

Remediation Summary and Soil Closure Request

Permian Resources Raider Fed Com 101H

Lea County, New Mexico
Unit Letter A, Section 21, Township 24 South, Range 34 East
Latitude 32.20917 North, Longitude 103.46866 West
NMOCD Reference No. nAPP2219045002

Prepared By:

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



Robbie Runnels



Joel W. Lowry



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Raider Fed Com 101H (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.20917 Longitude: -103.46866

Provided GPS are in WGS84 format.

Site Name: <u>Raider Fed Com 101H</u>	Site Type: <u>Tank Battery</u>
Date Release Discovered: <u>7/8/2022</u>	API # (if applicable): <u>3002543408</u>

Unit Letter	Section	Township	Range	County
A	21	24S	34E	Lea

Surface Owner: State Federal Tribal Private (Name Quail Ranch)

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	30	Volume Recovered (bbls)	30
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	30	Volume Recovered (bbls)	20
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	

Cause of Release:
Gasket failure on a heated separator.

Initial Response

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

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?	>101 feet	
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 type="checkbox"/> Yes	<input checked="" 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.

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 Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>101 Feet	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

On June 10, 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.

On June 12, 2024, Etech collected seventeen (17) confirmation soil samples (FL 1 @ 3', FL 2 @ 3', FL 3 @ 4', FL 4 @ 3', FL 5 @ 3', EW 1, EW 2, EW 3, NW 1, NW 2, NW 3, SW 1, SW 2, SW 3, WW 1, WW 2, and WW 3). The collected soil samples were submitted to a certified commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. 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, with the exception of the TPH concentration in samples EW 2 (482 mg/kg), NW 2 (841 mg/kg), SW 2 (293 mg/kg), and WW 2 (522 mg/kg).

On June 17, 2024, Etech collected twenty-seven (27) confirmation soil samples (FL 6 @ 1', FL 7 @ 3', FL 8 @ 3', FL 9 @ 0.5', FL 10 @ 0.5', FL 11 @ 0.5', FL 12 @ 2', FL 13 @ 3', FL 14 @ 3', FL 15 @ 3', FL 16 @ 3', FL 17 @ 4', FL 18 @ 4', FL 19 @ 4', FL 20 @ 4', FL 21 @ 4', FL 22 @ 4', FL 23 @ 4', FL 24 @ 4', FL 25 @ 4', EW 4, NW 4, NW 5, SW 4, SW 5, WW 5, and WW 6). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples with the exception of the TPH concentration in samples FL 6 @ 1' (3,360 mg/kg), FL 7 @ 3' (4,710 mg/kg), and FL 19 @ 4' (2,000 mg/kg).

On June 21, 2024, excavation activities resumed at the Site. Etech collected seven (7) confirmation soil samples (FL - 19 @ 5', EW - 2B, NW - 2B, NW 6 @ 4', SW - 2B, WW - 2B, and WW 4). The collected soil samples were submitted to the commercial laboratory for analyses of BTEX, TPH, and chloride concentrations. Analytical results indicated that all submitted soil samples were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards for BTEX, TPH, and chloride.

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

The final dimensions of the excavated area were approximately one-hundred thirty-five (135) feet in length, and approximately 135 feet in width. The excavation ranged from one-half (0.5) feet to five (5) feet in depth. During the course of remediation activities, approximately eight-hundred sixty-six (866) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

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 represented by soil sample Quail Ranch Pit Backfill. Excavation backfill was 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 Permian Resources, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Raider Fed Com 101H 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 Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

8.0 DISTRIBUTION

Permian Resources

*300 N. Marienfeld St. Suite 100
Midland, TX 79701*

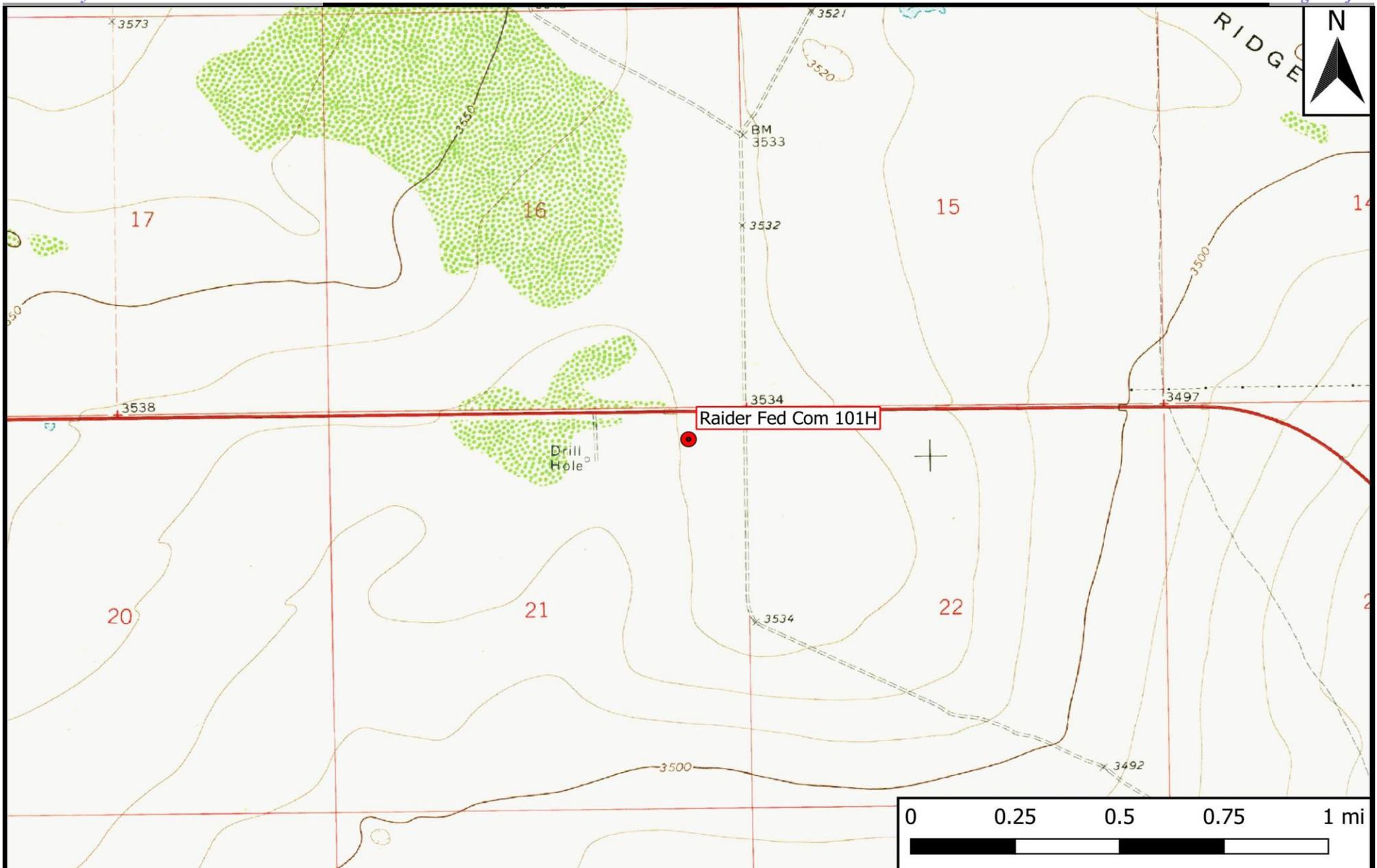
New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

(Electronic Submission)

Figure 1

Topographic Map



Legend
● Site Location

Figure 1
 Topographic Map
 Permian Resources
 Raider Fed Com 101H
 GPS: 32.20917, -103.46866
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 2/22/24

Figure 2 Aerial Proximity Map



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

Figure 2
 Aerial Proximity Map
 Permian Resources
 Raider Fed Com 101H
 GPS: 32.20917, -103.46866
 Lea County



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Drafted: mag Checked: jwl Date: 2/22/24

Figure 3

Site and Sample Location Map

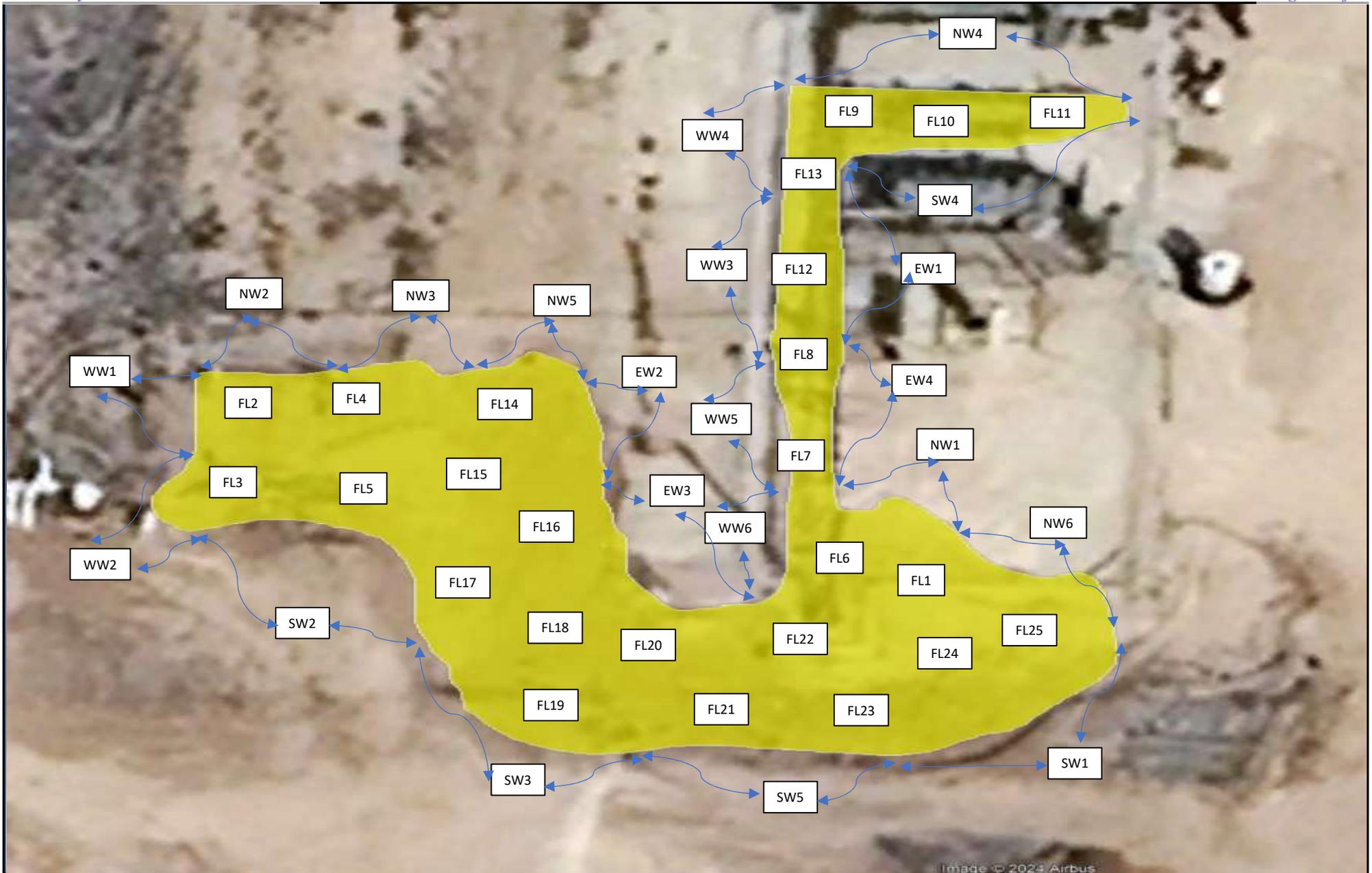


Image © 2024 Airbus

Legend:

- S Sample Area
- Excavated Area

Figure 3
 Site and Sample Location Map
 Permian Resources
 Raider Fed Com 101H Spill #1
 GPS: 32.20917, -103.46866
 Lea County



Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 7/9/24

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

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources Raider Fed Com 101H NMOCD Ref. #: nAPP2219045002											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 1 @ 3'	6/13/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 2 @ 3'	6/13/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 3 @ 4'	6/13/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 4 @ 3'	6/13/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 5 @ 3'	6/13/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 6 @ 1'	6/17/2024	1	Excavated	<0.050	<0.300	53.2	2,720	2,770	591	3,360	<16.0
FL - 6 @ 2'	6/21/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 7 @ 3'	6/17/2024	3	Excavated	<0.050	<0.300	131	3,670	3,800	904	4,710	<16.0
FL - 7 @ 4'	6/21/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 3'	6/17/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 9 @ 0.5'	6/17/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 10 @ 0.5'	6/17/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 0.5'	6/17/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 12 @ 2'	6/17/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 13 @ 3'	6/17/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 14 @ 3'	6/17/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 15 @ 3'	6/17/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 16 @ 3'	6/17/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 17 @ 4'	6/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 18 @ 4'	6/17/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 19 @ 4'	6/17/2024	4	Excavated	<0.050	2.83	117	1,630	1,750	255	2,000	16.0
FL - 19 @ 5'	6/21/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 20 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 21 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 22 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 24 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 25 @ 4'	6/18/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 1	6/13/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 2	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	390	390	91.9	482	<16.0
EW - 2B	6/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 3	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 4	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 1	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 2	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	681	681	160	841	16.0
NW - 2B	6/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 3	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 4	6/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 5	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 6 @ 4'	6/21/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 1	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

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 Permian Resources Raider Fed Com 101H 1 NMOCD Ref. #: nAPP2219045002											
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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW 2	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	240	240	53.0	293	<16.0
SW - 2B	6/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 3	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 4	6/18/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 5	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 1	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 2	6/13/2024	0-4	Excavated	<0.050	<0.300	<10.0	415	415	107	522	<16.0
WW - 2B	6/24/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 3	6/13/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	6/21/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 6	6/18/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Quail Ranch Pit Backfill	7/3/2024	N/A	Backfilled	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

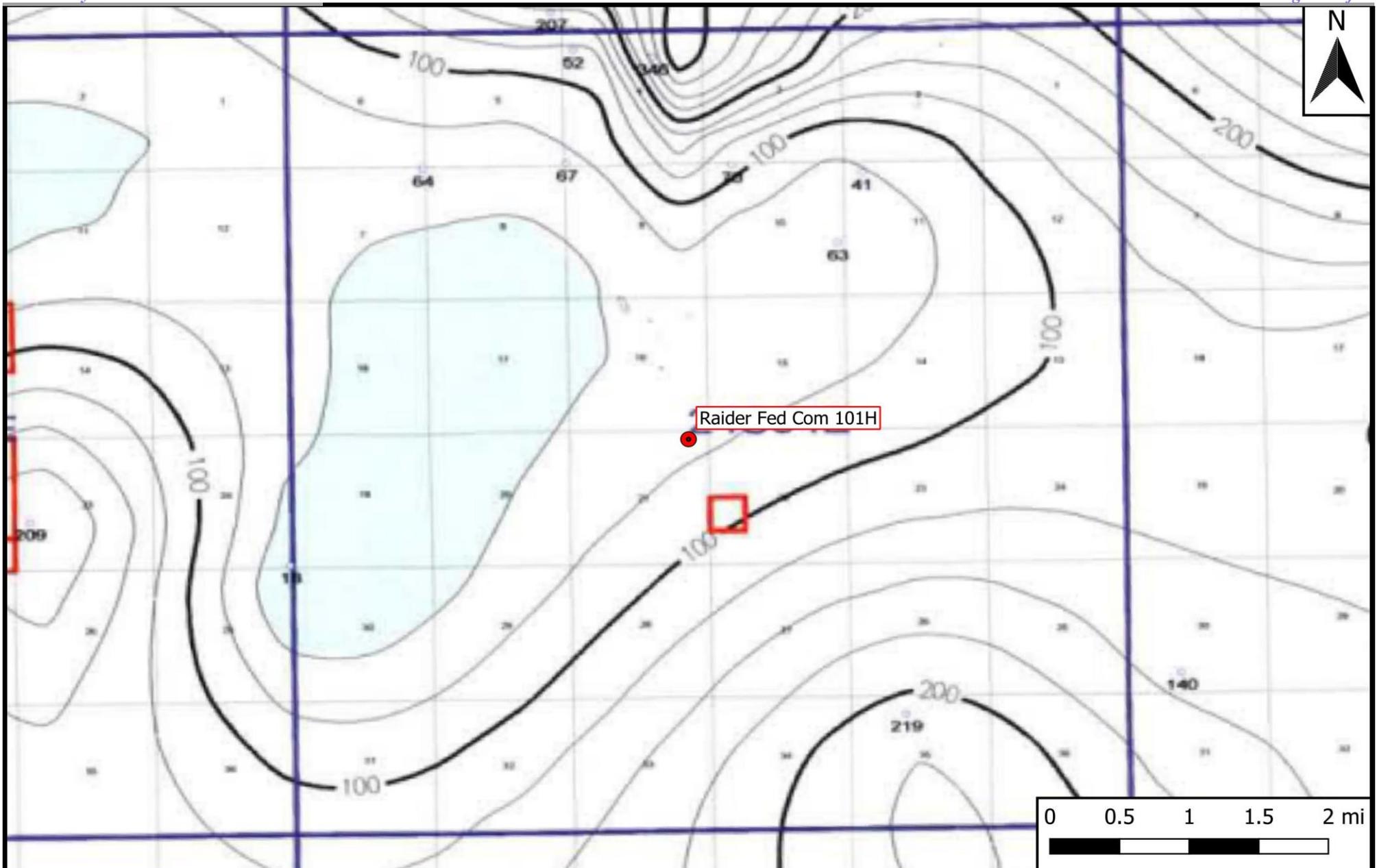
Dash (-): Sample not analyzed for that constituent.

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
 Permian Resources
 Raider Fed Com 101H
 GPS: 32.20917, -103.46866
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.



Drafted: mag Checked: jwl Date: 2/22/24



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_03943_POD1		CUB	LE	2	4	2	21	24S	34E	644523	3564266	432	610	431	179
C_03932_POD13		CUB	LE	4	2	3	15	24S	34E	645314	3565203	1137	90		
P_04400_POD2		P	RO	4	2	1	21	01S	33E	642775	3565051	1597	95		

Average Depth to Water: **431 feet**
 Minimum Depth: **431 feet**
 Maximum Depth: **431 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 644321.39 **Northing (Y):** 3564649.13 **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.

2/22/24 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)		
Well Tag	POD Number	(quarters are smallest to largest)	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C	03943 POD1		2 4 2	21	24S	34E	644523	3564266

Driller License: 1737	Driller Company: SHADE TREE DRILLING	
Driller Name: JUSTIN MULLINS		
Drill Start Date: 04/21/2016	Drill Finish Date: 04/24/2016	Plug Date:
Log File Date: 04/25/2016	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 5 GPM
Casing Size: 6.00	Depth Well: 610 feet	Depth Water: 431 feet

Water Bearing Stratifications:	Top	Bottom	Description
	39	431	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	420	480

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.

2/22/24 7:57 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-3943				OSE FILE NUMBER(S) C-3943					
	WELL OWNER NAME(S) Bert Madera				PHONE (OPTIONAL) 575-631-4444					
	WELL OWNER MAILING ADDRESS 1108 W. Pierce				CITY carlsbad		STATE nm		ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	32	12	20.5	N				
	LONGITUDE	103	27	59.7	W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE 1/4 OF NE 1/4 OF SE 1/4 OF NE 1/4 Of Section 21, T24S, R34E										
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1737		NAME OF LICENSED DRILLER Justin Mullins				NAME OF WELL DRILLING COMPANY WRR			
	DRILLING STARTED 4-21-16		DRILLING ENDED 4-24-16		DEPTH OF COMPLETED WELL (FT) 610'		BORE HOLE DEPTH (FT) 610		DEPTH WATER FIRST ENCOUNTERED (FT) 431'	
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT) 431'	
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:									
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO								
	0	40'	14 3/4"	12" steel	weld	12"	1/4"			
	40	420	11"	6" steel	weld	6"	1/4"			
	420'	480'	11"	6" steel	weld	6"	1/4"	1/8"		
480'	610	11"	6" steel	weld	6"	1/4"				
3. ANNULAR MATERIAL	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								
	0'	40'	14 3/4"	portland cement	13.38'	hand				
	20'	610'	11"	1/2" gravel	253.5'	hand				
	0'	20'	11"	portland cement	11.1'	hand				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER C-3943	POD NUMBER 1	TRN NUMBER 585607
LOCATION 24S.34E.21.2.4.2	EXPL	PAGE 1 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec Tws Rng	X Y					
	C 03932 POD13	4 2 3 15 24S 34E	645314 3565203					

Driller License: 1222 **Driller Company:** PETERSON DRILLING & TESTING INC.

Driller Name: LEE PETERSON

Drill Start Date: 02/10/2016 **Drill Finish Date:** 02/11/2016 **Plug Date:**

Log File Date: 03/01/2016 **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 90 feet **Depth Water:**

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.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

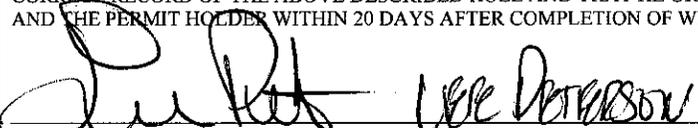
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) S15-BH-03				OSE FILE NUMBER(S) C 03932									
	WELL OWNER NAME(S) Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder				PHONE (OPTIONAL)									
	WELL OWNER MAILING ADDRESS 4222 85th Street				CITY Lubbock		STATE Texas		ZIP 79423					
	WELL LOCATION (FROM GPS)		DEGREES LATITUDE		MINUTES LONGITUDE		SECONDS N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
			32		12		50.55		* DATUM REQUIRED: WGS 84					
LONGITUDE		103		27		28.96		W						
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E														
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1222		NAME OF LICENSED DRILLER Lee Peterson				NAME OF WELL DRILLING COMPANY Peterson Drilling & Testing, Inc.							
	DRILLING STARTED 02/10/16		DRILLING ENDED 02/11/16		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 90'		DEPTH WATER FIRST ENCOUNTERED (FT)					
	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)					
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD		ADDITIVES - SPECIFY:											
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:													
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches)		CASING WALL THICKNESS (inches)		SLOT SIZE (inches)	
	FROM	TO												
3. ANNULAR MATERIAL	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												

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 10/29/15)			
FILE NUMBER		C-3932		POD NUMBER		13	
LOCATION		24S.34E.15.4.2.3		TRN NUMBER		581433	
						EXPL	
							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	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	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: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

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 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
		 SIGNATURE OF DRILLER / PRINT SIGNEE NAME

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER C-3932	POD NUMBER 13	TRN NUMBER 581433
LOCATION 24S.34E.13.4-2-3	EXPL.	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER
BRYCE KRAGER
4222 85TH ST
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Dunaway".

Deborah Dunaway
(575) 622-6521

drywell

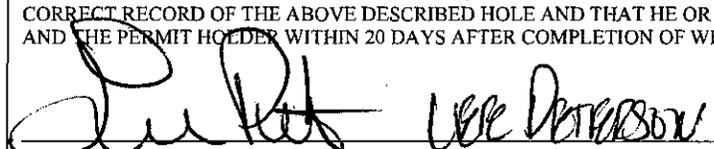


WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) S15-BH-03			OSE FILE NUMBER(S) C 03932			
	WELL OWNER NAME(S) Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder			PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4222 85th Street			CITY Lubbock	STATE Texas	ZIP 79423	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 12	SECONDS 50.55	N		
	LONGITUDE	103	27	28.96 W			
* ACCURACY REQUIRED: ONE TENTH OF A SECOND							
* DATUM REQUIRED: WGS 84							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E							
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1222	NAME OF LICENSED DRILLER Lee Peterson			NAME OF WELL DRILLING COMPANY Peterson Drilling & Testing, Inc.		
	DRILLING STARTED 02/10/16	DRILLING ENDED 02/11/16	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT) 90'	DEPTH WATER FIRST ENCOUNTERED (FT)		
	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)		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
3. ANNULAR MATERIAL	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					

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/15)	
FILE NUMBER	C-3932	POD NUMBER	13
LOCATION	24S.34E.15.3.2.4	TRN NUMBER	581433
			EXPL
			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	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					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: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
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 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME				_____ DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	C-3932	POD NUMBER	13
LOCATION	24S.34E.13.3-2-4	TRN NUMBER	581433
			EXPL
			PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER
BRYCE KARGER
4222 85TH ST.
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

If you have any questions, please feel free to contact us.

Sincerely,

Deborah Dunaway
(575) 622-6521

drywell



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec Tws Rng	X Y					
2122A	P 04400 POD2	4 2 1 21 01S 33E	642775 3565051					

Driller License: 1106	Driller Company: L & J WELL SERVICE, INC.	
Driller Name: LARRY JEWELL		
Drill Start Date: 03/14/2023	Drill Finish Date: 03/15/2023	Plug Date:
Log File Date: 04/05/2023	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 95 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	78	93	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	95

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.

2/22/24 8:31 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

OSE DTI APR 5 2023 AM 8:31

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) P-4400 - POD-2		WELL TAG ID NO. 2122A		OSE FILE NO(S). P-4400	
	WELL OWNER NAME(S) JEFFREY WALLACE				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 2651 S. ROOSEVELT RD. 3				CITY PORTALES	STATE ZIP NM 88130
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 12	SECONDS 49.36	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	103	29	05.55	* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE 2651 S. ROOSEVELT RD. 3						

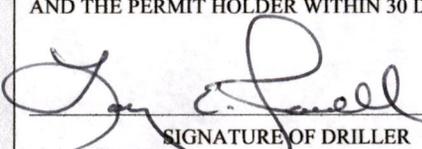
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1106	NAME OF LICENSED DRILLER L & J WELL SERVICE INC. / LARRY E. JEWELL			NAME OF WELL DRILLING COMPANY L & J WELL SERVICE INC			
	DRILLING STARTED 3-14-2023	DRILLING ENDED 3-15-2023	DEPTH OF COMPLETED WELL (FT) 95	BORE HOLE DEPTH (FT) 95	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) <small>Centralizer info below</small>				STATIC WATER LEVEL IN COMPLETED WELL (FT) 89	DATE STATIC MEASURED 3-16-2023		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>			
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	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						
	+2	75	9 7/8	SCHED. 40 PVC	SPLINE/ 5 3/4	5	.250	N/A
	75	95	9 7/8	SCHED 40 PVC	SPLINE/ 5 3/4	5	.250	.035

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	20	9 7/8	3/8 HOLE PLUG	8	GRAVITY
	20	95	9 7/8	3/8 WASHED GRAVEL	31	GRAVITY

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO.	P-4400-POD 2	POD NO.	2	TRN NO.	742248
LOCATION	DDM 01.33.21.221	WELL TAG ID NO.	2122A	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	3	3	TOP SOIL BROWN	Y ✓ N	
	3	10	7	CAKICHE WHITE	Y ✓ N	
	10	25	15	CLAY RED	Y ✓ N	
	25	35	10	SAND BROWN	Y ✓ N	
	35	47	12	CLAY TAN	Y ✓ N	
	47	60	13	SAND BROWN	Y ✓ N	
	60	70	10	CLAY TAN	Y ✓ N	
	70	78	8	ROCK WHITE	Y ✓ N	
	78	93	15	SAND & GRAVEL RED	✓ Y N	
	93	95	2	RED & BLUE CLAY	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):	

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: N/A ON WATER FIRST ENCOUNTERED DUE TO DRILLING WITH MUD
		OSE DTI APR 5 2023 04:31
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: DUSTIN WILLIAMSON	

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:	
	 LARRY E. JEWELL SIGNATURE OF DRILLER / PRINT SIGNEE NAME	4-4-2023 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. P-4400-POD 2	POD NO. 2	TRN NO. 742248	
LOCATION Dom 01.33.21.221	WELL TAG ID NO. 2122A	PAGE 2 OF 2	



Legend	
	Site Location
	Well - USGS
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius

Figure 5
 USGS Well Proximity Map
 Permian Resources
 Raider Fed Com 101H
 GPS: 32.20917, -103.46866
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 2/22/24



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

[Groundwater levels for the Nation](#)

! Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321328103270601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321328103270601 24S.34E.10.42243

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°13'28", Longitude 103°27'06" NAD27

Land-surface elevation 3,514 feet above NAVD88

The depth of the well is 93 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

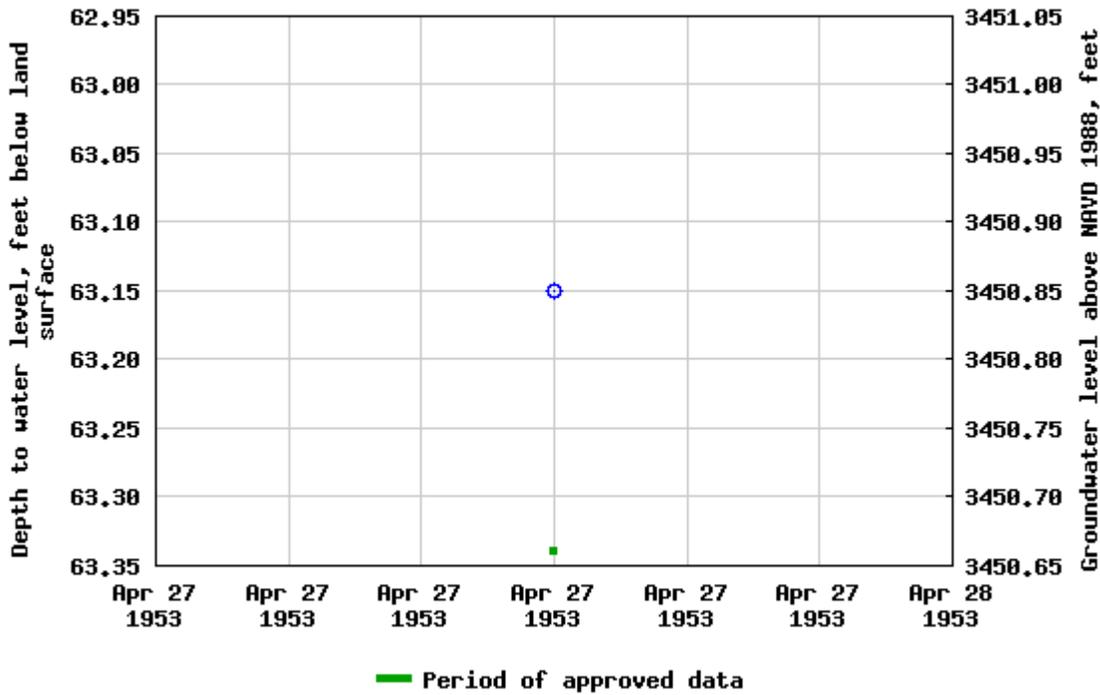
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 321328103270601 245.34E.10.42243



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-02-22 09:55:13 EST

0.58 0.51 nadww01

Appendix B

Field Data and Soil Profile Logs



Sample Log

Date: _____

Project: Raider Fed Com 101H Spill #1/Spill#2

Project Number: 19870 Latitude: 32.20917 Longitude: -103.46866

Sample ID	PID/Odor	Chloride Conc.	GPS
SW-1	-	352	
NW-1	-	436	
EW-1	-	436	
FL-1 @ 3'	-	884	
SW-2	-	528	
NW-2	-	352	
EW-2	-	392	
WW-1	-	528	
FL-2 @ 3'	-	436 952	
SW-3	-	316	
NW-3	-	228	
WW-2	-	528	
EW-3	-	392	
FL-3 @ 4'	-	884	
FL-4 @ 7'	-	436	
FL-5 @ 3'	-	392	
WW-3	-	480	
FL-6 @ 1'	-	436	
FL-7 @ 3'	-	480	
FL-8 @ 7'	-	528	
FL-9 @ 6"	-	392	
FL-10 @ 6"	-	436	
FL-11 @ 6"	-	292	
FL-12 @ 2'	-	528	
FL-13 @ 2'	-	480	
FL-14 @ 3'	-	580	
FL-15 @ 3'	-	580	
FL-16 @ 3'	-	144	
FL-17 @ 4'	-	528	
FL-18 @ 4'	-	284	
FL-19 @ 4'	-	392	
NW-4	-	292	
NW-4	-	580	
SW-4	-	528	
NW-5	-	N/A	
SW-5	-	292	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

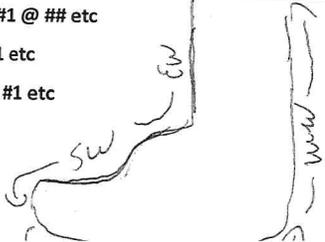
Refusal = SP #1 @ 4'-R

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



Appendix C

Laboratory Analytical Reports



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

June 26, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL - 6 @ 2' (H243772-01)

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	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	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	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL - 7 @ 4' (H243772-02)

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	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	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	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/25/2024	Sampling Date:	06/21/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL - 19 @ 5' (H243772-03)

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	06/25/2024	ND	1.87	93.5	2.00	5.70	
Toluene*	<0.050	0.050	06/25/2024	ND	2.03	102	2.00	5.22	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.05	103	2.00	4.61	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.41	107	6.00	4.29	
Total BTEX	<0.300	0.300	06/25/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/26/2024	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	06/26/2024	ND	205	102	200	3.76	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	196	98.2	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control 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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental
 Project Manager: Joel Lowry
 Address: 2617 W Marland Blvd
 City: Hobbs State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: _____
 Project #: 19870 Project Owner: Permian Resources
 Project Name: Raider Fed Com 101H Spill #1
 Project Location: GPS:(32.20917, -103.46866)
 Sampler Name: Martin Sepulveda
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H243175	F.L.C. 21	(C)	1			X					6/26/15	15:00	T	T	T
	F.L.-7 09	(C)	1			X					15:10	15:00	T	T	T
	F.L.-19 @ 5-	(C)	1			X					15:20	15:00	T	T	T

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Relinquished By: *ML* Date: *6/26/15* Time: *1:15*
 Received By: *Shodkovney*
 Delivered By: (Circle One) *3.4L* Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: *#140* Yes No Yes No
 CHECKED BY: *SR* (Initials)
 REMARKS: Email copy of COC and results to: PM@etechnv.com
24824

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



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

June 25, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/24/24 16:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: EW - 2B (H243751-01)

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	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2024	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	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW - 2B (H243751-02)

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	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2024	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	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW - 2B (H243751-03)

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	06/25/2024	ND	1.94	97.1	2.00	1.06	
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03	
Total BTEX	<0.300	0.300	06/25/2024	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	<16.0	16.0	06/25/2024	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	06/25/2024	ND	179	89.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/24/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW - 2B (H243751-04)

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	06/25/2024	ND	1.94	97.1	2.00	1.06		
Toluene*	<0.050	0.050	06/25/2024	ND	1.91	95.7	2.00	1.92		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.95	97.5	2.00	2.68		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.71	95.2	6.00	3.03		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	<16.0	16.0	06/25/2024	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	06/25/2024	ND	179	89.6	200	1.73		
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	177	88.5	200	4.52		
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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

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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

June 24, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 6 @ 4' (H243705-01)

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	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	06/24/2024	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	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 4 (H243705-02)

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	06/23/2024	ND	2.01	101	2.00	2.29	
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25	
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89	
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01	
Total BTEX	<0.300	0.300	06/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	06/24/2024	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	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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

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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. P.O. #:
 Project Manager: Joel Lowry Company: **SEE REMARKS**
 Address: 2617 West Marland Attn:
 City: Hobbs State: NM Zip: 88240 Address:
 Phone #: (575) 264-9884 Fax #: City:
 Project #: 19870 Project Owner: Permian Resources State: Zip:
 Project Name: Raider Fed Com 101H Spill #1 Phone #:
 Project Location: 32.20917, -103.46866 Fax #:
 Sampler Name: Martin Sepulveda

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
	NW 6 @ 4'	C	1	X					6/21/24		X	X	X	
	WW 4	C	1	X					6/21/24		X	X	X	

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Relinquished By: [Signature] Date: 6-21-24 Time: 1454 Received By: [Signature]
 Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature]

Delivered By: (Circle One) UPS Bus Other: #140
 Sample Condition: Cool Intact Yes No No No
 CHECKED BY: [Signature] (Initials)

RUSH SAMPLES - 24 HOUR
 Bill rush charges to Etech C/O Joel Lowry and analytical charges to Permian Resources C/O Montgomery Floyd
 Please email copy of COC and results to pm@etechnv.com.

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

FORM-006
 Revision 1.0

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



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

June 20, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 8:43.

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.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 20 @ 4' (H243587-01)

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	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 21 @ 4' (H243587-02)

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	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 22 @ 4' (H243587-03)

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	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	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	32.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 HOBBS NM, 88240
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Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 23 @ 4' (H243587-04)

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	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 24 @ 4' (H243587-05)

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	06/19/2024	ND	2.24	112	2.00	2.85	
Toluene*	<0.050	0.050	06/19/2024	ND	2.14	107	2.00	5.98	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	2.12	106	2.00	5.53	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	6.70	112	6.00	5.67	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 25 @ 4' (H243587-06)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 4 (H243587-07)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 5 (H243587-08)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: EW 4 (H243587-09)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW 4 (H243587-10)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW 5 (H243587-11)

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	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	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	<16.0	16.0	06/19/2024	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	06/19/2024	ND	198	99.1	200	2.10		
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96		
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 5 (H243587-12)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	<16.0	16.0	06/19/2024	ND	416	104	400	0.00	QM-07

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	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Alyssa Parras
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 6 (H243587-13)

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	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	<16.0	16.0	06/19/2024	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	06/20/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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.
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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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

BILL TO

ANALYSIS REQUEST

Company Name: Ettech Environmental & Safety Solutions, Inc. P.O. #:
 Project Manager: Joel Lowry Company: **SEE REMARKS**
 Address: 2617 West Marland City: **SEE REMARKS**
 City: Hobbs State: NM Zip: 88240 Attn:
 Phone #: (575) 264-9884 Fax #: Address:
 Project #: 19870 Project Owner: Permian Resources City:
 Project Name: Raider Fed Com 101H Spill #1 State: Zip:
 Project Location: 32.20917, -103.46866 Phone #:
 Sampler Name: Martin Sepulveda Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
1	FL 20 @ 4'	C	1	X									6/18/24		X	X	X
2	FL 21 @ 4'	C	1	X									6/18/24		X	X	X
3	FL 22 @ 4'	C	1	X									6/18/24		X	X	X
4	FL 23 @ 4'	C	1	X									6/18/24		X	X	X
5	FL 24 @ 4'	C	1	X									6/18/24		X	X	X
6	FL 25 @ 4'	C	1	X									6/18/24		X	X	X
7	NW 4	C	1	X									6/18/24		X	X	X
8	NW 5	C	1	X									6/18/24		X	X	X
9	EW 4	C	1	X									6/18/24		X	X	X
10	SW 4	C	1	X									6/18/24		X	X	X

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Relinquished By: [Signature] Date: 6/18/24
 Relinquished By: [Signature] Date: 6/18/24
 Received By: [Signature]

Delivered By: (Circle One) - 271
 Sampler - UPS - Bus - Other: # 140
 Sample Condition: Cool Intact Yes No
 Checked By: [Signature]

RUSH SAMPLES - 24 HOUR
 Bill rush charges to Ettech C/O Joel Lowry and analytical charges to Permian Resources C/O Montgomery Floyd
 Please email copy of COC and results to pm@etechnv.com.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.
 Project Manager: Joel Lowry
 Address: 2617 West Marland
 City: Hobbs State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: _____
 Project #: 19870 Project Owner: Permian Resources
 Project Name: Raider Fed Com 101H Spill #1
 Project Location: 32.20917, -103.46866
 Sampler Name: Martin Sepulveda
 P.O. #: _____ Company: **SEE REMARKS**
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	SW 5	C	1	X						6/18/24		X	X	
12	WW 5	C	1	X						6/18/24		X	X	
13	WW 6	C	1	X						6/18/24		X	X	

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Relinquished By: _____ Date: 6/18/24
 Relinquished By: _____ Date: 6/18/24
 Delivered By: (Circle One) - 2.7.2
 Sampler - UPS - Bus - Other: #140

Received By: _____
 Sample Condition: Intact Cool Yes No
 CHECKED BY: (Initials) **AS**

RUSH SAMPLES - 24 HOUR
 Bill rush charges to Etech C/O Joel Lowry and analytical charges to Permian Resources C/O Montgomery Floyd
 Please email copy of COC and results to pm@etechnv.com.

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____



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

June 24, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 6 @ 1' (H243566-01)

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	06/21/2024	ND	2.11	106	2.00	0.905	
Toluene*	<0.050	0.050	06/21/2024	ND	2.05	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.03	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.37	106	6.00	1.99	
Total BTEX	<0.300	0.300	06/21/2024	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	<16.0	16.0	06/20/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	53.2	10.0	06/19/2024	ND	215	107	200	0.000931		
DRO >C10-C28*	2720	10.0	06/19/2024	ND	225	112	200	3.56		
EXT DRO >C28-C36	591	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 204 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 7 @ 3' (H243566-02)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71		
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC, QM-07	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 324 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/20/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	131	10.0	06/19/2024	ND	215	107	200	0.000931		
DRO >C10-C28*	3670	10.0	06/19/2024	ND	225	112	200	3.56		
EXT DRO >C28-C36	904	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 178 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 8 @ 3' (H243566-03)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	112	16.0	06/20/2024	ND	432	108	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 9 @ 0.5' (H243566-04)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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	16.0	16.0	06/20/2024	ND	432	108	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 10 @ 0.5' (H243566-05)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	32.0	16.0	06/20/2024	ND	432	108	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 11 @ 0.5' (H243566-06)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	16.0	16.0	06/20/2024	ND	432	108	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 12 @ 2' (H243566-07)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	16.0	16.0	06/20/2024	ND	432	108	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 13 @ 3' (H243566-08)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	16.0	16.0	06/20/2024	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 14 @ 3' (H243566-09)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	<16.0	16.0	06/20/2024	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 15 @ 3' (H243566-10)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	<16.0	16.0	06/20/2024	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	06/19/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 16 @ 3' (H243566-11)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	32.0	16.0	06/20/2024	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	06/20/2024	ND	215	107	200	0.000931	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	225	112	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 17 @ 4' (H243566-12)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	16.0	16.0	06/20/2024	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	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 111 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 18 @ 4' (H243566-13)

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	06/21/2024	ND	1.91	95.6	2.00	3.71	
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	16.0	16.0	06/20/2024	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	06/20/2024	ND	216	108	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	218	109	200	0.313	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 125 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/18/2024	Sampling Date:	06/17/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 19 @ 4' (H243566-14)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	1.91	95.6	2.00	3.71		
Toluene*	<0.050	0.050	06/21/2024	ND	1.88	93.8	2.00	3.02	GC-NC	
Ethylbenzene*	0.370	0.050	06/21/2024	ND	1.89	94.4	2.00	2.50	GC-NC1	
Total Xylenes*	2.46	0.150	06/21/2024	ND	5.53	92.2	6.00	2.16	GC-NC1	
Total BTEX	2.83	0.300	06/21/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 169 % 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	16.0	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	117	10.0	06/20/2024	ND	216	108	200	2.07		
DRO >C10-C28*	1630	10.0	06/20/2024	ND	218	109	200	0.313		
EXT DRO >C28-C36	255	10.0	06/20/2024	ND						

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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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

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.
 Project Manager: Joel Lowry
 Address: 2617 West Marland
 City: Hobbs State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: Project Owner: Permian Resources
 Project #: 19870
 Project Name: Raider Fed Com 101H Spill #1
 Project Location: 32.20917, -103.46866
 Sampler Name: Martin Sepulveda
 P.O. #: Company Permian Resources
 Attn: Montgomery Floyd
 Address:
 State: Zip:
 Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
47213800	FL 6 @ 1'	C	1	X							6/17/24		X	X	X	
	FL 7 @ 3'	C	1	X							6/17/24		X	X	X	
	FL 8 @ 3'	C	1	X							6/17/24		X	X	X	
	FL 9 @ 0.5'	C	1	X							6/17/24		X	X	X	
	FL 10 @ 0.5'	C	1	X							6/17/24		X	X	X	
	FL 11 @ 0.5'	C	1	X							6/17/24		X	X	X	
	FL 12 @ 2'	C	1	X							6/17/24		X	X	X	
	FL 13 @ 3'	C	1	X							6/17/24		X	X	X	
	FL 14 @ 3'	C	1	X							6/17/24		X	X	X	
	FL 15 @ 3'	C	1	X							6/17/24		X	X	X	

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Relinquished By: [Signature] Date: 6-18-24 Time: 12:00
 Received By: [Signature] Date: 6-18-24 Time: 12:00

Delivered By: (Circle One) Sample Condition Cool/Intact Yes/No
 Sampler - UPS - Bus - Other: #140 -5.1e

FORM-006
 Revision 1.0

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

CHECKED BY: [Signature] (Initials)

Phone Result: Yes/No Add'l Phone #:
 Fax Result: Yes/No Add'l Fax #:
 REMARKS:

Please email copy of COC and results to pm@etechnv.com.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.
 Project Manager: Joel Lowry
 Address: 2617 West Marland
 City: Hobbs
 State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: _____
 Project #: 19870 Project Owner: Permian Resources
 Project Name: Raider Fed Com 101H Spill #1
 Project Location: 32.20917, -103.46866
 Sampler Name: Martin Sepulveda
 P.O. #: _____ Company: Permian Resources
 Attn: Montgomery Floyd
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
11	FL 16 @ 3'	C 1	X							6/17/24		X	X	X	
12	FL 17 @ 4'	C 1	X							6/17/24		X	X	X	
13	FL 18 @ 4'	C 1	X							6/17/24		X	X	X	
14	FL 19 @ 4'	C 1	X							6/17/24		X	X	X	

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Relinquished By: _____ Date: 6/18-24
 Received By: _____
 Relinquished By: _____ Date: 7:00
 Received By: _____
 Delivered By: (Circle One) #140
 Sampler - UPS - Bus - Other: -5:16
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: (Initials) _____
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: _____
 Please email copy of COC and results to pm@etechnv.com.

FORM-006
Revision 1.0

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



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

June 20, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RAIDER FED COM 101H SPILL #1

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 1 @ 3' (H243475-01)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 2 @ 3' (H243475-02)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 3 @ 4' (H243475-03)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 4 @ 3' (H243475-04)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: FL 5 @ 3' (H243475-05)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 1 (H243475-06)

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	06/18/2024	ND	1.71	85.5	2.00	7.94	
Toluene*	<0.050	0.050	06/18/2024	ND	1.77	88.5	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.83	91.3	2.00	5.00	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.47	91.1	6.00	5.50	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 2 (H243475-07)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	681	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	160	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: NW 3 (H243475-08)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: EW 1 (H243475-09)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: EW 2 (H243475-10)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	390	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	91.9	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: EW 3 (H243475-11)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW 1 (H243475-12)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW 2 (H243475-13)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	240	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	53.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: SW 3 (H243475-14)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 104 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 1 (H243475-15)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 2 (H243475-16)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	06/18/2024	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	06/18/2024	ND	200	99.8	200	2.63	
DRO >C10-C28*	415	10.0	06/18/2024	ND	198	98.9	200	4.64	
EXT DRO >C28-C36	107	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2024	Sampling Date:	06/13/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	RAIDER FED COM 101H SPILL #1	Sampling Condition:	Cool & Intact
Project Number:	19870	Sample Received By:	Shalyn Rodriguez
Project Location:	PERMIAN 32.20917, -103.46866		

Sample ID: WW 3 (H243475-17)

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	06/18/2024	ND	1.91	95.3	2.00	7.17	
Toluene*	<0.050	0.050	06/18/2024	ND	2.05	102	2.00	5.93	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.06	103	2.00	4.92	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	6.42	107	6.00	4.34	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	06/18/2024	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	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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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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

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. P.O. #: _____
 Project Manager: Joel Lowry Company: Permian Resources
 Address: 2617 West Marland Attn: Montgomery Floyd
 City: Hobbs State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: _____
 Project #: 19870 Project Owner: Permian Resources City: _____
 Project Name: Raider Fed Com 101H Spill #1 State: _____ Zip: _____
 Project Location: 32.20917, -103.46866 Phone #: _____
 Sampler Name: Martin Sepulveda Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
124245	FL 1 @ 3'	C	1	X											
	FL 2 @ 3'	C	1	X											
	FL 3 @ 4'	C	1	X											
	FL 4 @ 3'	C	1	X											
	FL 5 @ 3'	C	1	X											
	NW 1	C	1	X											
	NW 2	C	1	X											
	NW 3	C	1	X											
	EW 1	C	1	X											
	EW 2	C	1	X											

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Relinquished By: *[Signature]* Date: *6/13/24* Time: *1:50*
 Received By: *[Signature]* Date: _____ Time: _____
 Delivered By: (Circle One) *UPS* *0.9* *#140* Sample Condition: Intact Cool Yes No
 Checked By: *[Signature]* (Initials)

FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
 Please email copy of COC and results to pm@etechnv.com.



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.
 Project Manager: Joel Lowry
 Address: 2617 West Marland
 City: Hobbs State: NM Zip: 88240
 Phone #: (575) 264-9884 Fax #: [blank]
 Project #: 19870 Project Owner: Permian Resources
 Project Name: Raider Fed Com 101H Spill #1
 Project Location: 32.20917, -103.46866
 Sampler Name: Martin Sepulveda
 P.O. #: [blank] Company: Permian Resources
 Attn: Montgomery Floyd
 Address: [blank] City: [blank]
 State: [blank] Zip: [blank]
 Phone #: [blank] Fax #: [blank]

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	EW 3	C	1	X						6/13/24		X	X	
12	SW 1	C	1	X						6/13/24		X	X	
13	SW 2	C	1	X						6/13/24		X	X	
14	SW 3	C	1	X						6/13/24		X	X	
15	WW 1	C	1	X						6/13/24		X	X	
16	WW 2	C	1	X						6/13/24		X	X	
17	WW 3	C	1	X						6/13/24		X	X	

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Relinquished By: [Signature] Date: 6-14-24
 Received By: [Signature] Date: 6-14-24
 Relinquished By: [Signature] Date: [blank]
 Received By: [Signature] Date: [blank]

Delivered By: (Circle One) UPS \$140
 Sampler - UPS - Bus - Other: [blank]
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature]

FORM-006
 Revision 1.0
 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

July 10, 2024

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SOLOMON FED COM 709H

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/10/2024	Sampling Type:	Soil
Project Name:	SOLOMON FED COM 709H	Sampling Condition:	Cool & Intact
Project Number:	20413	Sample Received By:	Alyssa Parras
Project Location:	32.1970251, -103.45345		

Sample ID: QUIAL RANCH PIT BACKFILL (H244016-01)

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	07/10/2024	ND	1.92	96.2	2.00	6.01	
Toluene*	<0.050	0.050	07/10/2024	ND	1.95	97.6	2.00	3.03	
Ethylbenzene*	<0.050	0.050	07/10/2024	ND	1.97	98.6	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/10/2024	ND	5.81	96.8	6.00	2.48	
Total BTEX	<0.300	0.300	07/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	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	07/09/2024	ND	102	102	100	2.67	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	101	101	100	1.00	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

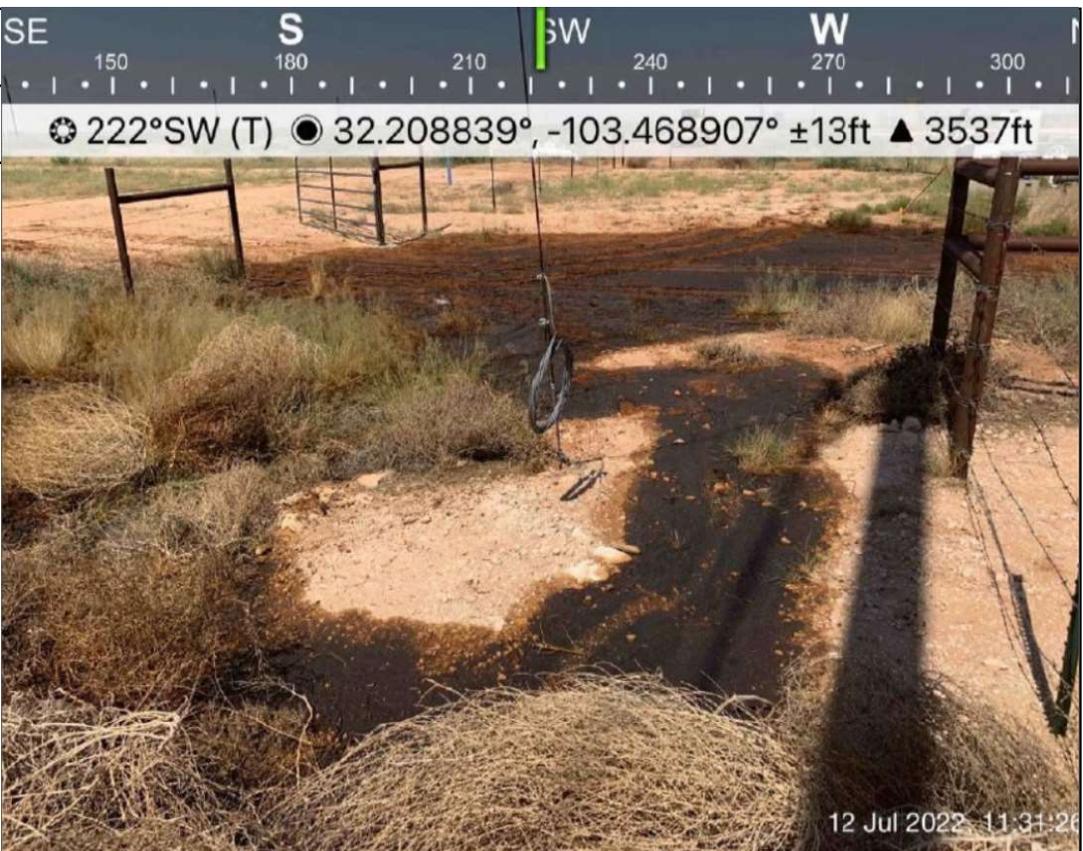
Celey D. Keene, Lab Director/Quality Manager

Appendix D

Photographic Log

Photographic Log

Photo Number: #1	
Photo Direction: East Southeast	☀ 111°E (T) ● 32.209011°, -103.468935° ±13ft ▲ 3536ft
Photo Description: Initial Release	

Photo Number: #2	
Photo Direction: Southwest	☀ 222°SW (T) ● 32.208839°, -103.468907° ±13ft ▲ 3537ft
Photo Description: Initial Release	

Photographic Log

Photo Number: #3	 <p>Jun 25, 2024 at 10:52:28 AM +32.208799,-103.468938 223° SW Jal NM 88252 United States</p>
Photo Direction: Southwest	
Photo Description: Excavation	

Photo Number: #4	 <p>Jun 26, 2024 at 12:36:17 PM +32.208993,-103.468927 356° N Jal NM 88252 United States</p>
Photo Direction: North	
Photo Description: Excavation	

Photographic Log

Photo Number: #5	 <p>Jun 28, 2024 at 1:43:35 PM +32.209121,-103.468933 138° SE Jal NM 88252 United States</p>
Photo Direction: Southeast	
Photo Description: Backfill	

Photo Number: #6	 <p>Jun 28, 2024 at 1:45:38 PM +32.208956,-103.469070 129° SE Jal NM 88252 United States</p>
Photo Direction: Southeast	
Photo Description: Backfill	

Appendix E

Regulatory Correspondence

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Thursday, June 6, 2024 4:58 PM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 351814

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/10/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Thursday, June 6, 2024 4:59 PM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 351816

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/11/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Monday, June 10, 2024 10:48 AM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352546

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/12/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Monday, June 10, 2024 10:50 AM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352548

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/14/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Monday, June 10, 2024 10:52 AM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352550

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/17/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Monday, June 10, 2024 10:54 AM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352551

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/19/2024 @ 07:00

Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Robbie Runnels

From: OCDOnline@state.nm.us
Sent: Monday, June 10, 2024 10:56 AM
To: Matthew Taylor
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 352552

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2219045002.

The sampling event is expected to take place:

When: 06/21/2024 @ 07:00
Where: A-21-24S-34E 0 FNL 0 FEL (32.20917,-103.46866)

Additional Information: Martin Sepulveda martin@etechenv.com 432-3057322

Additional Instructions: From the intersection of NM-128 and Co Rd 2-B (32.210407, -103.466343), head S on Co Rd 2-B for 0.11 mi, then W for 0.14 mi to arrive at the Raider Fed Com 101H location (32.20917, -103.46866).

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

CAUTION: This email originated from outside of the organization. If it appears to be internal, check directly with assumed source

Appendix F

Electronic C-141 Supplemental Site Characterization Maps

Electronic C-141 Supplemental Documentation

Permian Resources Raider Fed Com 101H Spill #1

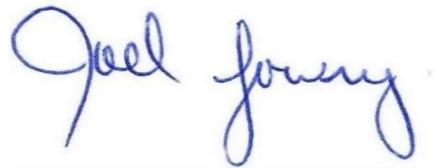
Lea County, New Mexico
Unit Letter , Section , Township South, Range East
Latitude 32.20917 North, Longitude 103.46866 West
NMOCD Reference No. nAPP2219045002

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

NM OCD OIL AND GAS MAP New Mexico Oil Conservation Division NM OCD Oil and Gas Map User Guide

32.209145, -103.468918 To exit full screen, move mouse to top of screen or press **F11**

Show search results for 32.209145, -103.468918

Measurement ✕

Feet

Measurement Result

7,605.7 Feet

Clear

Press CTRL to enable snapping

Layer List

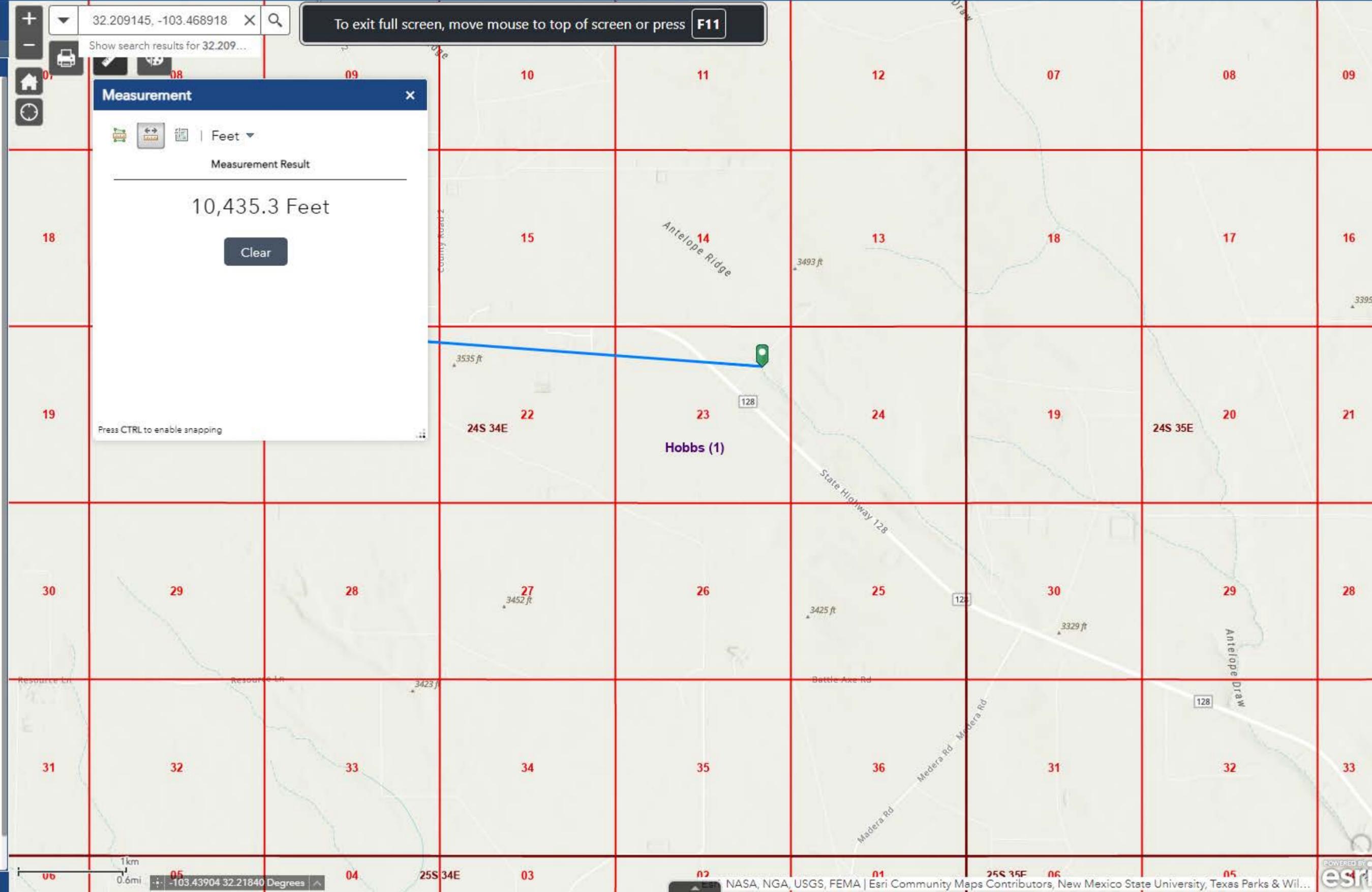
Layers

- OSE Water PODs
- M2.5+ Earthquakes (USGS 30-day)
- NM Oil and Gas Wells
- Incidents (C-141)
- Facilities
- USGS Groundwater wells
- 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
- OCD Districts
- NM Oil and Gas Production Areas

All rights reserved

BLM | OCD | NM OSE | Maxar | Esri, HERE, Garmin

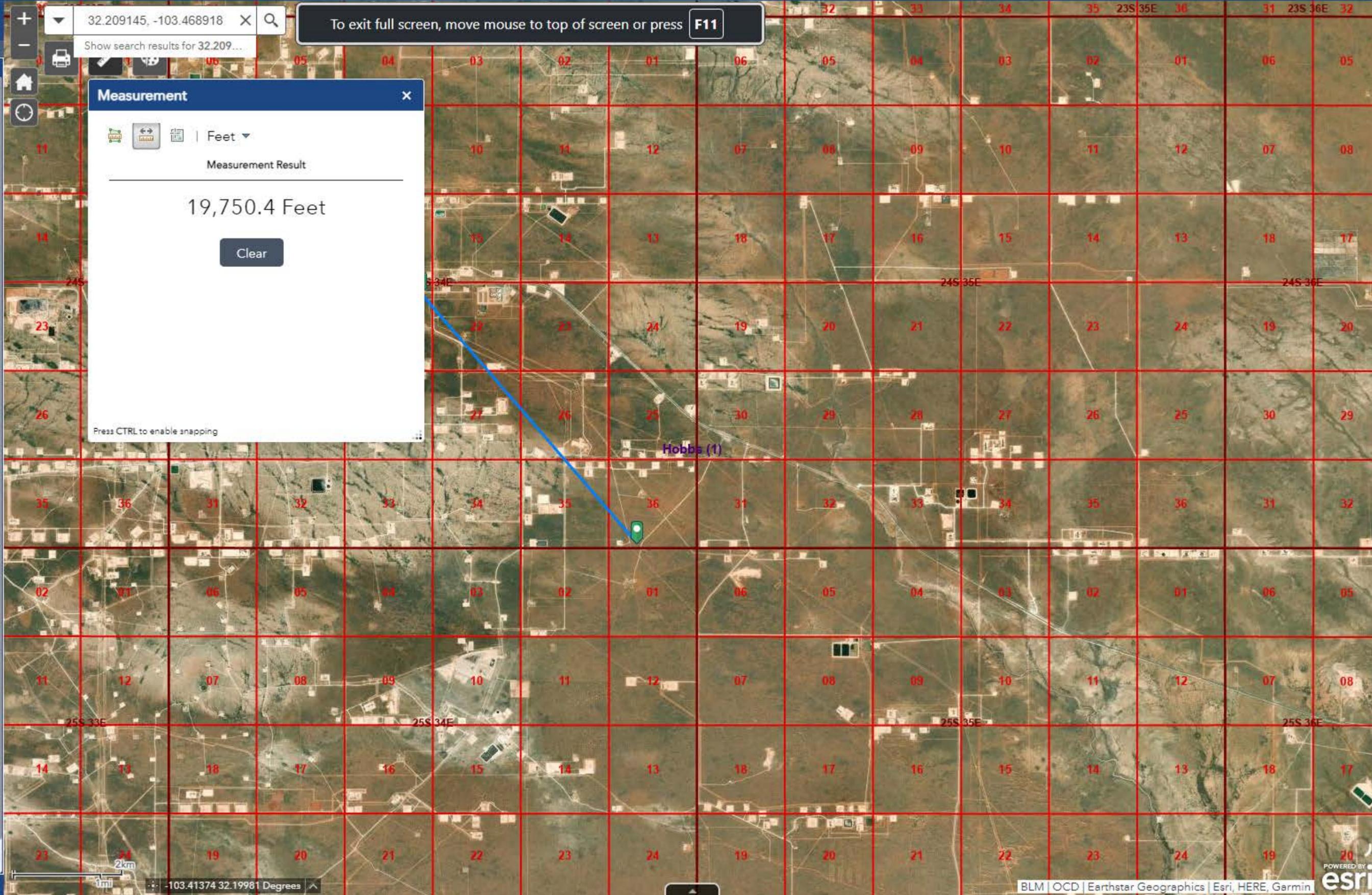
- Layer List
- Layers
- OSE Water PODs
 - M2.5+ Earthquakes (USGS 30-day)
 - NM Oil and Gas Wells
 - Incidents (C-141)
 - Facilities
 - USGS Groundwater wells
 - Induced Seismicity Area
 - Permian Basin Karst Areas
 - BLM Oil Gas Leases Case Disp
 - BLM Oil Gas Leases Production Status
 - BLM Fluid Minerals 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
 - OCD Districts
 - NM Oil and Gas Production Areas



Layer List

Layers

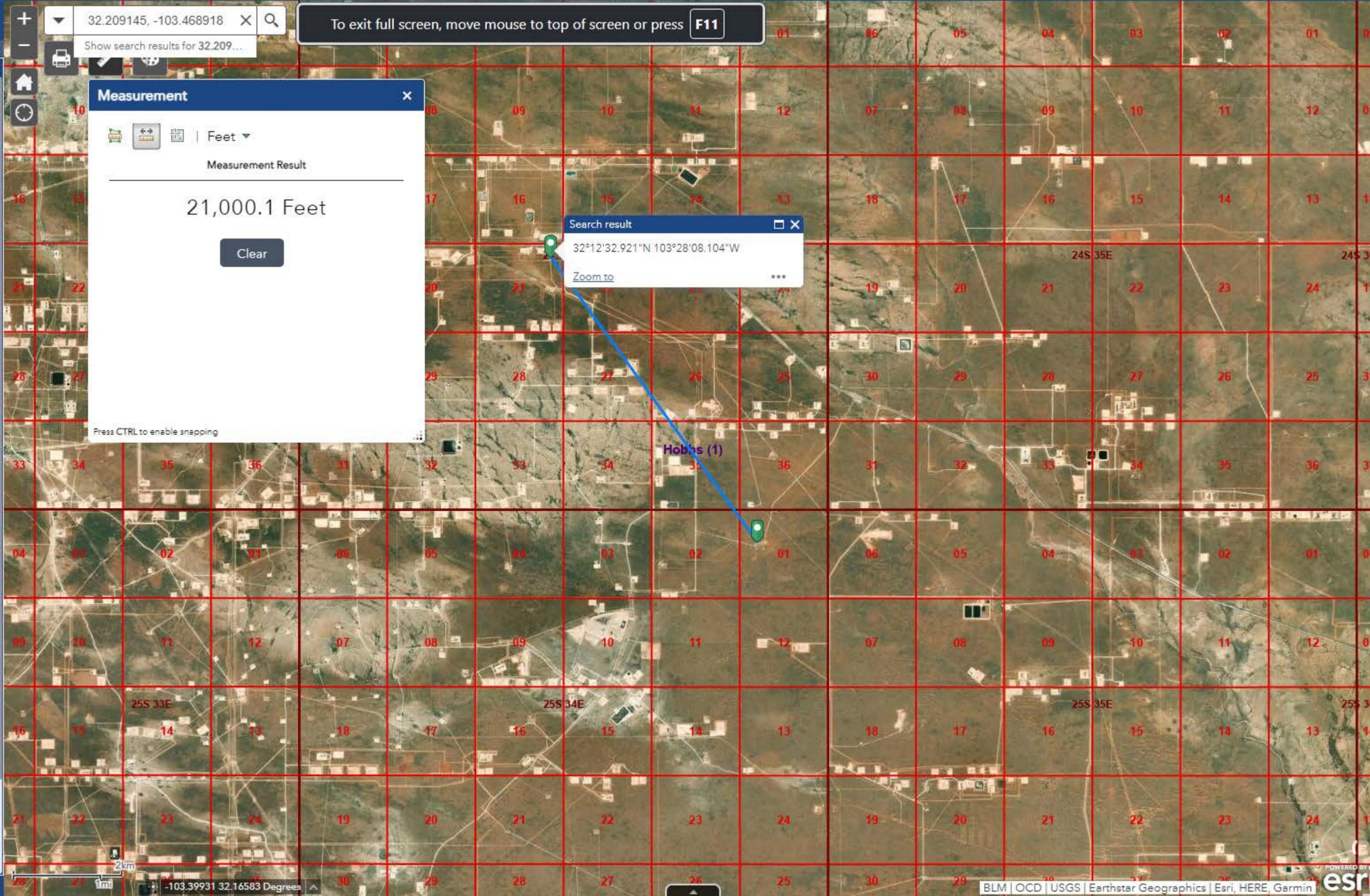
- OSE Water PODs
- M2.5+ Earthquakes (USGS 30-day)
- NM Oil and Gas Wells
- Incidents (C-141)
- Facilities
- USGS Groundwater wells
- Induced Seismicity Area
- Permian Basin Karst Areas
- BLM Oil Gas Leases Case Disp
- BLM Oil Gas Leases Production Status
- BLM Fluid Minerals Case
- BLM FM Agreements 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
- 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
- Wells - Large Scale
- Wells - Small Scale
- 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
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- Mineral and Surface Ownership
- Hydrology



Layer List

Layers

- OSE Water PODs
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- NM SLO Oil and Gas Leases
- NM SLO Participating Area and Unit Agreement Boundaries
- Political Boundaries and Transportation
- Mineral and Surface Ownership
- Hydrology

32.209145, -103.468918

To exit full screen, move mouse to top of screen or press **F11**

Show search results for 32.209...

Measurement

Feet

Measurement Result

1,289.2 Feet

Clear

Press CTRL to enable snapping

Search result

32°12'32.921"N 103°28'08.104"W

Zoom to

100m
300ft

-103.46984 32.21123 Degrees

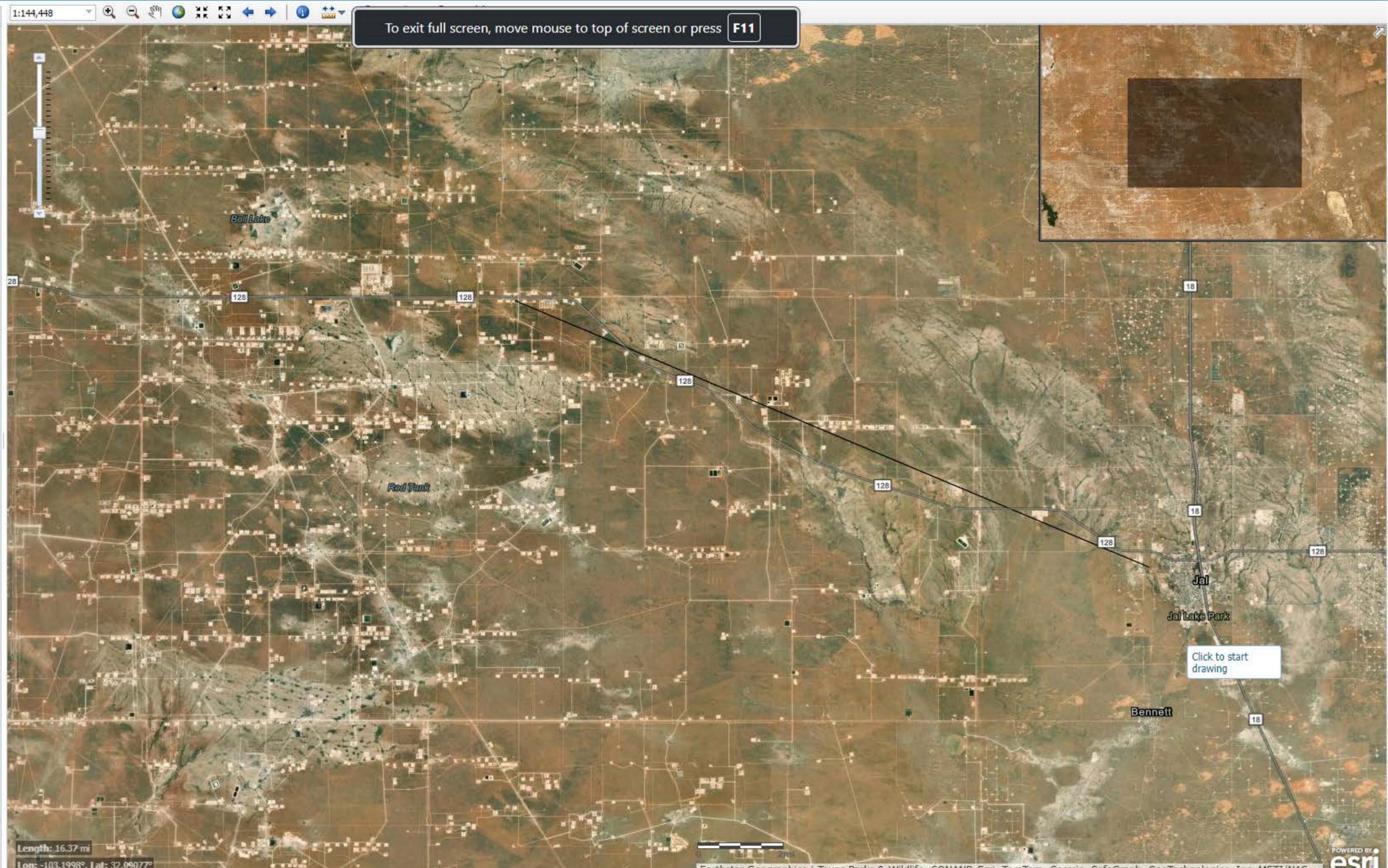
BLM | OCD | USGS | Maxar | Esri, HERE, Garmin, iPC

POWERED BY **esri**

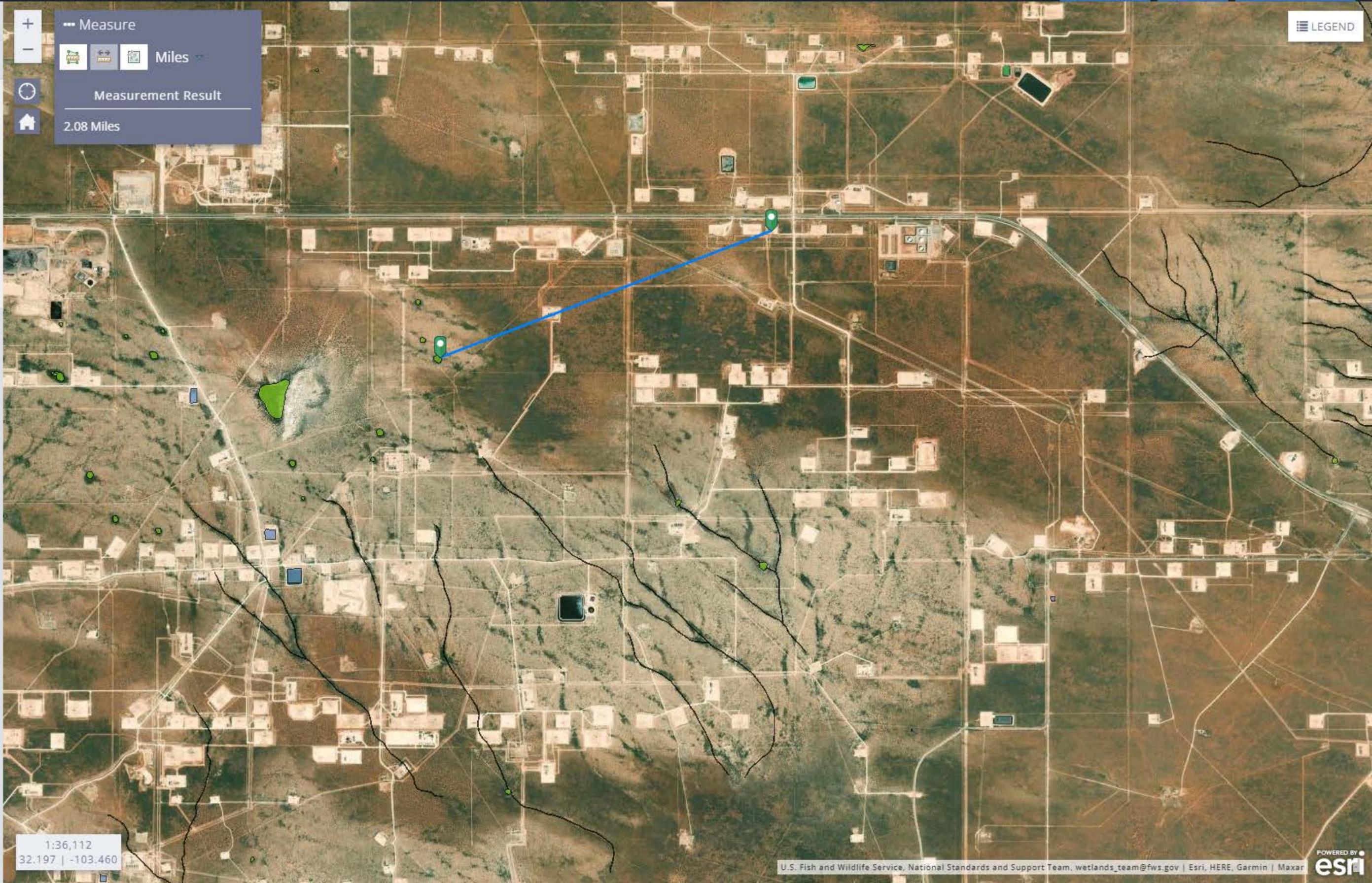
Legend Basemap Query

- NPDES Permits
- Water Quality Stations
- Nonpoint Source Program
- Impaired Waters 2024 IR FINAL
- Assessed Waters 2024 IR FINAL
- National Hydrography Dataset**
 - National Hydrography Dataset
 - Points
 - Gaging Station
 - Rapids
 - Spring/Seep
 - Waterfall
 - Well
 - Lines
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
 - Canal/Ditch
 - Pipeline
 - Artificial Path
 - Connector
 - Underground Conduit
 - Waterbodies
 - Perennial Lake
 - Intermittent Lake
 - Reservoir
 - Playa
 - Wetland
 - Areas
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
 - Wash
 - Canal/Ditch
 - Inundation Area
 - Dam
 - COVID Wastewater
 - COVID-19 OSHA Data
 - Watershed Boundary Dataset
 - Aquifer Sensitivity
 - National Land Cover Database
 - USGS Stream Gages
 - Legislative Boundaries
 - Places
 - Colonias

Released to Imaging: 7/31/2024 7:46:55 AM



- BASEMAPS >
- MAP LAYERS >
- Wetlands
 - Riparian
 - Riparian Mapping Areas
 - Data Source
 - Source Type
 - Image Scale
 - Image Year
 - Areas of Interest
 - FWS Managed Lands



Measure

Miles

Measurement Result

2.08 Miles

1:36,112
32,197 | -103,460

Layer List

Layers

- Registered Mines
- Mineral_and_Surface_Ownership
- Public Land Survey System (PLSS)

Search: 32.209145, -103.468918

Show search results for 32.209145, -103.468918

Measurement

Miles

Measurement Result

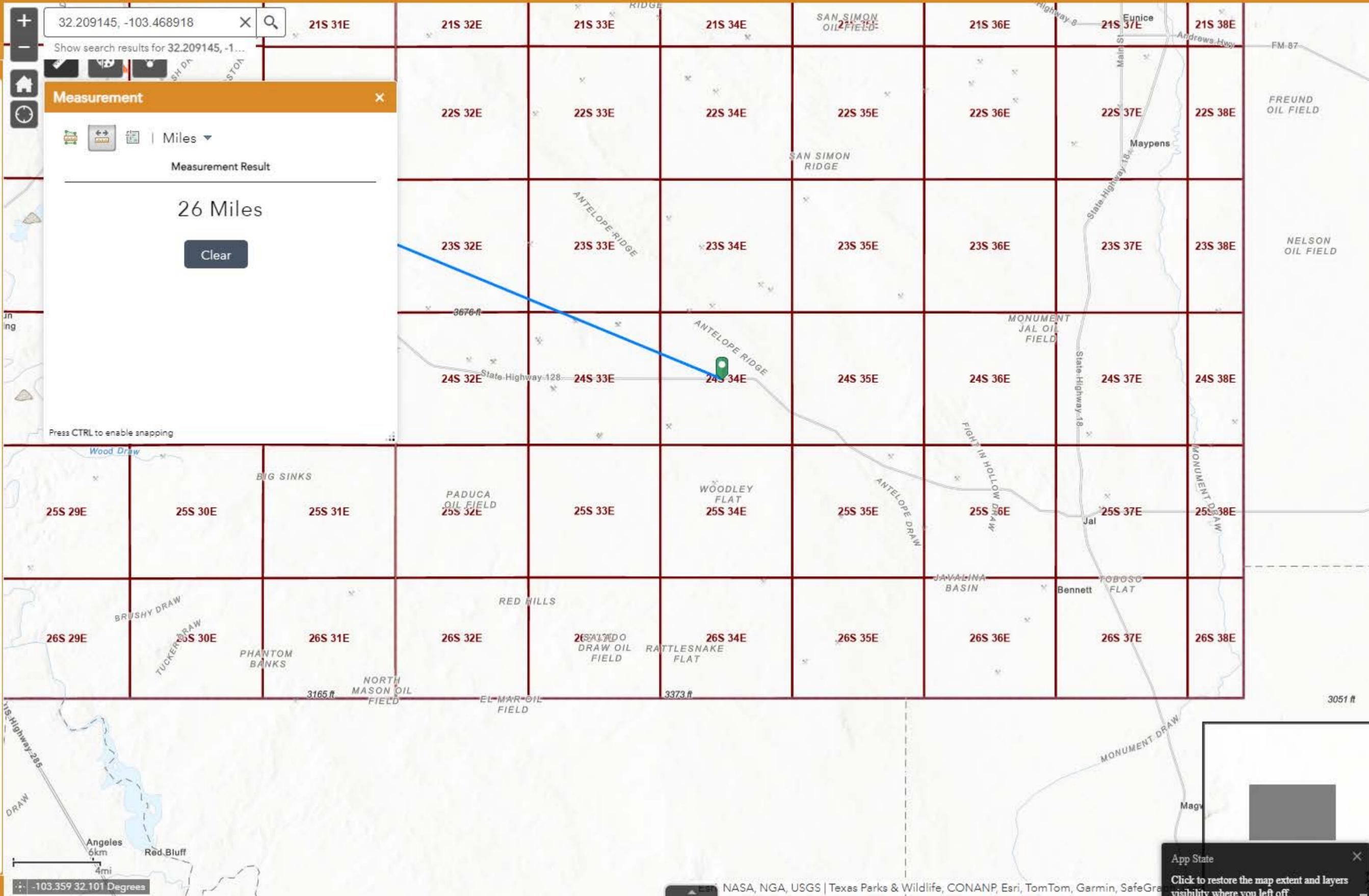
26 Miles

Clear

Press CTRL to enable snapping

Scale: 6km, 4mi

Coordinates: -103.359 32.101 Degrees



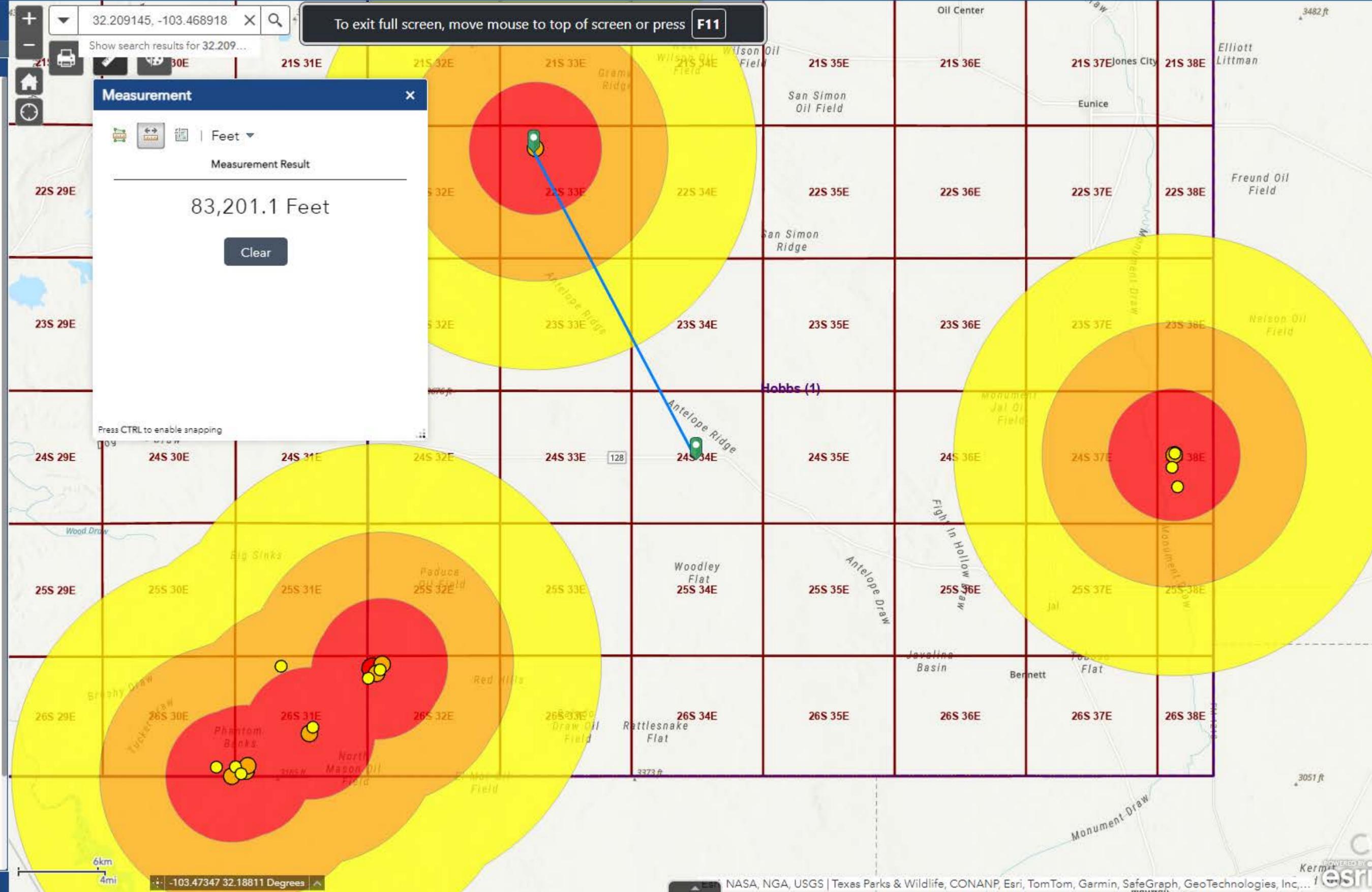
App State

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
- Wells - Large Scale
- Wells - Small Scale
- 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



To exit full screen, move mouse to top of screen or press F11

Measurement

Measurement Result

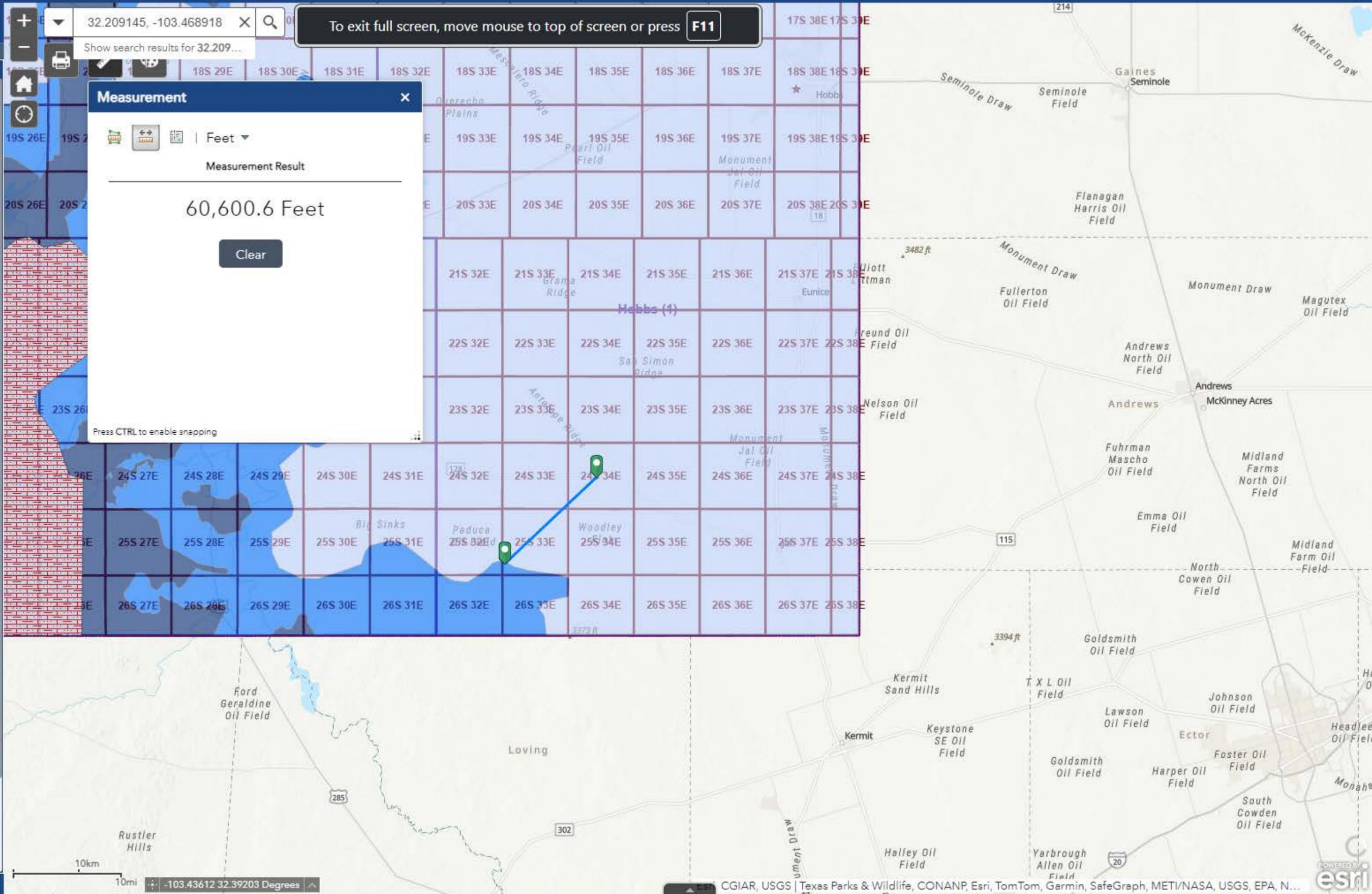
83,201.1 Feet

Clear

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
 - 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



Measurement

Feet

Measurement Result

60,600.6 Feet

Clear

To exit full screen, move mouse to top of screen or press **F11**

Find address or place

Measurement

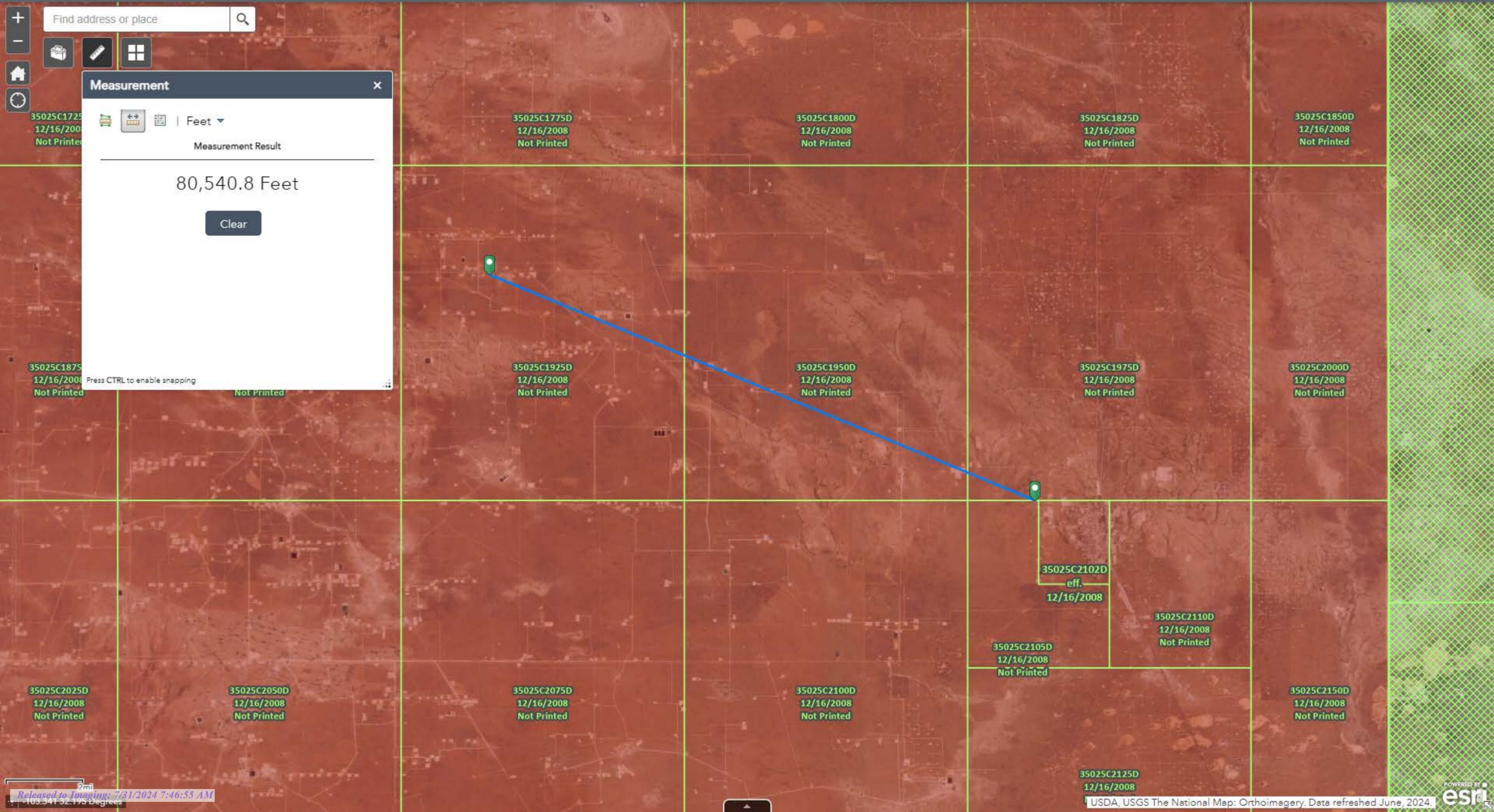
Feet

Measurement Result

80,540.8 Feet

Clear

Press CTRL to enable snapping



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 1625 N. French Dr., Hobbs, NM 88240
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 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS

Action 359503

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2219045002
Incident Name	NAPP2219045002 RAIDER FED COM 101H BATTERY @ 30-025-43408
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-43408] RAIDER FEDERAL COM #101H
Incident Facility	[fAPP2220951259] Raider 21 Battery 1

Location of Release Source

Please answer all the questions in this group.

Site Name	RAIDER FED COM 101H BATTERY
Date Release Discovered	07/08/2022
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 30 BBL Recovered: 30 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 30 BBL Recovered: 20 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 07/26/2024
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QUESTIONS, Page 3

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID:	372165
	Action Number:	359503
	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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (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	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	48
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4710
GRO+DRO (EPA SW-846 Method 8015M)	3800
BTEX (EPA SW-846 Method 8021B or 8260B)	2.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

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

On what estimated date will the remediation commence	06/13/2024
On what date will (or did) the final sampling or liner inspection occur	06/21/2024
On what date will (or was) the remediation complete(d)	06/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	3300
What is the estimated volume (in cubic yards) that will be reclaimed	360
What is the estimated surface area (in square feet) that will be remediated	13360
What is the estimated volume (in cubic yards) that will be remediated	900

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

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

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QUESTIONS, Page 4

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 07/26/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only

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

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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QUESTIONS, Page 6

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352552
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
What was the (estimated) number of samples that were to be gathered	100
What was the sampling surface area in square feet	14000

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	13360
What was the total volume (cubic yards) remediated	900
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	10000
What was the total volume (in cubic yards) reclaimed	900
Summarize any additional remediation activities not included by answers (above)	Remediation and reclamation activities have been completed at the site.

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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 07/26/2024
--	--

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QUESTIONS, Page 7

Action 359503

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 359503

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 359503
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved. A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/31/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/31/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Confirmation samples collected on 6/18/2024 and 6/24/2024 do not have corresponding sampling notifications.	7/31/2024