

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: NELL SWD #004

(32.3218727, -104.08604435)

Date of Spill: 8/29/2017Site Soil Type: Uo — Upton gravelly loamEstimated Daily Production Loss: 1 BBL Oil 263 BBL Water**Total Area Calculations**

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	78.0 ft	X	83.0 ft	X	7.7 in	0.4%
Rectangle Area #2	ft	X	ft	X	in	0%
Rectangle Area #3	ft	X	ft	X	in	0%
Rectangle Area #4	ft	X	ft	X	in	0%
Rectangle Area #5	ft	X	ft	X	in	0%
Rectangle Area #6	ft	X	ft	X	in	0%
Rectangle Area #7	ft	X	ft	X	in	0%
Rectangle Area #8	ft	X	ft	X	in	0%

Porosity 0.250 gal per gal**Saturated Soil Volume Calculations:**

		<u>H2O</u>	<u>OIL</u>
Area #1	6,474 sq. ft.	4,132 cu. ft.	17 cu. ft.
Area #2	sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.

Total Solid/Liquid Volume: **6,474 sq. ft.** **4,132 cu. ft.** **17 cu. ft.****Estimated Volumes Spilled**

	<u>H2O</u>	<u>OIL</u>
Liquid in Soil:	184.0 BBL	0.7 BBL
Liquid Recovered :	80.0 BBL	0.0 BBL
Spill Liquid	264.0 BBL	0.7 BBL
Total Spill Liquid:	<u>264.7</u>	

Recovered VolumesEstimated oil recovered: **0.0 BBL**
Estimated water recovered: **80.0 BBL**

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

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

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?	☒ Yes ☐ No ☐ 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?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

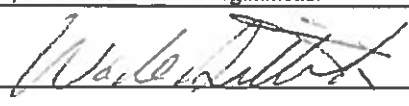
Spill caused by failure of a pop-off valve on a relief line. The pop-off valve has been repaired.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:		
Printed Name: Wade Dittrich	Approval Date:	Expiration Date:	
Title: Environmental Coordinator	Conditions of Approval:		
E-mail Address: wade_dittrich@oxy.com			Attached ☐
Date: 4/20/2018	Phone: (575) 390-2828		

* Attach Additional Sheets If Necessary

Incident ID	NAB1805034361
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	30 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☒ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

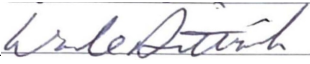
Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NAB1805034361
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 04/15/2024email: Wade_Dittrich@oxy.comTelephone: 575-390-2828**OCD Only**

Received by: _____

Date: _____

Incident ID	NAB1805034361
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 04/15/2024email: Wade_Dittrich@oxy.comTelephone: 575-390-2828**OCD Only**

Received by: _____ Date: _____

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

Signature: _____

Date: _____

**URGENT: NEL 4 SWD Battery (2RP-4623) - Backfill Request**

5 messages

Ben J. Arguijo <ben@trinityoilfieldservices.com>

Wed, Aug 15, 2018 at 12:50 PM

To: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Tucker, Shelly" <stucker@blm.gov>

Cc: Todd Roberson <todd@trinityoilfieldservices.com>, Wade Dittrich <wade_dittrich@oxy.com>, Duskie Bennett <duskie@trinityoilfieldservices.com>

Mike/Shelly,

Pursuant to the "Environmental Site Summary & Spill Remediation Proposal" (henceforth, "Work Plan") for the NEL 4 SWD Battery release (2RP-4623), dated 4/18/18, the storage tanks and containment area of the SWD facility were dismantled, and a temporary facility was constructed adjacent to the original location. The footprint of the original containment area has been excavated horizontally to the extent practicable. Horizontal delineation to the west, northwest, and southwest has been achieved. Laboratory analytical results and field screens from these areas indicate that the release did not impact the adjacent pastureland. Delineation to the north and northeast was also achieved. However, based on laboratory analytical results, field screens, and a review of historical aerial imagery, it is suspected that the release commingled with previous, unrelated releases and possibly a historic pit (see the attached "Sample Location Map" and data tables). Additional delineation/excavation to the east, and south was precluded by the presence of active pipes, pumps, appurtenances, electrical lines, etc.

Per a telephone conversation I had with Mr. Bratcher on 7/23/18, the excavation was advanced vertically to the hard rock layer running underneath the site, which was typically encountered approximately 2 feet below ground surface (bgs). Additional vertical excavation was deemed impracticable without specialized equipment.

Trinity Oilfield Services, on behalf of OXY USA, Inc. (OXY), hereby requests permission to install a 20-mil liner on the floor of the excavation at approximately 2 feet bgs, as depicted in the attached "Sample Location Map", and backfill the excavation with non-impacted material. Following liner installation and backfilling, the SWD will be reconstructed in its original location, and a new, steel-walled, Falcon-lined containment area will be constructed around the facility.

Once the SWD has been reconstructed, the excavation will be advanced to the area represented by soil sample Wall 8b. An additional section of 20-mil liner will be installed at approximately 2 feet bgs in the newly excavated area, and it will be chemically welded to the existing liner to form a continuous surface.

Additional delineation and/or excavation in the areas represented by soil samples Wall 4a, 5a, 6a, and 7a is dependent upon the configuration and location of the rebuilt SWD facility, pipes, appurtenances, etc., and will be addressed at a later date.

No additional excavation will be conducted in the area represented by soil sample Wall 9b.

Photographs of the excavation are attached, along with an updated soil chemistry data table, a field screen data table, and a "Sample Location Map", as mentioned above.

OXY wishes to expedite reconstruction/rebuilding of the SWD and containment area, so your prompt attention to this matter would be greatly appreciated.

If you have any questions, please do not hesitate to contact me.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Environmental Project Manager
Trinity Oilfield Services
P.O. Box 2587
Hobbs, NM 88241
(575)390-7208
ben@trinityoilfieldservices.com

4 attachments**NEL4SWD_SitePhotos.pdf**

1349K

Released to Imaging: 4/18/2024 7:55:32 AM

NEL4SWD_SoilChemistryTable.pdf

 NEL4SWD_FieldScreens.pdf
27K

 NEL4SWD_SampleLocationMap.pdf
1446K

Ben J. Arguijo <ben@trinityoilfieldservices.com>

Tue, Aug 21, 2018 at 2:35 PM

To: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Tucker, Shelly" <stucker@blm.gov>

Cc: Todd Roberson <todd@trinityoilfieldservices.com>, Wade Dittrich <wade_dittrich@oxy.com>, Duskie Bennett <duskie@trinityoilfieldservices.com>

Mike/Shelly,

Attached please find a corrected version of the soil chemistry data table (Table 1) for this site. Page 1 of the table that I initially included with the backfill request did not reflect that all 6" and 1' samples have been excavated.

I apologize for any confusion.

Thanks.

Ben

Ben J. Arguijo
Environmental Project Manager
Trinity Oilfield Services
P.O. Box 2587
Hobbs, NM 88241
(575)390-7208
ben@trinityoilfieldservices.com

[Quoted text hidden]

 NEL4SWD_SoilChemistryTable.pdf
78K

Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Tue, Aug 21, 2018 at 3:16 PM

To: "Ben J. Arguijo" <ben@trinityoilfieldservices.com>, "Tucker, Shelly" <stucker@blm.gov>

Cc: Todd Roberson <todd@trinityoilfieldservices.com>, Wade Dittrich <wade_dittrich@oxy.com>, Duskie Bennett <duskie@trinityoilfieldservices.com>, "Pruett, Maria, EMNRD" <Maria.Pruett@state.nm.us>

RE: OXY USA * 2RP-4623

Ben,

Thanks for the updated table. Your request to install the liner and backfill at the above referenced site is approved. Federal sites will require like approval from BLM.

Thank you,

Mike Bratcher

NMOCD District 2

811 South First Street

Artesia, NM 88210

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

[Quoted text hidden]

Ben J. Arguijo <ben@trinityoilfieldservices.com>
To: Wade Dittrich <wade_dittrich@oxy.com>

Wed, Feb 20, 2019 at 4:40 PM

----- Forwarded message -----

From: **Ben J. Arguijo** <ben@trinityoilfieldservices.com>

[Quoted text hidden]

[Quoted text hidden]

4 attachments

 **NEL4SWD_SitePhotos.pdf**
1349K

 **NEL4SWD_SoilChemistryTable.pdf**
77K

 **NEL4SWD_FieldScreens.pdf**
27K

 **NEL4SWD_SampleLocationMap.pdf**
1446K

Ben Arguijo <ben@trinityoilfieldservices.com>
To: josh@trinityoilfieldservices.com

Tue, Feb 26, 2019 at 10:19 AM

Begin forwarded message:

From: "Ben J. Arguijo" <ben@trinityoilfieldservices.com>

Date: August 15, 2018 at 12:50:16 PM MDT

To: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Tucker, Shelly" <stucker@blm.gov>

Cc: Todd Roberson <todd@trinityoilfieldservices.com>, Wade Dittrich <wade_dittrich@oxy.com>, Duskie Bennett <duskie@trinityoilfieldservices.com>

Subject: URGENT: NEL 4 SWD Battery (2RP-4623) - Backfill Request

[Quoted text hidden]

4 attachments

 **NEL4SWD_SitePhotos.pdf**
1349K

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77K

 **NEL4SWD_FieldScreens.pdf**
27K

 **NEL4SWD_SampleLocationMap.pdf**
1446K

Trinity Oilfield Services & Rentals, LLC



April 15th, 2024

Oil Conservation Division, District II
811 South First Street,
Artesia, New Mexico 88210

Re: **Deferral Request**
NELL 4 SWD Battery
Tracking #: NAB1805034361

Trinity Oilfield Services (Trinity), on behalf of OXY USA, Inc., hereby submits the following Deferral Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information	
Incident ID	NAB1805034361
Site Name	NELL 4 SWD Battery
Company	OXY USA, Inc.
County	Eddy
ULSTR	H-09-23S-28E
GPS Coordinates (NAD 83)	32.3218727, -104.0860443
Landowner	Federal

HISTORICAL RELEASE BACKGROUND

On 09/01/2017, OXY USA, Inc. reported a release at the NELL 4 SWD Battery. The release was caused by failure of a pop-off valve on a relief line. Approximately 6,400 sqft. of the Pad was found to be damp upon initial inspection.

Release Information	
Date of Release	8/29/2017
Type of Release	Crude Oil and Produced Water
Source of Release	Equipment Failure
Volume Released – Produced Water	263 bbls
Volume Recovered – Produced Water	80 bbls
Volume Released – Crude Oil	1 bbls
Volume Recovered – Crude Oil	0 bbls
Affected Area – Damp Soil	Pad - Approximately 6,400 sqft.
Site Location Map	Attached

SITE CHARACTERIZATION AND CLOSURE CRITERIA**Depth to Groundwater/Wellhead Protection:**

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	NA	NA	NA
USGS	NA	NA	NA

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a $\frac{1}{2}$ mile of the release site. The search revealed that Zero (0) wells occurred in the databases that meet the NMOCD criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

On 06/11/2018 and 06/12/2018, HCI Drilling was onsite to drill Soil Boring/Temporary Monitor Well SB-1/TMW1-1 and SB-2/TMW-2 to 60' and 80', respectively. The driller logs are attached for reference.

General Site Characterization:

Site Assessment	
Karst Potential	Medium
Distance to Watercourse	> 1000 ft.
Within 100 yr Floodplain	No
Pasture Impact	No

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Medium potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

Closure Criteria:

On-Site & Off-Site 4ft bgs	Recommended Remedial Action Levels (RRALs)
Chlorides	600 mg/kg
TPH (GRO and DRO and MRO)	100 mg/kg
TPH (GRO and DRO)	NA
BTEX	50 mg/kg
Benzene	10 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES**Initial Sample Activities:**

Delineation Summary	
Delineation Dates	09/12/2017 - 01/29/2018
Depths Sampled	0.5' - 14'
Delineation Map	Attached
Laboratory Results	Table 1

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Xenco Laboratories of Midland, TX) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

Previous Activities:

Sampling Summary	
Sample Dates	06/11/2018 - 07/30/2018
Workplan Approval	06/07/2018
Liner Request	Approved on 08/21/2018
Backfill Request	Approved on 08/21/2018
Deferral Request	Yes
Depths Excavated	2'
Estimated Volume of Excavated Soil	474 yards
Sample Map	Attached
Laboratory Results	Table 1

Impacted soil within the release margins was excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. The site was excavated to 2 feet below ground surface as a hard rock layer running underneath the site prohibited further excavation.

The aforesaid was accepted by Mike Bratcher on 08/21/2018. The impacted soil was then transported under manifest to an NMOCD-approved disposal facility.

Liner Installation:

On 08/15/2018, Trinity, on behalf of OXY, requested permission from Mike Bratcher and Shelly Tucker to install a 20-mil liner on the floor of the excavation area at approximately 2 feet below ground surface (bgs) and backfill the area with non-impacted material.

On 08/21/2018, Mike Bratcher approved the request to install the liner and backfill at the site as evidenced in attached email.

SITE RECLAMATION AND RESTORATION

Areas affected by the release and the associated remediation activities were restored to a condition that existed before the release to the extent practicable. The affected area was contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow.

Final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

REQUEST FOR DEFERRAL

Supporting Documentation	
C-141 page 6	Signed and Attached
Sample Maps	Attached
Depth to Groundwater Maps and Source	Attached
US NWI Map	Attached
FEMA Flood Hazard Map	Attached
USDA Soil Survey	Attached
Site Photography	Attached
Laboratory Analytics with COCs	Attached

The site was previously approved for backfill by Mike Bratcher as referenced above; therefore, Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant deferral approval for the referenced release.

Sincerely,



Dan Dunkelberg
Project Manager



Cynthia Jordan
Project Scientist

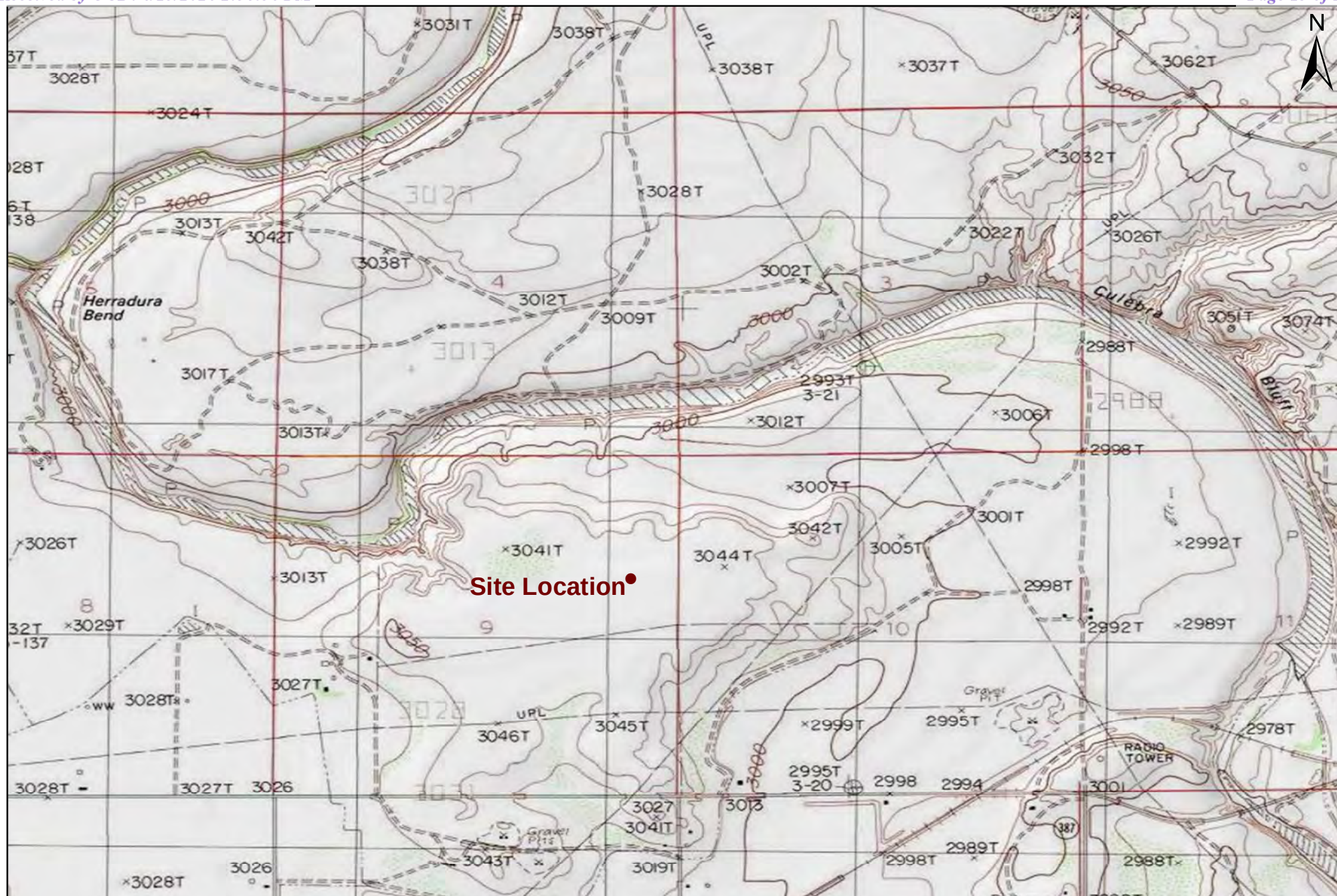


Figure 1
Site Location Map
OXY USA, Inc.
NEL 4 SWD Battery
Eddy County, New Mexico
NMOCD Reference #: 2RP-4623



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

Drawn By: BJA
April 19, 2018

Checked By: CTR
Scale: 1" = 2,000'

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
NEL 4 SWD BATTERY
EDDY COUNTY, NEW MEXICO
NMOCD REF. #: 2RP-4623**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
Wall 1a	2'		Excavated	560
Wall 1b	2'		Excavated	560
Wall 1c	2'		In-Situ	136
Wall 2a	2'		Excavated	784
Wall 2b	2'		Excavated	928
Wall 2c	2'		Excavated	928
Wall 2d	2'		In-Situ	<116
Wall 3a	2'		Excavated	2,216
Wall 3b	2'		In-Situ	188
Wall 4a	2'		In-Situ	7,396
Wall 5a	2'		In-Situ	4,152
Wall 6a	2'		In-Situ	5,304
Wall 7a	2'		In-Situ	2,572
Wall 8a	2'		Excavated	2,572
Wall 8b	2'		In-Situ	1,576
Wall 8c	2'		In-Situ	2,384
Wall 8d	2'		In-Situ	2,216
Wall 8e	2'		In-Situ	784
Wall 8f	2'		In-Situ	1,380
Wall 8g	2'		In-Situ	3,824
Wall 8h	2'		In-Situ	1,380
Wall 8i	2'		In-Situ	668
Wall 8j	2'		In-Situ	288
Wall 9a	2'		Excavated	2,732
Wall 9b	2'		Excavated	784
Wall 9c	2'		In-Situ	2,288
Wall 9d	2'		In-Situ	2,288
Wall 9e	2'		In-Situ	2,976
Wall 9f	2'		In-Situ	288

Concentrations in BOLD exceed the NMOCD RRAL

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

OXY USA, INC.
 NEL 4 SWD 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	1,000	600
SP-1 @ 6"	6"	9/12/2017	Excavated	-	-	-	-	-	-	-	2,210	7,220	2,820	12,300	952
SP-1 @ 1'	1'	1/22/2018	Excavated	-	-	-	-	-	-	-	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	Excavated	-	-	-	-	-	-	-	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	Excavated	-	-	-	-	-	-	-	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	Excavated	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	Excavated	<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	Excavated	-	-	-	-	-	-	-	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

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

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

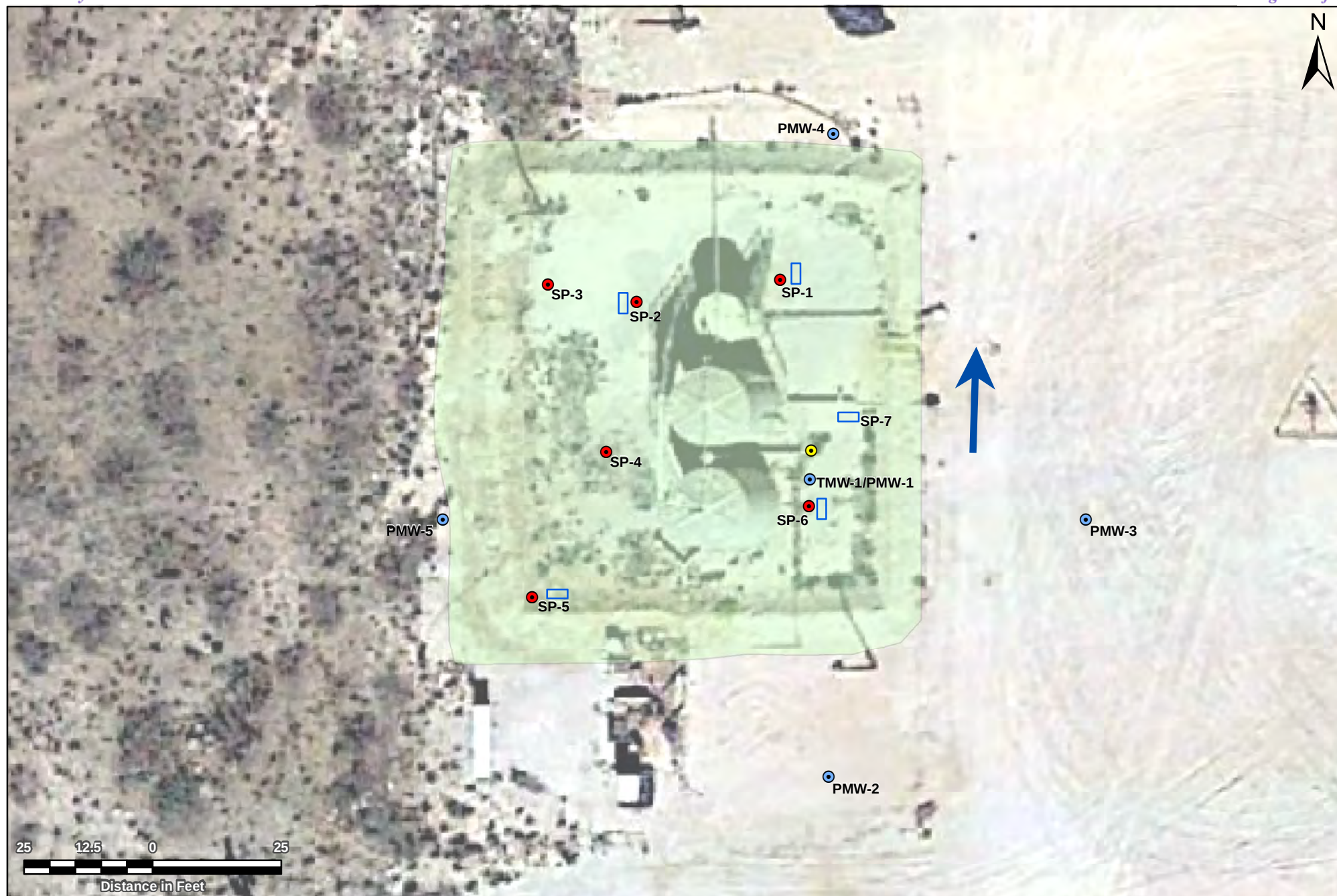


SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT 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	1,000	600
SB-1/TMW-1 @ 5'	5'	6/11/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	800
SB-1/TMW-1 @ 10'	10'	6/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	-	-	121
SB-1/TMW-1 @ 30'	30'	6/11/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	4,200
SB-1/TMW-1 @ 55'	55'	6/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	-	-	458
SB-1/TMW-1 @ 60'	60'	6/12/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	37.5
SB-2/TMW-2 @ 5'	5'	6/12/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	32.8	<14.9	32.8	3,420
SB-2/TMW-2 @ 15'	15'	6/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	-	-	11.9
SB-2/TMW-2 @ 30'	30'	6/12/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	7,760
SB-2/TMW-2 @ 50'	50'	6/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	-	-	43.7
SB-2/TMW-2 @ 55'	55'	6/12/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	75.1
Wall 1b	2'	7/26/2018	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	520
Wall 1c	2'	7/26/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	114
Wall 2d	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	<4.98
Wall 3b	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	192
Wall 4a	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	7,860
Wall 5a	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	6,280
Wall 6a	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	8,760
Wall 7a	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	0.0045	0.0045	0.0045	17.6	195	<15.0	213	4,270
Wall 8b	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	1,740
Wall 9b	2'	7/27/2018	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	799
Wall 9f	2'	7/27/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	34.2
Wall 8e	2'	7/30/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	832
Wall 8i	2'	7/30/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	562
Wall 8j	2'	7/30/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	290

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

**Legend**

- | | |
|---------------------------------|-----------------------|
| Proposed Excavation (4' bgs) | Auger/Borehole |
| Delineation Trench | Release Point |
| Groundwater Gradient (Inferred) | 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'

**Legend**

	Excavation (2' bgs)		Release Point		Sample Location
	Proposed Liner		Auger/Borehole		Excavated Sample
	Delineation Trench		Temporary Monitor Well		

Figure 2
Sample 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: DLB
August 14, 2018	Scale: 1" = 40'

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)



Excavation

Pad:



Pad:





Excavation



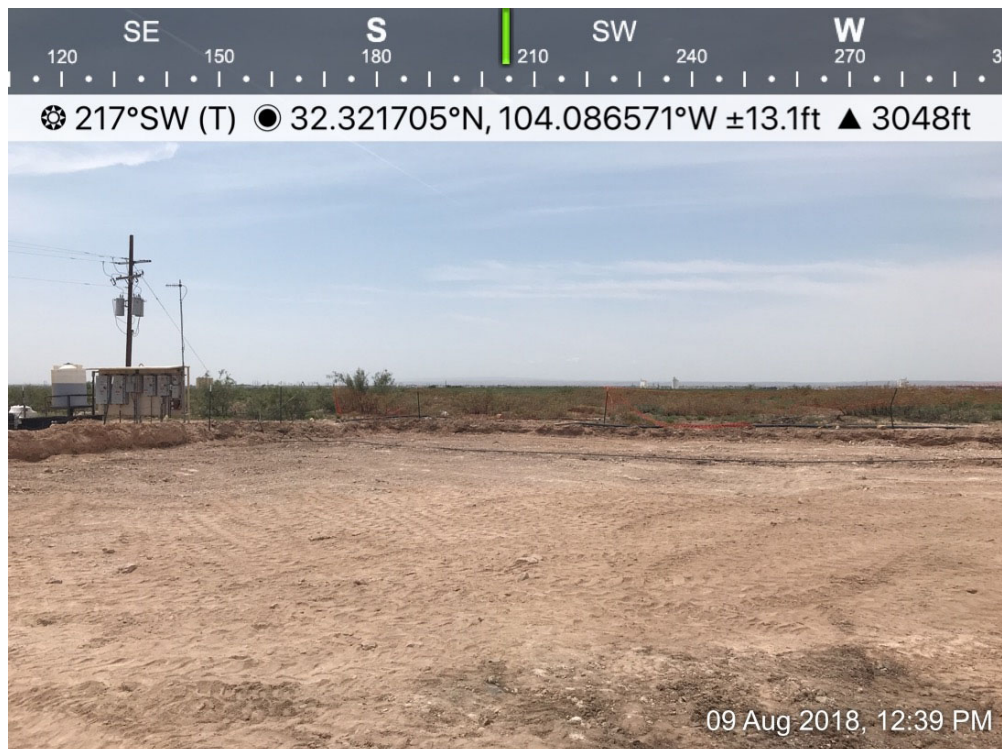


Excavation

Pad:



Pad:





Excavation

Pad:



Pad:





Excavation

Pad:



Pad:





Excavation

Pad:



Pad:





Excavation

Pad:





Liner Installation

Pad:



Pad:





Liner Installation

Pad:



Pad:





Liner Installation

Pad:



Pad:





Backfill

Pad:



Pad:





Backfill

Pad:



Pad:





Backfill

Pad:



Pad:





Soil Boring/Temporary Monitor Well SB-1/TMW-1

Company: OXY USA, Inc.	Well/Borehole ID: SB-1/TMW-1	Drilling Company: HCI Drilling
Project Name: NEL 4 SWD Battery	Coordinates (NAD 83): 32.321756 -104.086605	Driller: Kenny Cooper
NMOCD Reference #: 2RP-4623	Drilling Date: 6/11-6/12/2018	Drilling Method: Air Rotary
Location: Eddy Co., NM	Depth of Boring (ft): 60	Logged By: B. Arguijo
PLSS: Unit 'H' (SE/NE), Sec. 9, T23S, R28E	Depth to Groundwater (ft): N/A	Drafted By: B. Arguijo
	Plugging Date: 6/12/2018	Draft Date: 7/19/2018
Completion: N/A	Casing: N/A	Screen: N/A
Comments: In NE corner of former containment area, approximately 40 feet from release point.		

Depth (m)	Graphic Log	Groundwater	Material Description	PID	Chloride Field Test	Petroleum Odor	Petroleum Stain	Moisture	Analyzed	TPH	Benzene	BTEX	Chloride	Well Construction
0			Tan to pale brown sand, caliche	-	-	N	N	Dry	Y	ND	ND	ND	800	
5				-	-	N	N	Dry	Y	-	-	-	121	
10				-	-	N	N	Dry	Y	-	-	-	-	
15			Pale brown sand, caliche	-	-	N	N	Dry	N	-	-	-	-	
20			Light brown to reddish brown silty sand, silty clay, gravel	-	-	N	N	Dry	N	-	-	-	-	
25			Reddish brown silty sand, clay, gravel	-	-	N	N	Dry	N	-	-	-	-	
30			Red silty sand, clay	-	-	N	N	Dry	Y	ND	ND	ND	4,200	
35				-	-	N	N	Dry	N	-	-	-	-	
40			Light brown fine sand, sandstone, w/ red clay nodules	-	-	N	N	Dry	N	-	-	-	-	
45			Light brown to reddish brown fine sand, sandstone w/ red clay nodules	-	-	N	N	Dry	N	-	-	-	-	
50			Red silty sand, clay	-	-	N	N	Dry	N	-	-	-	-	
55			Red silty sand, clay, gravel	-	-	N	N	Dry	Y	-	-	-	458	
60			Reddish brown silty sand	-	-	N	N	Dry	Y	ND	ND	ND	37.5	
60			Total Depth = 60 feet	-	-	N	N	Dry	Y	ND	ND	ND	37.5	
65			Notes: 1. Groundwater not present at depth indicated by available data. 2. Lines between material types represent approximate boundaries. Actual transitions may be gradual.											
70														
75														
80														
85														
90														
95														

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 1 of 1

ND = Not Detected

- = Not Analyzed



Soil Boring/Temporary Monitor Well SB-2/TMW-2

Company: OXY USA, Inc.	Well/Borehole ID: SB-2/TMW-2	Drilling Company: HCI Drilling
Project Name: NEL 4 SWD Battery	Coordinates (NAD 83): 32.321595,-104.086745	Driller: Kenny Cooper
NMOCD Reference #: 2RP-4623	Drilling Date: 6/12/2018	Drilling Method: Air Rotary
Location: Eddy Co., NM	Depth of Boring (ft): 80	Logged By: B. Arguijo
PLSS: Unit 'H' (SE/NE), Sec. 9, T23S, R28E	Depth to Groundwater (ft): 76.52	Drafted By: B. Arguijo
	Plugging Date: 7/20/2018	Draft Date: 7/20/2018
Completion: N/A	Casing: Schedule 40, 2-Inch ID PVC	Screen: 0.10-Inch Factory Slotted PVC
Comments: In SW corner of former containment area, approximately 45 feet from release point.		

Depth (m)	Graphic Log	Groundwater	Material Description	PID	Chloride Field Test	Petroleum Odor	Petroleum Stain	Moisture	Analyzed	TPH	Benzene	BTEX	Chloride	Well Construction
0			Tan to pale brown sand, caliche	-	-	N	N	Dry	Y	32.8	ND	ND	3,420	
5				-	-	N	N	Dry	N	-	-	-	-	
10				-	-	N	N	Dry	N	-	-	-	-	
15			Pale brown sand, caliche, gravel	-	210	N	N	Dry	Y	-	-	-	11.9	
20			Light brown to reddish brown silty sand, silty clay, gravel	-	556	N	N	Dry	N	-	-	-	-	
25			Reddish brown silty sand, clay	-	-	N	N	Moist	N	-	-	-	-	
30			Red silty sand, clay	-	5,800	N	N	Moist	Y	ND	ND	ND	7,760	Bentonite
35			Red silty sand	-	-	N	N	Moist	N	-	-	-	-	
40			Red to reddish brown fine sand, silty clay, sandstone	-	608	N	N	Moist	N	-	-	-	-	
45			Reddish brown fine sand, sandstone	-	-	N	N	Dry	N	-	-	-	-	
50			Reddish brown to brown fine sand	-	-	N	N	Dry	Y	-	-	-	43.7	
55			Brown fine sand	-	172	N	N	Dry	Y	ND	ND	ND	75.1	
60														
65														
70														
75														
80			Total Depth = 80 feet											Collapsed
85			Notes: 1. Due to the non-cohesive nature of the soil at lower depths, water was injected beginning at approximately 56 feet below ground surface to prevent collapse of the borehole. 2. Lines between material types represent approximate boundaries. Actual transitions may be gradual.											
90														
95														

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 1 of 1

ND = Not Detected

- = Not Analyzed



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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	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

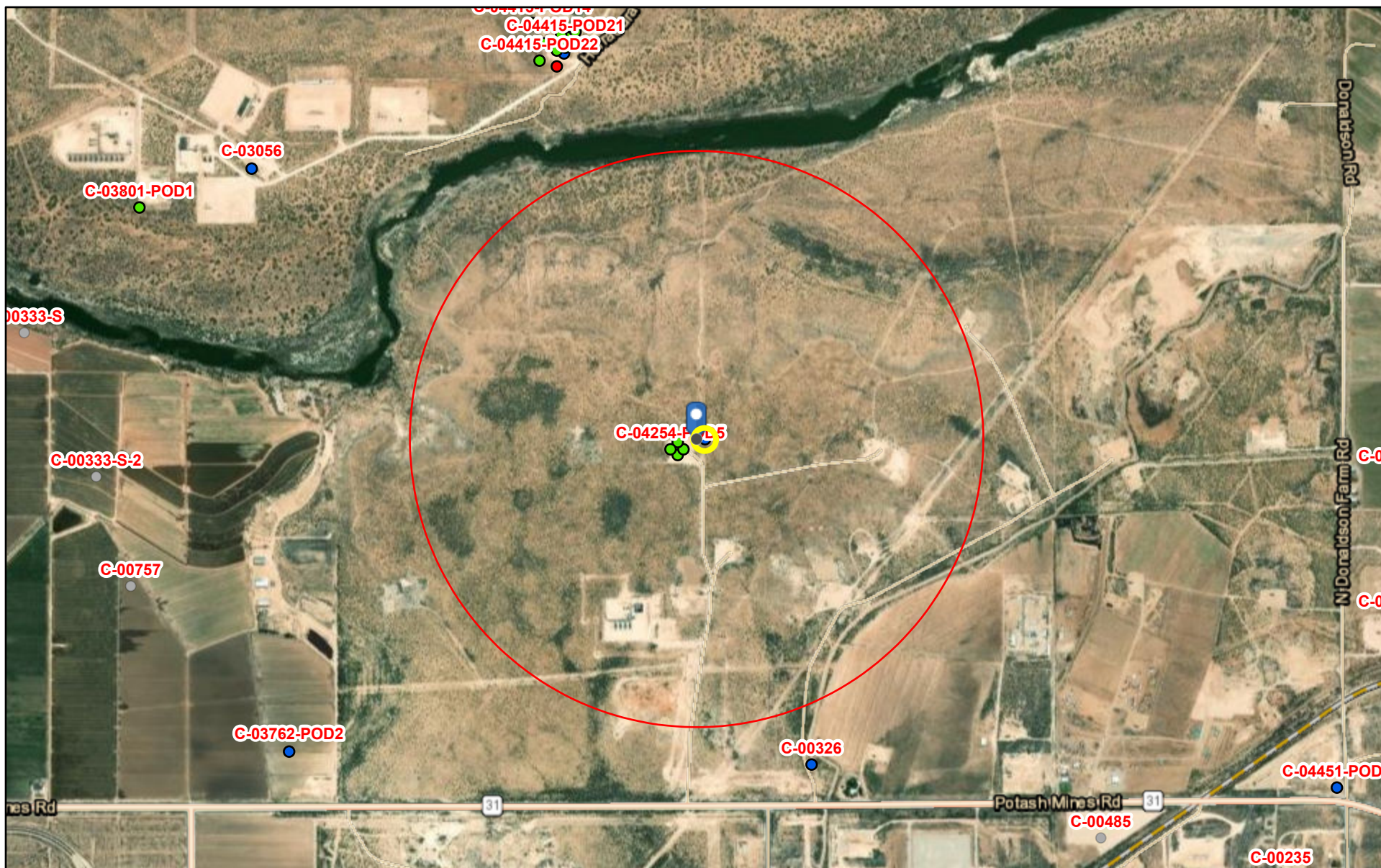
*UTM location was derived from PLSS - see Help

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

NAB1805034361 | NELL SWD #004





U.S. Fish and Wildlife Service

National Wetlands Inventory

NAB1805034361 | NELL SWD #004



March 27, 2024

Wetlands

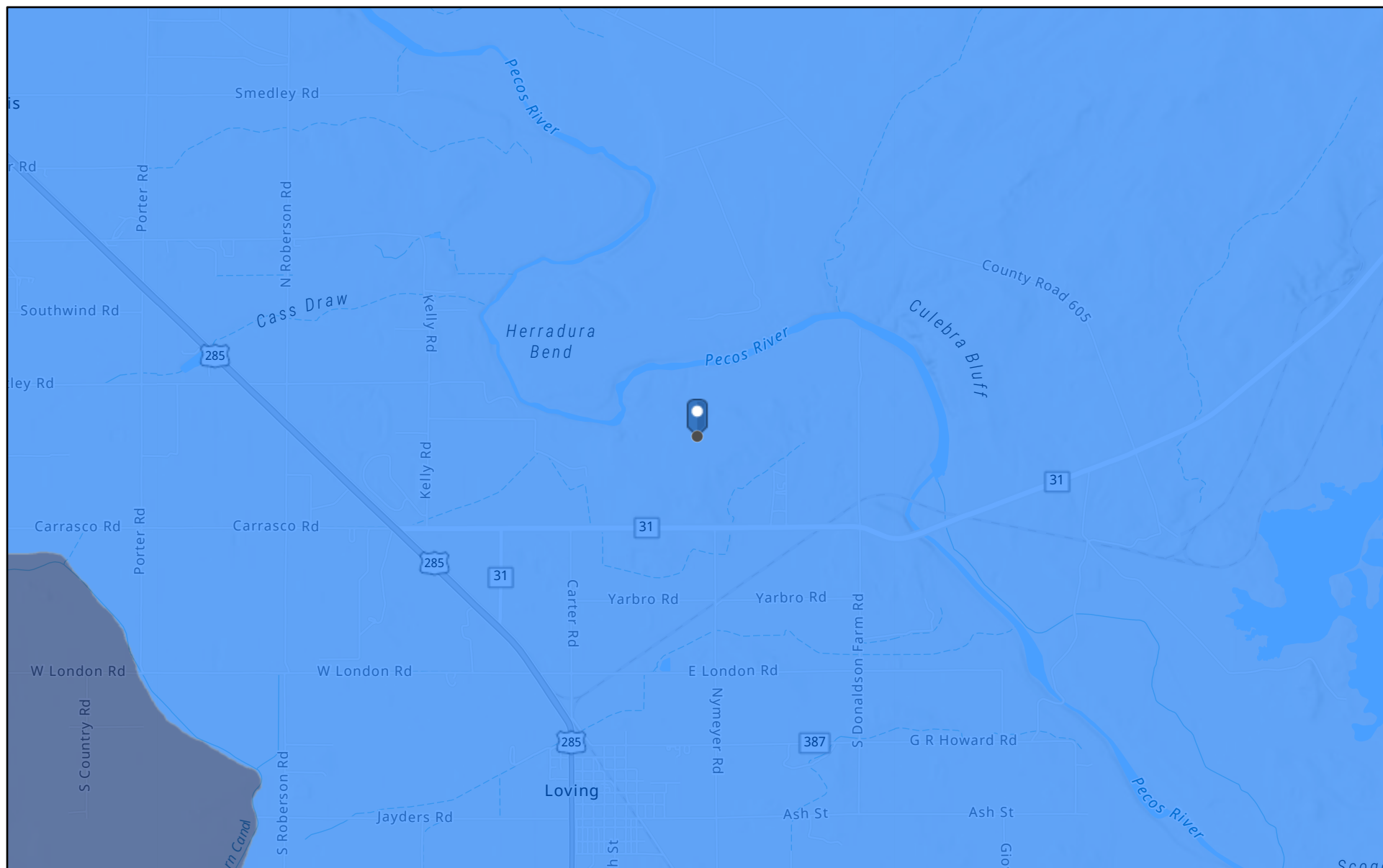
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

NAB1805034361 | NELL SWD #004

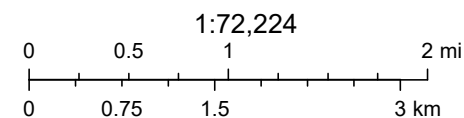


3/27/2024, 10:23:10 AM

Karst Occurrence Potential

Medium

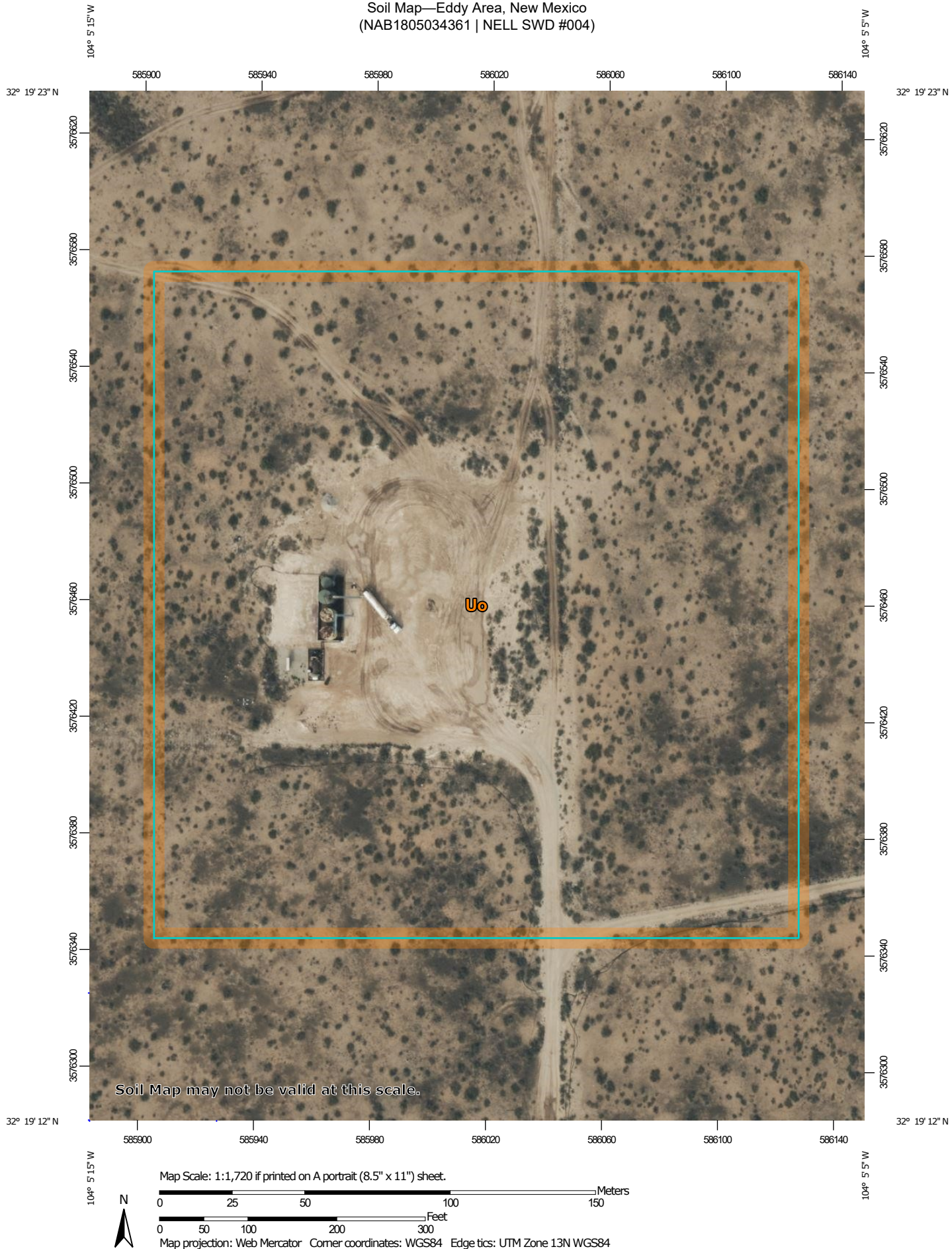
High



BLM, OCD, New Mexico Tech, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

New Mexico Oil Conservation Division

Soil Map—Eddy Area, New Mexico
(NAB1805034361 | NELL SWD #004)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/27/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(NAB1805034361 | NELL SWD #004)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Uo	Upton gravelly loam, 0 to 9 percent slopes	12.6	100.0%
Totals for Area of Interest		12.6	100.0%



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

<i>Analysis Requested</i>	<i>Lab Id:</i>	563204-001	563204-002	563204-003	563204-004	563204-005	563204-006
	<i>Field Id:</i>	SP-1 @ 6"	SP-2 @ 6"	SP-3 @ 2'	SP-4 @ 6"	SP-4 @ 2'	SP-5 @ 6"
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	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	<i>Extracted:</i>					Sep-25-17 09:00	Sep-25-17 16:50
	<i>Analyzed:</i>					Sep-25-17 13:19	Sep-26-17 08:23
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Benzene						<0.00202 0.00202	0.0161 0.00662
Toluene						<0.00202 0.00202	0.0162 0.00662
Ethylbenzene						<0.00202 0.00202	0.0103 0.00662
m,p-Xylenes						<0.00404 0.00404	0.222 0.0132
o-Xylene						<0.00202 0.00202	0.0424 0.00662
Total Xylenes						<0.00202 0.00202	0.264 0.00662
Total BTEX						<0.00202 0.00202	0.307 0.00662
Chloride by EPA 300	<i>Extracted:</i>	Sep-25-17 09:45	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		952 4.99	3610 24.9	7480 49.4	15300 98.6	858 4.95	1360 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-21-17 09:00	Sep-21-17 09:00	Sep-21-17 09:00	Sep-21-17 09:00	Sep-21-17 09:00	Sep-21-17 09:00
	<i>Analyzed:</i>	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
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		2210 74.7	586 74.9	23.5 14.9	301 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		7220 74.7	982 74.9	132 14.9	3390 15.0	84.3 15.0	80.7 15.0
Oil Range Hydrocarbons (ORO)		2820 74.7	<74.9 74.9	81.3 14.9	497 15.0	<15.0 15.0	<15.0 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 - Odessa - Corpus Christi

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	Lab Id:	563204-007	563204-008				
	Field Id:	SP-5 @ 1'	SP-6 @ 6"				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Sep-12-17 10:53	Sep-12-17 11:12				
BTEX by EPA 8021B	Extracted:	Sep-25-17 16:50					
	Analyzed:	Sep-25-17 22:48					
	Units/RL:	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	Extracted:	Sep-25-17 15:35	Sep-25-17 15:35				
	Analyzed:	Sep-25-17 18:22	Sep-25-17 22:12				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		3030 24.8	9210 49.9				
TPH By SW8015 Mod	Extracted:	Sep-21-17 09:00	Sep-21-17 09:00				
	Analyzed:	Sep-21-17 17:32	Sep-21-17 17:52				
	Units/RL:	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,

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

Holly Taylor
Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 563204

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	



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ 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	



Trinity Oilfield Services & Rentals, LLC
NEL Federal #4 SWD

Analytical Method: Chloride by EPA 300

Seq Number: 3028582

MB Sample Id: 731500-1-BLK

Matrix: Solid

LCS Sample Id: 731500-1-BKS

Prep Method: E300P

Date Prep: 09.25.17

LCSD Sample Id: 731500-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	266	106	266	106	90-110	0	20	mg/kg	09.25.17 11:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3028831

MB Sample Id: 731502-1-BLK

Matrix: Solid

LCS Sample Id: 731502-1-BKS

Prep Method: E300P

Date Prep: 09.25.17

LCSD Sample Id: 731502-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	267	107	90-110	0	20	mg/kg	09.25.17 16:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3028582

Parent Sample Id: 563208-023

Matrix: Soil

MS Sample Id: 563208-023 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563208-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
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

Parent Sample Id: 563470-001

Matrix: Soil

MS Sample Id: 563470-001 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563470-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.90	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

Parent Sample Id: 563207-001

Matrix: Soil

MS Sample Id: 563207-001 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563207-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
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

Parent Sample Id: 563221-004

Matrix: Soil

MS Sample Id: 563221-004 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563221-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.0	249	326	105	325	104	90-110	0	20	mg/kg	09.25.17 16:58	



Trinity Oilfield Services & Rentals, LLC
NEL Federal #4 SWD

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028432

MB Sample Id: 731365-1-BLK

Matrix: Solid

LCS Sample Id: 731365-1-BKS

Prep Method: TX1005P

Date Prep: 09.21.17

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

Parent Sample Id: 563203-004

Matrix: Soil

MS Sample Id: 563203-004 S

Prep Method: TX1005P

Date Prep: 09.21.17

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

MB Sample Id: 731515-1-BLK

Matrix: Solid

LCS Sample Id: 731515-1-BKS

Prep Method: SW5030B

Date Prep: 09.25.17

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			



Trinity Oilfield Services & Rentals, LLC
NEL Federal #4 SWD

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028678

MB Sample Id: 731517-1-BLK

Matrix: Solid

LCS Sample Id: 731517-1-BKS

Prep Method: SW5030B

Date Prep: 09.25.17

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

Parent Sample Id: 563632-001

Matrix: Soil

MS Sample Id: 563632-001 S

Prep Method: SW5030B

Date Prep: 09.25.17

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

Parent Sample Id: 563676-001

Matrix: Soil

MS Sample Id: 563676-001 S

Prep Method: SW5030B

Date Prep: 09.25.17

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

7000L-C

Page 1 of 1

LAB W.O #: 563204

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

Company: Trinity Oilfield Services & Rentals, LLC	Phone: (575)390-7208
Address: P.O. Box 2587	Fax: _____
City: Hobbs	State: NM Zip: 88241
PM/Attn: Ben J. Arguijo	Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: NEL Federal #4 SWD	PO#: _____
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #: _____

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity	OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) on Highest TPH	Run PAH Only
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														

Cont Type *	VC	GC	GC	GC										
Pres Type **	I	I	I											
# Cont	1	1	1											
Lab Only:														

See Remarks														
	X													
	X													
	X													
	X													
	X													
	X													
	X													

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers	Temp °C	Lab Use Only
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? _____
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1. <u>Wade Dittrich</u>	<u>Trinity</u>	<u>9/18/17</u>	<u>0918</u>	<u>PEG</u>	<u>MS</u>	<u>9-18</u>	<u>9:25</u>
2. <u>Ben Arguijo</u>	<u>Trinity</u>	<u>9/19/17</u>	<u>10:30</u>	<u>Ben Arguijo</u>	<u>Xenco</u>	<u>9-19-17</u>	<u>10:30</u>
3. _____	_____	_____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____	_____	_____

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

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



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

Date: 09/19/2017

Checklist reviewed by:

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	574550-002	574550-003	574550-004	574550-005	574550-006
	Field Id:	SP-1 @ 1'	SP-1 @ 3'	SP-2 @ 2'	SP-5 @ 3'	SP-6 @ 3'	SP-7 @ 2'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-22-18 09:40	Jan-23-18 09:51	Jan-22-18 10:25	Jan-22-18 11:04	Jan-23-18 10:30	Jan-22-18 11:25
BTEX by EPA 8021B	Extracted:					Jan-29-18 09:00	
	Analyzed:					Jan-29-18 17:40	
	Units/RL:					mg/kg 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	Jan-29-18 10:35	Jan-29-18 10:35	Jan-29-18 10:35	Jan-29-18 10:35	Jan-29-18 10:35
	Analyzed:	Jan-29-18 14:59	Jan-29-18 15:13	Jan-29-18 15:06	Jan-29-18 15:34	Jan-29-18 15:41	Jan-29-18 16:02
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		866 4.97	327 4.97	1530 25.0	9250 99.0	7750 49.7	2410 24.6
TPH By SW8015 Mod	Extracted:	Jan-26-18 17:00	Jan-26-18 17:00	Jan-26-18 17:00	Jan-26-18 17:00	Jan-26-18 17:00	Jan-26-18 17:00
	Analyzed:	Jan-27-18 10:15	Jan-27-18 10:36	Jan-27-18 10:56	Jan-27-18 11:16	Jan-27-18 11:37	Jan-27-18 11:59
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		359 14.9	644 15.0	68.4 15.0	<15.0 15.0	<15.0 15.0	118 15.0
Diesel Range Organics (DRO)		539 14.9	688 15.0	118 15.0	177 15.0	67.2 15.0	915 15.0
Oil Range Hydrocarbons (ORO)		610 14.9	1120 15.0	150 15.0	44.7 15.0	26.1 15.0	280 15.0
Total TPH		1510 14.9	2450 15.0	336 15.0	222 15.0	93.3 15.0	1310 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,

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

Holly Taylor
Project Manager

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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

Tech: OJS

Analyst: OJS

Seq Number: 3039656

Prep Method: E300P

% Moisture:

Date Prep: 01.29.18 10.35

Basis: Wet Weight

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

Tech: ARM

Analyst: ARM

Seq Number: 3039411

Prep Method: TX1005P

% Moisture:

Date Prep: 01.26.18 17.00

Basis: Wet Weight

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		



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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



Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

MB Sample Id: 7638225-1-BLK

Matrix: Solid

LCS Sample Id: 7638225-1-BKS

Prep Method: E300P

Date Prep: 01.29.18

LCSD Sample Id: 7638225-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	256	102	90-110	0	20	mg/kg	01.29.18 13:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

Parent Sample Id: 574474-002

Matrix: Soil

MS Sample Id: 574474-002 S

Prep Method: E300P

Date Prep: 01.29.18

MSD Sample Id: 574474-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.5	246	290	110	295	112	90-110	2	20	mg/kg	01.29.18 13:42	X

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

Parent Sample Id: 574550-002

Matrix: Soil

MS Sample Id: 574550-002 S

Prep Method: E300P

Date Prep: 01.29.18

MSD Sample Id: 574550-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	327	249	562	94	574	99	90-110	2	20	mg/kg	01.29.18 15:20	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039411

MB Sample Id: 7638142-1-BLK

Matrix: Solid

LCS Sample Id: 7638142-1-BKS

Prep Method: TX1005P

Date Prep: 01.26.18

LCSD Sample Id: 7638142-1-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	838	84	915	92	70-135	9	35	mg/kg	01.27.18 07:49	
Diesel Range Organics (DRO)	<15.0	1000	954	95	1030	103	70-135	8	35	mg/kg	01.27.18 07:49	

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



Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039411

Parent Sample Id: 574548-001

Matrix: Soil

MS Sample Id: 574548-001 S

Prep Method: TX1005P

Date Prep: 01.26.18

MSD Sample Id: 574548-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	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

MB Sample Id: 7638253-1-BLK

Matrix: Solid

LCS Sample Id: 7638253-1-BKS

Prep Method: SW5030B

Date Prep: 01.29.18

LCSD Sample Id: 7638253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0897	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

Parent Sample Id: 574590-001

Matrix: Soil

MS Sample Id: 574590-001 S

Prep Method: SW5030B

Date Prep: 01.29.18

MSD Sample Id: 574590-001 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	0.0764	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

Page 1 of 1

LAB W.O. #:

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA C.
H₂SO₄ G. Na₂SO₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

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

REMARKS

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

TAT Work Days = D

Need results by: _____ Time: _____

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

ANALYSES REQUESTED

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	# Cont	Lab Only
1	SP-1 @ 1'	1/22/18	0940	S			1	TPH 8015M	X	
2	SP-1 @ 3'	1/23/18	0951	S			1	BTEX	X	
3	SP-2 @ 2'	1/22/18	1025	S			1	Chloride	X	
4	SP-5 @ 3'	1/22/18	1104	S			1		X	
5	SP-6 @ 3'	1/23/18	1030	S			1		X	
6	SP-7 @ 2'	1/22/18	1125	S			1		X	
7										
8										
9										
0										

See Remarks

Reg. Program / Clean-up Std STATE for Certs & Regs QA/QC Level & Certification EDDs COC & Labels Coolers Temp °C Lab Use Only YES NO N/A
CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK 1 2 3 4 CLP AFCEE QAPP NIELAC ADAPT SEDD ERPIMS Match Incomplete Absent Unclear 10.12 3 Non-Conformances found? _____
LA AL NM Other: DoD-ELAP Other: XLS Other: Received by Affiliation Date Time Labeled with proper preservatives? _____
1 Relinquished by Affiliation Date Time Received by Affiliation Date Time Labeled within holding time? _____
2 MS MS 1-24-18 3:00pm 1-24-18 3:00pm Custody seals intact? _____
3 MS MS 1-24-18 3:23 1-25-18 11:30 VOCs rec'd w/o headspace? _____
4 Proper containers used? _____
pH verified-acceptable, exd VOCs? _____
Received on time to meet HTs? _____

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

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

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Revised

Temp: 1.3 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.1

se amounts



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

Date: 01/25/2018

Checklist reviewed by:

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	575036-002	575036-003	575036-004	575036-005	575036-006
	Field Id:	SP-1 @ 3'	SP-1 @ 5'	SP-1 @ 7'	SP-3 @ 4'	SP-3 @ 8'	SP-3 @ 14'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-29-18 10:04	Jan-29-18 10:09	Jan-29-18 10:30	Jan-29-18 13:30	Jan-29-18 13:38	Jan-29-18 13:50
BTEX by EPA 8021B	Extracted:			Feb-05-18 07:45		Feb-05-18 07:45	Feb-05-18 07:45
	Analyzed:			Feb-05-18 16:27		Feb-05-18 16:46	Feb-05-18 17:05
	Units/RL:			mg/kg RL		mg/kg RL	mg/kg RL
Benzene				<0.00198 0.00198		<0.00198 0.00198	<0.00200 0.00200
Toluene				<0.00198 0.00198		<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene				<0.00198 0.00198		<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes				0.00407 0.00397		<0.00396 0.00396	<0.00401 0.00401
o-Xylene				0.00366 0.00198		<0.00198 0.00198	<0.00200 0.00200
Total Xylenes				0.00773 0.00198		<0.00198 0.00198	<0.00200 0.00200
Total BTEX				0.00773 0.00198		<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Feb-05-18 17:00	Feb-05-18 17:00	Feb-05-18 17:00	Feb-05-18 17:00	Feb-05-18 17:00	Feb-05-18 17:00
	Analyzed:	Feb-06-18 02:02	Feb-06-18 02:23	Feb-06-18 02:30	Feb-06-18 02:37	Feb-06-18 02:44	Feb-06-18 02:51
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		714 4.95	298 24.7	336 24.8	460 4.99	1530 24.8	391 5.00
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
	Analyzed:	Feb-02-18 16:24	Feb-02-18 16:45	Feb-02-18 17:45	Feb-02-18 18:06	Feb-02-18 18:27	Feb-02-18 18:47
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		124 15.0	<15.0 15.0	<15.0 15.0	53.1 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		540 15.0	73.7 15.0	65.2 15.0	83.3 15.0	<15.0 15.0	17.0 15.0
Oil Range Hydrocarbons (ORO)		340 15.0	27.8 15.0	23.8 15.0	126 15.0	<15.0 15.0	18.0 15.0
Total TPH		1000 15.0	102 15.0	89.0 15.0	262 15.0	<15.0 15.0	35.0 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:	575036-007	575036-008	575036-009	575036-010	575036-011	575036-012
	Field Id:	SP-4 @ 4'	SP-4 @ 12'	SP-4 @ 14'	SP-5 @ 4'	SP-5 @ 10'	SP-5 @ 14'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-29-18 12:45	Jan-29-18 13:10	Jan-29-18 13:26	Jan-29-18 11:20	Jan-29-18 11:40	Jan-29-18 11:50
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
	Analyzed:		Feb-05-18 17:24	Feb-05-18 17:44		Feb-05-18 18:40	Feb-05-18 18:59
	Units/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
Toluene			<0.00202 0.00202	<0.00199 0.00199		<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
m,p-Xylenes			<0.00403 0.00403	<0.00398 0.00398		<0.00401 0.00401	<0.00399 0.00399
o-Xylene			<0.00202 0.00202	<0.00199 0.00199		<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
Total BTEX			<0.00202 0.00202	<0.00199 0.00199		<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
	Analyzed:	Feb-06-18 02:58	Feb-06-18 10:32	Feb-06-18 10:53	Feb-06-18 10:59	Feb-06-18 11:06	Feb-06-18 11:13
	Units/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	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
	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 21:37
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<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	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
Total TPH		158 15.0	80.6 15.0	93.4 15.0	128 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

<i>Analysis Requested</i>	<i>Lab Id:</i>	575036-013	575036-014	575036-015	575036-016		
	<i>Field Id:</i>	SP-6 @ 3'	SP-6 @ 7'	SP-6 @ 10'	SP-6 @ 14'		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jan-29-18 10:36	Jan-29-18 10:50	Jan-29-18 11:05	Jan-29-18 11:09		
BTEX by EPA 8021B	<i>Extracted:</i>	Feb-05-18 07:45	Feb-05-18 14:50	Feb-05-18 14:50	Feb-05-18 14:50		
	<i>Analyzed:</i>	Feb-05-18 19:17	Feb-05-18 22:06	Feb-05-18 22:26	Feb-05-18 22:45		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00403 0.00403		
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202		
Chloride by EPA 300	<i>Extracted:</i>	Feb-06-18 09:00	Feb-06-18 09:00	Feb-06-18 09:00	Feb-06-18 09:00		
	<i>Analyzed:</i>	Feb-06-18 11:34	Feb-06-18 11:41	Feb-06-18 11:48	Feb-06-18 11:55		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		2990 25.0	6080 50.0	2990 25.0	1500 25.0		
TPH By SW8015 Mod	<i>Extracted:</i>	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00	Feb-02-18 12:00		
	<i>Analyzed:</i>	Feb-02-18 21:59	Feb-02-18 22:20	Feb-02-18 22:43	Feb-02-18 23:05		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<14.9 14.9		
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<14.9 14.9		
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<14.9 14.9	<15.0 15.0	<14.9 14.9		
Total TPH		<15.0 15.0	<14.9 14.9	<15.0 15.0	<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,

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

Holly Taylor
Project Manager

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

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Sample Cross Reference 575036

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 conformance and comments:

Sample receipt non conformance and comments per sample:

None

Analytical non conformance 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	



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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	



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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: 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		



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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	Cas Number	% 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	



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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		



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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	



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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		



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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		



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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		



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3040264

MB Sample Id: 7638616-1-BLK

Matrix: Solid

LCS Sample Id: 7638616-1-BKS

Prep Method: E300P

Date Prep: 02.05.18

LCSD Sample Id: 7638616-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	247	99	90-110	0	20	mg/kg	02.05.18 23:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3040283

MB Sample Id: 7638673-1-BLK

Matrix: Solid

LCS Sample Id: 7638673-1-BKS

Prep Method: E300P

Date Prep: 02.06.18

LCSD Sample Id: 7638673-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	258	103	90-110	1	20	mg/kg	02.06.18 10:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3040264

Parent Sample Id: 575033-004

Matrix: Soil

MS Sample Id: 575033-004 S

Prep Method: E300P

Date Prep: 02.05.18

MSD Sample Id: 575033-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	300	250	535	94	538	95	90-110	1	20	mg/kg	02.06.18 01:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3040264

Parent Sample Id: 575316-013

Matrix: Soil

MS Sample Id: 575316-013 S

Prep Method: E300P

Date Prep: 02.05.18

MSD Sample Id: 575316-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.04	250	260	102	260	102	90-110	0	20	mg/kg	02.06.18 00:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3040283

Parent Sample Id: 575036-008

Matrix: Soil

MS Sample Id: 575036-008 S

Prep Method: E300P

Date Prep: 02.06.18

MSD Sample Id: 575036-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	269	247	506	96	505	96	90-110	0	20	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



Trinity Oilfield Services & Rentals, LLC

NEL Federal 4 Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3040283

Parent Sample Id: 575128-002

Matrix: Soil

MS Sample Id: 575128-002 S

Prep Method: E300P

Date Prep: 02.06.18

MSD Sample Id: 575128-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	255	245	479	91	482	93	90-110	1	20	mg/kg	02.06.18 12:16	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3040138

MB Sample Id: 7638544-1-BLK

Matrix: Solid

LCS Sample Id: 7638544-1-BKS

Prep Method: TX1005P

Date Prep: 02.02.18

LCSD Sample Id: 7638544-1-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	933	93	861	86	70-135	8	35	mg/kg	02.02.18 15:43	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	860	86	70-135	20	35	mg/kg	02.02.18 15:43	

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

Parent Sample Id: 575036-002

Matrix: Soil

MS Sample Id: 575036-002 S

Prep Method: TX1005P

Date Prep: 02.02.18

MSD Sample Id: 575036-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	840	84	879	88	70-135	5	35	mg/kg	02.02.18 17:05	
Diesel Range Organics (DRO)	73.7	999	932	86	965	89	70-135	3	35	mg/kg	02.02.18 17:05	

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



Trinity Oilfield Services & Rentals, LLC
NEL Federal 4 Battery

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040125

MB Sample Id: 7638578-1-BLK

Matrix: Solid

LCS Sample Id: 7638578-1-BKS

Prep Method: SW5030B

Date Prep: 02.05.18

LCSD Sample Id: 7638578-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0954	94	0.0917	91	70-130	4	35	mg/kg	02.05.18 08:04	
Toluene	<0.00202	0.101	0.101	100	0.0973	96	70-130	4	35	mg/kg	02.05.18 08:04	
Ethylbenzene	<0.00202	0.101	0.115	114	0.111	110	71-129	4	35	mg/kg	02.05.18 08:04	
m,p-Xylenes	<0.00404	0.202	0.227	112	0.218	108	70-135	4	35	mg/kg	02.05.18 08:04	
o-Xylene	<0.00202	0.101	0.112	111	0.108	107	71-133	4	35	mg/kg	02.05.18 08:04	
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

MB Sample Id: 7638660-1-BLK

Matrix: Solid

LCS Sample Id: 7638660-1-BKS

Prep Method: SW5030B

Date Prep: 02.05.18

LCSD Sample Id: 7638660-1-BSD

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

Analytical Method: BTEX by EPA 8021B

Seq Number: 3040125

Parent Sample Id: 575365-001

Matrix: Soil

MS Sample Id: 575365-001 S

Prep Method: SW5030B

Date Prep: 02.05.18

MSD Sample Id: 575365-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00205	0.102	0.0854	84	0.0925	90	70-130	8	35	mg/kg	02.05.18 08:41	
Toluene	<0.00205	0.102	0.0855	84	0.0937	91	70-130	9	35	mg/kg	02.05.18 08:41	
Ethylbenzene	<0.00205	0.102	0.0905	89	0.0993	96	71-129	9	35	mg/kg	02.05.18 08:41	
m,p-Xylenes	<0.00409	0.205	0.176	86	0.194	95	70-135	10	35	mg/kg	02.05.18 08:41	
o-Xylene	<0.00205	0.102	0.0901	88	0.0965	94	71-133	7	35	mg/kg	02.05.18 08:41	
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



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

MS Sample Id: 575036-014 S

Prep Method: SW5030B

Date Prep: 02.05.18

MSD Sample Id: 575036-014 SD

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

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

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

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

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

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



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
 77004-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 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. HNO₃ F. MeOH J. MCAA C.
 H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
 D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
 O. _____

^ Matrix Type Codes

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

REMARKS

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

Run BTEX if TPH <= 100

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
 PM/Attn: Ben J. Arguijo 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: Tristian Payne
 Circle One Event: Daily Weekly Monthly Quarterly
 Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) Run PAH Only on Highest TPH
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
 CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK 1 2 3 4 CLP AFCEE QAPP NELAC
 LA AL NM Other: DoD-ELAP Other: _____
 Relinquished by: _____ Affiliation: Trinity Date: 1-30-18 Time: 2:40pm
 1 Esperanza Gonzalez Mail Services 1-30-18 3:37
 2
 3
 4

TAT Work Days = D Need results by: _____ Time: _____
 Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other
ANALYSES REQUESTED
 Cont Type * VC GC GC GC
 Pres Type** | | |
 Volatiles by 8260 TPH BTEX Chloride
 See Remarks
 EDDs ADAPT SEDD ERPIMS
 COC & Labels Match Incomplete Absent Unclear
 Coolers Temp °C 1 2 3 -1.8
 Lab Use Only YES NO N/A
 Received by: _____ Affiliation: Mail Services Date: 1-30-18 Time: 2:40
 _____ Xenco 01-31-18 11:30

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



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
prool-c

Page 2 of 2

LAB W.O #:

Field billable Hrs:

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC Phone: (575)390-7208
Address: P.O. Box 2587 Fax:
City: Hobbs State: NM Zip: 88241
PM/Attn: Ben J. Arguijo Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: NEL Federal 4 Battery PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

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

ANALYSES REQUESTED

Cont Type * VC GC GC GC
Pres Type** | | |
Example Volatiles by 8260 TPH 8015M BTEX Chloride
Sampler Name: Tristan Payne Circle One Event: Daily Weekly Monthly Quarterly
Semi-Annual Annual N/A

#	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	# Cont	Lab Only:
1	SP-5 @ 10'	1/29/18	1140	S			1		X
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									

See Remarks

Reg. Program / Clean-up Std STATE for Certs & Regs QA/QC Level & Certification
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:
Relinquished by Affiliation Date Time
1 *[Signature]* Trinity 1-30-18 2:40pm
2 *Esperanza Gonzalez* Mail Services 1-30-18 3:37
3
4

EDDs COC & Labels Coolers Temp °C
ADaPT SEDD ERPIMS Match Incomplete Absent Unclear 1 2 3 -1.8
XLS Other:
Received by Affiliation Date Time
Esperanza Gonzalez Mail Services 1-30-18 2:40
Wanneetha Xenco 01-31-18 11:30

Lab Use Only YES NO N/A
Non-Conformances found? _____
Samples intact upon arrival? _____
Received on Wet Ice? _____
Labeled with proper preservatives? _____
Received within holding time? _____
Custody seals intact? _____
VOCs rec'd w/o headspace? _____
Proper containers used? _____
pH verified-acceptable, excd VOCs? _____
Received on time to meet HTs? _____

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

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



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



Certificate of Analysis Summary 589610

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL 4 SWD Battery

Project Id:

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Tue Jun-19-18 10:15 am

Report Date: 27-JUN-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	589610-001	589610-002	589610-003	589610-004	589610-005	589610-006
	<i>Field Id:</i>	SB-1/TMW-1 @ 5'	SB-1/TMW-1 @ 10'	SB-1/TMW-1 @ 30'	SB-1/TMW-1 @ 55'	SB-1/TMW-1 @ 60'	SB-2/TMW-1 @ 5'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-11-18 10:30	Jun-11-18 10:32	Jun-11-18 10:40	Jun-12-18 10:05	Jun-12-18 11:10	Jun-12-18 10:40
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-24-18 07:30		Jun-24-18 07:30		Jun-24-18 07:30	Jun-24-18 07:30
	<i>Analyzed:</i>	Jun-24-18 18:25		Jun-24-18 18:44		Jun-24-18 19:02	Jun-24-18 19:20
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL		mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00403 0.00403		<0.00401 0.00401		<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00202 0.00202		<0.00200 0.00200		<0.00199 0.00199	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30
	<i>Analyzed:</i>	Jun-22-18 09:32	Jun-22-18 09:48	Jun-22-18 09:53	Jun-22-18 09:59	Jun-22-18 10:04	Jun-22-18 10:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		800 5.00	121 4.97	4200 25.0	458 4.98	37.5 4.95	3420 24.9
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-21-18 07:00		Jun-21-18 07:00		Jun-21-18 07:00	Jun-21-18 07:00
	<i>Analyzed:</i>	Jun-21-18 09:54		Jun-21-18 10:55		Jun-21-18 11:16	Jun-21-18 11:37
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL		mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0		<15.0 15.0		<15.0 15.0	<14.9 14.9
Diesel Range Organics (DRO)		<15.0 15.0		<15.0 15.0		<15.0 15.0	32.8 14.9
Oil Range Hydrocarbons (ORO)		<15.0 15.0		<15.0 15.0		<15.0 15.0	<14.9 14.9
Total TPH		<15.0 15.0		<15.0 15.0		<15.0 15.0	32.8 14.9

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

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

Holly Taylor
Project Manager



Certificate of Analysis Summary 589610

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL 4 SWD Battery

Project Id:

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Tue Jun-19-18 10:15 am

Report Date: 27-JUN-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	589610-007	589610-008	589610-009	589610-010		
	<i>Field Id:</i>	SB-2/TMW-2 @ 15'	SB-2/TMW-2 @ 30'	SB-2/TMW-2 @ 50'	SB-2/TMW-2 @ 55'		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jun-12-18 10:45	Jun-12-18 11:15	Jun-12-18 11:50	Jun-12-18 11:55		
BTEX by EPA 8021B	<i>Extracted:</i>		Jun-24-18 07:30		Jun-24-18 07:30		
	<i>Analyzed:</i>		Jun-24-18 19:38		Jun-24-18 19:57		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
Benzene			<0.00202 0.00202		<0.00201 0.00201		
Toluene			<0.00202 0.00202		<0.00201 0.00201		
Ethylbenzene			<0.00202 0.00202		<0.00201 0.00201		
m,p-Xylenes			<0.00404 0.00404		<0.00402 0.00402		
o-Xylene			<0.00202 0.00202		<0.00201 0.00201		
Total Xylenes			<0.00202 0.00202		<0.00201 0.00201		
Total BTEX			<0.00202 0.00202		<0.00201 0.00201		
Chloride by EPA 300	<i>Extracted:</i>	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30	Jun-22-18 08:30		
	<i>Analyzed:</i>	Jun-22-18 10:26	Jun-22-18 10:31	Jun-22-18 10:37	Jun-22-18 10:42		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		11.9 4.95	7760 50.0	43.7 4.99	75.1 4.97		
TPH By SW8015 Mod	<i>Extracted:</i>		Jun-21-18 07:00		Jun-21-18 07:00		
	<i>Analyzed:</i>		Jun-21-18 11:57		Jun-21-18 12:18		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
Gasoline Range Hydrocarbons (GRO)			<15.0 15.0		<15.0 15.0		
Diesel Range Organics (DRO)			<15.0 15.0		<15.0 15.0		
Oil Range Hydrocarbons (ORO)			<15.0 15.0		<15.0 15.0		
Total TPH			<15.0 15.0		<15.0 15.0		

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

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

Holly Taylor
Project Manager

Analytical Report 589610

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

NEL 4 SWD Battery

27-JUN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

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

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

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

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)

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

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

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

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



27-JUN-18

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

Reference: XENCO Report No(s): **589610**
NEL 4 SWD Battery
Project Address: 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) 589610. 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. 589610 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Holly Taylor
Project Manager

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

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 589610

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1/TMW-1 @ 5'	S	06-11-18 10:30		589610-001
SB-1/TMW-1 @ 10'	S	06-11-18 10:32		589610-002
SB-1/TMW-1 @ 30'	S	06-11-18 10:40		589610-003
SB-1/TMW-1 @ 55'	S	06-12-18 10:05		589610-004
SB-1/TMW-1 @ 60'	S	06-12-18 11:10		589610-005
SB-2/TMW-2 @ 5'	S	06-12-18 10:40		589610-006
SB-2/TMW-2 @ 15'	S	06-12-18 10:45		589610-007
SB-2/TMW-2 @ 30'	S	06-12-18 11:15		589610-008
SB-2/TMW-2 @ 50'	S	06-12-18 11:50		589610-009
SB-2/TMW-2 @ 55'	S	06-12-18 11:55		589610-010



CASE NARRATIVE

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

Project Name: *NEL 4 SWD Battery*

Project ID:

Work Order Number(s): *589610*

Report Date: *27-JUN-18*

Date Received: *06/19/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3054380 BTEX by EPA 8021B

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



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 5'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-001

Date Collected: 06.12.18 10.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	800	5.00	mg/kg	06.22.18 09.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.21.18 09.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.21.18 09.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.21.18 09.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.21.18 09.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	80	%	70-135	06.21.18 09.54		
o-Terphenyl	84-15-1	83	%	70-135	06.21.18 09.54		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 5'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-001

Date Collected: 06.12.18 10.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.24.18 18.25	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.24.18 18.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	06.24.18 18.25		
1,4-Difluorobenzene	540-36-3	85	%	70-130	06.24.18 18.25		

**Certificate of Analytical Results 589610****Trinity Oilfield Services & Rentals, LLC, Hobbs, NM**

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 10'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-002

Date Collected: 06.12.18 10.32

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	121	4.97	mg/kg	06.22.18 09.48		1



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 30'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-003

Date Collected: 06.12.18 10.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4200	25.0	mg/kg	06.22.18 09.53		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.21.18 10.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.21.18 10.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.21.18 10.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.21.18 10.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	79	%	70-135	06.21.18 10.55		
o-Terphenyl	84-15-1	82	%	70-135	06.21.18 10.55		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 30'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-003

Date Collected: 06.11.18 10.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.24.18 18.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.24.18 18.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	70-130	06.24.18 18.44		
4-Bromofluorobenzene	460-00-4	91	%	70-130	06.24.18 18.44		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 55'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-004

Date Collected: 06.12.18 10.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	458	4.98	mg/kg	06.22.18 09.59		1



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 60'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-005

Date Collected: 06.12.18 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.5	4.95	mg/kg	06.22.18 10.04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.21.18 11.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.21.18 11.16	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.21.18 11.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.21.18 11.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	06.21.18 11.16		
o-Terphenyl	84-15-1	84	%	70-135	06.21.18 11.16		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-1/TMW-1 @ 60'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-005

Date Collected: 06.12.18 11.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.24.18 19.02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.24.18 19.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.24.18 19.02		
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.24.18 19.02		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 5'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-006

Date Collected: 06.12.18 10.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3420	24.9	mg/kg	06.22.18 10.20		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.21.18 11.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	32.8	14.9	mg/kg	06.21.18 11.37		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	06.21.18 11.37	U	1
Total TPH	PHC635	32.8	14.9	mg/kg	06.21.18 11.37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	06.21.18 11.37	
o-Terphenyl	84-15-1	82	%	70-135	06.21.18 11.37	



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 5'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-006

Date Collected: 06.12.18 10.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.24.18 19.20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.24.18 19.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.24.18 19.20		
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.24.18 19.20		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 15'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-007

Date Collected: 06.12.18 10.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.9	4.95	mg/kg	06.22.18 10.26		1



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 30'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-008

Date Collected: 06.12.18 11.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7760	50.0	mg/kg	06.22.18 10.31		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.21.18 11.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.21.18 11.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.21.18 11.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.21.18 11.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	06.21.18 11.57	
o-Terphenyl	84-15-1	81	%	70-135	06.21.18 11.57	



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 30'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-008

Date Collected: 06.12.18 11.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.24.18 19.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.24.18 19.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.24.18 19.38		
1,4-Difluorobenzene	540-36-3	91	%	70-130	06.24.18 19.38		



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 50'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-009

Date Collected: 06.12.18 11.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.7	4.99	mg/kg	06.22.18 10.37		1



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 55'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-010

Date Collected: 06.12.18 11.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.22.18 08.30

Basis: Wet Weight

Seq Number: 3054464

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.1	4.97	mg/kg	06.22.18 10.42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.21.18 07.00

Basis: Wet Weight

Seq Number: 3054457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.21.18 12.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.21.18 12.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.21.18 12.18	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.21.18 12.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	06.21.18 12.18	
o-Terphenyl	84-15-1	77	%	70-135	06.21.18 12.18	



Certificate of Analytical Results 589610



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **SB-2/TMW-2 @ 55'**

Matrix: Soil

Date Received: 06.19.18 10.15

Lab Sample Id: 589610-010

Date Collected: 06.12.18 11.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 06.24.18 07.30

Basis: Wet Weight

Seq Number: 3054380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.24.18 19.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.24.18 19.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	06.24.18 19.57		
1,4-Difluorobenzene	540-36-3	83	%	70-130	06.24.18 19.57		



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Trinity Oilfield Services & Rentals, LLC

NEL 4 SWD Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3054464

MB Sample Id: 7657130-1-BLK

Matrix: Solid

LCS Sample Id: 7657130-1-BKS

Prep Method: E300P

Date Prep: 06.22.18

LCSD Sample Id: 7657130-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	256	102	257	103	90-110	0	20	mg/kg	06.22.18 09:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3054464

Parent Sample Id: 589610-001

Matrix: Soil

MS Sample Id: 589610-001 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589610-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	800	250	1050	100	1060	104	90-110	1	20	mg/kg	06.22.18 09:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3054464

Parent Sample Id: 589611-001

Matrix: Soil

MS Sample Id: 589611-001 S

Prep Method: E300P

Date Prep: 06.22.18

MSD Sample Id: 589611-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	810	250	408	0	408	0	90-110	0	20	mg/kg	06.22.18 10:53	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3054457

MB Sample Id: 7657123-1-BLK

Matrix: Solid

LCS Sample Id: 7657123-1-BKS

Prep Method: TX1005P

Date Prep: 06.21.18

LCSD Sample Id: 7657123-1-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	850	85	856	86	70-135	1	20	mg/kg	06.21.18 09:13	
Diesel Range Organics (DRO)	<15.0	1000	850	85	879	88	70-135	3	20	mg/kg	06.21.18 09:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	76		111		119		70-135	%	06.21.18 09:13
o-Terphenyl	80		96		95		70-135	%	06.21.18 09:13

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

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

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

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



Trinity Oilfield Services & Rentals, LLC

NEL 4 SWD Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3054457

Parent Sample Id: 589610-001

Matrix: Soil

MS Sample Id: 589610-001 S

Prep Method: TX1005P

Date Prep: 06.21.18

MSD Sample Id: 589610-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	827	83	849	85	70-135	3	20	mg/kg	06.21.18 10:14	
Diesel Range Organics (DRO)	<15.0	997	863	87	859	86	70-135	0	20	mg/kg	06.21.18 10:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		114		70-135	%	06.21.18 10:14
o-Terphenyl	90		99		70-135	%	06.21.18 10:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3054380

MB Sample Id: 7657207-1-BLK

Matrix: Solid

LCS Sample Id: 7657207-1-BKS

Prep Method: SW5030B

Date Prep: 06.24.18

LCSD Sample Id: 7657207-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0855	86	0.0956	96	70-130	11	35	mg/kg	06.24.18 16:36	
Toluene	<0.00200	0.0998	0.0878	88	0.101	101	70-130	14	35	mg/kg	06.24.18 16:36	
Ethylbenzene	<0.00200	0.0998	0.0872	87	0.0999	100	70-130	14	35	mg/kg	06.24.18 16:36	
m,p-Xylenes	<0.00399	0.200	0.181	91	0.209	104	70-130	14	35	mg/kg	06.24.18 16:36	
o-Xylene	<0.00200	0.0998	0.0850	85	0.0983	98	70-130	15	35	mg/kg	06.24.18 16:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		89		95		70-130	%	06.24.18 16:36
4-Bromofluorobenzene	79		84		93		70-130	%	06.24.18 16:36

Analytical Method: BTEX by EPA 8021B

Seq Number: 3054380

Parent Sample Id: 589610-001

Matrix: Soil

MS Sample Id: 589610-001 S

Prep Method: SW5030B

Date Prep: 06.24.18

MSD Sample Id: 589610-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0795	80	0.0726	73	70-130	9	35	mg/kg	06.24.18 17:12	
Toluene	<0.00199	0.0996	0.0855	86	0.0791	79	70-130	8	35	mg/kg	06.24.18 17:12	
Ethylbenzene	<0.00199	0.0996	0.0815	82	0.0758	76	70-130	7	35	mg/kg	06.24.18 17:12	
m,p-Xylenes	<0.00398	0.199	0.170	85	0.158	79	70-130	7	35	mg/kg	06.24.18 17:12	
o-Xylene	<0.00199	0.0996	0.0816	82	0.0731	73	70-130	11	35	mg/kg	06.24.18 17:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		74		70-130	%	06.24.18 17:12
4-Bromofluorobenzene	92		82		70-130	%	06.24.18 17:12

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

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

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

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



Environmental • Petroleum • Radiochemistry

CHAIN OF CUSTODY RECORD

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

Page 1 of 1

LAB W.O.#:

589610

Field billable Hrs:

Company: Trinity Oilfield Services & Rentals, LLC		Phone: (575)390-7208	
Address: P.O. Box 2587		Fax:	
City: Hobbs	State: NM	Zip: 88241	
PM/Attn: Ben J. Arguijo		Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com	

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

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

Project ID: NEL 4 SWD Battery	PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828	Quote #:

Sampler Name: Ben J. Arguijo	Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A
------------------------------	--

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Field Integrity	OK (Y/N)	Total # of Containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Lab Only:
1	SB-1/TMW-1 @ 5'	6/11/18	1030	S				1		X	X	X	
2	SB-1/TMW-1 @ 10'	6/11/18	1032	S				1				X	
3	SB-1/TMW-1 @ 30'	6/11/18	1040	S				1		X	X	X	
4	SB-1/TMW-1 @ 55'	6/12/18	1005	S				1				X	
5	SB-1/TMW-1 @ 60'	6/12/18	1110	S				1		X	X	X	
6	SB-2/TMW-2 @ 5'	6/12/18	1040	S				1		X	X	X	
7	SB-2/TMW-2 @ 15'	6/12/18	1045	S				1				X	
8	SB-2/TMW-2 @ 30'	6/12/18	1115	S				1		X	X	X	
9	SB-2/TMW-2 @ 50'	6/12/18	1150	S				1				X	
10	SB-2/TMW-2 @ 55'	6/12/18	1155	S				1		X	X	X	

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADAPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1-1.9 2 1283 0.0	Non-Conformances found? Samples intact upon arrival?

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Trinity	6/18/18	1445	Tristan Payne	Trinity	6/18/18	1445
2	Trinity	6/18/18	1502	Brittany Cox	Brittany	6/18/18	304
3				Kate Pfeiffer	Xenco	6/19/18	10:15
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

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

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

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

REMARKS

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

Revision Date: Nov 12, 2009

ORIGIN ID: H0BA (575) 392-7550

**
MAIL SERVICES ETC, LLC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP DATE: 18JUN18
ACTWGT: 24.00 LB MAN
CAD: 0909328/CAFE3111.
DIMS: 17x15x12 IN

BILL RECIPIENT

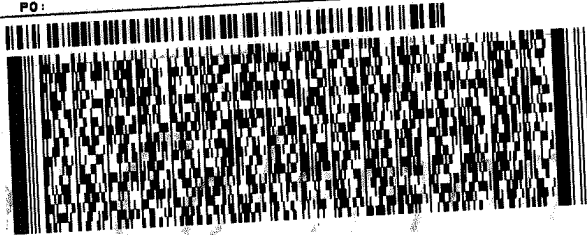
TO XENCO LABORATORIES
XENCO LABORATORIES
1211 W FLORIDA AVE

MIDLAND TX 79701

(432) 563-1800

REF:

DEPT:

INV:
PO:FedEx
Express546C2/33DF/53C1
J171016102001uvTRK#
0201

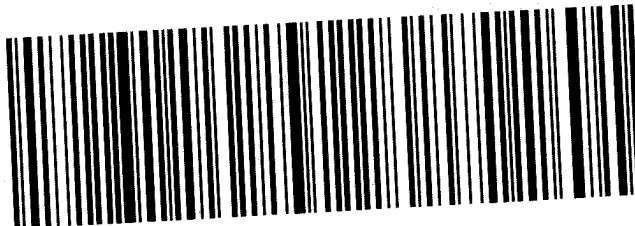
6606 3917 1276

TUE - 19 JUN 10:30A
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB

Part # 156148-434 RRD 09/16





Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 06/19/2018 10:15:00 AM

Work Order #: 589610

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-1.9	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	No	Relinquished by not signed
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 06/19/2018

Checklist reviewed by:

Brandi Ritcherson

Date: 06/19/2018



Certificate of Analysis Summary 594409

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL 4 SWD Battery

Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Aug-02-18 10:28 am

Report Date: 03-AUG-18

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	594409-001	594409-002	594409-003	594409-004	594409-005	594409-006
	Field Id:	Wall-1b	Wall-1c	Wall-2d	Wall-3b	Wall-4a	Wall-5a
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-26-18 00:00	Jul-26-18 00:00	Jul-27-18 00:00	Jul-27-18 00:00	Jul-27-18 00:00	Jul-27-18 00:00
BTEX by EPA 8021B	Extracted:	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00
	Analyzed:	Aug-02-18 23:45	Aug-03-18 00:06	Aug-03-18 00:27	Aug-03-18 00:48	Aug-03-18 01:10	Aug-03-18 01:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00403 0.00403	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	Extracted:	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10
	Analyzed:	Aug-03-18 00:34	Aug-03-18 00:54	Aug-03-18 01:01	Aug-03-18 01:08	Aug-03-18 01:14	Aug-03-18 01:21
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		520 5.02	114 4.98	<4.98 4.98	192 4.98	7860 50.1	6280 49.9
TPH By SW8015 Mod	Extracted:	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00
	Analyzed:	Aug-02-18 18:58	Aug-02-18 19:57	Aug-02-18 20:17	Aug-02-18 20:36	Aug-02-18 20:56	Aug-02-18 21:16
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0

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

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

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 594409

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL 4 SWD Battery

Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Aug-02-18 10:28 am

Report Date: 03-AUG-18

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	594409-007	594409-008	594409-009	594409-010	594409-011	594409-012
	<i>Field Id:</i>	Wall-6a	Wall-7a	Wall-8b	Wall-8e	Wall-8i	Wall-8j
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-27-18 00:00	Jul-27-18 00:00	Jul-27-18 00:00	Jul-30-18 00:00	Jul-30-18 00:00	Jul-30-18 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00
	<i>Analyzed:</i>	Aug-03-18 01:51	Aug-03-18 02:12	Aug-03-18 02:33	Aug-03-18 02:54	Aug-03-18 03:56	Aug-03-18 04:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00404 0.00404	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00201 0.00201	0.00450 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	0.00450 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	0.00450 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10	Aug-02-18 16:10
	<i>Analyzed:</i>	Aug-03-18 01:48	Aug-03-18 01:55	Aug-03-18 02:15	Aug-03-18 02:21	Aug-03-18 01:28	Aug-03-18 02:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8760 49.8	4270 25.1	1740 25.1	832 50.1	562 5.00	290 5.00
TPH By SW8015 Mod	<i>Extracted:</i>	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00	Aug-02-18 14:00
	<i>Analyzed:</i>	Aug-02-18 21:35	Aug-02-18 21:55	Aug-02-18 22:14	Aug-02-18 22:34	Aug-02-18 23:32	Aug-02-18 23:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	17.6 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	195 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<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		<15.0 15.0	213 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 594409

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: NEL 4 SWD Battery

Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Thu Aug-02-18 10:28 am

Report Date: 03-AUG-18

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	594409-013	594409-014				
	Field Id:	Wall-9b	Wall-9f				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Jul-27-18 00:00	Jul-27-18 00:00				
BTEX by EPA 8021B	Extracted:	Aug-02-18 14:00	Aug-02-18 14:00				
	Analyzed:	Aug-03-18 04:36	Aug-03-18 04:57				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00201 0.00201				
Toluene		<0.00200 0.00200	<0.00201 0.00201				
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201				
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402				
o-Xylene		<0.00200 0.00200	<0.00201 0.00201				
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201				
Total BTEX		<0.00200 0.00200	<0.00201 0.00201				
Chloride by EPA 300	Extracted:	Aug-02-18 16:10	Aug-02-18 16:10				
	Analyzed:	Aug-03-18 02:35	Aug-03-18 02:41				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		799 50.1	34.2 5.00				
TPH By SW8015 Mod	Extracted:	Aug-02-18 14:00	Aug-02-18 14:00				
	Analyzed:	Aug-03-18 00:11	Aug-03-18 00:31				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9				
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9				
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<14.9 14.9				
Total TPH		<15.0 15.0	<14.9 14.9				

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

Jessica Kramer
Project Assistant

Analytical Report 594409

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

NEL 4 SWD Battery

03-AUG-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



03-AUG-18

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

Reference: XENCO Report No(s): **594409**
NEL 4 SWD 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) 594409. 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. 594409 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 594409

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Wall-1b	S	07-26-18 00:00		594409-001
Wall-1c	S	07-26-18 00:00		594409-002
Wall-2d	S	07-27-18 00:00		594409-003
Wall-3b	S	07-27-18 00:00		594409-004
Wall-4a	S	07-27-18 00:00		594409-005
Wall-5a	S	07-27-18 00:00		594409-006
Wall-6a	S	07-27-18 00:00		594409-007
Wall-7a	S	07-27-18 00:00		594409-008
Wall-8b	S	07-27-18 00:00		594409-009
Wall-8e	S	07-30-18 00:00		594409-010
Wall-8i	S	07-30-18 00:00		594409-011
Wall-8j	S	07-30-18 00:00		594409-012
Wall-9b	S	07-27-18 00:00		594409-013
Wall-9f	S	07-27-18 00:00		594409-014

**CASE NARRATIVE****Client Name: Trinity Oilfield Services & Rentals, LLC****Project Name: NEL 4 SWD Battery**

Project ID:
Work Order Number(s): 594409

Report Date: 03-AUG-18
Date Received: 08/02/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3058721 BTEX by EPA 8021B

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

Lab Sample ID 594409-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Ethylbenzene, m,p-Xylenes recovered below QC limits in the Matrix Spike. o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 594409-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014.

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



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-1b**
Lab Sample Id: 594409-001

Matrix: Soil
Date Collected: 07.26.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	520	5.02	mg/kg	08.03.18 00.34		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 18.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 18.58	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 18.58	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 18.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-135	08.02.18 18.58		
o-Terphenyl	84-15-1	90	%	70-135	08.02.18 18.58		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-1b**
Lab Sample Id: 594409-001

Matrix: Soil
Date Collected: 07.26.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.02.18 23.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.02.18 23.45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.02.18 23.45		
4-Bromofluorobenzene	460-00-4	93	%	70-130	08.02.18 23.45		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-1c**
Lab Sample Id: 594409-002

Matrix: Soil
Date Collected: 07.26.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	4.98	mg/kg	08.03.18 00.54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 19.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 19.57	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 19.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 19.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	08.02.18 19.57	
o-Terphenyl	84-15-1	89	%	70-135	08.02.18 19.57	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-1c**
Lab Sample Id: 594409-002

Matrix: Soil
Date Collected: 07.26.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.03.18 00.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.03.18 00.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.03.18 00.06		
4-Bromofluorobenzene	460-00-4	95	%	70-130	08.03.18 00.06		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-2d**
Lab Sample Id: 594409-003

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	08.03.18 01.01	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 20.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 20.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 20.17	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 20.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	08.02.18 20.17	
o-Terphenyl	84-15-1	92	%	70-135	08.02.18 20.17	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-2d**
Lab Sample Id: 594409-003

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.03.18 00.27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.03.18 00.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.03.18 00.27		
4-Bromofluorobenzene	460-00-4	85	%	70-130	08.03.18 00.27		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-3b**
Lab Sample Id: 594409-004

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	192	4.98	mg/kg	08.03.18 01.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 20.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 20.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 20.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 20.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	08.02.18 20.36	
o-Terphenyl	84-15-1	92	%	70-135	08.02.18 20.36	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-3b**
Lab Sample Id: 594409-004

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.03.18 00.48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.03.18 00.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	08.03.18 00.48		
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.03.18 00.48		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-4a**
Lab Sample Id: 594409-005

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7860	50.1	mg/kg	08.03.18 01.14		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.02.18 20.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.02.18 20.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.02.18 20.56	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.02.18 20.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	08.02.18 20.56	
o-Terphenyl	84-15-1	90	%	70-135	08.02.18 20.56	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-4a**
Lab Sample Id: 594409-005

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.03.18 01.10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.03.18 01.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.03.18 01.10		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.03.18 01.10		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-5a**
Lab Sample Id: 594409-006

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6280	49.9	mg/kg	08.03.18 01.21		10

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 21.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 21.16	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 21.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 21.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	08.02.18 21.16	
o-Terphenyl	84-15-1	92	%	70-135	08.02.18 21.16	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-5a**
Lab Sample Id: 594409-006

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.03.18 01.31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.03.18 01.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.03.18 01.31		
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.03.18 01.31		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-6a**
Lab Sample Id: 594409-007

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8760	49.8	mg/kg	08.03.18 01.48		10

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 21.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 21.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 21.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 21.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	08.02.18 21.35	
o-Terphenyl	84-15-1	91	%	70-135	08.02.18 21.35	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-6a**
Lab Sample Id: 594409-007

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.03.18 01.51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.03.18 01.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.03.18 01.51		
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.03.18 01.51		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-7a**
Lab Sample Id: 594409-008

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4270	25.1	mg/kg	08.03.18 01.55		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	17.6	15.0	mg/kg	08.02.18 21.55		1
Diesel Range Organics (DRO)	C10C28DRO	195	15.0	mg/kg	08.02.18 21.55		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 21.55	U	1
Total TPH	PHC635	213	15.0	mg/kg	08.02.18 21.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	08.02.18 21.55	
o-Terphenyl	84-15-1	93	%	70-135	08.02.18 21.55	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-7a**
Lab Sample Id: 594409-008

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.03.18 02.12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.03.18 02.12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.03.18 02.12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.03.18 02.12	U	1
o-Xylene	95-47-6	0.00450	0.00199	mg/kg	08.03.18 02.12		1
Total Xylenes	1330-20-7	0.00450	0.00199	mg/kg	08.03.18 02.12		1
Total BTEX		0.00450	0.00199	mg/kg	08.03.18 02.12		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.03.18 02.12		
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.03.18 02.12		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8b**
Lab Sample Id: 594409-009

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1740	25.1	mg/kg	08.03.18 02.15		5

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 22.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 22.14	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 22.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 22.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	08.02.18 22.14	
o-Terphenyl	84-15-1	90	%	70-135	08.02.18 22.14	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8b**
Lab Sample Id: 594409-009

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.03.18 02.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.03.18 02.33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.03.18 02.33		
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.03.18 02.33		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8e**
Lab Sample Id: 594409-010

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	832	50.1	mg/kg	08.03.18 02.21		10

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 22.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 22.34	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 22.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 22.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	08.02.18 22.34	
o-Terphenyl	84-15-1	90	%	70-135	08.02.18 22.34	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8e**
Lab Sample Id: 594409-010

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.03.18 02.54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.03.18 02.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.03.18 02.54		
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.03.18 02.54		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8i**
Lab Sample Id: 594409-011

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	562	5.00	mg/kg	08.03.18 01.28		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 23.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 23.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 23.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 23.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	08.02.18 23.32		
o-Terphenyl	84-15-1	89	%	70-135	08.02.18 23.32		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8i**
Lab Sample Id: 594409-011

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.03.18 03.56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.03.18 03.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.03.18 03.56		
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.03.18 03.56		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8j**
Lab Sample Id: 594409-012

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 08.02.18 16.10

Basis: Wet Weight

Seq Number: 3058733

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	290	5.00	mg/kg	08.03.18 02.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058799

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.02.18 23.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.02.18 23.52	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.02.18 23.52	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.02.18 23.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	08.02.18 23.52	
o-Terphenyl	84-15-1	88	%	70-135	08.02.18 23.52	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-8j**
Lab Sample Id: 594409-012

Matrix: Soil
Date Collected: 07.30.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.03.18 04.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.03.18 04.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.03.18 04.16		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.03.18 04.16		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-9b**
Lab Sample Id: 594409-013

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	799	50.1	mg/kg	08.03.18 02.35		10

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	08.03.18 00.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	08.03.18 00.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	08.03.18 00.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	08.03.18 00.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	08.03.18 00.11	
o-Terphenyl	84-15-1	90	%	70-135	08.03.18 00.11	



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-9b**
Lab Sample Id: 594409-013

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.03.18 04.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.03.18 04.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.03.18 04.36		
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.03.18 04.36		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-9f**
Lab Sample Id: 594409-014

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3058733

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 16.10

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.2	5.00	mg/kg	08.03.18 02.41		1

Analytical Method: TPH By SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3058799

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

Date Prep: 08.02.18 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	08.03.18 00.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	08.03.18 00.31	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	08.03.18 00.31	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	08.03.18 00.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	08.03.18 00.31		
o-Terphenyl	84-15-1	99	%	70-135	08.03.18 00.31		



Certificate of Analytical Results 594409



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

NEL 4 SWD Battery

Sample Id: **Wall-9f**
Lab Sample Id: 594409-014

Matrix: Soil
Date Collected: 07.27.18 00.00

Date Received: 08.02.18 10.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 08.02.18 14.00

Basis: Wet Weight

Seq Number: 3058721

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.03.18 04.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.03.18 04.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	08.03.18 04.57		
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.03.18 04.57		



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Trinity Oilfield Services & Rentals, LLC

NEL 4 SWD Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3058733

MB Sample Id: 7659662-1-BLK

Matrix: Solid

LCS Sample Id: 7659662-1-BKS

Prep Method: E300P

Date Prep: 08.02.18

LCSD Sample Id: 7659662-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	272	109	273	109	90-110	0	20	mg/kg	08.02.18 23:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3058733

Parent Sample Id: 594409-011

Matrix: Soil

MS Sample Id: 594409-011 S

Prep Method: E300P

Date Prep: 08.02.18

MSD Sample Id: 594409-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	562	250	819	103	815	101	90-110	0	20	mg/kg	08.03.18 01:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3058733

Parent Sample Id: 594413-005

Matrix: Soil

MS Sample Id: 594413-005 S

Prep Method: E300P

Date Prep: 08.02.18

MSD Sample Id: 594413-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	-0.511	295	346	117	325	110	90-110	6	20	mg/kg	08.03.18 00:01	X

Analytical Method: TPH By SW8015 Mod

Seq Number: 3058799

MB Sample Id: 7659678-1-BLK

Matrix: Solid

LCS Sample Id: 7659678-1-BKS

Prep Method: TX1005P

Date Prep: 08.02.18

LCSD Sample Id: 7659678-1-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)	5.92	1000	1040	104	952	95	70-135	9	20	mg/kg	08.02.18 18:18	
Diesel Range Organics (DRO)	4.16	1000	1080	108	976	98	70-135	10	20	mg/kg	08.02.18 18:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		126		122		70-135	%	08.02.18 18:18
o-Terphenyl	102		108		104		70-135	%	08.02.18 18:18

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

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

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

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



Trinity Oilfield Services & Rentals, LLC

NEL 4 SWD Battery

Analytical Method: TPH By SW8015 Mod

Seq Number: 3058799

Parent Sample Id: 594409-001

Matrix: Soil

MS Sample Id: 594409-001 S

Prep Method: TX1005P

Date Prep: 08.02.18

MSD Sample Id: 594409-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	7.88	998	893	89	927	92	70-135	4	20	mg/kg	08.02.18 19:18	
Diesel Range Organics (DRO)	2.16	998	906	91	959	96	70-135	6	20	mg/kg	08.02.18 19:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		118		70-135	%	08.02.18 19:18
o-Terphenyl	98		102		70-135	%	08.02.18 19:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058721

MB Sample Id: 7659654-1-BLK

Matrix: Solid

LCS Sample Id: 7659654-1-BKS

Prep Method: SW5030B

Date Prep: 08.02.18

LCSD Sample Id: 7659654-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.107	107	0.0979	97	70-130	9	35	mg/kg	08.02.18 21:41	
Toluene	<0.00201	0.100	0.102	102	0.0937	93	70-130	8	35	mg/kg	08.02.18 21:41	
Ethylbenzene	<0.00201	0.100	0.109	109	0.0989	98	70-130	10	35	mg/kg	08.02.18 21:41	
m,p-Xylenes	<0.00402	0.201	0.225	112	0.204	101	70-130	10	35	mg/kg	08.02.18 21:41	
o-Xylene	<0.00201	0.100	0.108	108	0.0980	97	70-130	10	35	mg/kg	08.02.18 21:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		126		114		70-130	%	08.02.18 21:41
4-Bromofluorobenzene	90		98		95		70-130	%	08.02.18 21:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3058721

Parent Sample Id: 594409-001

Matrix: Soil

MS Sample Id: 594409-001 S

Prep Method: SW5030B

Date Prep: 08.02.18

MSD Sample Id: 594409-001 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	0.0800	79	0.0883	88	70-130	10	35	mg/kg	08.02.18 22:22	
Toluene	<0.00202	0.101	0.0757	75	0.0801	80	70-130	6	35	mg/kg	08.02.18 22:22	
Ethylbenzene	<0.00202	0.101	0.0685	68	0.0704	70	70-130	3	35	mg/kg	08.02.18 22:22	X
m,p-Xylenes	<0.00403	0.202	0.136	67	0.140	70	70-130	3	35	mg/kg	08.02.18 22:22	X
o-Xylene	<0.00202	0.101	0.0667	66	0.0667	67	70-130	0	35	mg/kg	08.02.18 22:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	122		125		70-130	%	08.02.18 22:22
4-Bromofluorobenzene	108		99		70-130	%	08.02.18 22:22

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

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

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

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



CHAIN OF CUSTODY RECORD

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

Page 1 of 2

LAB W.O # :

Field billable Hrs :

* Container Type Codes

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

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

** Preservative Type Codes

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

^ Matrix Type Codes

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

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC		Phone: (575)390-7208	
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 4 SWD Battery		PO#:	
Invoice To: Oxy - Wade Dittrich (575)390-2828		Quote #:	
Sampler Name: Tristan Payne		Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A	

TAT Work Days = D

Need results by: _____ Time: _____

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

ANALYSES REQUESTED

[illegible]

Hold Sample

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Lab # or Field Comments
1	Wall-1b	7/26/18	1245	S			1
2	Wall-1c	7/26/18	1255	S			1
3	Wall-2d	7/27/18	1200	S			1
4	Wall-3b	7/27/18	1330	S			1
5	Wall-4a	7/27/18	1340	S			1
6	Wall-5a	7/27/18	1345	S			1
7	Wall-6a	7/27/18	1350	S			1
8	Wall-7a	7/27/18	1355	S			1
9	Wall-8b	7/27/18	1405	S			1
0	Wall-8e	7/30/18	1055	S			1

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	ADaPT	SEDD	ERPIMS	Match	Incomplete			1	2	3	4	Non-Conformances found?			
															XLS Other:			Absent	Unclear							Samples intact upon arrival?			
1																										Received on Wet Ice?			
2																										Labeled with proper preservatives?			
3																										Received within holding time?			
4																										Custody seals intact?			
																										VOCs rec'd w/o headspace?			
																										Proper containers used?			
																										pH verified-acceptable, excl VOCs?			
																										Received on time to meet HTs?			

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

C.O.C. Serial #

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

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

Revision Date: Nov 12, 2009

Tracking # led to



CHAIN OF CUSTODY RECORD

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;rood-c

Page 2 of 2

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Field billable Hrs :

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40ml, 125 ml, 250 ml, 500 ml, 1L, Other

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D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O.

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OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

REMARKS

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Project ID: NEL 4 SWD Battery		PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828		Quote #:

TAT Work Days = D

Need results by: _____ Time: _____

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

ANALYSES REQUESTED

Cont Type *	GC	GC	GC						
Pres Type**	I	I	I						
Example Volatiles by B260	TPH 8015M	BTEX	Chloride						

Hold Sample	Run PAM
(CALL.....)	

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

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^A	Field Filtered	Integrity OK (Y/N)	Total # of containers
1	Wall-8i	7/30/18	1145	S			1
2	Wall-8j	7/30/18	1155	S			1
3	Wall-9b	7/27/18	1415	S			1
4	Wall-9f	7/27/18	1505	S			1
5							
6							
7							
8							
9							
0							

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP DoD-ELAP Other:

AFCEE QAPP NELAC	ADaPT SEDD ERPIMS
	XLS Other:

COC & Labels	
Match	Incomplete
Absent	Unclear

Coolers Temp °C		
1	2	3

	Lab Use Only	YES	NO	N/A
Non-Conformances found?		___	___	___
Samples intact upon arrival?		___	___	___

	Relinquished by	Affiliation	Date
1		Trinity	7/3/18
2			
3			
4			

Time	Received by
4:55pm	Brittany Cox

Affiliation	
MS	

Date	Time
7/31	4:5

7	Received on Wet Ice?	_____
	Labeled with proper preservatives?	_____
	Received within holding time?	_____
	Custody seals intact?	_____
	VOCs rec'd w/o headspace?	_____
	Proper containers used?	_____
	pH verified-acceptable, excl VOCs?	_____
Received on time to meet HITs?	_____	

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

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Revision Date: Nov 12, 2009

Final 1.000

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Released to Imaging: 4/18/2024 7:55:32 AM



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 08/02/2018 10:28:00 AM

Work Order #: 594409

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08/02/2018

Checklist reviewed by:

Jessica Kramer

Date: 08/02/2018

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 333424

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 333424
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1805034361
Incident Name	NAB1805034361 NELL SWD #004 @ 30-015-24424
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-24424] NELL SWD #004

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NELL SWD #004
Date Release Discovered	08/29/2017
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 263 BBL Recovered: 80 BBL Lost: 183 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 333424

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	333424
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/15/2024
--	---

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QUESTIONS, Page 3

Action 333424

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	333424
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 200 and 300 (ft.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	15300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	12300
GRO+DRO (EPA SW-846 Method 8015M)	9430
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/11/2018
On what date will (or did) the final sampling or liner inspection occur	06/11/2018
On what date will (or was) the remediation complete(d)	07/30/2018
What is the estimated surface area (in square feet) that will be reclaimed	6400
What is the estimated volume (in cubic yards) that will be reclaimed	948
What is the estimated surface area (in square feet) that will be remediated	6400
What is the estimated volume (in cubic yards) that will be remediated	948

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 333424

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	333424
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/15/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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District II

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Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

QUESTIONS, Page 5

Action 333424

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	333424
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Site requires further delineation and excavation of the remediation area, but received prior approval to leave in place.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	6400
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	474
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-24424 NELL SWD #004
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/15/2024

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Action 333424

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	333424
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	324332
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2024
What was the (estimated) number of samples that were to be gathered	34
What was the sampling surface area in square feet	6400

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 333424

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 333424
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Request Approved	4/18/2024