/kg	09.26.17 08.23		1
Toluene	108-88-3	0.0162	0.00662	mg/kg	09.26.17 08.23		1
Ethylbenzene	100-41-4	0.0103	0.00662	mg/kg	09.26.17 08.23		1
m,p-Xylenes	179601-23-1	0.222	0.0132	mg/kg	09.26.17 08.23		1
o-Xylene	95-47-6	0.0424	0.00662	mg/kg	09.26.17 08.23		1
Total Xylenes	1330-20-7	0.264	0.00662	mg/kg	09.26.17 08.23		1
Total BTEX		0.307	0.00662	mg/kg	09.26.17 08.23		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.26.17 08.23		
4-Bromofluorobenzene	460-00-4	92	%	80-120	09.26.17 08.23		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received: 09.18.17 09.25

Lab Sample Id: **563204-007**

Date Collected: 09.12.17 10.53

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3030	24.8	mg/kg	09.25.17 18.22		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.21.17 17.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	18.4	15.0	mg/kg	09.21.17 17.32		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.21.17 17.32	U	1
Total TPH	PHC635	18.4	15.0	mg/kg	09.21.17 17.32		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	122	%	70-135	09.21.17 17.32		
o-Terphenyl	84-15-1	117	%	70-135	09.21.17 17.32		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received:09.18.17 09.25

Lab Sample Id: **563204-007**

Date Collected:09.12.17 10.53

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **09.25.17 16.50**

Basis: **Wet Weight**

Seq Number: **3028678**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00361	0.00361	mg/kg	09.25.17 22.48	U	1
Toluene	108-88-3	<0.00361	0.00361	mg/kg	09.25.17 22.48	U	1
Ethylbenzene	100-41-4	<0.00361	0.00361	mg/kg	09.25.17 22.48	U	1
m,p-Xylenes	179601-23-1	<0.00722	0.00722	mg/kg	09.25.17 22.48	U	1
o-Xylene	95-47-6	0.00762	0.00361	mg/kg	09.25.17 22.48		1
Total Xylenes	1330-20-7	0.00762	0.00361	mg/kg	09.25.17 22.48		1
Total BTEX		0.00762	0.00361	mg/kg	09.25.17 22.48		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	80-120	09.25.17 22.48		
4-Bromofluorobenzene	460-00-4	80	%	80-120	09.25.17 22.48		



Certificate of Analytical Results 563204



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal #4 SWD

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

Matrix: **Soil**

Date Received:09.18.17 09.25

Lab Sample Id: **563204-008**

Date Collected:09.12.17 11.12

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: **MNV**

% Moisture:

Analyst: **MNV**

Date Prep: **09.25.17 15.35**

Basis: **Wet Weight**

Seq Number: **3028831**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9210	49.9	mg/kg	09.25.17 22.12		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: **ARM**

% Moisture:

Analyst: **ARM**

Date Prep: **09.21.17 09.00**

Basis: **Wet Weight**

Seq Number: **3028432**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	91.3	15.0	mg/kg	09.21.17 17.52		1
Diesel Range Organics (DRO)	C10C28DRO	705	15.0	mg/kg	09.21.17 17.52		1
Oil Range Hydrocarbons (ORO)	PHCG2835	71.6	15.0	mg/kg	09.21.17 17.52		1
Total TPH	PHC635	868	15.0	mg/kg	09.21.17 17.52		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	09.21.17 17.52		
o-Terphenyl	84-15-1	100	%	70-135	09.21.17 17.52		

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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

Certified and approved by numerous States and Agencies.

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

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 9701 Harry Hines Blvd , Dallas, TX 75220
 5332 Blackberry Drive, San Antonio TX 78238
 1211 W Florida Ave, Midland, TX 79701
 2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282

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

Trinity Oilfield Services & Rentals, LLC

NEL Federal #4 SWD

Analytical Method: Chloride by EPA 300

Seq Number:	3028582	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	731500-1-BLK	LCS Sample Id: 731500-1-BKS				Date Prep: 09.25.17			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	266	106	266	106	90-110	0	20
								mg/kg	09.25.17 11:24

Analytical Method: Chloride by EPA 300

Seq Number:	3028831	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	731502-1-BLK	LCS Sample Id: 731502-1-BKS				Date Prep: 09.25.17			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	267	107	267	107	90-110	0	20
								mg/kg	09.25.17 16:37

Analytical Method: Chloride by EPA 300

Seq Number:	3028582	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	563208-023	MS Sample Id: 563208-023 S				Date Prep: 09.25.17			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	63.8	245	321	105	322	105	90-110	0	20
								mg/kg	09.25.17 11:45

Analytical Method: Chloride by EPA 300

Seq Number:	3028582	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	563470-001	MS Sample Id: 563470-001 S				Date Prep: 09.25.17			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	<4.90	245	255	104	255	104	90-110	0	20
								mg/kg	09.25.17 13:30

Analytical Method: Chloride by EPA 300

Seq Number:	3028831	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	563207-001	MS Sample Id: 563207-001 S				Date Prep: 09.25.17			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	8.06	248	271	106	273	107	90-110	1	20
								mg/kg	09.25.17 21:58

Analytical Method: Chloride by EPA 300

Seq Number:	3028831	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	563221-004	MS Sample Id: 563221-004 S				Date Prep: 09.25.17			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	65.0	249	326	105	325	104	90-110	0	20
								mg/kg	09.25.17 16:58



QC Summary 563204

Trinity Oilfield Services & Rentals, LLC

NEL Federal #4 SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028432

Matrix: Solid

Prep Method: TX1005P

Date Prep: 09.21.17

MB Sample Id: 731365-1-BLK

LCS Sample Id: 731365-1-BKS

LCSD Sample Id: 731365-1-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	1060	106	1000	100	70-135	6	35	mg/kg	09.21.17 11:56	
Diesel Range Organics (DRO)	<15.0	1000	1090	109	1080	108	70-135	1	35	mg/kg	09.21.17 11:56	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	107		104		100		70-135	%	09.21.17 11:56			
o-Terphenyl	105		100		97		70-135	%	09.21.17 11:56			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028432

Matrix: Soil

Prep Method: TX1005P

Date Prep: 09.21.17

Parent Sample Id: 563203-004

MS Sample Id: 563203-004 S

MSD Sample Id: 563203-004 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	1040	104	1130	113	70-135	8	35	mg/kg	09.22.17 14:02	
Diesel Range Organics (DRO)	<15.0	998	1170	117	1140	114	70-135	3	35	mg/kg	09.22.17 14:02	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			98		96		70-135	%	09.22.17 14:02			
o-Terphenyl			87		82		70-135	%	09.22.17 14:02			

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028672

Matrix: Solid

Prep Method: SW5030B

Date Prep: 09.25.17

MB Sample Id: 731515-1-BLK

LCS Sample Id: 731515-1-BKS

LCSD Sample Id: 731515-1-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	0.0994	0.108	109	0.109	109	70-130	1	35	mg/kg	09.25.17 10:09	
Toluene	<0.00199	0.0994	0.102	103	0.103	103	70-130	1	35	mg/kg	09.25.17 10:09	
Ethylbenzene	<0.00199	0.0994	0.102	103	0.103	103	71-129	1	35	mg/kg	09.25.17 10:09	
m,p-Xylenes	<0.00398	0.199	0.199	100	0.201	101	70-135	1	35	mg/kg	09.25.17 10:09	
o-Xylene	<0.00199	0.0994	0.0956	96	0.0967	97	71-133	1	35	mg/kg	09.25.17 10:09	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene	94		98		98		80-120	%	09.25.17 10:09			
4-Bromofluorobenzene	80		91		92		80-120	%	09.25.17 10:09			



QC Summary 563204

Trinity Oilfield Services & Rentals, LLC

NEL Federal #4 SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028678

Matrix: Solid

Prep Method: SW5030B

Date Prep: 09.25.17

MB Sample Id: 731517-1-BLK

LCS Sample Id: 731517-1-BKS

LCSD Sample Id: 731517-1-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	0.110	110	0.107	107	70-130	3	35	mg/kg	09.25.17 19:40	
Toluene	<0.00200	0.100	0.103	103	0.100	100	70-130	3	35	mg/kg	09.25.17 19:40	
Ethylbenzene	<0.00200	0.100	0.103	103	0.0998	100	71-129	3	35	mg/kg	09.25.17 19:40	
m,p-Xylenes	<0.00401	0.200	0.200	100	0.194	97	70-135	3	35	mg/kg	09.25.17 19:40	
o-Xylene	<0.00200	0.100	0.0967	97	0.0947	95	71-133	2	35	mg/kg	09.25.17 19:40	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene	97		97		97		80-120	%	09.25.17 19:40			
4-Bromofluorobenzene	82		90		91		80-120	%	09.25.17 19:40			

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028672

Matrix: Soil

Prep Method: SW5030B

Date Prep: 09.25.17

Parent Sample Id: 563632-001

MS Sample Id: 563632-001 S

MSD Sample Id: 563632-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00219	0.101	0.0693	66	0.0777	75	70-130	11	35	mg/kg	09.25.17 10:47	X
Toluene	0.00958	0.101	0.0566	47	0.0645	54	70-130	13	35	mg/kg	09.25.17 10:47	X
Ethylbenzene	<0.00201	0.101	0.0414	41	0.0423	42	71-129	2	35	mg/kg	09.25.17 10:47	X
m,p-Xylenes	0.00431	0.201	0.0788	37	0.0798	37	70-135	1	35	mg/kg	09.25.17 10:47	X
o-Xylene	<0.00201	0.101	0.0420	42	0.0416	41	71-133	1	35	mg/kg	09.25.17 10:47	X
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene			98		111		80-120	%	09.25.17 10:47			
4-Bromofluorobenzene			83		103		80-120	%	09.25.17 10:47			

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028678

Matrix: Soil

Prep Method: SW5030B

Date Prep: 09.25.17

Parent Sample Id: 563676-001

MS Sample Id: 563676-001 S

MSD Sample Id: 563676-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0872	86	0.0798	80	70-130	9	35	mg/kg	09.25.17 20:18	
Toluene	0.00609	0.101	0.0801	73	0.0763	70	70-130	5	35	mg/kg	09.25.17 20:18	
Ethylbenzene	<0.00202	0.101	0.0656	65	0.0668	67	71-129	2	35	mg/kg	09.25.17 20:18	X
m,p-Xylenes	<0.00404	0.202	0.125	62	0.130	65	70-135	4	35	mg/kg	09.25.17 20:18	X
o-Xylene	<0.00202	0.101	0.0627	62	0.0643	64	71-133	3	35	mg/kg	09.25.17 20:18	X
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene			95		94		80-120	%	09.25.17 20:18			
4-Bromofluorobenzene			87		88		80-120	%	09.25.17 20:18			



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
Environmental Analysis Radiochemistry

Page 1 of 1

LAB W.O #:

SL63204

Field billable Hrs :

* Container Type Codes

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

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

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

Company: Trinity Oilfield Services & Rentals, LLC

Phone: (575)390-7208

Address: P.O. Box 2587

Fax:

City: Hobbs

State: NM Zip: 88241

PM/Attn: Ben J. Arguijo

Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com

Project ID: NEL Federal #4 SWD

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

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

Cont

TPH 8015M

BTEX Chloride

Lab Only:

(CALL → on Highest TPH Only)

Hold Sample Run PAH Only

REMARKS

1 SP-1 @ 6" 9/12/17 0923 S 1 X

2 SP-2 @ 6" 9/12/17 0938 S 1 X

3 SP-3 @ 2' 9/12/17 0955 S 1 X

4 SP-4 @ 6" 9/12/17 1013 S 1 X

5 SP-4 @ 2' 9/12/17 1034 S 1 X

6 SP-5 @ 6" 9/12/17 1045 S 1 X

7 SP-5 @ 1' 9/12/17 1053 S 1 X

8 SP-6 @ 6" 9/12/17 1112 S 1 X

9

0

Reg. Program / Clean-up Std

STATE for Certs & Regs

QA/QC Level & Certification

EDDs

COC & Labels

Coolers Temp °C

Lab Use Only YES NO N/A

CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK

LA AL NM Other: 1 2 3 4 CLP AFCEE QAPP NELAC

DoD-ELAP Other: ADaPT SEDD ERPIMS

XLS Other: Match Incomplete

Absent Unclear

10.4 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, excl VOCs? _____

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: A

Temp: 3.4 IR ID: R-8

CF:(0.6: -0.2°C)

(6-23: +0.2°C)

Corrected Temp: 3.2



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 09/18/2017 09:25:00 AM

Work Order #: 563204

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Jessica Kramer
Jessica Kramer

Date: 09/19/2017

Checklist reviewed by:

Holly Taylor
Holly Taylor

Date: 09/19/2017



Certificate of Analysis Summary 574550

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal 4 Battery



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Jan-24-18 03:00 pm

Report Date: 05-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	574550-001	Field Id:	574550-002	Depth:	574550-003	Matrix:	574550-004	Sampled:	574550-005	SP-1 @ 1'	SP-2 @ 2'	SP-5 @ 3'	SP-6 @ 3'	SP-7 @ 2'			
BTEX by EPA 8021B	Extracted:		Analyzed:		Units/RL:		Extracted:		Analyzed:		Units/RL:		Extracted:		Analyzed:		Units/RL:	
Benzene													<0.00325	0.00325				
Toluene													<0.00325	0.00325				
Ethylbenzene													<0.00325	0.00325				
m,p-Xylenes													<0.00649	0.00649				
o-Xylene													<0.00325	0.00325				
Total Xylenes													<0.00325	0.00325				
Total BTEX													<0.00325	0.00325				
Chloride by EPA 300	Extracted:	Jan-29-18 10:35	Analyzed:	Jan-29-18 10:35	Units/RL:	mg/kg	Extracted:	Jan-29-18 10:35	Analyzed:	Jan-29-18 10:35	Units/RL:	mg/kg	Extracted:	Jan-29-18 10:35	Analyzed:	Jan-29-18 10:35	Units/RL:	
Chloride		866	4.97			RL								7750	49.7		2410	24.6
TPH By SW8015 Mod	Extracted:	Jan-26-18 17:00	Analyzed:	Jan-26-18 17:00	Units/RL:	mg/kg	Extracted:	Jan-26-18 17:00	Analyzed:	Jan-26-18 17:00	Units/RL:	mg/kg	Extracted:	Jan-26-18 17:00	Analyzed:	Jan-26-18 17:00	Units/RL:	
Gasoline Range Hydrocarbons (GRO)		359	14.9			RL								<15.0	15.0		118	15.0
Diesel Range Organics (DRO)		539	14.9			RL								177	15.0		67.2	15.0
Oil Range Hydrocarbons (ORO)		610	14.9			RL								118	15.0		915	15.0
Total TPH		1510	14.9			RL								222	15.0		280	15.0
														336	15.0		93.3	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 574550
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
NEL Federal 4 Battery

05-FEB-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

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

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

05-FEB-18

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

Reference: XENCO Report No(s): **574550**

NEL Federal 4 Battery

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) 574550. 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. 574550 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.

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



Sample Cross Reference 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 1'	S	01-22-18 09:40		574550-001
SP-1 @ 3'	S	01-23-18 09:51		574550-002
SP-2 @ 2'	S	01-22-18 10:25		574550-003
SP-5 @ 3'	S	01-22-18 11:04		574550-004
SP-6 @ 3'	S	01-23-18 10:30		574550-005
SP-7 @ 2'	S	01-22-18 11:25		574550-006



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: NEL Federal 4 Battery

Project ID:

Work Order Number(s): 574550

Report Date: 05-FEB-18

Date Received: 01/24/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3039610 BTEX by EPA 8021B

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



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 1'

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574550-001

Date Collected: 01.22.18 09.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	866	4.97	mg/kg	01.29.18 14.59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	359	14.9	mg/kg	01.27.18 10.15		1
Diesel Range Organics (DRO)	C10C28DRO	539	14.9	mg/kg	01.27.18 10.15		1
Oil Range Hydrocarbons (ORO)	PHCG2835	610	14.9	mg/kg	01.27.18 10.15		1
Total TPH	PHC635	1510	14.9	mg/kg	01.27.18 10.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	01.27.18 10.15		
o-Terphenyl	84-15-1	114	%	70-135	01.27.18 10.15		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 3'

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574550-002

Date Collected: 01.23.18 09.51

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	327	4.97	mg/kg	01.29.18 15.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	644	15.0	mg/kg	01.27.18 10.36		1
Diesel Range Organics (DRO)	C10C28DRO	688	15.0	mg/kg	01.27.18 10.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	1120	15.0	mg/kg	01.27.18 10.36		1
Total TPH	PHC635	2450	15.0	mg/kg	01.27.18 10.36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.27.18 10.36		
o-Terphenyl	84-15-1	107	%	70-135	01.27.18 10.36		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-2 @ 2'

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574550-003

Date Collected: 01.22.18 10.25

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1530	25.0	mg/kg	01.29.18 15.06		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	68.4	15.0	mg/kg	01.27.18 10.56		1
Diesel Range Organics (DRO)	C10C28DRO	118	15.0	mg/kg	01.27.18 10.56		1
Oil Range Hydrocarbons (ORO)	PHCG2835	150	15.0	mg/kg	01.27.18 10.56		1
Total TPH	PHC635	336	15.0	mg/kg	01.27.18 10.56		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	01.27.18 10.56		
o-Terphenyl	84-15-1	103	%	70-135	01.27.18 10.56		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-5 @ 3'

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574550-004

Date Collected: 01.22.18 11.04

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9250	99.0	mg/kg	01.29.18 15.34		20

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.27.18 11.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	177	15.0	mg/kg	01.27.18 11.16		1
Oil Range Hydrocarbons (ORO)	PHCG2835	44.7	15.0	mg/kg	01.27.18 11.16		1
Total TPH	PHC635	222	15.0	mg/kg	01.27.18 11.16		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	01.27.18 11.16		
o-Terphenyl	84-15-1	105	%	70-135	01.27.18 11.16		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

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

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574550-005

Date Collected: 01.23.18 10.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7750	49.7	mg/kg	01.29.18 15.41		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.27.18 11.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	67.2	15.0	mg/kg	01.27.18 11.37		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.1	15.0	mg/kg	01.27.18 11.37		1
Total TPH	PHC635	93.3	15.0	mg/kg	01.27.18 11.37		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.27.18 11.37		
o-Terphenyl	84-15-1	104	%	70-135	01.27.18 11.37		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

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

Matrix: **Soil**

Date Received: 01.24.18 15.00

Lab Sample Id: **574550-005**

Date Collected: 01.23.18 10.30

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5030B**

Tech: **ALJ**

% Moisture:

Analyst: **ALJ**

Date Prep: **01.29.18 09.00**

Basis: **Wet Weight**

Seq Number: **3039610**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
Toluene	108-88-3	<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
Ethylbenzene	100-41-4	<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
m,p-Xylenes	179601-23-1	<0.00649	0.00649	mg/kg	01.29.18 17.40	U	1
o-Xylene	95-47-6	<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
Total Xylenes	1330-20-7	<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
Total BTEX		<0.00325	0.00325	mg/kg	01.29.18 17.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	80-120	01.29.18 17.40		
1,4-Difluorobenzene	540-36-3	90	%	80-120	01.29.18 17.40		



Certificate of Analytical Results 574550



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-7 @ 2'
Lab Sample Id: 574550-006

Matrix: Soil
Date Collected: 01.22.18 11.25

Date Received: 01.24.18 15.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.29.18 10.35

Basis: Wet Weight

Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2410	24.6	mg/kg	01.29.18 16.02		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.26.18 17.00

Basis: Wet Weight

Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	118	15.0	mg/kg	01.27.18 11.59		1
Diesel Range Organics (DRO)	C10C28DRO	915	15.0	mg/kg	01.27.18 11.59		1
Oil Range Hydrocarbons (ORO)	PHCG2835	280	15.0	mg/kg	01.27.18 11.59		1
Total TPH	PHC635	1310	15.0	mg/kg	01.27.18 11.59		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	112	%	70-135	01.27.18 11.59	
o-Terphenyl		84-15-1	94	%	70-135	01.27.18 11.59	



- 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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(432) 563-1800	(432) 563-1713
(602) 437-0330	



QC Summary 574550

Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: Chloride by EPA 300

Seq Number:	3039656	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7638225-1-BLK	LCS Sample Id: 7638225-1-BKS				Date Prep: 01.29.18			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	255	102	256	102	90-110	0	20
								mg/kg	01.29.18 13:21
									Flag

Analytical Method: Chloride by EPA 300

Seq Number:	3039656	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	574474-002	MS Sample Id: 574474-002 S				Date Prep: 01.29.18			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	20.5	246	290	110	295	112	90-110	2	20
								mg/kg	01.29.18 13:42
									Flag

Analytical Method: Chloride by EPA 300

Seq Number:	3039656	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	574550-002	MS Sample Id: 574550-002 S				Date Prep: 01.29.18			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	327	249	562	94	574	99	90-110	2	20
								mg/kg	01.29.18 15:20
									Flag

Analytical Method: TPH By SW8015 Mod

Seq Number:	3039411	Matrix: Solid				Prep Method: TX1005P			
MB Sample Id:	7638142-1-BLK	LCS Sample Id: 7638142-1-BKS				Date Prep: 01.26.18			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	838	84	915	92	70-135	9	35
Diesel Range Organics (DRO)	<15.0	1000	954	95	1030	103	70-135	8	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		111		113		70-135	%	01.27.18 07:49
o-Terphenyl	94		111		103		70-135	%	01.27.18 07:49

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

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

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

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



QC Summary 574550

Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: TPH By SW8015 Mod

Seq Number:	3039411	Matrix: Soil						Prep Method: TX1005P				
Parent Sample Id:	574548-001	MS Sample Id: 574548-001 S						Date Prep: 01.26.18				
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	820	82	821	82	70-135	0	35	mg/kg	01.27.18 08:54	
Diesel Range Organics (DRO)	<15.0	998	866	87	940	94	70-135	8	35	mg/kg	01.27.18 08:54	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag		Limits		Units	Analysis Date	
1-Chlorooctane			93			109		70-135		%	01.27.18 08:54	
o-Terphenyl			82			104		70-135		%	01.27.18 08:54	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3039610	Matrix: Solid						Prep Method: SW5030B				
MB Sample Id:	7638253-1-BLK	LCS Sample Id: 7638253-1-BKS						Date Prep: 01.29.18				
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	0.0897	90	0.0882	89	70-130	2	35	mg/kg	01.29.18 10:11	
Toluene	<0.00200	0.0998	0.0938	94	0.0924	93	70-130	2	35	mg/kg	01.29.18 10:11	
Ethylbenzene	<0.00200	0.0998	0.103	103	0.101	102	71-129	2	35	mg/kg	01.29.18 10:11	
m,p-Xylenes	<0.00399	0.200	0.202	101	0.199	100	70-135	1	35	mg/kg	01.29.18 10:11	
o-Xylene	<0.00200	0.0998	0.0997	100	0.0993	100	71-133	0	35	mg/kg	01.29.18 10:11	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag		Limits		Units	Analysis Date	
1,4-Difluorobenzene	83		93			90		80-120		%	01.29.18 10:11	
4-Bromofluorobenzene	84		102			98		80-120		%	01.29.18 10:11	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3039610	Matrix: Soil						Prep Method: SW5030B				
Parent Sample Id:	574590-001	MS Sample Id: 574590-001 S						Date Prep: 01.29.18				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0764	76	0.0768	77	70-130	1	35	mg/kg	01.29.18 10:50	
Toluene	<0.00202	0.101	0.0797	79	0.0788	79	70-130	1	35	mg/kg	01.29.18 10:50	
Ethylbenzene	<0.00202	0.101	0.0835	83	0.0828	83	71-129	1	35	mg/kg	01.29.18 10:50	
m,p-Xylenes	<0.00403	0.202	0.164	81	0.163	82	70-135	1	35	mg/kg	01.29.18 10:50	
o-Xylene	<0.00202	0.101	0.0814	81	0.0813	81	71-133	0	35	mg/kg	01.29.18 10:50	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag		Limits		Units	Analysis Date	
1,4-Difluorobenzene			89			91		80-120		%	01.29.18 10:50	
4-Bromofluorobenzene			104			100		80-120		%	01.29.18 10:50	

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

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

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

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



CHAIN OF CUSTODY RECORD

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

Page 1 of 1

LAB W.O #:

574550U

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

REMARKS

Sample #	Sample ID	Collect Date	Collect Time	Matrx Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 32260	# Cont	TPH 8015M	BTEX	Chloride	See Remarks	Hold Sample (CALL on Highest TPH)	Run PAH Only	
1	SP-1 @ 1'	1/22/18	0940	S			1	X								Run BTEX if TPH <= 100
2	SP-1 @ 3'	1/23/18	0951	S			1	X								Run BTEX if TPH <= 100
3	SP-2 @ 2'	1/22/18	1025	S			1	X								Run BTEX if TPH <= 100
4	SP-5 @ 3'	1/22/18	1104	S			1	X								Run BTEX if TPH <= 100
5	SP-6 @ 3'	1/23/18	1030	S			1	X								Run BTEX if TPH <= 100
6	SP-7 @ 2'	1/22/18	1125	S			1	X								Run BTEX if TPH <= 100
7																
8																
9																
0																

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers	Temp °C	Lab Use Only	YES	N/A
CTLs TRRP DW NPDPS LPST DryCln Other: LA AL NM Other:	FL TX GA NC SC NJ PA OK	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	10.1°C	3	Non-Conformances found?		

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 <i>[Signature]</i>	Trinity	1-24-18	3:00pm	<i>[Signature]</i>	MS	1-24-18	3:00
2 <i>[Signature]</i>	MS	1-24-18	3:23	<i>[Signature]</i>	Xeno	1-25-18	11:30
3							
4							

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

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 otherwise agreed upon. 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:

COC Serial #

Temp: 1.3 IR ID:R-8

CF:(0.6: -0.2°C)

(6.23: +0.2°C)

Corrected Temp: 1.1

ie amounts



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/24/2018 03:00:00 PM

Work Order #: 574550

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Jessica Kramer
Jessica Kramer

Date: 01/25/2018

Checklist reviewed by:

Holly Taylor
Holly Taylor

Date: 01/25/2018



Certificate of Analysis Summary 575036

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal 4 Battery



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

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

Report Date: 12-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	575036-001	Field Id:	575036-002	Depth:	575036-003	Matrix:	575036-004	Sampled:	575036-005	SP-1 @ 3'	SP-1 @ 5'	SP-1 @ 7'	SP-3 @ 4'	SP-3 @ 8'	SP-3 @ 14'
BTEX by EPA 8021B	Extracted:		Analyzed:		Units/RL:		mg/kg	RL	Extracted:		Feb-05-18 07:45		Feb-05-18 16:27		mg/kg	RL
Benzene						<0.00198	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
Toluene						<0.00198	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
Ethylbenzene						<0.00198	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
m,p-Xylenes						0.00407	0.00397				<0.00396	0.00396		<0.00396	0.00396	<0.00401 0.00401
o-Xylene						0.00366	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
Total Xylenes						0.00773	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
Total BTEX						0.00773	0.00198				<0.00198	0.00198		<0.00198	0.00198	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Feb-05-18 17:00	Analyzed:	Feb-05-18 17:00	Units/RL:	mg/kg	Extracted:	Feb-05-18 17:00	Analyzed:	Feb-05-18 17:00	Units/RL:	mg/kg	Extracted:	Feb-05-18 17:00	Analyzed:	Feb-05-18 17:00
Chloride		714	4.95	298	24.7											
TPH By SW8015 Mod	Extracted:	Feb-02-18 12:00	Analyzed:	Feb-02-18 12:00	Units/RL:	mg/kg	Extracted:	Feb-02-18 12:00	Analyzed:	Feb-02-18 12:00	Units/RL:	mg/kg	Extracted:	Feb-02-18 12:00	Analyzed:	Feb-02-18 12:00
Gasoline Range Hydrocarbons (GRO)		124	15.0	<15.0	15.0											
Diesel Range Organics (DRO)		540	15.0	73.7	15.0											
Oil Range Hydrocarbons (ORO)		340	15.0	27.8	15.0											
Total TPH		1000	15.0	102	15.0											

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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 575036

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal 4 Battery



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

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

Report Date: 12-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id: 575036-007	Field Id: SP-4 @ 4'	Depth: SP-4 @ 12'	Matrix: SOIL	Sampled: Jan-29-18 12:45	Lab Id: 575036-008	Field Id: SP-4 @ 14'	Depth: SOIL	Matrix: SOIL	Sampled: Jan-29-18 13:10	Lab Id: 575036-009	Field Id: SP-5 @ 4'	Depth: SOIL	Matrix: SOIL	Sampled: Jan-29-18 13:26	Lab Id: 575036-010	Field Id: SP-5 @ 10'	Depth: SOIL	Matrix: SOIL	Sampled: Jan-29-18 11:20	Lab Id: 575036-011	Field Id: SP-5 @ 14'	Depth: SOIL	Matrix: SOIL	Sampled: Jan-29-18 11:40	Lab Id: 575036-012			
BTEX by EPA 8021B	Extracted:		Feb-05-18 07:45		Feb-05-18 07:45						Feb-05-18 07:45					Feb-05-18 07:45					Feb-05-18 07:45								
	Analyzed:		Feb-05-18 17:24		Feb-05-18 17:44						mg/kg	RL	mg/kg	RL		mg/kg	RL	mg/kg	RL		mg/kg	RL	mg/kg	RL		mg/kg	RL		
Benzene			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
Toluene			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
Ethylbenzene			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
m,p-Xylenes			<0.00403	0.00403	<0.00398	0.00398										<0.00401	0.00401	<0.00399	0.00399		<0.00401	0.00401	<0.00399	0.00399		<0.00401	0.00401		
o-Xylene			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
Total Xylenes			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
Total BTEX			<0.00202	0.00202	<0.00199	0.00199										<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200	<0.00200	0.00200		<0.00200	0.00200		
Chloride by EPA 300	Extracted:	Feb-05-18 17:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00		Feb-06-18 09:00			
	Analyzed:	Feb-06-18 02:58		Feb-06-18 10:32		Feb-06-18 10:53		Feb-06-18 10:53		Feb-06-18 10:59		Feb-06-18 11:06		Feb-06-18 11:13		mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1200	4.96	269	4.94	624	4.98	6170	49.9	6170	49.9	630	5.00	874	4.90														
TPH By SW8015 Mod	Extracted:	Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00		Feb-02-18 12:00			
	Analyzed:	Feb-02-18 19:09		Feb-02-18 19:30		Feb-02-18 19:51		Feb-02-18 20:13		Feb-02-18 21:17		Feb-02-18 21:17		Feb-02-18 21:17		mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		125	15.0	56.0	15.0	71.3	15.0	109	15.0	<15.0	15.0	<15.0	15.0	47.5	15.0														
Oil Range Hydrocarbons (ORO)		33.1	15.0	24.6	15.0	22.1	15.0	18.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0		
Total TPH		158	15.0	80.6	15.0	93.4	15.0	128	15.0	<15.0	15.0	<15.0	15.0	47.5	15.0														

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Holly Taylor
Project Manager



Certificate of Analysis Summary 575036

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL Federal 4 Battery



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs, NM

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

Report Date: 12-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	575036-013	Field Id:	575036-014	Depth:	SP-6 @ 3'	Matrix:	SOIL	Sampled:	Jan-29-18 10:36	Extracted:	Feb-05-18 07:45	Analyzed:	Feb-05-18 14:50	Units/RL:	mg/kg RL	Extracted:	Feb-05-18 14:50	Analyzed:	Feb-05-18 22:06	Units/RL:	mg/kg RL	Extracted:	Feb-05-18 14:50	Analyzed:	Feb-05-18 22:26	Units/RL:	mg/kg RL	Extracted:	Feb-05-18 14:50	Analyzed:	Feb-05-18 22:45	Units/RL:	mg/kg RL
Benzene		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200							
Toluene		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200							
Ethylbenzene		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200							
m,p-Xylenes		<0.00398	0.00398		<0.00399	0.00399		<0.00401	0.00401		<0.00401	0.00401		<0.00403	0.00403		<0.00403	0.00403		<0.00403	0.00403		<0.00403	0.00403		<0.00403	0.00403							
o-Xylene		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202							
Total Xylenes		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202							
Total BTEX		<0.00199	0.00199		<0.00200	0.00200		<0.00200	0.00200		<0.00200	0.00200		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202		<0.00202	0.00202							
Chloride by EPA 300	Extracted:	Feb-06-18 09:00		Feb-06-18 09:00			Feb-06-18 09:00			Feb-06-18 09:00			Feb-06-18 09:00			Feb-06-18 09:00			Feb-06-18 11:48			Feb-06-18 11:55			Feb-06-18 12:00									
	Analyzed:	Feb-06-18 11:34		Feb-06-18 11:41			Feb-06-18 11:48			Feb-06-18 11:48			Feb-06-18 11:55			Feb-06-18 11:55			Feb-06-18 23:05			Feb-06-18 23:05			Feb-06-18 23:05									
Chloride		2990	25.0	6080	50.0		2990	25.0		2990	25.0		1500	25.0																				
TPH By SW8015 Mod	Extracted:	Feb-02-18 12:00		Feb-02-18 12:00			Feb-02-18 12:00			Feb-02-18 12:00			Feb-02-18 12:00			Feb-02-18 12:00			Feb-02-18 22:43			Feb-02-18 23:05			Feb-02-18 23:05									
	Analyzed:	Feb-02-18 21:59		Feb-02-18 22:20			Feb-02-18 22:43			Feb-02-18 22:43			Feb-02-18 23:05			Feb-02-18 23:05			Feb-02-18 23:05			Feb-02-18 23:05			Feb-02-18 23:05									
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9		<15.0	15.0		<15.0	15.0		<14.9	14.9		<14.9	14.9																	
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9		<15.0	15.0		<15.0	15.0		<14.9	14.9		<14.9	14.9																	
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<14.9	14.9		<15.0	15.0		<15.0	15.0		<14.9	14.9		<14.9	14.9																	
Total TPH		<15.0	15.0	<14.9	14.9		<15.0	15.0		<15.0	15.0		<14.9	14.9		<14.9	14.9																	

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Holly Taylor
Project Manager

Analytical Report 575036
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
NEL Federal 4 Battery

12-FEB-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

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

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

12-FEB-18

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

Reference: XENCO Report No(s): **575036**

NEL Federal 4 Battery

Project Address: Hobbs, NM

Ben Arguijo:

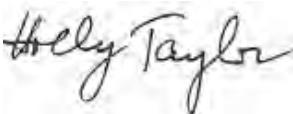
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 575036. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory 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. 575036 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



Holly Taylor

Project Manager

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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 3'	S	01-29-18 10:04		575036-001
SP-1 @ 5'	S	01-29-18 10:09		575036-002
SP-1 @ 7'	S	01-29-18 10:30		575036-003
SP-3 @ 4'	S	01-29-18 13:30		575036-004
SP-3 @ 8'	S	01-29-18 13:38		575036-005
SP-3 @ 14'	S	01-29-18 13:50		575036-006
SP-4 @ 4'	S	01-29-18 12:45		575036-007
SP-4 @ 12'	S	01-29-18 13:10		575036-008
SP-4 @ 14'	S	01-29-18 13:26		575036-009
SP-5 @ 4'	S	01-29-18 11:20		575036-010
SP-5 @ 10'	S	01-29-18 11:40		575036-011
SP-5 @ 14'	S	01-29-18 11:50		575036-012
SP-6 @ 3'	S	01-29-18 10:36		575036-013
SP-6 @ 7'	S	01-29-18 10:50		575036-014
SP-6 @ 10'	S	01-29-18 11:05		575036-015
SP-6 @ 14'	S	01-29-18 11:09		575036-016



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: NEL Federal 4 Battery

Project ID:

Work Order Number(s): 575036

Report Date: 12-FEB-18

Date Received: 01/30/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3040125 BTEX by EPA 8021B

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

Batch: LBA-3040267 BTEX by EPA 8021B

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



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 3'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-001

Date Collected: 01.29.18 10.04

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	714	4.95	mg/kg	02.06.18 02.02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	124	15.0	mg/kg	02.02.18 16.24		1
Diesel Range Organics (DRO)	C10C28DRO	540	15.0	mg/kg	02.02.18 16.24		1
Oil Range Hydrocarbons (ORO)	PHCG2835	340	15.0	mg/kg	02.02.18 16.24		1
Total TPH	PHC635	1000	15.0	mg/kg	02.02.18 16.24		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	02.02.18 16.24		
o-Terphenyl	84-15-1	92	%	70-135	02.02.18 16.24		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 5'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-002

Date Collected: 01.29.18 10.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	298	24.7	mg/kg	02.06.18 02.23		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 16.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	73.7	15.0	mg/kg	02.02.18 16.45		1
Oil Range Hydrocarbons (ORO)	PHCG2835	27.8	15.0	mg/kg	02.02.18 16.45		1
Total TPH	PHC635	102	15.0	mg/kg	02.02.18 16.45		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	02.02.18 16.45		
o-Terphenyl	84-15-1	97	%	70-135	02.02.18 16.45		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 7'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-003

Date Collected: 01.29.18 10.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	336	24.8	mg/kg	02.06.18 02.30		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 17.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	65.2	15.0	mg/kg	02.02.18 17.45		1
Oil Range Hydrocarbons (ORO)	PHCG2835	23.8	15.0	mg/kg	02.02.18 17.45		1
Total TPH	PHC635	89.0	15.0	mg/kg	02.02.18 17.45		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	02.02.18 17.45		
o-Terphenyl	84-15-1	93	%	70-135	02.02.18 17.45		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-1 @ 7'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-003

Date Collected: 01.29.18 10.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.05.18 16.27	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.05.18 16.27	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.05.18 16.27	U	1
m,p-Xylenes	179601-23-1	0.00407	0.00397	mg/kg	02.05.18 16.27		1
o-Xylene	95-47-6	0.00366	0.00198	mg/kg	02.05.18 16.27		1
Total Xylenes	1330-20-7	0.00773	0.00198	mg/kg	02.05.18 16.27		1
Total BTEX		0.00773	0.00198	mg/kg	02.05.18 16.27		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	80-120	02.05.18 16.27		
1,4-Difluorobenzene	540-36-3	88	%	80-120	02.05.18 16.27		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-3 @ 4'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-004

Date Collected: 01.29.18 13.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	460	4.99	mg/kg	02.06.18 02.37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	53.1	15.0	mg/kg	02.02.18 18.06		1
Diesel Range Organics (DRO)	C10C28DRO	83.3	15.0	mg/kg	02.02.18 18.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	126	15.0	mg/kg	02.02.18 18.06		1
Total TPH	PHC635	262	15.0	mg/kg	02.02.18 18.06		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-135	02.02.18 18.06		
o-Terphenyl	84-15-1	95	%	70-135	02.02.18 18.06		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-3 @ 8'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-005

Date Collected: 01.29.18 13.38

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1530	24.8	mg/kg	02.06.18 02.44		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 18.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.02.18 18.27	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.02.18 18.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.02.18 18.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	104	%	70-135	02.02.18 18.27	
o-Terphenyl		84-15-1	108	%	70-135	02.02.18 18.27	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-3 @ 8'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-005

Date Collected: 01.29.18 13.38

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.05.18 16.46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.05.18 16.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	80-120	02.05.18 16.46		
1,4-Difluorobenzene	540-36-3	92	%	80-120	02.05.18 16.46		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-3 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-006

Date Collected: 01.29.18 13.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	391	5.00	mg/kg	02.06.18 02.51		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 18.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.0	15.0	mg/kg	02.02.18 18.47		1
Oil Range Hydrocarbons (ORO)	PHCG2835	18.0	15.0	mg/kg	02.02.18 18.47		1
Total TPH	PHC635	35.0	15.0	mg/kg	02.02.18 18.47		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	02.02.18 18.47		
o-Terphenyl	84-15-1	93	%	70-135	02.02.18 18.47		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-3 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-006

Date Collected: 01.29.18 13.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.05.18 17.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 17.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	80-120	02.05.18 17.05		
4-Bromofluorobenzene	460-00-4	100	%	80-120	02.05.18 17.05		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-4 @ 4'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-007

Date Collected: 01.29.18 12.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.05.18 17.00

Basis: Wet Weight

Seq Number: 3040264

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1200	4.96	mg/kg	02.06.18 02.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 19.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	125	15.0	mg/kg	02.02.18 19.09		1
Oil Range Hydrocarbons (ORO)	PHCG2835	33.1	15.0	mg/kg	02.02.18 19.09		1
Total TPH	PHC635	158	15.0	mg/kg	02.02.18 19.09		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	02.02.18 19.09		
o-Terphenyl	84-15-1	90	%	70-135	02.02.18 19.09		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-4 @ 12'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-008

Date Collected: 01.29.18 13.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	269	4.94	mg/kg	02.06.18 10.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 19.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.0	15.0	mg/kg	02.02.18 19.30		1
Oil Range Hydrocarbons (ORO)	PHCG2835	24.6	15.0	mg/kg	02.02.18 19.30		1
Total TPH	PHC635	80.6	15.0	mg/kg	02.02.18 19.30		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	02.02.18 19.30		
o-Terphenyl	84-15-1	89	%	70-135	02.02.18 19.30		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-4 @ 12'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-008

Date Collected: 01.29.18 13.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.05.18 17.24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.05.18 17.24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	80-120	02.05.18 17.24		
1,4-Difluorobenzene	540-36-3	90	%	80-120	02.05.18 17.24		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-4 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-009

Date Collected: 01.29.18 13.26

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	624	4.98	mg/kg	02.06.18 10.53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 19.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	71.3	15.0	mg/kg	02.02.18 19.51		1
Oil Range Hydrocarbons (ORO)	PHCG2835	22.1	15.0	mg/kg	02.02.18 19.51		1
Total TPH	PHC635	93.4	15.0	mg/kg	02.02.18 19.51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	02.02.18 19.51		
o-Terphenyl	84-15-1	93	%	70-135	02.02.18 19.51		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-4 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-009

Date Collected: 01.29.18 13.26

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.05.18 17.44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.05.18 17.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	80-120	02.05.18 17.44		
1,4-Difluorobenzene	540-36-3	90	%	80-120	02.05.18 17.44		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

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

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-010

Date Collected: 01.29.18 11.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6170	49.9	mg/kg	02.06.18 10.59		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 20.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	109	15.0	mg/kg	02.02.18 20.13		1
Oil Range Hydrocarbons (ORO)	PHCG2835	18.6	15.0	mg/kg	02.02.18 20.13		1
Total TPH	PHC635	128	15.0	mg/kg	02.02.18 20.13		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	02.02.18 20.13		
o-Terphenyl	84-15-1	94	%	70-135	02.02.18 20.13		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-5 @ 10'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-011

Date Collected: 01.29.18 11.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	630	5.00	mg/kg	02.06.18 11.06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 21.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.02.18 21.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.02.18 21.17	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.02.18 21.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	99	%	70-135	02.02.18 21.17	
o-Terphenyl		84-15-1	100	%	70-135	02.02.18 21.17	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-5 @ 10'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-011

Date Collected: 01.29.18 11.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.05.18 18.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 18.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	82	%	80-120	02.05.18 18.40		
4-Bromofluorobenzene	460-00-4	95	%	80-120	02.05.18 18.40		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-5 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-012

Date Collected: 01.29.18 11.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	874	4.90	mg/kg	02.06.18 11.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 21.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	47.5	15.0	mg/kg	02.02.18 21.37		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.02.18 21.37	U	1
Total TPH	PHC635	47.5	15.0	mg/kg	02.02.18 21.37		1
Surrogate			% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	94	%	70-135	02.02.18 21.37	
o-Terphenyl		84-15-1	94	%	70-135	02.02.18 21.37	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-5 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-012

Date Collected: 01.29.18 11.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.05.18 18.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 18.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	82	%	80-120	02.05.18 18.59		
4-Bromofluorobenzene	460-00-4	91	%	80-120	02.05.18 18.59		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 3'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-013

Date Collected: 01.29.18 10.36

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2990	25.0	mg/kg	02.06.18 11.34		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 21.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.02.18 21.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.02.18 21.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.02.18 21.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	83	%	70-135	02.02.18 21.59	
o-Terphenyl		84-15-1	86	%	70-135	02.02.18 21.59	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 3'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-013

Date Collected: 01.29.18 10.36

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 07.45

Basis: Wet Weight

Seq Number: 3040125

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.05.18 19.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.05.18 19.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	80-120	02.05.18 19.17		
1,4-Difluorobenzene	540-36-3	87	%	80-120	02.05.18 19.17		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 7'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-014

Date Collected: 01.29.18 10.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6080	50.0	mg/kg	02.06.18 11.41		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	02.02.18 22.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	02.02.18 22.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	02.02.18 22.20	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	02.02.18 22.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	92	%	70-135	02.02.18 22.20	
o-Terphenyl		84-15-1	95	%	70-135	02.02.18 22.20	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 7'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-014

Date Collected: 01.29.18 10.50

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.05.18 22.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 22.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	83	%	80-120	02.05.18 22.06		
4-Bromofluorobenzene	460-00-4	100	%	80-120	02.05.18 22.06		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 10'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-015

Date Collected: 01.29.18 11.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2990	25.0	mg/kg	02.06.18 11.48		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	02.02.18 22.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	02.02.18 22.43	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	02.02.18 22.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	02.02.18 22.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	81	%	70-135	02.02.18 22.43	
o-Terphenyl		84-15-1	83	%	70-135	02.02.18 22.43	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 10'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-015

Date Collected: 01.29.18 11.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.05.18 22.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.18 22.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	80-120	02.05.18 22.26		
1,4-Difluorobenzene	540-36-3	88	%	80-120	02.05.18 22.26		



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: **SP-6 @ 14'**

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-016

Date Collected: 01.29.18 11.09

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 02.06.18 09.00

Basis: Wet Weight

Seq Number: 3040283

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1500	25.0	mg/kg	02.06.18 11.55		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 02.02.18 12.00

Basis: Wet Weight

Seq Number: 3040138

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	02.02.18 23.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	02.02.18 23.05	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	02.02.18 23.05	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	02.02.18 23.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane		111-85-3	95	%	70-135	02.02.18 23.05	
o-Terphenyl		84-15-1	96	%	70-135	02.02.18 23.05	



Certificate of Analytical Results 575036



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL Federal 4 Battery

Sample Id: SP-6 @ 14'

Matrix: Soil

Date Received: 01.30.18 14.40

Lab Sample Id: 575036-016

Date Collected: 01.29.18 11.09

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 02.05.18 14.50

Basis: Wet Weight

Seq Number: 3040267

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.05.18 22.45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.05.18 22.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	80-120	02.05.18 22.45		
1,4-Difluorobenzene	540-36-3	87	%	80-120	02.05.18 22.45		



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: Chloride by EPA 300

Seq Number:	3040264		Matrix:	Solid				Prep Method:	E300P
MB Sample Id:	7638616-1-BLK		LCS Sample Id:	7638616-1-BKS				Date Prep:	02.05.18
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	248	99	247	99	90-110	0	20
							Units	Analysis Date	Flag
							mg/kg	02.05.18 23:43	

Analytical Method: Chloride by EPA 300

Seq Number:	3040283		Matrix:	Solid				Prep Method:	E300P
MB Sample Id:	7638673-1-BLK		LCS Sample Id:	7638673-1-BKS				Date Prep:	02.06.18
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	260	104	258	103	90-110	1	20
							Units	Analysis Date	Flag
							mg/kg	02.06.18 10:18	

Analytical Method: Chloride by EPA 300

Seq Number:	3040264		Matrix:	Soil				Prep Method:	E300P
Parent Sample Id:	575033-004		MS Sample Id:	575033-004 S				Date Prep:	02.05.18
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	300	250	535	94	538	95	90-110	1	20
							Units	Analysis Date	Flag
							mg/kg	02.06.18 01:41	

Analytical Method: Chloride by EPA 300

Seq Number:	3040264		Matrix:	Soil				Prep Method:	E300P
Parent Sample Id:	575316-013		MS Sample Id:	575316-013 S				Date Prep:	02.05.18
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	5.04	250	260	102	260	102	90-110	0	20
							Units	Analysis Date	Flag
							mg/kg	02.06.18 00:04	

Analytical Method: Chloride by EPA 300

Seq Number:	3040283		Matrix:	Soil				Prep Method:	E300P
Parent Sample Id:	575036-008		MS Sample Id:	575036-008 S				Date Prep:	02.06.18
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	269	247	506	96	505	96	90-110	0	20
							Units	Analysis Date	Flag
							mg/kg	02.06.18 10:39	

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

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

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

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



QC Summary 575036

Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: Chloride by EPA 300

Seq Number:	3040283	Matrix: Soil						Prep Method:	E300P	
Parent Sample Id:	575128-002	MS Sample Id: 575128-002 S						Date Prep:	02.06.18	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units
Chloride	255	245	479	91	482	93	90-110	1	20	mg/kg
										Analysis Date
										Flag

Analytical Method: TPH By SW8015 Mod

Seq Number:	3040138	Matrix: Solid						Prep Method:	TX1005P	
MB Sample Id:	7638544-1-BLK	LCS Sample Id: 7638544-1-BKS						Date Prep:	02.02.18	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	933	93	861	86	70-135	8	35	mg/kg
Diesel Range Organics (DRO)	<15.0	1000	1050	105	860	86	70-135	20	35	mg/kg
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units	Analysis Date
1-Chlorooctane	94		116		99		70-135		%	02.02.18 15:43
o-Terphenyl	98		117		105		70-135		%	02.02.18 15:43

Analytical Method: TPH By SW8015 Mod

Seq Number:	3040138	Matrix: Soil						Date Prep:	02.02.18	
Parent Sample Id:	575036-002	MS Sample Id: 575036-002 S						MSD Sample Id:	575036-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units
Gasoline Range Hydrocarbons (GRO)	<15.0	999	840	84	879	88	70-135	5	35	mg/kg
Diesel Range Organics (DRO)	73.7	999	932	86	965	89	70-135	3	35	mg/kg
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date
1-Chlorooctane			98		101		70-135		%	02.02.18 17:05
o-Terphenyl			91		111		70-135		%	02.02.18 17:05

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

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

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

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



QC Summary 575036

Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: BTEX by EPA 8021B

Seq Number:	3040125	Matrix: Solid						Prep Method:	SW5030B	
MB Sample Id:	7638578-1-BLK	LCS Sample Id: 7638578-1-BKS						Date Prep:	02.05.18	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units
Benzene	<0.00202	0.101	0.0954	94	0.0917	91	70-130	4	35	mg/kg
Toluene	<0.00202	0.101	0.101	100	0.0973	96	70-130	4	35	mg/kg
Ethylbenzene	<0.00202	0.101	0.115	114	0.111	110	71-129	4	35	mg/kg
m,p-Xylenes	<0.00404	0.202	0.227	112	0.218	108	70-135	4	35	mg/kg
o-Xylene	<0.00202	0.101	0.112	111	0.108	107	71-133	4	35	mg/kg
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units	Analysis Date
1,4-Difluorobenzene	88		94			91	80-120	%		02.05.18 08:04
4-Bromofluorobenzene	88		110			100	80-120	%		02.05.18 08:04

Analytical Method: BTEX by EPA 8021B

Seq Number:	3040267	Matrix: Solid						Prep Method:	SW5030B	
MB Sample Id:	7638660-1-BLK	LCS Sample Id: 7638660-1-BKS						Date Prep:	02.05.18	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units
Benzene	<0.00200	0.0998	0.0918	92	0.104	103	70-130	12	35	mg/kg
Toluene	<0.00200	0.0998	0.0923	92	0.102	101	70-130	10	35	mg/kg
Ethylbenzene	<0.00200	0.0998	0.103	103	0.108	107	71-129	5	35	mg/kg
m,p-Xylenes	<0.00399	0.200	0.202	101	0.213	106	70-135	5	35	mg/kg
o-Xylene	<0.00200	0.0998	0.101	101	0.107	106	71-133	6	35	mg/kg
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units	Analysis Date
1,4-Difluorobenzene	91		93			94	80-120	%		02.05.18 19:53
4-Bromofluorobenzene	92		97			108	80-120	%		02.05.18 19:53

Analytical Method: BTEX by EPA 8021B

Seq Number:	3040125	Matrix: Soil						Date Prep:	02.05.18	
Parent Sample Id:	575365-001	MS Sample Id: 575365-001 S						MSD Sample Id:	575365-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units
Benzene	<0.00205	0.102	0.0854	84	0.0925	90	70-130	8	35	mg/kg
Toluene	<0.00205	0.102	0.0855	84	0.0937	91	70-130	9	35	mg/kg
Ethylbenzene	<0.00205	0.102	0.0905	89	0.0993	96	71-129	9	35	mg/kg
m,p-Xylenes	<0.00409	0.205	0.176	86	0.194	95	70-135	10	35	mg/kg
o-Xylene	<0.00205	0.102	0.0901	88	0.0965	94	71-133	7	35	mg/kg
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date
1,4-Difluorobenzene			90			91	80-120	%		02.05.18 08:41
4-Bromofluorobenzene			112			113	80-120	%		02.05.18 08:41

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

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

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

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



QC Summary 575036

Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040267

Parent Sample Id: 575036-014

Matrix: Soil

Prep Method: SW5030B

Date Prep: 02.05.18

MSD Sample Id: 575036-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0758	76	0.0803	80	70-130	6	35	mg/kg	02.05.18 20:31	
Toluene	<0.00199	0.0994	0.0781	79	0.0852	85	70-130	9	35	mg/kg	02.05.18 20:31	
Ethylbenzene	<0.00199	0.0994	0.0875	88	0.0939	94	71-129	7	35	mg/kg	02.05.18 20:31	
m,p-Xylenes	<0.00398	0.199	0.172	86	0.182	91	70-135	6	35	mg/kg	02.05.18 20:31	
o-Xylene	<0.00199	0.0994	0.0870	88	0.0901	90	71-133	4	35	mg/kg	02.05.18 20:31	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			96		89		80-120			%	02.05.18 20:31	
4-Bromofluorobenzene			107		103		80-120			%	02.05.18 20:31	

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

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

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

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



CHAIN OF CUSTODY RECORD

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

Page 1 of 2

LAB W.O #:

575036

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

REMARKS

- Run BTEX if TPH <= 100

Company: Trinity Oilfield Services & Rentals, LLC Phone: (575)390-7208

Address: P.O. Box 2587 Fax:

City: Hobbs State: NM Zip: 88241

TAT Work Days = D Need results by: _____ Time: _____

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

PM/Attn: Ben J. Argujo Email: wade.ditrich@oxy.com & ben@trinityoilfieldservices.com

Project ID: NEL Federal 4 Battery PO#:

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

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	# Cont
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1	SP-1 @ 3'	1/29/18	1004	S			1	X
2	SP-1 @ 5'	1/29/18	1009	S			1	X
3	SP-1 @ 7'	1/29/18	1030	S			1	X
4	SP-3 @ 4'	1/29/18	1330	S			1	X
5	SP-3 @ 8'	1/29/18	1338	S			1	X
6	SP-3 @ 14'	1/29/18	1350	S			1	X
7	SP-4 @ 4'	1/29/18	1245	S			1	X
8	SP-4 @ 12'	1/29/18	1310	S			1	X
9	SP-4 @ 14'	1/29/18	1326	S			1	X
0	SP-5 @ 4'	1/29/18	1120	S			1	X

Reg. Program / Clean-up Std	STATE for Certs & Regs					QA/QC Level & Certification				EDDs			COCs & Labels		Coolers Temp °C			Lab Use Only	YES NO N/A
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CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK LA AL NM Other: DoD-ELAP Other: XLS Other:

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1 <i>mtl</i>	<i>Trinity</i>	1-30-18	2:40pm	<i>Esperanza Gonzalez</i>	<i>Mail Services</i>	1-30-18	2:40
2 <i>Esperanza Gonzalez</i>	<i>Mail Services</i>	1-30-18	3:37	<i>Maureen Kenco</i>	<i>Xenco</i>	01-31-18	11:30
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-43

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 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. Revi

Temp: 0.6
CF:(0-6: -0.2°C)

IR ID:R-8

(6-23: +0.2°C)

Corrected Temp: 0.4

due amounts



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
Environmental Analysis Radiochemistry

Page 2 of 2

LAB W.O #:

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

REMARKS

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. Argujo Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com

Project ID: NEL Federal 4 Battery PO#:

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

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers
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Cont Lab Only:

1	SP-5 @ 10'	1/29/18	1140	S			1	X	See Remarks
2	SP-5 @ 14'	1/29/18	1150	S			1	X	
3	SP-6 @ 3'	1/29/18	1036	S			1	X	
4	SP-6 @ 7'	1/29/18	1050	S			1	X	
5	SP-6 @ 10'	1/29/18	1105	S			1	X	
6	SP-6 @ 14'	1/29/18	1109	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	YES NO N/A
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CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK LA AL NM Other: AdapT SEDD ERPIMS Match Incomplete
DoD-ELAP Other: XLS Other: Absent Unclear

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
-----------------	-------------	------	------	-------------	-------------	------	------

1		Trinity	1-30-18	2:40pm	Espereanza Gonzalez	Mail Services	1-30-18	2:40
2		Mail Services	1-30-18	3:37	Naunehith	Xenco	01-31-18	11:30
3								
4								

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0

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

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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

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

amounts



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

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

Work Order #: 575036

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-1.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 02/02/2018

Checklist reviewed by:

Holly Taylor

Date: 02/02/2018