

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>80.000</u>	<u>60.000</u>	<u>2.000</u>
Cubic Feet Impacted		<u>800.000</u>
Barrels		<u>142.48</u>
Soil Type		Sand
Bbls Assuming 100% Saturation		<u>28.50</u>
Saturation	Fluid present when squeezed	
Estimated Barrels Released		14.30000

<b>Instructions</b>
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

<b>Measurements</b>	
Length (ft)	80
Width (ft)	60
Depth (in)	2.000









## Remediation Summary and Soil Closure Request

### Spur Energy Partners, LLC Tin Horn 79-80 Main Line

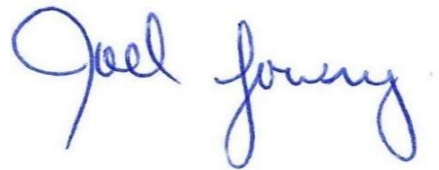
Eddy County, New Mexico  
Unit Letter O, Section 23, Township 17 South, Range 31 East  
Latitude 32.815832 North, Longitude 103.837281 West  
NMOCD Reference No. nAPP2321432080

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
2617 W. Marland  
Hobbs, New Mexico 88240



Robbie Runnels



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;101 Feet</u>		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4, and 5.

On July 9, 2024, a borehole was drilled to a depth of one-hundred and one (101) feet bgs to ensure there was no groundwater to be impacted above there. The borehole stayed open for a period longer than seventy-two (72) hours before being gauged. The borehole was dry at the bottom and was subsequently plugged.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>101	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

### 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>4/19/2024</u>
On what date will (or was) the remediation complete(d)?	<u>4/30/2024</u>
What was the total surface area (sq. ft.) that has or will be remediated?	<u>6,380</u>
What was the total volume (cy) that has or will be remediated?	<u>952</u>
This remediation utilized the following processes to remediate/reduce contaminants:	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>Lea Land, Inc.</u>
NMOCD Disposal Facility ID?	<u>fEEM0112342028</u>
Summarize any additional remediation activities not included by answers above.	<u>See below</u>

On August 21, 2023, Etech conducted an initial site assessment. During this assessment, three (3) hand-augered soil bores (V1, V2 and V3) were advanced within the boundaries of the contaminant release to determine the vertical extent of impacted soil. As the soil bores were advanced, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) using olfactory and visual assessments, and for chloride concentrations using a chloride field test kit.

Based on field observations and test data, nine delineation soil samples (V1@0', V1@2', V1@4', V2@0', V2@2', V2@4', V3@0', V3@2', and V3@4') were submitted to a certified commercial laboratory, hereafter referred to as 'the laboratory', for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene and BTEX concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all submitted samples. TPH concentrations exceeded the applicable NMOCD Closure Criterion and Reclamation Standard in the soil sample V2@0'. Chloride concentrations exceeded the NMOCD Reclamation Standard in all submitted soil samples.

While vertical delineation was achieved for the NMOCD Closure Criteria Standard, further delineation would be required in order to achieve full delineation of 600 mg/kg in the Reclamation Standards.

On April 19, 2024, remediation activities commenced at the Site. In accordance with the NMOCD requirements, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Etech collected eight (8) confirmation soil samples (FL 1 - FL 3, SW 1, NW 1, EW 1, EW 2, WW 1). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples.

On April 22, 2024, excavation activities resumed at the location. Etech collected five (5) confirmation soil samples (FL 4 - FL 6, SW 2, and NW 2). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples.

On April 25, 2024, Etech collected thirteen (13) confirmation soil samples (FL 7 - FL 11, SW 3, NW 3, EW 4 - EW 6, WW 2 - WW 4). In addition, two vertical delineation soil samples (VC @ 11', and VC @ 12') were retrieved to complete vertical delineation for the Site. The collected soil samples were submitted to the for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples.

On April 26, 2024, excavation activities resumed at the location. Etech collected nineteen (19) confirmation soil samples (FL 11 - FL 26, EW 7, NW 3, WW 5). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples.

On April 30, 2024, Etech collected 19 confirmation soil samples (FL 27 - FL 39, NW 4, EW 3, EW 8, EW 9, WW 6, WW 7). The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples. Contaminated soils that were stockpiled were subsequently delivered to an NMOCD approved surface landfill for final disposition.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data is provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of the remediation is provided as Appendix D. Regulatory correspondence are provided as Appendix E. Supplemental C-141 information maps are provided as Appendix F.

The final dimensions of the excavated area were approximately 160 feet in length, 55 to 100 feet in width, and 4 feet in depth. During the course of remediation activities, approximately 952 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

#### Highest Concentrations of Analytes in Soil

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	6,880	V1 @ 4'	8/21/2023	4	Excavated
TPH	2,960	V2 @ 0'	8/21/2023	0	Excavated
GRO+DRO	2,330	V2 @ 0'	8/21/2023	0	Excavated
Benzene	<0.050	All samples	Dates between 8/21/23 and 4/30/24	Various depths between 0' and 12'	In-Situ and Excavated
BTEX	<0.300	All samples	Dates between 8/21/23 and 4/30/24	Various depths between 0' and 12'	In-Situ and Excavated

Please reference Table 1 for additional information.

## 5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the Site.

## 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Spur Energy Partners, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Tin Horn 79-80 Main Line Site.

## 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Spur Energy Partners, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Spur Energy Partners, LLC.

## 8.0 DISTRIBUTION

***Spur Energy Partners, LLC***

*9655 Katy Freeway*

*Suite 500*

*Houston, TX 77024*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 2*

*811 S. First Street*

*Artesia, NM 88210*

***United States Department of the Interior***

*Bureau of Land Management*

*620 E. Greene Street*

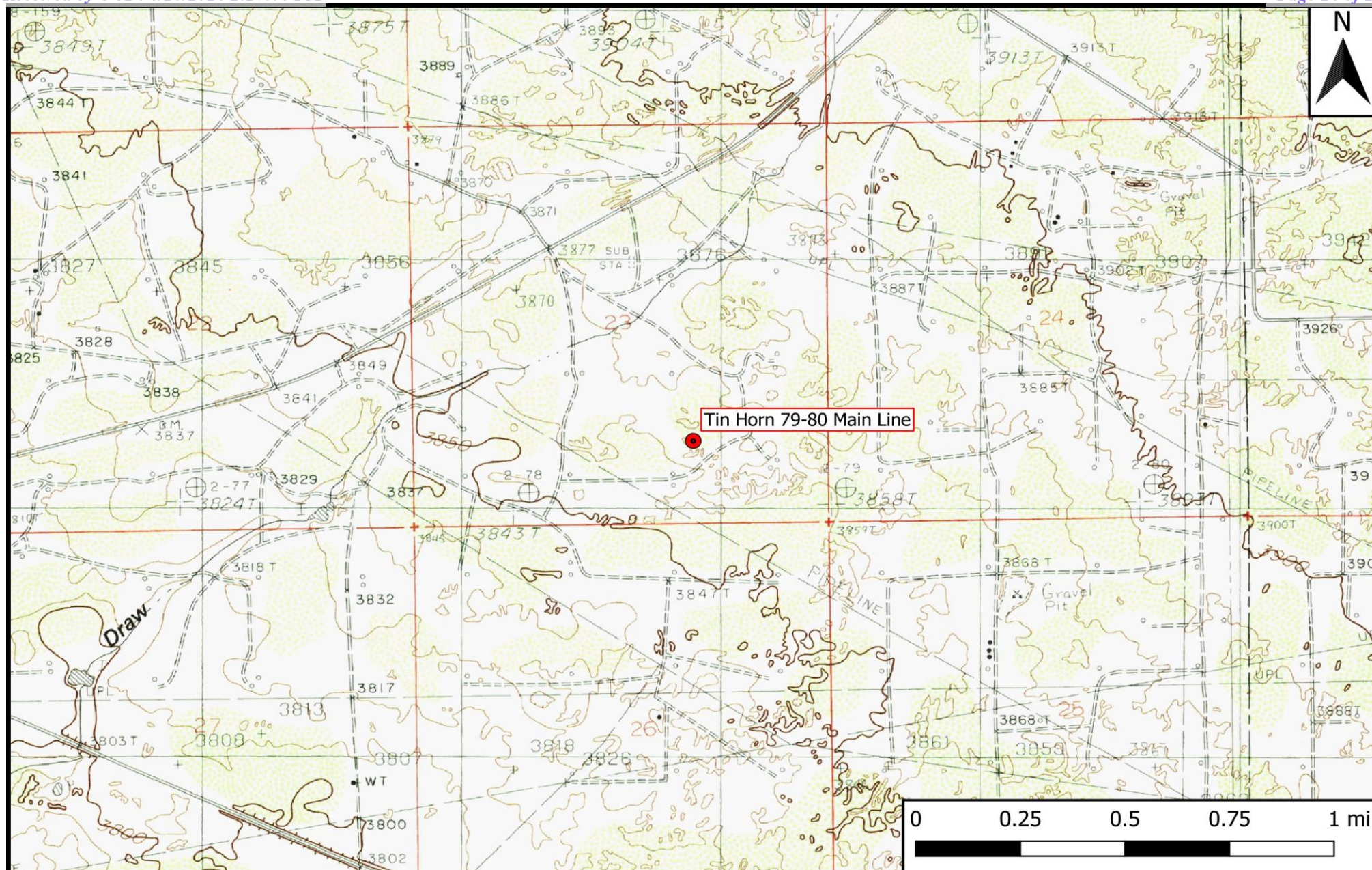
*Carlsbad, NM 88220*

*(Electronic Submission)*



# **Figure 1**

## **Topographic Map**



## Legend

● Site Location

## Figure 1

Topographic Map  
 Spur Energy Partners, LLC  
 Tin Horn 79-80 Main Line  
 GPS: 32.815832, -103.837281  
 Eddy County

**ETECH**

Environmental & Safety Solutions, Inc.



Drafted: mag

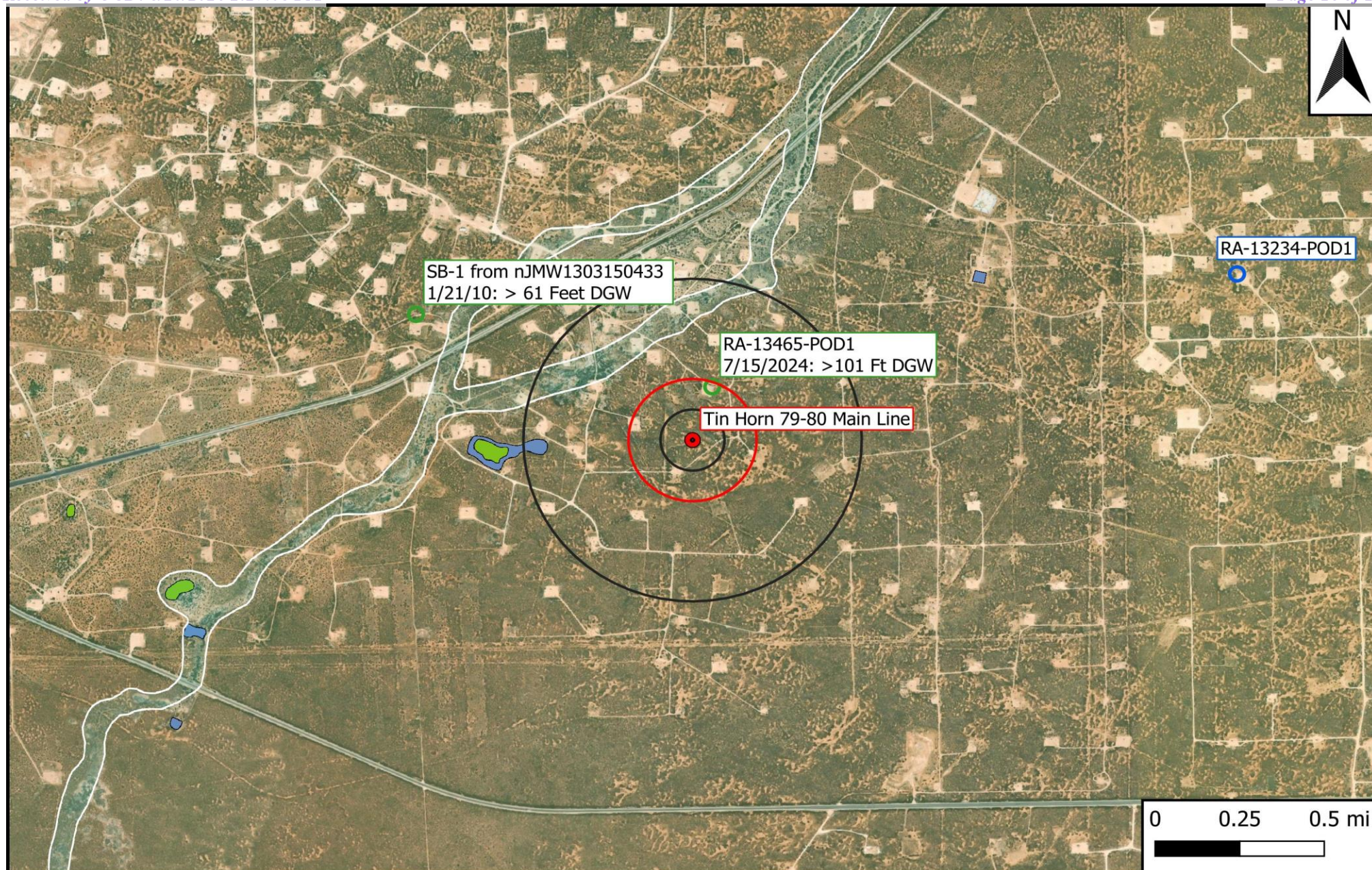
Checked: jwl

Date: 8/2/23

## **Figure 2**

### **Aerial Proximity Map**





- |                        |                              |
|------------------------|------------------------------|
| ● Site Location        | ⋯ 500 Ft Radius              |
| ○ Well - USGS          | ▭ 1000 Ft Radius             |
| ○ Well - NMOSE         | ▭ 0.5 Mi Radius              |
| ○ Well - Other         | ▭ 1% Annual Flood Chance     |
| — Potash Mine Workings | ▭ Lake/Freshwater Pond       |
| ▭ Medium/High Karst    | ▭ Emergent/Forested Wetlands |
|                        | ▭ Riverine                   |

**Figure 2**  
Aerial Proximity Map  
Spur Energy Partners, LLC  
Tin Horn 79-80 Main Line  
GPS: 32.815832, -103.837281  
Eddy County



Drafted: mag

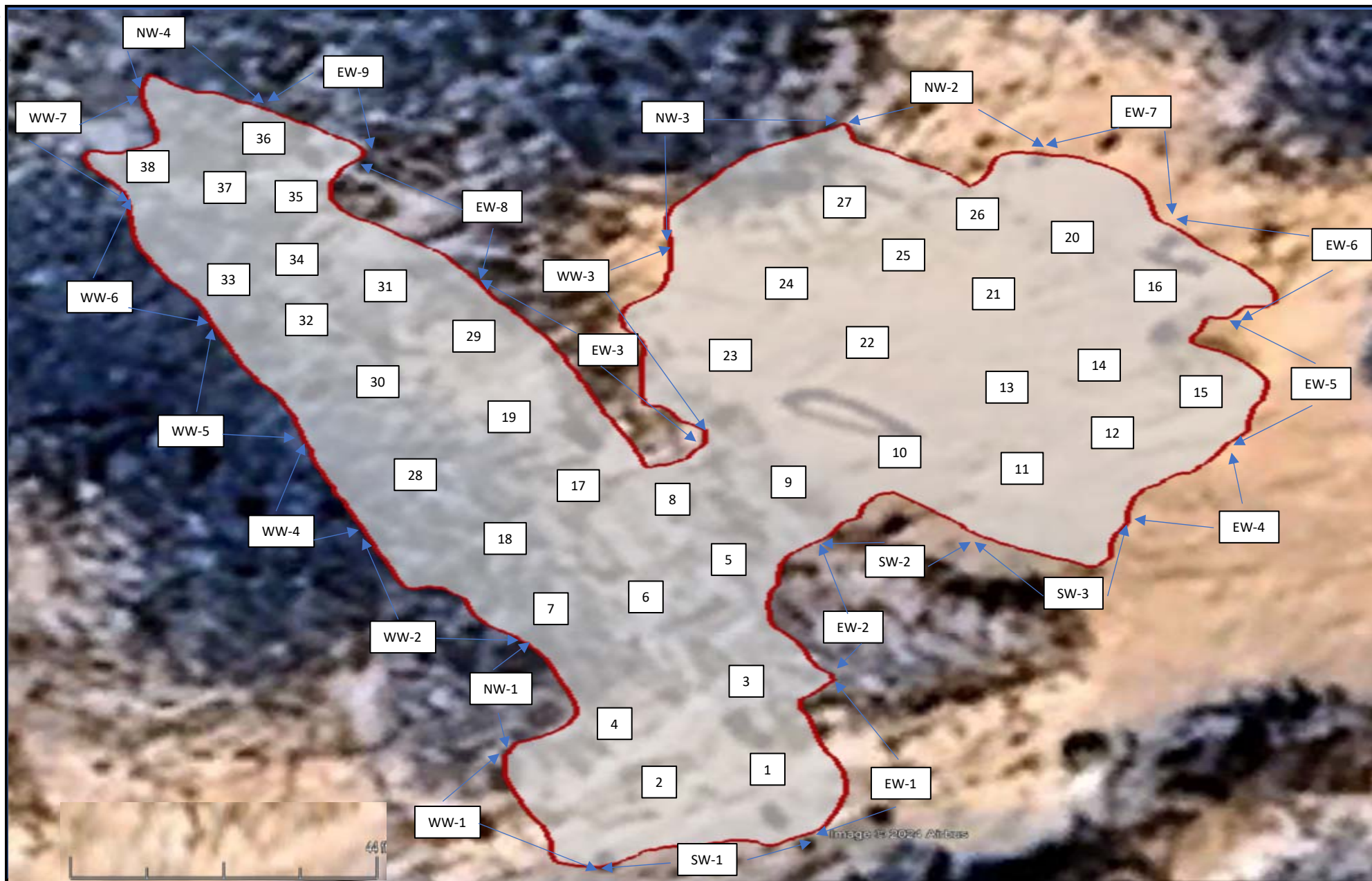
Checked: jwl

Date: 7/19/24



## **Figure 3**

### **Site and Sample Location Map**



**Legend:**

- Floor Sample
- Wall Sample
- Excavated Area

**Figure 3**

Site and Sample Location Map  
 Spur Energy Partners, LLC  
 Tin Horn 79-80 Main Line  
 GPS: 32.815832, -103.837281  
 Eddy County



Drafted:

Checked: jwl

Date:

5/21/24

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 79-80 Main Line**  
**NMOCD Ref. #: nAPP2321432080**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
V1 @ 0'	8/21/2023	0	Excavated	<0.050	<0.300	<10.0	170	170	52.8	223	4,320
V1 @ 2'	8/21/2023	2	Excavated	<0.050	<0.300	<10.0	14.5	14.5	<10.0	14.5	3,920
V1 @ 4'	8/21/2023	4	In-Situ	<0.050	<0.300	<10.0	13.7	13.7	<10.0	13.7	6,880
V2 @ 0'	8/21/2023	0	Excavated	<0.050	<0.300	<10.0	2,330	2,330	629	2,960	944
V2 @ 2'	8/21/2023	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
V2 @ 4'	8/21/2023	4	In-Situ	<0.050	<0.300	<10.0	54.5	54.5	17.9	72.4	6,320
V3 @ 0'	8/21/2023	0	Excavated	<0.050	<0.300	<10.0	207	207	64.9	272	2,000
V3 @ 2'	8/21/2023	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400
V3 @ 4'	8/21/2023	4	In-Situ	<0.050	<0.300	<10.0	375	375	105	480	4,560
VC @ 11'	4/25/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
VC @ 12'	4/25/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 1 @ 4'	4/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,160
FL 2 @ 4'	4/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 3 @ 4'	4/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 4 @ 4'	4/22/2024	4	In-Situ	<0.050	<0.300	<10.0	29.6	29.6	<10.0	29.6	720
FL 5 @ 4'	4/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 6 @ 4'	4/22/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
FL 7 @ 4'	4/25/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,130
FL 8 @ 4'	4/25/2024	4	In-Situ	<0.050	<0.300	<10.0	196	196	60.8	257	1,180
FL 9 @ 4'	4/25/2024	4	In-Situ	<0.050	<0.300	<10.0	60.2	60.2	14.0	74.2	2,200
FL 10 @ 4'	4/25/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
FL 11 @ 4'	4/25/2024	4	In-Situ	<0.050	<0.300	<10.0	23.9	23.9	<10.0	23.9	384
FL 11 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	61.2	61.2	<10.0	61.2	1,810
FL 12 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	898	898	318	1,220	1,280
FL 13 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	156	156	37.1	193	1,960
FL 14 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,350
FL 15 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 16 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 17 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,230
FL 18 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,100
FL 19 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	864
FL 20 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,520
FL 21 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
FL 22 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	31.2	31.2	<10.0	31.2	1,760
FL 23 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	133	133	28.3	161	2,160
FL 24 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	277	277	62.5	340	1,620
FL 25 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	236	236	68.3	304	2,560
FL 26 @ 4'	4/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 27 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
FL 28 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	94.4	94.4	23.8	118	832
FL 29 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Tin Horn 79-80 Main Line**  
**NMOCD Ref. #: nAPP2321432080**

<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>20,000</b>
<b>NMOCD Reclamation Standard</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 30 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	45.1	45.1	<10.0	45.1	832
FL 31 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 32 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	97.1	97.1	21.6	119	640
FL 33 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 34 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL 35 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,380
FL 36 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	261	261	88.7	350	1,600
FL 37 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,760
FL 38 @ 4'	4/30/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,870
EW 1	4/19/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
EW 2	4/19/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 3	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 4	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 5	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EW 6	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 7	4/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 8	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 9	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 1	4/19/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NW 2	4/22/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 3	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW 3	4/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 1	4/19/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 2	4/22/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 3	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 1	4/19/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 2	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 3	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 4	4/25/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	4/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 6	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 7	4/30/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Dash (-): Sample not analyzed for that constituent.

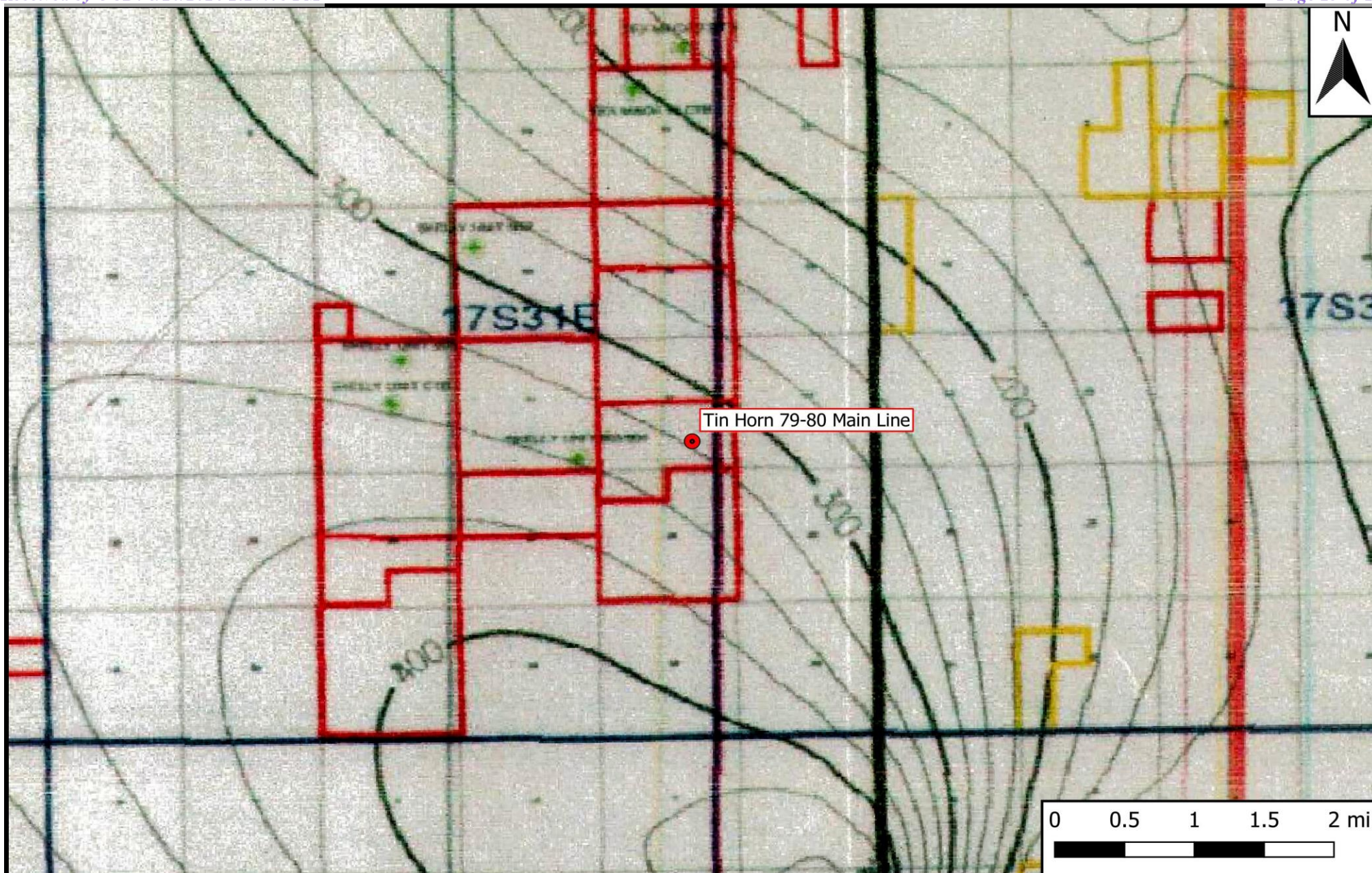
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



**Legend**

- Site Location

**Figure 4**

Inferred Depth to Groundwater Trend Map  
Spur Energy Partners, LLC  
Tin Horn 79-80 Main Line  
GPS: 32.815832, -103.837281  
Eddy County



Drafted: mag

Checked: jwl

Date: 8/2/23



2904 W 2nd St.  
Roswell, NM 88201  
voice: 575.624.2420  
fax: 575.624.2421  
www.atkinseng.com

July 15, 2024

DII-NMOSE  
1900 W 2<sup>nd</sup> Street  
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record RA-13465 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, RA-13456 Pod-1.

If you have any questions, please contact me at 575.499.9244 or [lucas@atkinseng.com](mailto:lucas@atkinseng.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OCD OFF JUL 15 2024 PM 3:45



**WELL RECORD & LOG****OFFICE OF THE STATE ENGINEER****[www.ose.state.nm.us](http://www.ose.state.nm.us)**

OCD 01 JUL 15 2024 #0402

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). RA-13465		
	WELL OWNER NAME(S) Spur Energy Partners LLC				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 9655 Katy Freeway, Suite 500				CITY STATE ZIP Houston TX 77024		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 49	5.56	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	103	50	10.49	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW SE Sec. 23 T17S R31E, NMPM							

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.				
	DRILLING STARTED 07/09/2024		DRILLING ENDED 07/09/2024		DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±101		DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		DATE STATIC MEASURED 07/15/2024	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>			
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO								
	0	101	±6.25	Soil Boring	--	--	--	--		

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO.		POD NO.		TRN NO.	
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, fine-grained, poorly graded, unconsolidated, Light Brown	Y ✓ N	
	14	20	35	Sand, fine-grained, poorly graded, unconsolidated, some caliche Tan	Y ✓ N	
	35	65	30	Sand, fine-grained, poorly graded, semi-consolidated, Red	Y ✓ N	
	65	101	36	Clay, very-fine silt, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. <div style="text-align: right; color: blue;">OCD BY JUL 15 2024 *CJ</div>					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <u>Jack Atkins</u>            Jack Atkins (Jul 15, 2024 13:54 MDT)         </div> <div>           Jackie D. Atkins         </div> <div>           07/15/2024         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div>DATE</div> </div>					

FOR USE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RA-13465 POD-1

Well owner: Spur Energy Partners LLC

Phone No.: \_\_\_\_\_

Mailing address: 9655 Katy Freeway, Suite 500

City: Houston State: TX Zip code: 77024

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Shane Eldridge

4) Date well plugging began: 07/15/2024 Date well plugging concluded: 07/15/2024

5) GPS Well Location: Latitude: 32 deg, 49 min, 5.56 sec  
Longitude: 10 deg, 50 min, 10.49 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),  
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 06/18/2024

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

052007 JUL 15 2024 #01-0

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0-10'	Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
10'-101'	Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

OCD DT JUL 15 2024 14:40

### III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins  
Jack Atkins (Jul 15, 2024 13:54 MDT)

Signature of Well Driller

07/15/2024

Date








# WR-20 Well Record and Log\_2022-01-packet - forsigned

Final Audit Report

2024-07-15

Created:	2024-07-15
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA4PK2GZ5clX4JBb6vjxcw3lfYWFAUn56A

## "WR-20 Well Record and Log\_2022-01-packet -forsigned" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)  
2024-07-15 - 7:42:04 PM GMT
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2024-07-15 - 7:42:50 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)  
2024-07-15 - 7:50:47 PM GMT
-  Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2024-07-15 - 7:54:13 PM GMT - Time Source: server
-  Agreement completed.  
2024-07-15 - 7:54:13 PM GMT

000 000 JUL 15 2024 14:45



Adobe Acrobat Sign



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 608844.57      **Northing (Y):** 3631468.94      **Radius:** 1610

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

8/2/23 10:36 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

## **Appendix B**

### **Field Data**

## Sample Log

Project: Tin Horn 79-80 Main Line

Date:

Project Number: 18540

Latitude: 32.815832

Longitude: -103.837281

[illegible]

Sample Point = SP #1 @ ## etc

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

**Stockpile = Stockpile #1**

GPS Sample Points, Center of Comp Areas



Positive 600 ppm  
100 ppm w/l

# Initial Release Assessment Form

Project: Tin Horn 79-80 Main Line

Project Number: 18540

Clean Up Level:

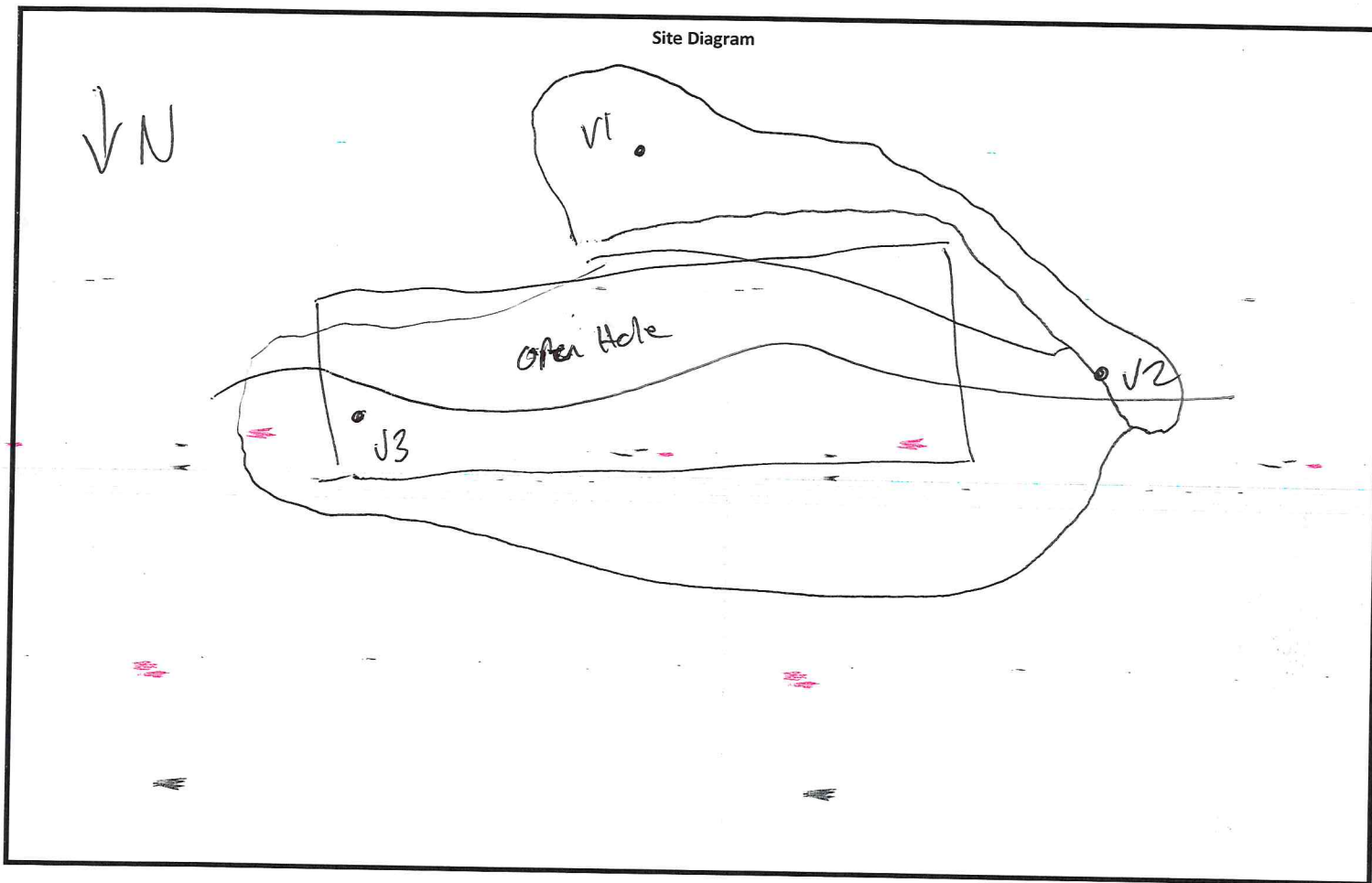
Latitude: 32.815832

Date:

20,000 mg/kg Cl-, 2,500 mg/kg TPH

Longitude: -103.837281

Site Diagram



## Notes:

Notes section with horizontal lines for text entry.

~Length:

~Width:

~Area:

~Depth:

3-4 Representative Pictures of the Affected Area including sample locations?

Yes

No

☐
☐

Necessary Samples Field Screened and on Ice?

☐
☐

Sample and Field Screen Data Entered on Sample Log?

☐
☐

Was horizontal and vertical delineation achieved?

☐
☐



Environmental &amp; Safety Solutions, Inc.



50ft walls

Collect FL every 200 yd.

2 Vertical-till we get clean.

## Sample Log

Date:

4.19.24

Project: Tin Horn 79-80 Main Line

Project Number:

18540

Latitude:

32.815832

Longitude:

-103.837281

Sample ID	PID/Odor	Chloride Conc.	GPS
EW-1	—	196	
SW-1	—	2480	
WW-1	—	2480	
FL-1 @ 4'	—	3244	
SW-1	—	224	
WW-1	—	1372	
WW-1	—	896	
WW-1	—	168	
FL-2 @ 4'	—	1284	
FL-3 @ 4'	—	368	
FW-2	—	1800	
NW-1	—	712	
NW-1	—	368	
FW-2	—	896	
EW-2	—	256	
FL-4 @ 4'	—	832	
WW-2	—	896	
SW-2	—	1284	
NW-2	—	1800	
SW-2	—	408	
NW-2	—	116	
FL-5 @ 4'	—	1932	
FL-6 @ 4'	—	2072	
WW-2	—	652	
WW-2	—	224	
FL-7 @ 4'	—	2192	
WW-3	—	116	
NW-3	—	196	
FL-8 @ 4'	—	1372	
VC FL-8 @ 5'	—	896	
VC-8 @ 6'	—	2984	
VC-8 @ 7'	—	4688	
VC-8 @ 8'	—	3958	
VC-8 @ 9'	—	3116	
VC-8 @ 10'	—	2860	
VC-8 @ 11'	—	2674	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

Project: Tin Horn 79-80 Main Line

Date: 4.24.24

Project Number: 18540

Latitude: 32.815832

Longitude: -103.837281

Sample ID	PID/Odor	Chloride Conc.	GPS
VC @ 12'	—	1808	
SW-3	—	196	
WW-4	—	3608	
EW-3	—	1004	
VC-4 @ 15'	—	1056	
VC-4 @ 16'	—	980	
VC-4 @ 17'	—	1860	
VC-4 @ 18'	—	2480	
VC-2 @ 15'	—	5270	
VC-3 @ 16'	—	1732	
VC-4 @ 17'	—	4324	
VC-5 @ 18'	—	2480	
VC @ 19'	—	2480	
VC @ 20'	—	1992	
VC @ 21'	—	500	
EW-4	—	5480	
EW-4	—	1732	
FL-8 @ 4'	—	1004	
FL-9 @ 4'	—	1408	
EW-4	—	2304	
FW-4	—	1800	
SW-5	—	2480	
EW-4	—	2304	
FW-4	—	2140	
FW-4	—	604	
EW-4	—	368	
EW-5	—	1312	
FL-10 @ 4'	—	2480	
EW-5	—	908	
FW-5	—	840	
EW-5	—	398	
FW-6	—	1312	
EW-6	—	908	
EW-6	—	1004	
FW-6	—	552	
VC-5'	—	2304	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples= SR #1 @ 5b or SW #1b

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

GPS Sample Points, Center of Comp Areas

## Sample Log

Project: Tin Horn 79-80 Main Line

Date: 4.25.24

Project Number: 18540

Latitude: 32.815832

Longitude: -103.837281

Sample ID	PID/Odor	Chloride Conc.	GPS
VC-6'	—	2140	
VC-7'	—	1992	
VC-8'	—	2140	
VC-9'	—	1808	
VC-10'	—	2480	
VC-11'	—	2304	
VC-12'	—	1732	
VC-5'	—	1992	
VC-6'	—	2860	
VC-7	—	908	
VC-8'	—	840	
VC-9	—	908	
VC-10	—	840	
VC-11	—	1220	
VC-12	—	412	
FW-7	—	2480	
EW-7	—	2304	
EW-7	—	2480	
FL-11 @ 4'	—	2140	
FL-12 @ 4'	—	2140	
FL-13 @ 4'	—	2304	
FL-14 @ 4'	—	2480	
FL-15 @ 4'	—	368	
FL-16 @ 4'	—	412	
EW-7	—	1732	
EW-7	—	980	
EW-7	—	604	
EW-7	—	368	
NW-3	—	908	
NW-3	—	228	
WW-5	—	980	
WW-5	—	660	
WW-5	—	228	
FL-17 @ 4'	—	1860	
FL-18 @ 4'	—	1408	
FL-19 @ 4'	—	1732	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

GPS Sample Points, Center of Comp Areas



## Sample Log

Project: Tin Horn 79-80 Main Line

Date: 4.26.24

Project Number: 18540

Latitude: 32.815832

Longitude: -103.837281

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-20 @ 4'	—	980	
FL-21 @ 4'	—	1508	
FL-22 @ 4'	—	1992	
FL-23 @ 4'	—	2024	
FL-24 @ 4'	—	1992	
FL-25 @ 4'	—	2480	
FL-26 @ 4'	—	2140	
FW-3	—	352	
WW-6	—	196	
NW-4	—	1860	
FL-27 @ 4'	—	1992	
FL-28 @ 4'	—	1508	
FL-29 @ 4'	—	1408	
FL-30 @ 4'	—	1408	
FL-31 @ 4'	—	908	
FL-32 @ 4'	—	1732	
FW-8	—	196	
FW-9	—	1312	
FW-9	—	908	
WW-7	—	908	
WW-7	—	228	
FW-9	—	840	
NW-4	—	120	
FW-9	—	1312	
FW-9	—	1508	
FL-33 @ 4'	—	1408	
FL-34 @ 4'	—	1312	
FL-35 @ 4'	—	2480	
FW-9	—	120	
FL-36 @ 4'	—	1992	
FL-37 @ 4'	—	1408	
FL-38 @ 4'	—	1992	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

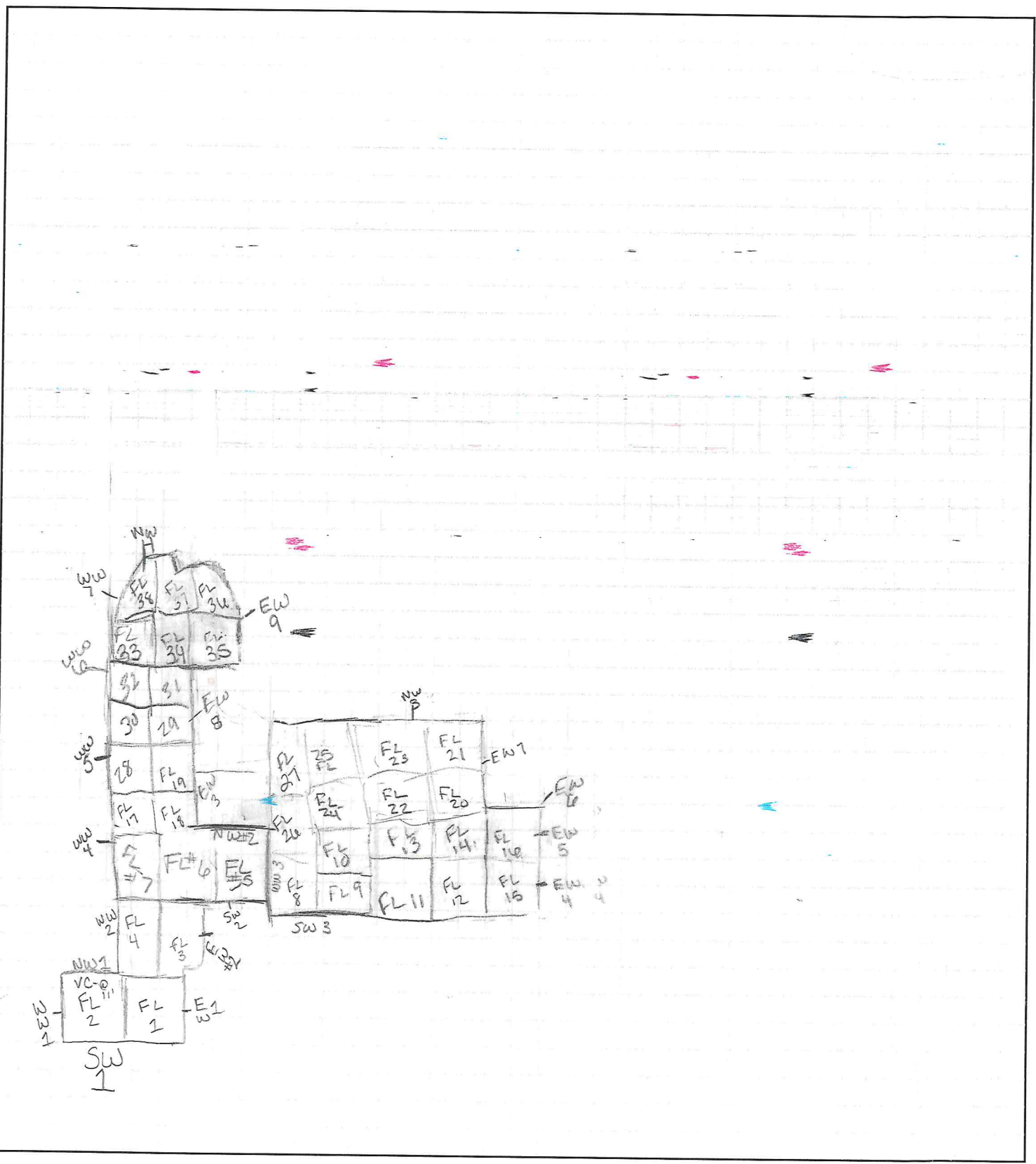


# Field Map

Project Number: 18540

Project: Tin Horn 79-80 Main Line

Date:





## **Appendix C**

### **Laboratory Analytical Reports**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 01, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/30/24 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 27 @ 4' (H242309-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 4' (H242309-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711	
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	94.4	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	23.8	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 29 @ 4' (H242309-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 30 @ 4' (H242309-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	45.1	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 31 @ 4' (H242309-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 32 @ 4' (H242309-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711	
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/01/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	97.1	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	21.6	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 33 @ 4' (H242309-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEx	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 34 @ 4' (H242309-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 35 @ 4' (H242309-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711	
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/01/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 36 @ 4' (H242309-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711	
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	261	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	88.7	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 37 @ 4' (H242309-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 38 @ 4' (H242309-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711	
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664	
Total BTEx	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H242309-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 3 (H242309-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 8 (H242309-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 9 (H242309-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 6 (H242309-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/30/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 7 (H242309-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	0.711		
Toluene*	<0.050	0.050	04/30/2024	ND	2.16	108	2.00	0.491		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	0.785		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.25	104	6.00	0.664		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> Robbie Runnels		<b>P.O. #:</b>											
<b>Address:</b> 2617 W Marland		<b>Company:</b> Spur Energy Partners											
<b>City:</b> Hobbs		<b>Attn:</b> Kathy Purvis											
<b>Phone #:</b> (575) 264-9884		<b>Address:</b>											
<b>Fax #:</b>													
<b>Project #:</b> 18540		<b>City:</b>											
<b>Project Name:</b> Tim Horn 79-80 Main Line		<b>State:</b> NM		<b>Zip:</b>									
<b>Project Location:</b> 32.815832, -103.837281		<b>Phone #:</b>											
<b>Sampler Name:</b> Tania Felts		<b>Fax #:</b>											
<b>FOR LAB USE ONLY</b>													
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>	
								<b>GROUNDWATER</b>					
								<b>WASTEWATER</b>					
								<b>SOIL</b>					
								<b>OIL</b>					
								<b>SLUDGE</b>					
								<b>OTHER :</b>					
								<b>ACID/BASE:</b>					
								<b>ICE / COOL</b>					
								<b>OTHER :</b>					
								<b>DATE</b>		<b>TIME</b>			
1247309		FL 27 @ 4'		C 1		X		4/30/24		X		X	
		FL 28 @ 4'		C 1		X		4/30/24		X		X	
		FL 29 @ 4'		C 1		X		4/30/24		X		X	
		FL 30 @ 4'		C 1		X		4/30/24		X		X	
		FL 31 @ 4'		C 1		X		4/30/24		X		X	
		FL 32 @ 4'		C 1		X		4/30/24		X		X	
		FL 33 @ 4'		C 1		X		4/30/24		X		X	
		FL 34 @ 4'		C 1		X		4/30/24		X		X	
		FL 35 @ 4'		C 1		X		4/30/24		X		X	
		FL 36 @ 4'		C 1		X		4/30/24		X		X	
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<b>Relinquished By:</b>		<b>Date:</b> 04-20-24		<b>Received By:</b>		<b>Date:</b> 04-20-24		<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>			
<b>Relinquished By:</b>		<b>Date:</b> 04-21-24		<b>Received By:</b>		<b>Date:</b> 04-21-24		<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Fax #:</b>			
<b>Delivered By: (Circle One)</b>		<b>Time:</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>REMARKS:</b>					
<b>Sampler - UPS - Bus - Other:</b>				<b>Cool Intact</b>		<b>(Initials)</b>							
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
				<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes									

**RUSH SAMPLES - 24H**

Please email results and copy of CoC to pm@etechenv.com.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006  
Revision 1.0





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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>		ANALYSIS REQUEST									
Project Manager: Robbie Runnels										P.O. #:											
Address: 2617 W Marland										Company		Spur Energy Partners									
City: Hobbs										Attn:		Kathy Purvis									
Phone #: (575) 264-9884										Address:											
Project #: 18540										City:											
Project Name: Tin Horn 79-80 Main Line										State: NM		Zip:									
Project Location: 32.815832, -103.837281										Phone #:											
Sampler Name: Tania Felts										Fax #:											
FOR LAB USE ONLY										PRESERV		SAMPLING									
Lab I.D.										(G)RAB OR (C)OMP.											
Sample I.D.										# CONTAINERS											
										GROUNDWATER											
										WASTEWATER											
										SOIL											
										OIL											
										SLUDGE											
										OTHER :											
										ACID/BASE:											
										ICE / COOL											
										OTHER :											
										DATE		TIME									
H247309										4/30/24		X									
FL 37 @ 4'										X		X									
FL 38 @ 4'										X		X									
NW 4										X		X									
EW 3										X		X									
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-240										X		X									
-241										X		X									
-242										X		X									
-243										X		X									
-244										X		X									
-245										X		X									
-246										X		X									
-247										X		X									
-248										X		X									
-249										X		X									
-250										X		X									
-251										X		X									
-252										X		X									
-253										X		X									
-254										X		X									
-255										X		X									
-256										X		X									
-257										X		X									
-258										X		X									
-259										X		X									
-260										X		X									
-261										X		X									
-262										X		X									
-263										X		X									
-264										X		X									
-265										X		X									
-266										X		X									
-267										X		X									
-268										X		X									
-269										X		X									
-270										X		X									
-271										X		X									
-272										X		X									
-273										X		X									
-274										X		X									
-275										X		X									
-276										X		X									
-277										X		X									
-278										X		X									
-279										X		X									
-280										X		X									
-281										X		X									
-282										X		X									
-283										X		X									
-284										X		X									
-285										X		X									
-286										X		X									
-287										X		X									
-288										X		X									



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 01, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 4' (H242272-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826	
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1810	16.0	04/30/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	207	103	200	0.918	
DRO >C10-C28*	61.2	10.0	04/29/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 4' (H242272-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826		
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	207	103	200	0.918	
DRO >C10-C28*	898	10.0	04/29/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	318	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 4' (H242272-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826	
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	207	103	200	0.918	
DRO >C10-C28*	156	10.0	04/29/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	37.1	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 4' (H242272-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826		
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2350	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 4' (H242272-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826		
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 4' (H242272-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826		
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 4' (H242272-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826	
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	04/30/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 4' (H242272-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	0.826		
Toluene*	<0.050	0.050	04/30/2024	ND	2.20	110	2.00	3.70		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.36	118	2.00	5.10		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	7.23	120	6.00	7.30		
Total BTEx	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 4' (H242272-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 4' (H242272-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 4' (H242272-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 4' (H242272-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60	
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	31.2	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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**Analytical Results For:**

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 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 4' (H242272-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	133	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	28.3	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 4' (H242272-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	277	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	62.5	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 4' (H242272-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60	
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	236	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	68.3	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 4' (H242272-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H242272-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 7 (H242272-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	207	103	200	0.918	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	212	106	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/29/2024  
 Reported: 05/01/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 5 (H242272-19)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.10	105	2.00	7.60		
Toluene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	8.57		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.29	115	2.00	9.30		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.98	116	6.00	10.0		
Total BTX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2024	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	193	96.4	200	3.98	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.  
Project Manager: Robbie Rumeis

Address: 2617 W Marland

City: Hobbs

Phone #: (575) 264-9884

Project #: 18540

Project Name: Tim Horn 79-80 Main Line

Project Location: 32.815832, -103.837281

Sampler Name: Tania Felts

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H848872

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 4-29-24

Time: 1442

Received By:

Date: 4/26/24

Time: 1442

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: - 9,33c

#140

Sample Condition  
☒ Cool ☒ Intact  
☐ Yes ☐ No

CHECKED BY: (Initials)

RUSH SAMPLES - 48H

Please email results and copy of CoC to pm@etechenv.com.

FORM-006  
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476





## ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 30, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/26/24 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 4' (H242255-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11	QM-07	
Total BTEx	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2130	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	210	105	200	0.836	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	214	107	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 4' (H242255-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	210	105	200	0.836	
DRO >C10-C28*	196	10.0	04/30/2024	ND	214	107	200	0.560	
EXT DRO >C28-C36	60.8	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 4' (H242255-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	210	105	200	0.836	
DRO >C10-C28*	60.2	10.0	04/30/2024	ND	214	107	200	0.560	
EXT DRO >C28-C36	14.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 4' (H242255-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2024	ND	210	105	200	0.836	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	214	107	200	0.560	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 4' (H242255-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	23.9	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: VC @ 11' (H242255-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: VC @ 12' (H242255-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H242255-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.7 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 4 (H242255-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 5 (H242255-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/29/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.7 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 6 (H242255-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H242255-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	1.75	87.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2024	ND	1.71	85.5	2.00	2.90		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.69	84.6	2.00	2.36		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	4.94	82.4	6.00	2.11		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H242255-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	2.20	110	2.00	5.47		
Toluene*	<0.050	0.050	04/29/2024	ND	2.13	107	2.00	5.22		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	2.07	104	2.00	4.58		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.07	101	6.00	4.70		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H242255-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/29/2024	ND	2.20	110	2.00	5.47		
Toluene*	<0.050	0.050	04/29/2024	ND	2.13	107	2.00	5.22		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	2.07	104	2.00	4.58		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.07	101	6.00	4.70		
Total BTX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/26/2024  
 Reported: 04/30/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 4 (H242255-15)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2024	ND	2.20	110	2.00	5.47	
Toluene*	<0.050	0.050	04/29/2024	ND	2.13	107	2.00	5.22	
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	2.07	104	2.00	4.58	
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.07	101	6.00	4.70	
Total BTEX	<0.300	0.300	04/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/30/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	201	101	200	3.46	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	196	97.9	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 19





## CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 29, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/23/24 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/23/2024  
 Reported: 04/29/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 4' (H242177-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2024	ND	2.22	111	2.00	4.15	
Toluene*	<0.050	0.050	04/25/2024	ND	1.89	94.5	2.00	8.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	1.91	95.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.82	114	6.00	6.27	
Total BTX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	29.6	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/23/2024  
 Reported: 04/29/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 4' (H242177-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2024	ND	2.22	111	2.00	4.15	
Toluene*	<0.050	0.050	04/25/2024	ND	1.89	94.5	2.00	8.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	1.91	95.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.82	114	6.00	6.27	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	04/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/23/2024  
 Reported: 04/29/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 4' (H242177-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2024	ND	2.22	111	2.00	4.15	
Toluene*	<0.050	0.050	04/25/2024	ND	1.89	94.5	2.00	8.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	1.91	95.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.82	114	6.00	6.27	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/23/2024  
 Reported: 04/29/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H242177-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2024	ND	2.22	111	2.00	4.15	
Toluene*	<0.050	0.050	04/25/2024	ND	1.89	94.5	2.00	8.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	1.91	95.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.82	114	6.00	6.27	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/23/2024  
 Reported: 04/29/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H242177-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2024	ND	2.22	111	2.00	4.15	
Toluene*	<0.050	0.050	04/25/2024	ND	1.89	94.5	2.00	8.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	1.91	95.7	2.00	10.7	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.82	114	6.00	6.27	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/25/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	197	98.7	200	0.715	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	192	96.1	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



**• CARDINAL LABORATORIES**  
101 East Main Street, Suite 100  
St. Paul, MN 55101  
(612) 222-1100

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 26, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/22/24 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 4' (H242129-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 4' (H242129-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 4' (H242129-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 1 (H242129-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248		
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45		
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609		
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167		
Total BTEX	<0.300	0.300	04/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H242129-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H242129-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H242129-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ROBBIE RUNNELS  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 04/22/2024  
 Reported: 04/26/2024  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR 32.815832, -103.837281

Sampling Date: 04/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H242129-08)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.04	102	2.00	0.0248	
Toluene*	<0.050	0.050	04/22/2024	ND	2.02	101	2.00	1.45	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.13	107	2.00	0.609	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.43	107	6.00	0.167	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	210	105	200	0.672	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	206	103	200	0.580	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etch Environmental & Safety Solutions, Inc.		<b>P.O. #:</b>		<b>BILL TO</b>											
<b>Project Manager:</b> Robbie Runnels		<b>Company:</b> Spur Energy Partners		<b>ANALYSIS REQUEST</b>											
<b>Address:</b> 2617 W Marland		<b>Attn:</b> Kathy Purvis													
<b>City:</b> Hobbs	<b>State:</b> NM <b>Zip:</b> 88240	<b>Address:</b>													
<b>Phone #:</b> (575) 264-9884	<b>Fax #:</b>														
<b>Project #:</b> 18540	<b>Project Owner:</b> Spur Energy Partners														
<b>Project Name:</b> Tin Horn 79-80 Main Line		<b>City:</b>													
<b>Project Location:</b> 32.815632, -103.837281		<b>State:</b> NM <b>Zip:</b>													
<b>Sampler Name:</b> Tania Felts		<b>Phone #:</b>													
<b>Fax #:</b>															
<b>FOR LAB USE ONLY</b>															
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>				<b>PRESERV.</b>	<b>SAMPLING</b>						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
1	FL 1 @ 4'	C	1		X								X		
2	FL 2 @ 4'	C	1		X								X		
3	FL 3 @ 4'	C	1		X								X		
4	NW 1	C	1		X								X		
5	EW 1	C	1		X								X		
6	EW 2	C	1		X								X		
7	SW 1	C	1		X								X		
8	WW 1	C	1		X								X		
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<b>Relinquished By:</b>		<b>Date:</b> 4-22-23	<b>Received By:</b>												
<b>Relinquished By:</b>		<b>Time:</b> 1445	<b>Received By:</b>												
<b>Delivered By:</b> (Circle One)		<b>Time:</b>	<b>Received By:</b>												
<b>Sampler - UPS - Bus - Other:</b>		<b>Time:</b>	<b>Received By:</b>												
FORM-006		<b>Sample Condition:</b>	<b>CHECKED BY:</b>												
Revision 1.0		<b>Cool</b> <input checked="" type="checkbox"/> <b>Intact</b> <input checked="" type="checkbox"/>	<b>(Initials)</b>												
		<b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/>	<b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/>												
Please email results and copy of CoC to pm@etechenr.com.															
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476															



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 28, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TIN HORN 79-80 MAIN LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/21/23 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V1 @ 0' (H234529-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/25/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	6.30	105	6.00	2.55	
Total BTX	<0.300	0.300	08/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	170	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	52.8	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V1 @ 2' (H234529-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	08/23/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	14.5	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V1 @ 4' (H234529-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTEX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	13.7	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V2 @ 0' (H234529-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTEX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	2330	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	629	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V2 @ 2' (H234529-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V2 @ 4' (H234529-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTEX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	54.5	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	17.9	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V3 @ 0' (H234529-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTEX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/23/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	207	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	64.9	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V3 @ 2' (H234529-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 08/21/2023  
 Reported: 08/28/2023  
 Project Name: TIN HORN 79-80 MAIN LINE  
 Project Number: 18540  
 Project Location: SPUR - UL / 0 SEC 23 T17S - R31E

Sampling Date: 08/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: V3 @ 4' (H234529-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	2.11	105	2.00	1.77	
Toluene*	<0.050	0.050	08/24/2023	ND	2.12	106	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.30	105	6.00	2.55	
Total BTX	<0.300	0.300	08/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	08/23/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2023	ND	175	87.3	200	5.82	
DRO >C10-C28*	375	10.0	08/23/2023	ND	169	84.5	200	13.2	
EXT DRO >C28-C36	105	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: Spur Energy Partners, LLC

Project Manager: Zach Conder

Address: 2617 W Marland Blvd

City: Hobbs State: NM Zip: 88240

Phone #: 575-396-2378 Fax #: 575-396-1429

Project #: 18540 Project Owner: Spur Energy Partners, LLC

Project Name: Tin Horn 79-80 Main Line

Project Location: U/L 0 Sec 23 T17S - R31E

Sampler Name: *Zach Conder*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H234529																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Relinquished By: *[Signature]* Date: 8-21-23 Time: 1:525

Received By: *[Signature]* Date: 8-21-23 Time: 1:525

Relinquished By: *[Signature]* Date: 8-21-23 Time: 1:525

Received By: *[Signature]* Date: 8-21-23 Time: 1:525

Delivered By: (Circle One) *#140*

Sampler - UPS - Bus - Other: *8.8e*

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: *[Signature]* (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476


FORM-006 R 2.0

## **Appendix D**

### **Photographic Log**



## Photographic Log

<b>Photo Number:</b> #1	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>	
<b>Initial Release</b>	

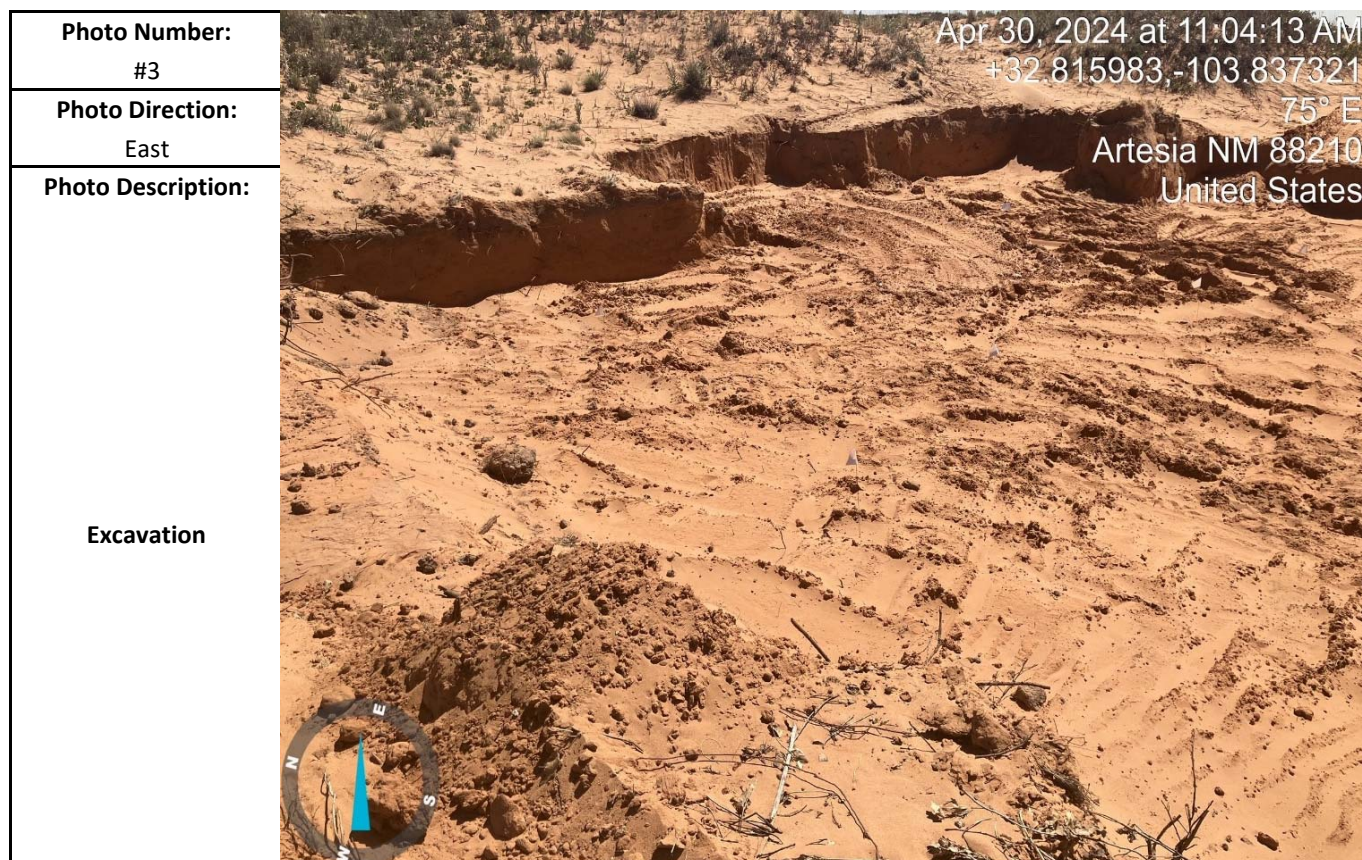
<b>Photo Number:</b> #2		<b>Aug 2, 2023 at 9:06:55 AM</b> <b>210° SW</b>
<b>Photo Direction:</b> West		
<b>Photo Description:</b>		

**Initial Release**







## Photographic Log





## Photographic Log

<b>Photo Number:</b> #5		May 2, 2024 at 3:18:55 PM Artesia NM 88210 United States
<b>Photo Direction:</b> South		
<b>Photo Description:</b>  Backfilled		

<b>Photo Number:</b>	
#6	
<b>Photo Direction:</b>	
West	
<b>Photo Description:</b>	
<b>Backfilled</b>	



## **Appendix E**

### **Regulatory Correspondence**

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, April 12, 2024 8:54 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 332838

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2321432080.

The sampling event is expected to take place:

**When:** 04/17/2024 @ 08:00

**Where:** O-23-17S-31E 0 FNL 0 FEL (32.81605,-103.83711)

**Additional Information:** Aaron Rios aaron@etechenv.com 4326539132

Sampling will take place every day up to May 1, 2024.

**Additional Instructions:** From the intersection of US-82 and Co Rd 224 (GPS: 32.832737, -103.827201), head SW on US-82 for 1.16 mi, then S for 0.07 mi, then SE for 0.50 mi, then S for 0.16 mi, then W for 0.08 mi, then W onto the right-of-way for 0.06 mi to arrive at the Tin Horn 79-80 Main Line release area (32.815832, -103.837281).

Sampling will take place every day up until May 1, 2024

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

## **Appendix F**

### **Electronic C-141 Supplemental Site Characterization Maps**



- Layer List
- Layers
- ☐

OSE Water PODs

...
- ☐

M2.5+ Earthquakes (USGS 30-day)

...
- ☐

NM Oil and Gas Wells

...
- ☐

Incidents (C-141)

...
- ☐

Facilities

...
- ☐

USGS Groundwater wells

...
- ☐

Induced Seismicity Area

...
- ☐

Permian Basin Karst Areas

...
- ☐

BLM Oil Gas Leases Case Disp

...
- ☐

BLM Oil Gas Leases Production Status

...
- ☐

BLM Fluid Minerals Case

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- ☐

BLM FM Agreements Case Disp

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- ☐

BLM FM Agreements Production Status

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- ☐

BLM FM Participating Areas Case Disp

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- ☐

NM SLO Oil and Gas Leases

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- ☐

NM SLO Participating Area and Unit Agreement Boundaries

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- ☐

Political Boundaries and Transportation

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- ☐

Mineral and Surface Ownership

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- ☒

Hydrology

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- ☐

OCD Districts

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- ☐

NM Oil and Gas Production Areas

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+

-

Home

Clock

32.815832, -103.837281

X

Q

Show search results for 32.815...

Measurement

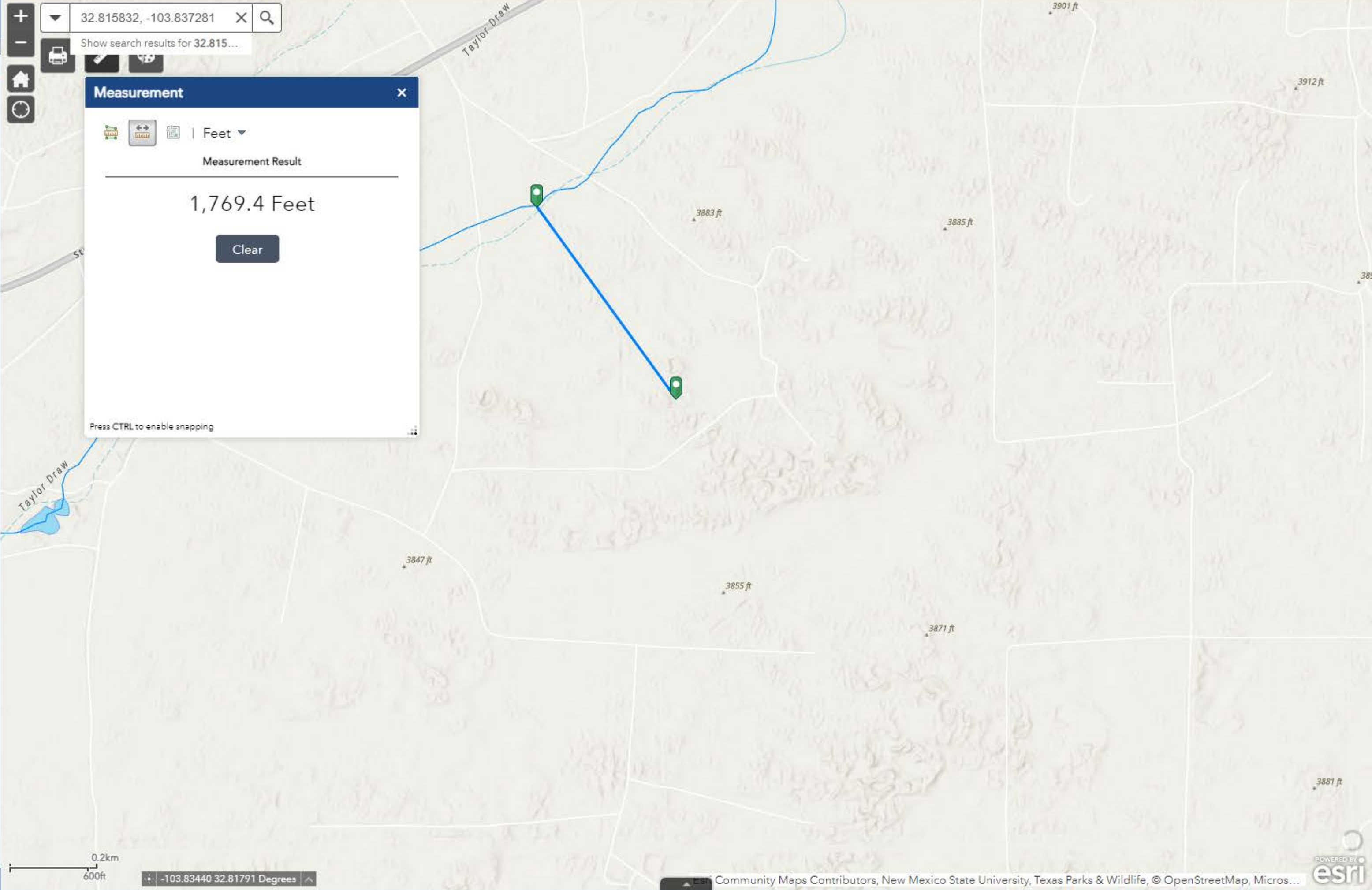
Feet

Measurement Result

1,769.4 Feet

Clear

Press CTRL to enable snapping







Legend

Hydrology

NMED Drinking Water Systems

▲

OSE Streams

—

OSE Probable Playas

■

OSW Water Bodys

■

32.815832, -103.837281

Show search results for 32.815...

To exit full screen, move mouse to top of screen or press F11

Measurement

Feet

Measurement Result

38,208.3 Feet

Clear

Press CTRL to enable snapping

Maljamar

MORWEST CORPORATION

MORWEST CORPORATION

MORWEST CORPORATION

MORWEST CORPORATION

MORWEST CORPORATION

MORWEST CORPORATION

MORWEST CORPORATION

CARLSBAD MUNICIPAL WATER SYSTEM

MESCALERO RIDGE WATER CO-OP

MESCALERO RIDGE WATER CO-OP

MESCALERO RIDGE WATER CO-OP

GONOGOPHILLIPS MALJAMAR

2km

1mi

-103.77368 32.88979 Degrees

NM OSE | Earthstar Geographics | Esri, HERE, Garmin







- Layer List
- Layers
- ☐

OSE Water PODs

...
- ☐

M2.5+ Earthquakes (USGS 30-day)

...
- ☐

NM Oil and Gas Wells

...
- ☐

Incidents (C-141)

...
- ☐

Facilities

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- ☐

USGS Groundwater wells

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- ☐

Induced Seismicity Area

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- ☐

Permian Basin Karst Areas

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- ☐

BLM Oil Gas Leases Case Disp

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- ☐

BLM Oil Gas Leases Production Status

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- ☐

BLM Fluid Minerals Case

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- ☐

BLM FM Agreements Case Disp

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- ☐

BLM FM Agreements Production Status

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- ☐

BLM FM Participating Areas Case Disp

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- ☐

NM SLO Oil and Gas Leases

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- ☐

NM SLO Participating Area and Unit Agreement Boundaries

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- ☐

Political Boundaries and Transportation

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- ☐

Mineral and Surface Ownership

...
- ☐

Hydrology

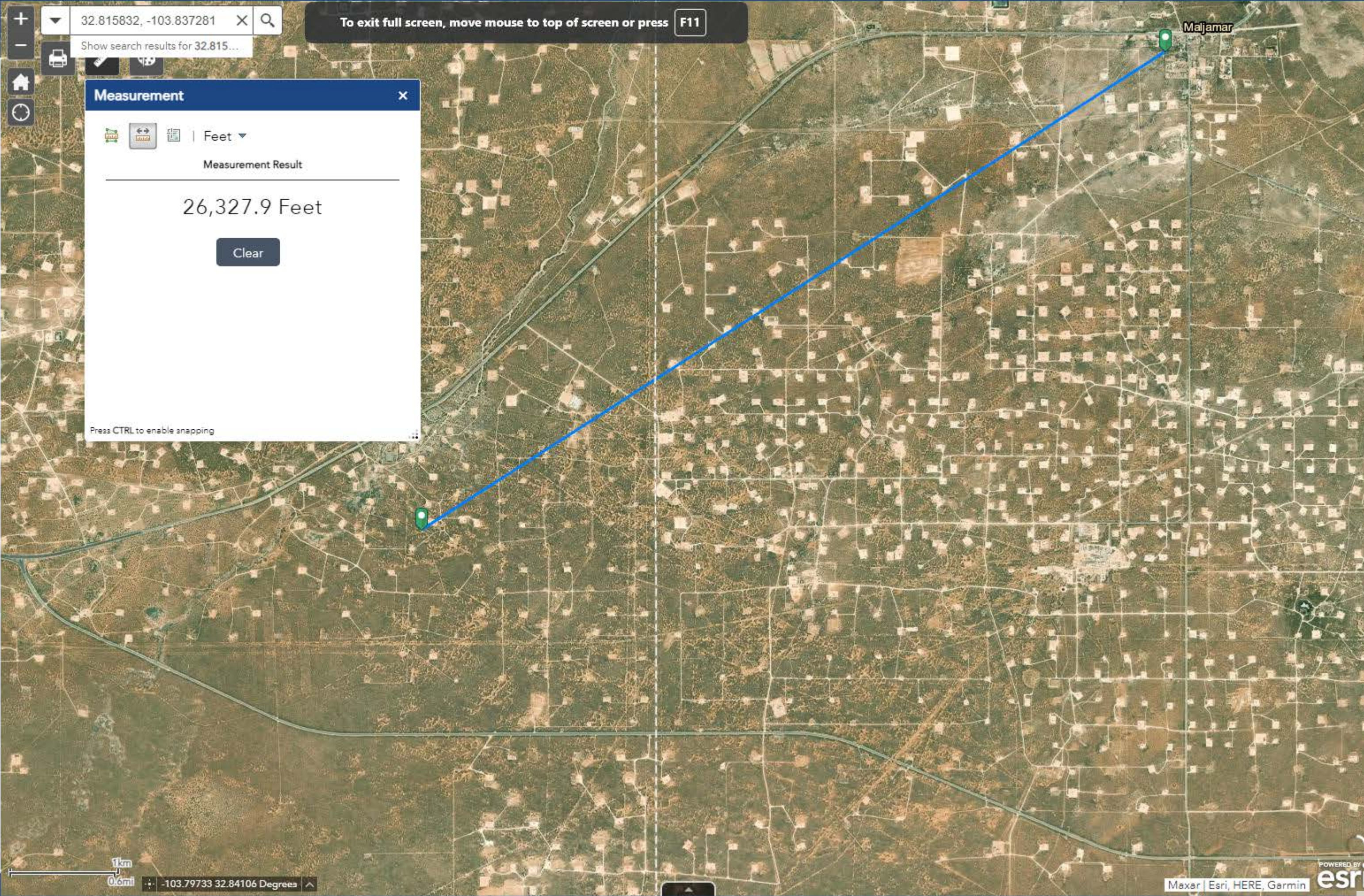
...
- ☐

OCD Districts

...
- ☐

NM Oil and Gas Production Areas

...



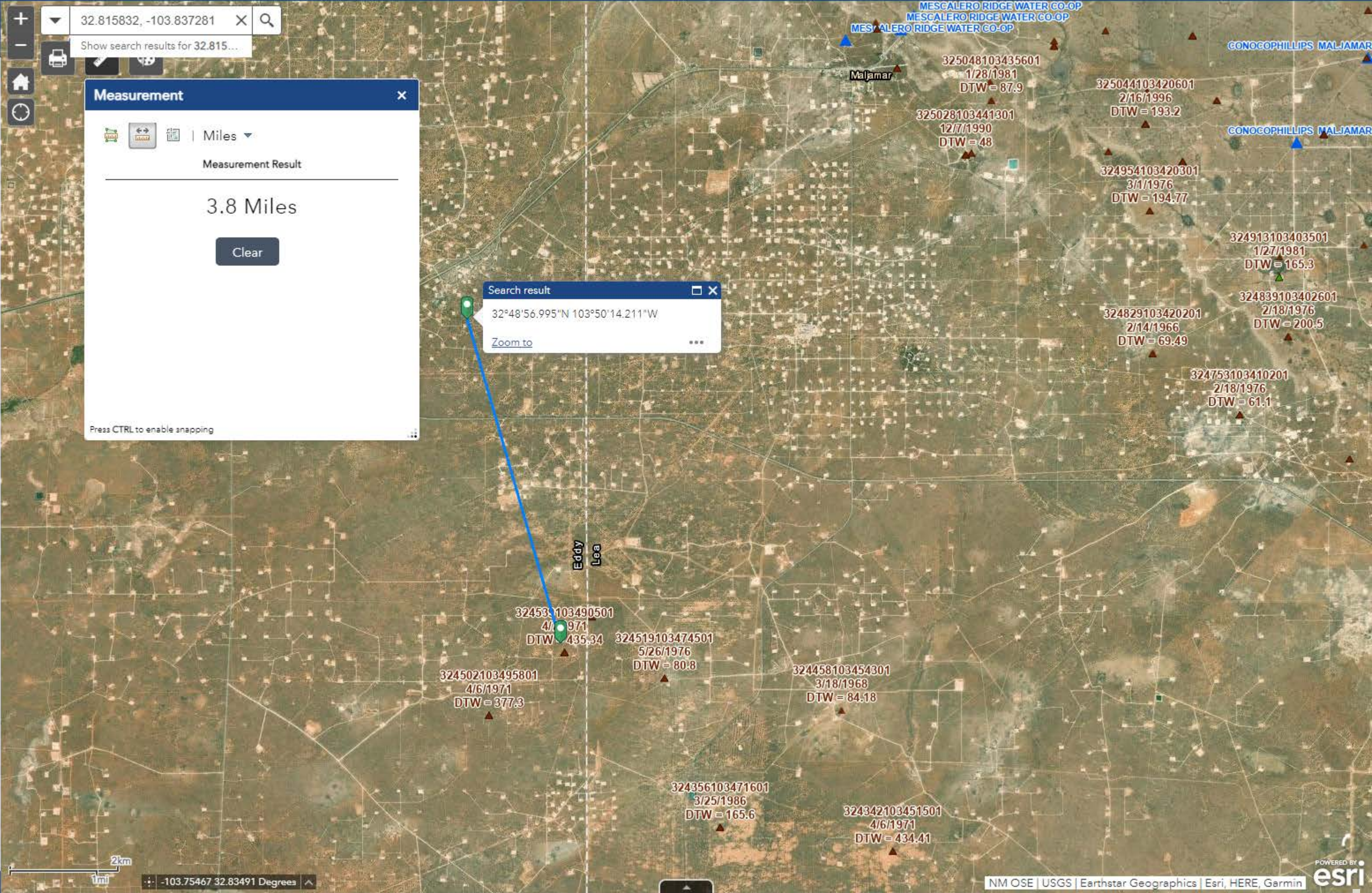




Layer List

Layers

- ☐ OSE Water PODs ...
- ☐ M2.5+ Earthquakes (USGS 30-day) ...
- ☐ NM Oil and Gas Wells ...
- ☐ Incidents (C-141) ...
- ☐ Facilities ...
- ☒ USGS Groundwater wells ...
- ☐ Induced Seismicity Area ...
- ☐ Permian Basin Karst Areas ...
- ☐ BLM Oil Gas Leases Case Disp ...
- ☐ BLM Oil Gas Leases Production Status ...
- ☐ BLM Fluid Minerals Case ...
- ☐ BLM FM Agreements Case Disp ...
- ☐ BLM FM Agreements Production Status ...
- ☐ BLM FM Participating Areas Case Disp ...
- ☐ NM SLO Oil and Gas Leases ...
- ☐ NM SLO Participating Area and Unit Agreement Boundaries ...
- ☐ Political Boundaries and Transportation ...
- ☐ Mineral and Surface Ownership ...
- ☒ Hydrology ...
  - ☒ NMED Drinking Water Systems ...
  - ☐ OSE Streams ...



Measurement

Miles

Measurement Result

3.8 Miles

Clear

Search result

32°48'56.995"N 103°50'14.211"W

Zoom to

Press CTRL to enable snapping

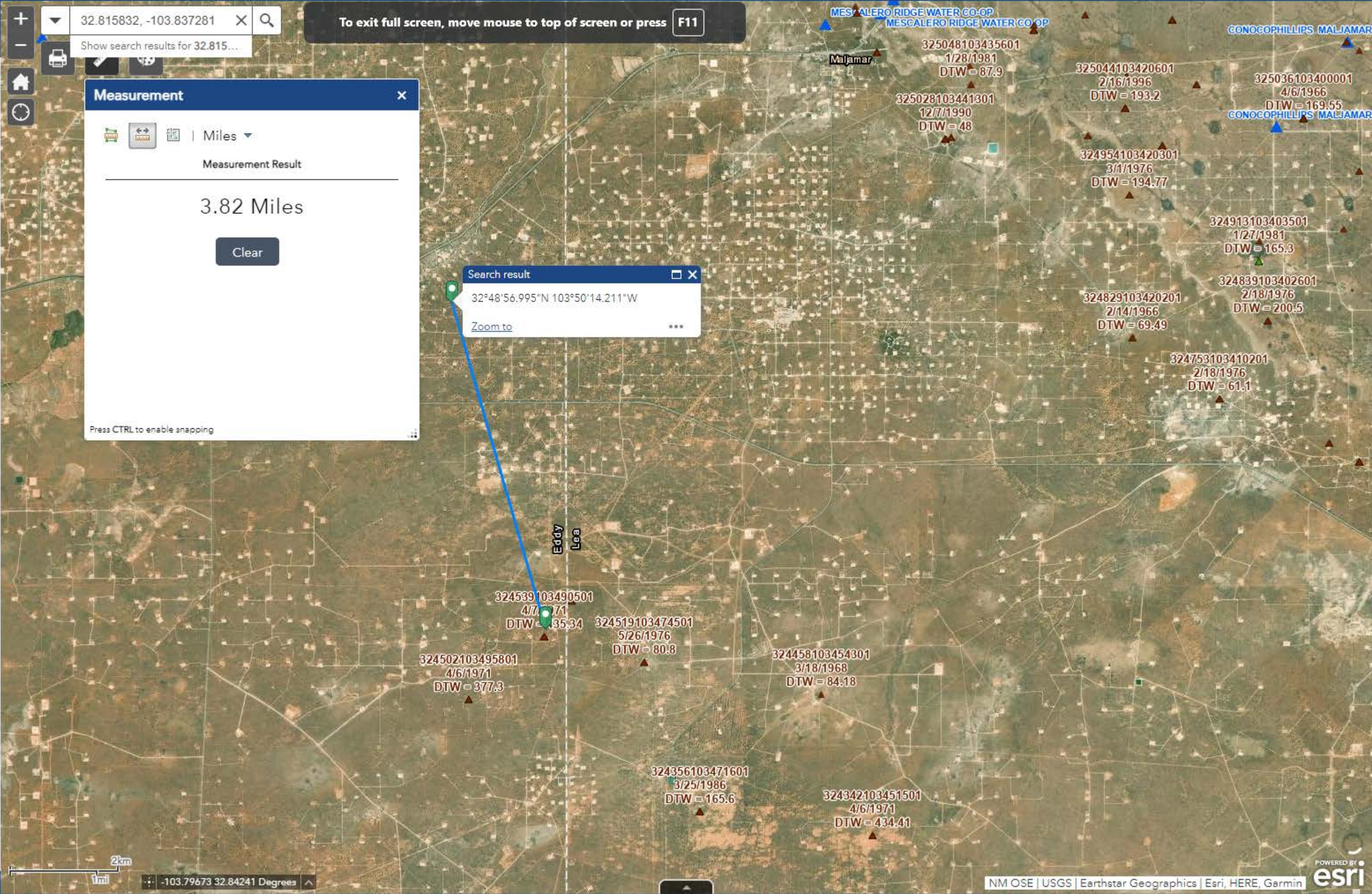




Layer List

Layers

- ☐ OSE Water PODs ...
- ☐ M2.5+ Earthquakes (USGS 30-day) ...
- ☐ NM Oil and Gas Wells ...
- ☐ Incidents (C-141) ...
- ☐ Facilities ...
- ☒ USGS Groundwater wells ...
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- ☐ Mineral and Surface Ownership ...
- ☒ Hydrology ...
  - ☒ NMED Drinking Water Systems ...
  - ☐ OSE Streams ...









BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☐ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☐ Data Source 1 2
  - ☐ Source Type
  - ☐ Image Scale
  - ☐ Image Year
- ☒ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure



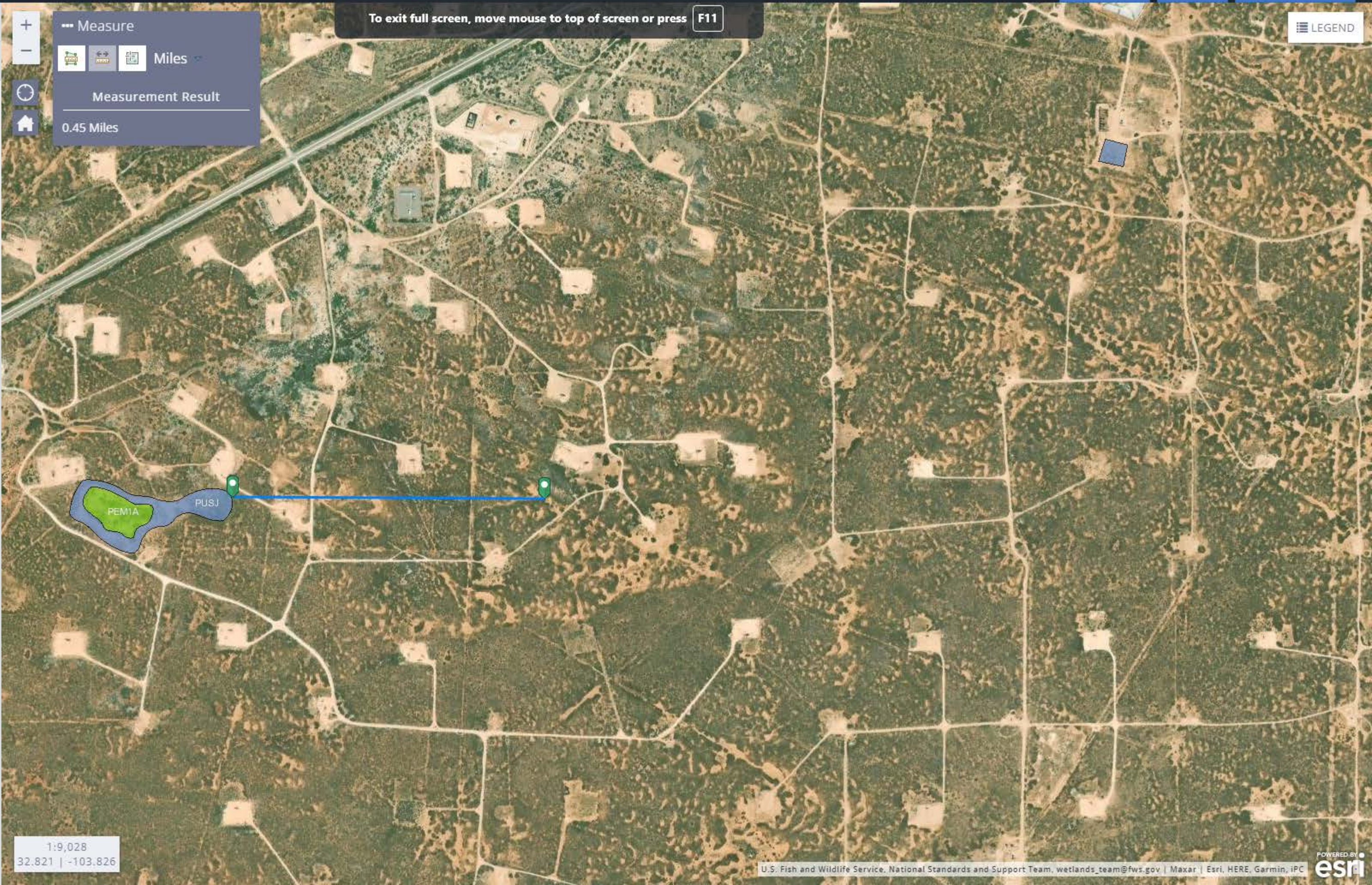
Miles

Measurement Result

0.45 Miles

To exit full screen, move mouse to top of screen or press F11

LEGEND



1:9,028  
32.821 | -103.826





Layer List

Layers

- ☒ Registered Mines
- ☐ Mineral\_and\_Surface\_Ownership
- ☐ Land Ownership
  - BLM
  - BOR
  - DOD
  - DOE
  - FS
  - FWS
  - I
  - NPS
  - P
  - S
  - SGF
  - SP
  - USDA
  - VCNP
- ☐ Mineral Ownership
- ☒ Public Land Survey System (PLSS)
  - PLSS Townships
  - PLSS First Division
  - PLSS Second Division

32.815832, -103.837281

Show search results for 32.815832, -1...

To exit full screen, move mouse to top of screen or press F11

Measurement

Miles

Measurement Result

12.3 Miles

Clear

Press CTRL to enable snapping

Search result

32°48'56.995"N 103°50'14.211"W

Zoom to

3km  
2mi  
-103.735 32.841 Degrees

NASA, NGA, USGS | Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTe

App State

Click to restore the map extent and layers visibility where you left off.



Layer List

Layers

☐ OSE Water PODs

☐ M2.5+ Earthquakes (USGS 30-day)

☐ NM Oil and Gas Wells

☐ Incidents (C-141)

☐ Facilities

☐ USGS Groundwater wells

☒ Induced Seismicity Area

☐ Permian Basin Karst Areas

☐ Critical Karst Resource Area

☐ Karst Occurrence Potential

☐ BLM Oil Gas Leases Case Disp

☐ BLM Oil Gas Leases Production Status

☐ BLM Fluid Minerals Case

☐ BLM FM Agreements Case Disp

☐ BLM FM Agreements Production Status

☐ BLM FM Participating Areas Case Disp

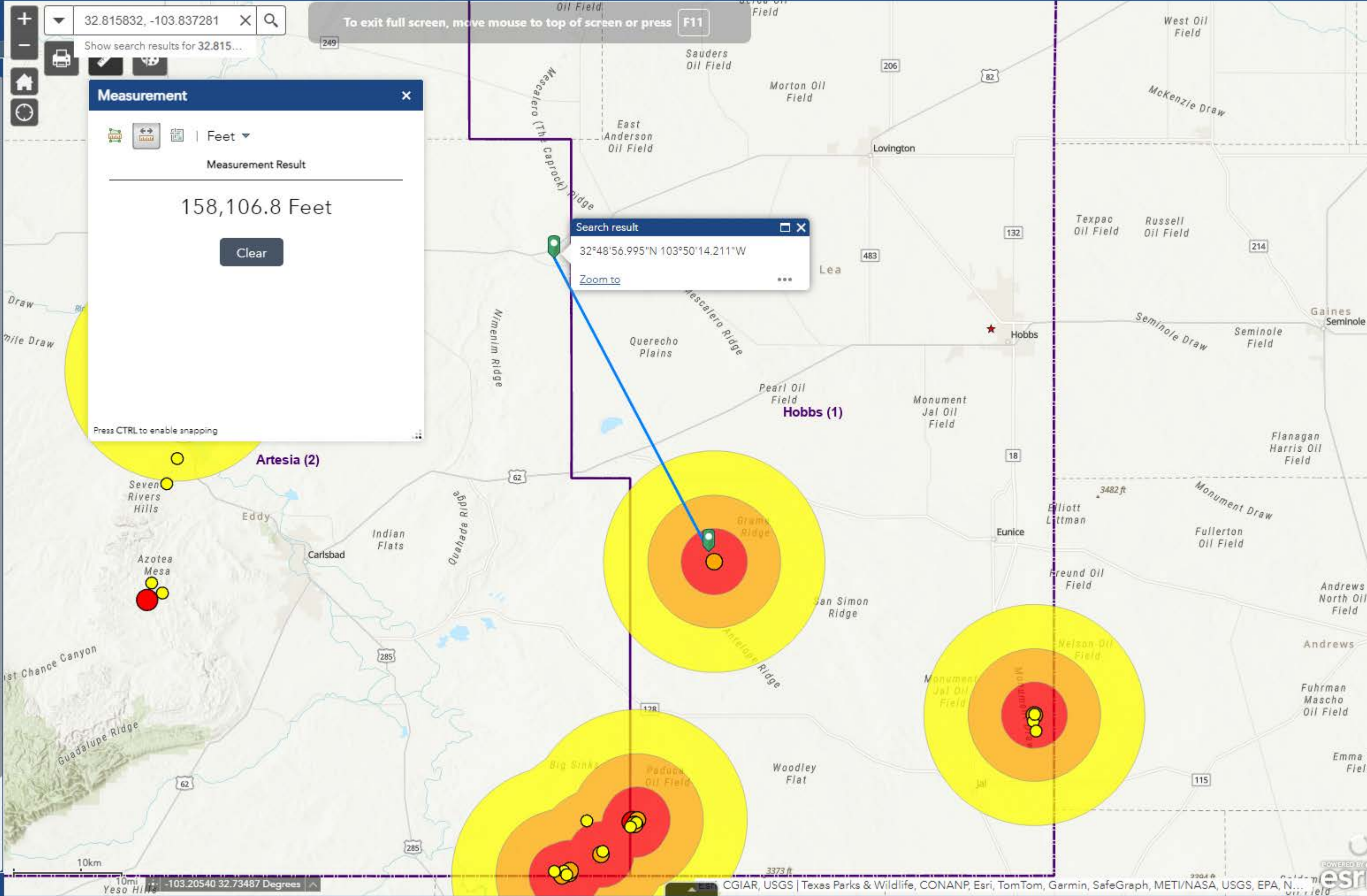
☐ NM SLO Oil and Gas Leases

☐ NM SLO Participating Area and Unit Agreement Boundaries

☐ Political Boundaries and Transportation

☐ Mineral and Surface Ownership

☐ Hydrology







- Layer List
- Layers
- ☐

OSE Water PODs
- ☐

M2.5+ Earthquakes (USGS 30-day)
- ☐

NM Oil and Gas Wells
- ☐

Incidents (C-141)
- ☐

Facilities
- ☐

USGS Groundwater wells
- ☐

Induced Seismicity Area
- ☒

Permian Basin Karst Areas
- ☒

Critical Karst Resource Area
- ☒

Karst Occurrence Potential
- ☐

BLM Oil Gas Leases Case Disp
- ☐

BLM Oil Gas Leases Production Status
- ☐

BLM Fluid Minerals Case
- ☐

BLM FM Agreements Case Disp
- ☐

BLM FM Agreements Production Status
- ☐

BLM FM Participating Areas Case Disp
- ☐

NM SLO Oil and Gas Leases
- ☐

NM SLO Participating Area and Unit Agreement Boundaries
- ☐

Political Boundaries and Transportation
- ☐

Mineral and Surface Ownership
- ☐

Hydrology

+

▼

32.815832, -103.837281

×

Q

Show search results for 32.815...

Measurement

Measurement Result

Clear

Press CTRL to enable snapping

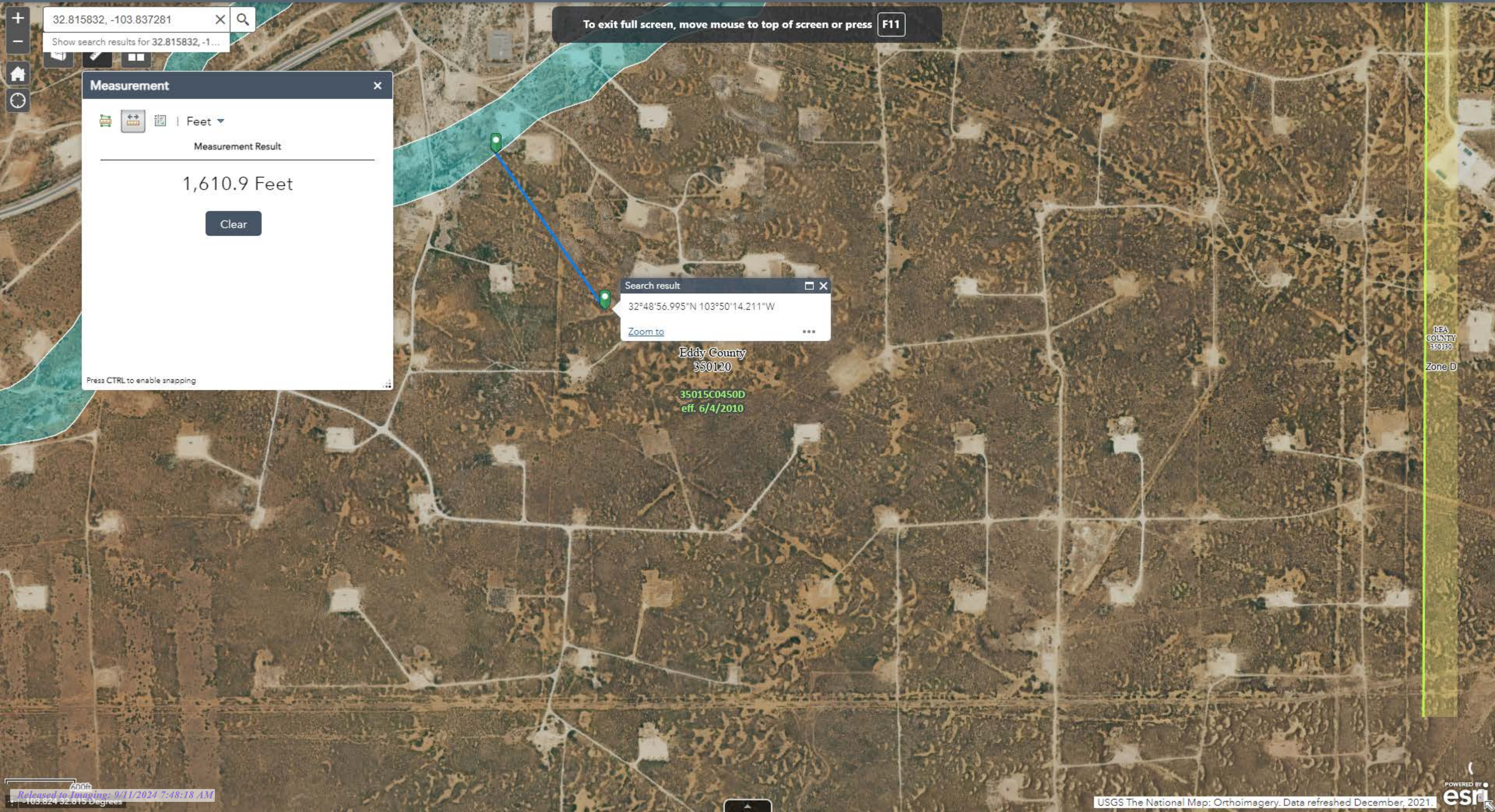
The map displays a geographical area with various oil fields and karst features. A blue line connects two green circular markers. The markers are located on 'Nimanim Ridge' and 'Taylor Draw'. The map includes labels for several oil fields: Square Lake Oil Field, Robinson Oil Field, North Maljamar Oil Field, Balish Oil Field, Maljamar Oil Field, East Maljamar Oil Field, Fren Oil Field, Premier Oil Field, North Shugart Oil Field, Corbin Oil Field, South Corbin Oil And Gas Field, West Tonto Oil Field, and South Tonto Oil Field. It also shows 'The Caprock Ridge', 'Taylor Draw', 'Bear Grass Draw', 'Loco Hills', and 'Querecho Plains'. Roads are labeled as 'State Highway 529' and 'State Highway 82'. A scale bar at the bottom left indicates 3km and 2mi. The bottom center shows coordinates: -103.75803 32.83321 Degrees. The bottom right corner has a copyright notice: 'All rights reserved' and a list of data sources: 'NASA, NGA, USGS | Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NA...'. The Esri logo is also present.

Released to Imaging: 9/11/2024 7:48:18 AM

All rights reserved

POWERED BY  
esri





Measurement

Feet

Measurement Result

1,610.9 Feet

Clear

Press CTRL to enable snapping

Search result

32°48'56.995"N 103°50'14.211"W

Zoom to

Eddy County  
350120

35015C0450D  
eff. 6/4/2010

LEA  
COUNTY  
350130  
Zone D



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
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  
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 375732

QUESTIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	375732
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321432080
Incident Name	NAPP2321432080 TIN HORN 79-80 MAIN LINE RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	TIN HORN 79-80 MAIN LINE RELEASE
Date Release Discovered	08/01/2023
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	Not answered.
Produced Water Released (bbls) Details	Cause: High Line Pressure   Pipeline (Any)   Produced Water   Released: 15 BBL   Recovered: 0 BBL   Lost: 15 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)	HIGH LINE PRESSURE CAUSED A PPL TO RELEASE PRODUCED WATER INTO THE PASTURE



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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 375732

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	375732
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

*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.*

**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	N/A

*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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/20/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 375732

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	375732
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**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)	6880
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2960
GRO+DRO	(EPA SW-846 Method 8015M)	2330
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.3

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	04/19/2024
On what date will (or did) the final sampling or liner inspection occur	04/19/2024
On what date will (or was) the remediation complete(d)	05/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	6600
What is the estimated volume (in cubic yards) that will be reclaimed	950
What is the estimated surface area (in square feet) that will be remediated	6380
What is the estimated volume (in cubic yards) that will be remediated	952

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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**District IV**

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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, Page 4

Action 375732

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	375732
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/20/2024
<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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QUESTIONS, Page 5  
  
Action 375732

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	375732
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

<b>Deferral Requests Only</b>	
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	No

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QUESTIONS, Page 6

Action 375732

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 375732
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	332838
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/17/2024
What was the (estimated) number of samples that were to be gathered	80
What was the sampling surface area in square feet	13000

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6380
What was the total volume (cubic yards) remediated	952
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6380
What was the total volume (in cubic yards) reclaimed	952
Summarize any additional remediation activities not included by answers (above)	TOP FOUR FEET EXCAVATED

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 08/20/2024
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Action 375732

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:  328947
	Action Number:  375732
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS  
  
Action 375732

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 375732
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2321432080 TIN HORN 79-80 MAIN LINE RELEASE, thank you. This Remediation Closure Report is approved.	9/11/2024