

<b>Spill Volume(Bbls) Calculator</b>		
<i>Inputs in blue, Outputs in red</i>		
Length(Ft)	Width(Ft)	Depth(In)
<u>60.000</u>	<u>30.000</u>	<u>1.750</u>
Cubic Feet Impacted		<u>262.500</u>
Barrels		<u>46.75</u>
Soil Type		Clay/Sand
Bbls Assuming 100% Saturation		<u>7.01</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels Released		7.10000

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

<b>Measurements</b>	
Length (ft)	60
Width (ft)	30
Depth (in)	1.750









## Remediation Summary & Soil Closure Request

### Spur Energy Partners, LLC Bone Yard 11 Fee #016H

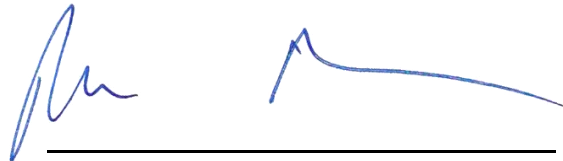
Eddy County, New Mexico  
Unit Letter B, Section 1, Township 20 South, Range 25 East  
Latitude 32.606454 North, Longitude 104.438028 West  
NMOCD Reference No. nAPP2317146882

Prepared By:

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



Matthew Grieco



Robbie Runnels



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Spur Energy Partners, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Bone Yard 11 Fee #016H, hereafter referred to as 'the Site'. Details of the release are summarized below:

### Location of Release Source

Latitude: 32.606454 Longitude: -104.438028

Provided GPS are in WGS84 format.

Site Name: <u>Bone Yard 11 Fee #016H</u>	Site Type: <u>Flowline</u>
Date Release Discovered: <u>6/20/2023</u>	API # (if applicable): <u>N/A</u>

Unit Letter	Section	Township	Range	County
B	1	20S	25E	Eddy

(ESTATE), A D & YOUNG, ROBERT O

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name (ESTATE))

### Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>7</u>	Volume Recovered (bbls) <u>4</u>
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
<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:

Weld on poly transfer line failed releasing produced water into pasture and two track road.

### 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 New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	U.S. Geological Survey
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	½ to 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	1 to 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	1 to 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	1 to 5 (mi.)
Any other fresh water well or spring?	1,000 (ft.) to ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	½ to 1 (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	½ to 1 (mi.)
Categorize the risk of this well/site being in a karst geology.	High
A 100-year floodplain?	1 to 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were 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.

Additional NMOCD Siting Criteria data were gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, 5, and Appendix F.

## 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 Reclamation Standards for the Site are as follows:

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

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

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

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

## 4.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	3/13/2024
On what date will (or was) the remediation complete(d)?	4/5/2024
What was the total surface area (sq. ft.) that has or will be remediated?	10,865
What was the total volume (cy) that has or will be remediated?	2,428
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Lea Land, Inc.
NMOCD Disposal Facility ID?	FEEM0112342028
Summarize any additional remediation activities not included by answers above.	See below

On June 30, 2023, Etech conducted an initial site assessment. During this assessment, two hand-augered soil bores (V1 and V2) were drilled within the boundaries of the contaminant release to determine the vertical extent of impacted soil. As the soil bores were drilled, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) using olfactory and visual assessments, and for chloride concentrations using a chloride test kit.

Based on field observations and test data, four delineation soil samples (V1@0', V1@6', V2@0', and V2@2') were submitted to a certified commercial laboratory, hereafter referred to as 'the laboratory', for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene and BTEX concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all submitted samples. TPH concentrations exceeded the applicable NMOCD Closure Criterion and Reclamation Standard in the soil sample V1@0'. Chloride concentrations exceeded the NMOCD Closure Criterion and Reclamation Standard in the soil samples V1@0' and V2@0'.

Based on laboratory analytical data, the vertical extent of impacted soil was adequately defined at sample points V1 and V2 and did not extend beyond six feet and two feet below ground surface, respectively.

On March 13, 2024, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, soil with contamination levels exceeding the NMOCD Closure Criteria and Reclamation Standards was excavated and stockpiled on-site, awaiting transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a chloride test kit were employed to screen the extent of contamination in the soil and to guide the excavation. Excavation continued at the sidewalls and

floor until field tests and observations suggested that concentrations of BTEX, TPH, and chloride met the applicable NMOCD Closure Criteria and Reclamation Standards. Representative five-point composite confirmation soil samples were collected from the sidewalls and floor of the excavation for submission to the laboratory for analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	7,520	V 2 @ 0'	6/30/2023	0	Excavated
TPH	2,090	V 1 @ 0'	6/30/2023	0	Excavated
GRO+DRO	1,600	V 1 @ 0'	6/30/2023	0	Excavated
Benzene	<0.050	All samples	Dates between 6/30/23 and 3/26/24	Various depths between 0' and 11'	In-Situ and Excavated
BTEX	<0.300	All samples	Dates between 6/30/23 and 3/26/24	Various depths between 0' and 11'	In-Situ and Excavated

Please reference Table 1 for additional information.

On March 13, 2024, Etech collected three confirmation soil samples (FL-1@6', FL-2@6', and WW-1) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, and TPH concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples. Chloride concentrations were below the applicable NMOCD Closure Criterion and Reclamation Standard in all of the submitted soil samples with the exception of sample FL-1@6', which had a chloride concentration of 608 mg/kg.

On March 14, 2024, Etech collected three confirmation soil samples (FL-5@8', EW-1, and NW-1) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 15, 2024, Etech collected six confirmation soil samples (FL-3@9', FL-4@9', and FL-6@10' to FL-9@10') from the sidewalls and floor of the excavated area. These samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 18, 2024, Etech collected three confirmation soil samples (FL-10@11', FL-11@11', and FL-12@6') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 20, 2024, Etech collected six confirmation soil samples (FL-1@7', FL-13@4', FL-15@9', FL-16@2', FL-17@4', and FL-18@10') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 22, 2024, Etech collected five confirmation soil samples (FL-19@10', FL-20@8', FL-21@2.5', FL-22@3', FL-23@11') from the sidewalls and floor of the excavated area. These samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 25, 2024, Etech collected six confirmation soil samples (FL-24@2', FL-25@3', FL-26@2', FL-27@4', FL-28@6', and FL-29@2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, and TPH concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples. Chloride concentrations were below the applicable NMOCD Closure Criterion and Reclamation Standard in all of the submitted soil samples with the exception of sample FL-29@2', which had a chloride concentration of 896 mg/kg.

On March 26, 2024, Etech collected 56 confirmation soil samples (FL-14@11', FL-30@4', FL-31@5' to FL-33@5', FL-34@2', FL-35@4' to FL-38@4', FL-39@5', EW-2 to EW-15, NW-2 to NW-4, NW-6, SW-1 to SW-4, SW-6 to SW-10, WW-2 to WW-10, and WW-12 to WW-20) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

On March 28, 2024, Etech collected four confirmation soil samples (FL-29@4', NW-5, SW-5, and WW-11) from the sidewalls and floor of the excavated area. These samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that benzene, BTEX, GRO+DRO, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in all of the submitted soil samples.

The final dimensions of the excavated area were approximately 50 to 230 feet in length, 15 to 110 feet in width, and two to 11 feet in depth. During the course of remediation activities, Etech transported approximately 2,428 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,430 cubic yards of locally sourced, non-impacted material to the Site for use as backfill.

Confirmation soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site and Sample Location Map". A soil chemistry table is provided as Table 1. Field data are provided in Appendix B. A photographic log of remediation activities is provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Regulatory correspondence is provided in Appendix E. Electronic C-141 supplemental Site characterization maps are provided in Appendix F.

## 5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	10,865
What was the total volume (cy) reclaimed?	1,435
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	0
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	0

Upon receiving laboratory analytical results from the confirmation soil samples, the excavated areas were backfilled with locally sourced, non-impacted material that is similar to the original, and placed as close as possible to its original location. The affected area was contoured and compacted as necessary to control erosion, ensure stability, and preserve surface water flow as much as possible. Areas not located on production pads or lease roads will be reseeded with a seed mixture that has been approved by the relevant agency or landowner, which is free of noxious weeds, during the first suitable growing season following the Site's closure.

## 6.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Soil with contamination levels exceeding the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples show that in-situ concentrations of benzene, BTEX, GRO+DRO, TPH, and chloride are below the applicable NMOCD Closure Criteria and Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends that Spur Energy Partners, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request that closure be granted to the Bone Yard 11 Fee #016H release site.

## 7.0 LIMITATIONS

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

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



## **8.0 DISTRIBUTION**

***Spur Energy Partners, LLC***

*9655 Katy Freeway*

*Suite 500*

*Houston, TX 77024*

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

*Oil Conservation Division, District 2*

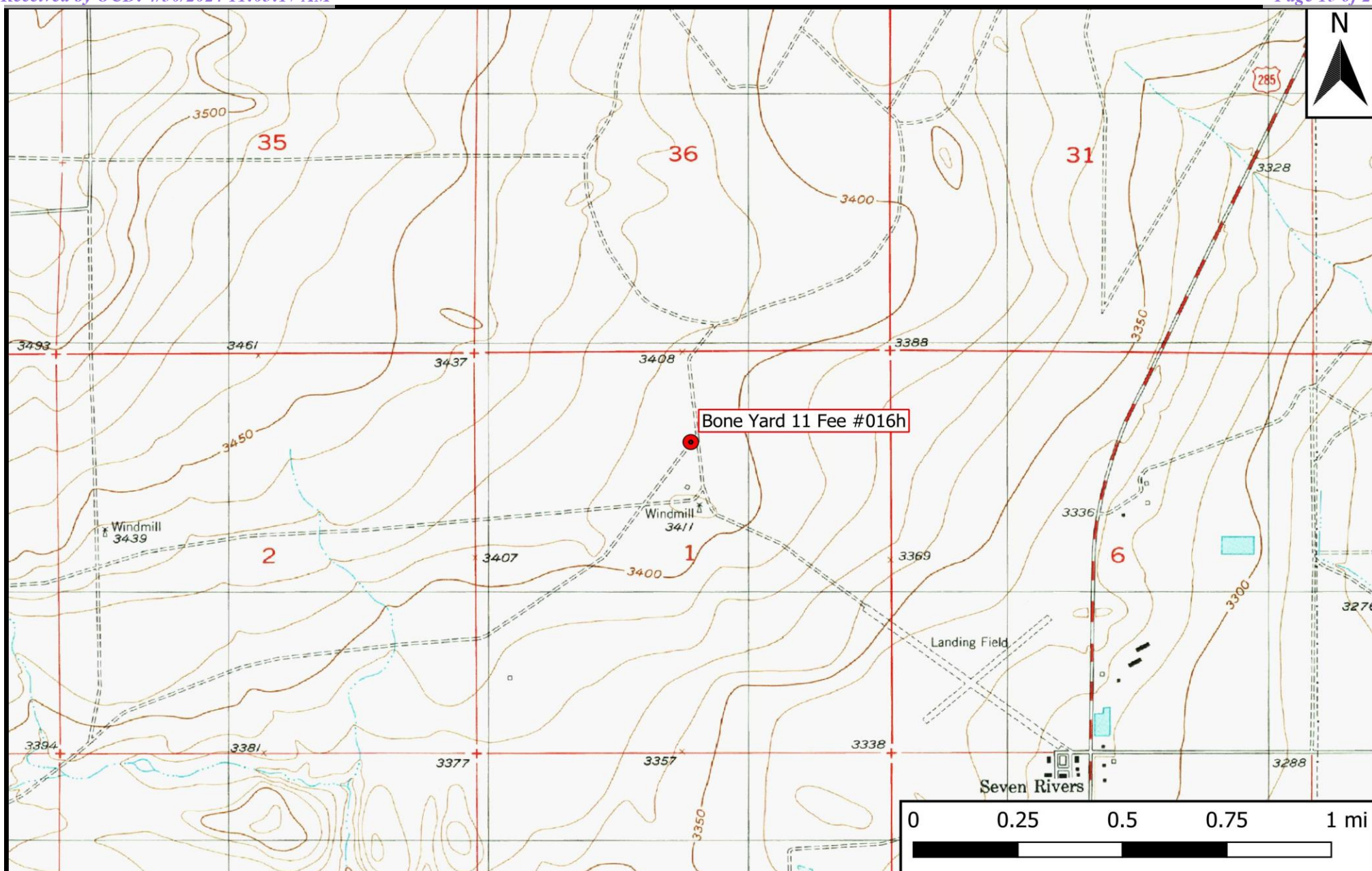
*811 S. First Street*

*Artesia, NM 88210*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

● Site Location

## Figure 1

Topographic Map  
 Spur Energy Partners, LLC  
 Bone Yard 11 Fee #016h  
 GPS: 32.606454, -104.438028  
 Eddy County

**ETECH**

Environmental & Safety Solutions, Inc.



Drafted: mag

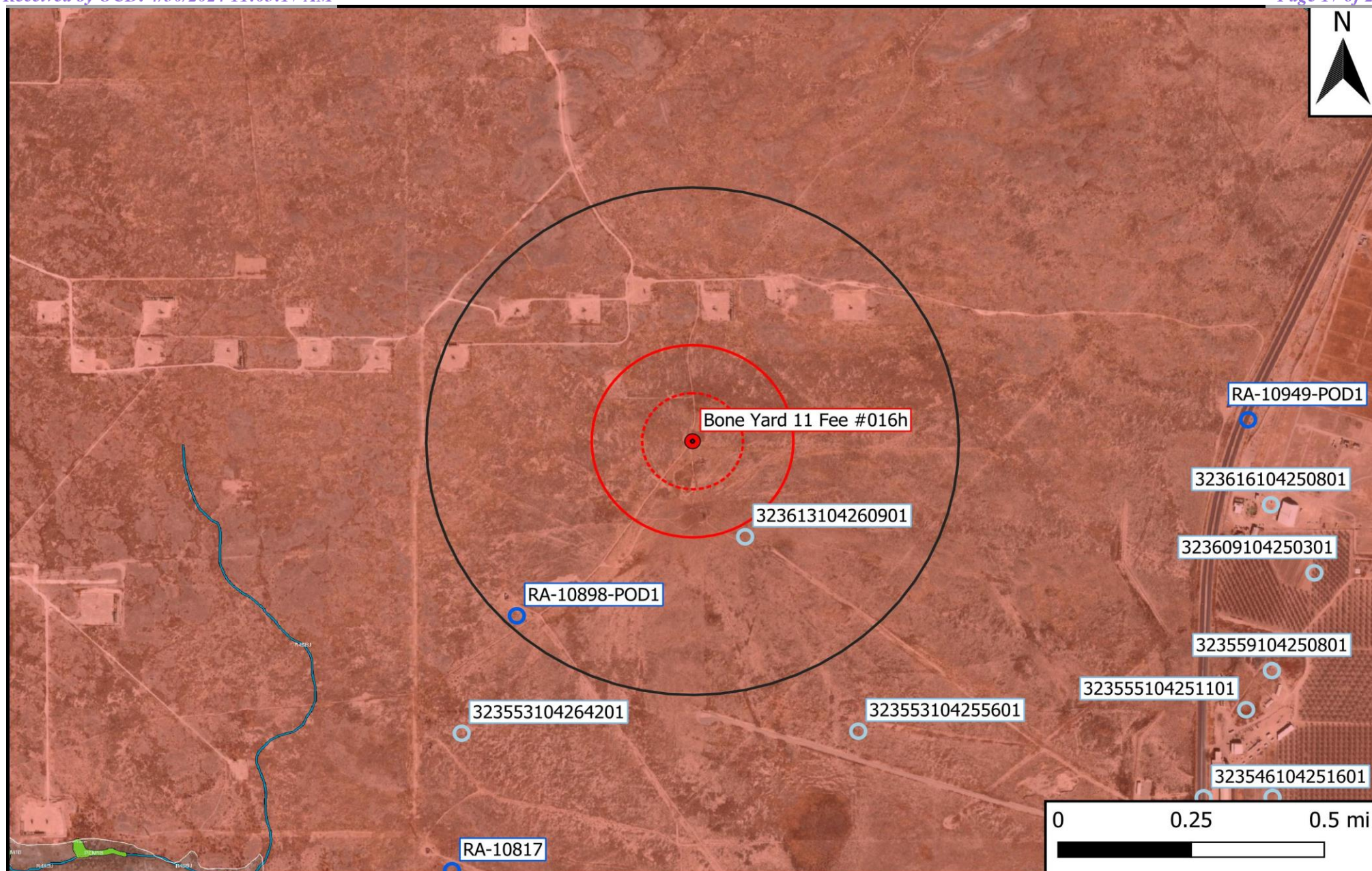
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Date: 7/11/23

## **Figure 2**

### **Aerial Proximity Map**





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

**Figure 2**  
Aerial Proximity Map  
Spur Energy Partners, LLC  
Bone Yard 11 Fee #016h  
GPS: 32.606454, -104.438028  
Eddy County

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Environmental & Safety Solutions, Inc.

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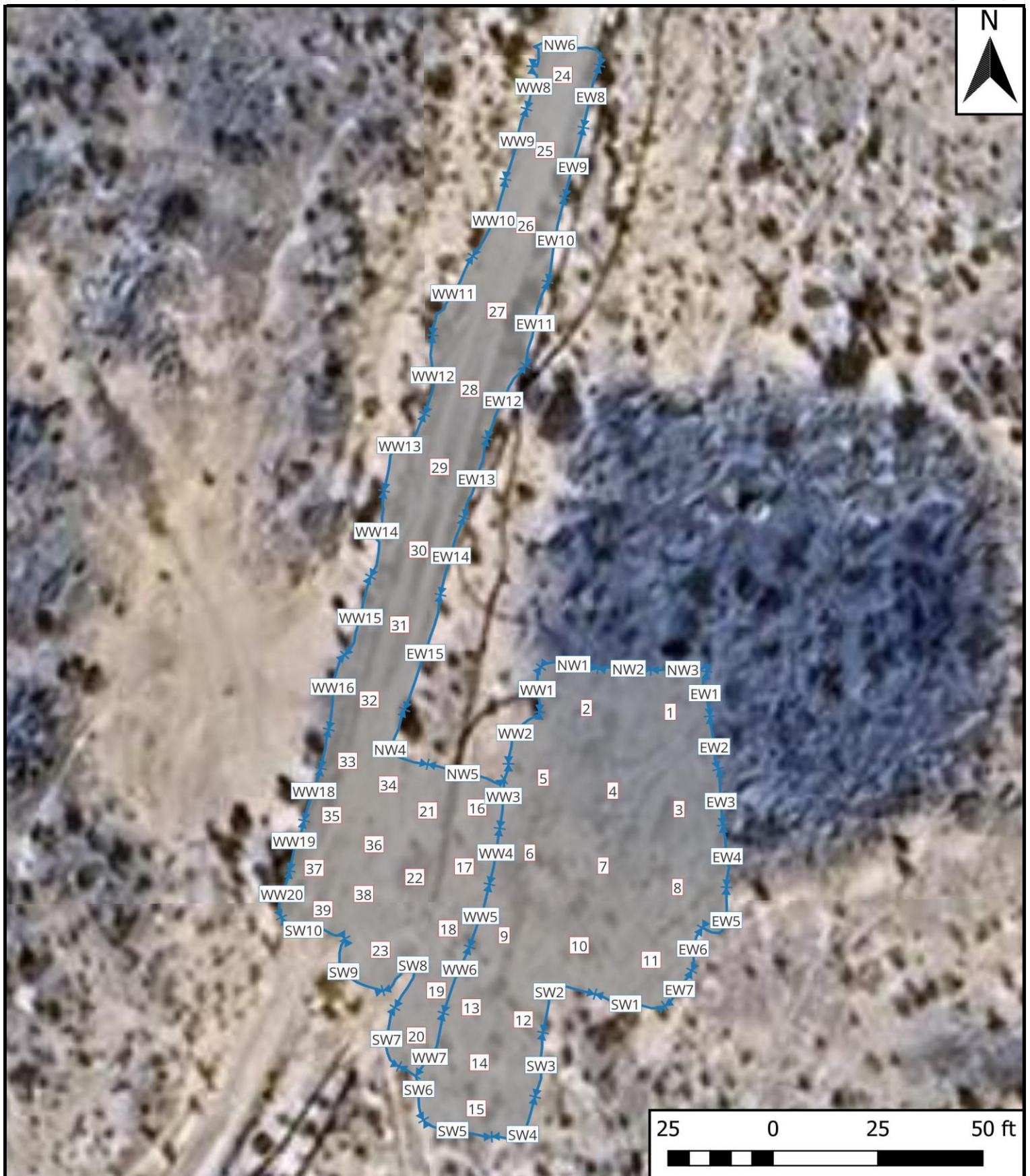
Checked: jwl

Date: 7/11/23

## **Figure 3**

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





## Legend

- Floor Sample
- <==> Wall Sample
- Excavated Area

**Figure 3**

Site and Sample Location Map  
 Spur Energy Partners, LLC  
 Bone Yard 11 Fee #016h  
 GPS: 32.606454, -104.438028  
 Eddy County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: rr

Date: 4/15/24

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



**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Bone Yard 11 Fee #016h**  
**NMOCD Ref. #: nAPP2317146882**

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Soil Samples											
V 1 @ 0'	6/30/2023	0	Excavated	<0.050	<0.300	<10.0	1,600	1,600	487	2,090	6,480
V 1 @ 6'	6/30/2023	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
V 2 @ 0'	6/30/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,520
V 2 @ 2'	6/30/2023	2	Excavated	<0.050	<0.300	<10.0	22.4	22.4	<10.0	22.4	544
Excavation Confirmation Soil Samples - Floors											
FL - 1 @ 6'	3/13/2024	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL - 1 @ 7'	3/20/2024	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL - 2 @ 6'	3/13/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL - 3 @ 9'	3/15/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL - 4 @ 9'	3/15/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL - 5 @ 8'	3/14/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL - 6 @ 10'	3/15/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL - 7 @ 10'	3/15/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL - 8 @ 10'	3/15/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL - 9 @ 10'	3/15/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL - 10 @ 11'	3/18/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL - 11 @ 11'	3/18/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL - 12 @ 6'	3/18/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL - 13 @ 4'	3/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL - 14 @ 11'	3/26/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL - 15 @ 9'	3/20/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL - 16 @ 2'	3/20/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL - 17 @ 4'	3/20/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL - 18 @ 10'	3/20/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL - 19 @ 10'	3/22/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL - 20 @ 8'	3/22/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL - 21 @ 2.5'	3/22/2024	2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL - 22 @ 3'	3/22/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL - 23 @ 11'	3/22/2024	11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL - 24 @ 2'	3/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL - 25 @ 3'	3/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL - 26 @ 2'	3/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL - 27 @ 4'	3/25/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL - 28 @ 6'	3/25/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL - 29 @ 2'	3/25/2024	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896
FL - 29 @ 4'	3/28/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL - 30 @ 4'	3/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL - 31 @ 5'	3/26/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL - 32 @ 5'	3/26/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL - 33 @ 5'	3/26/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Bone Yard 11 Fee #016h**  
**NMOCD Ref. #: nAPP2317146882**

NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL - 34 @ 2'	3/26/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL - 35 @ 4'	3/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL - 36 @ 4'	3/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL - 37 @ 4'	3/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL - 38 @ 4'	3/26/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL - 39 @ 5'	3/26/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
Excavation Confirmation Soil Samples - Walls											
EW - 1	3/14/2024	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
EW - 2	3/26/2024	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW - 3	3/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW - 4	3/26/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW - 5	3/26/2024	0-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW - 6	3/26/2024	0-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW - 7	3/26/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW - 8	3/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
EW - 9	3/26/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW - 10	3/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
EW - 11	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
EW - 12	3/26/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
EW - 13	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
EW - 14	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
EW - 15	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW - 1	3/14/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
NW - 2	3/26/2024	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW - 3	3/26/2024	0-7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW - 4	3/26/2024	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW - 5	3/28/2024	0-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW - 6	3/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW - 1	3/26/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW - 2	3/26/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW - 3	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW - 4	3/26/2024	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW - 5	3/28/2024	0-9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW - 6	3/26/2024	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW - 7	3/26/2024	0-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW - 8	3/26/2024	0-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW - 9	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW - 10	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW - 1	3/13/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW - 2	3/26/2024	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW - 3	3/26/2024	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH, and Chloride in Soil**  
**Spur Energy Partners, LLC**  
**Bone Yard 11 Fee #016h**  
**NMOCD Ref. #: nAPP2317146882**

<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
<b>NMOCD Reclamation Standard</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>100</b>	<b>600</b>
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
WW - 4	3/26/2024	2-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW - 5	3/26/2024	4-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW - 6	3/26/2024	4-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW - 7	3/26/2024	8-11	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW - 8	3/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW - 9	3/26/2024	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
WW - 10	3/26/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
WW - 11	3/28/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW - 12	3/26/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW - 13	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW - 14	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW - 15	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW - 16	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW - 17	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW - 18	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW - 19	3/26/2024	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW - 20	3/26/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

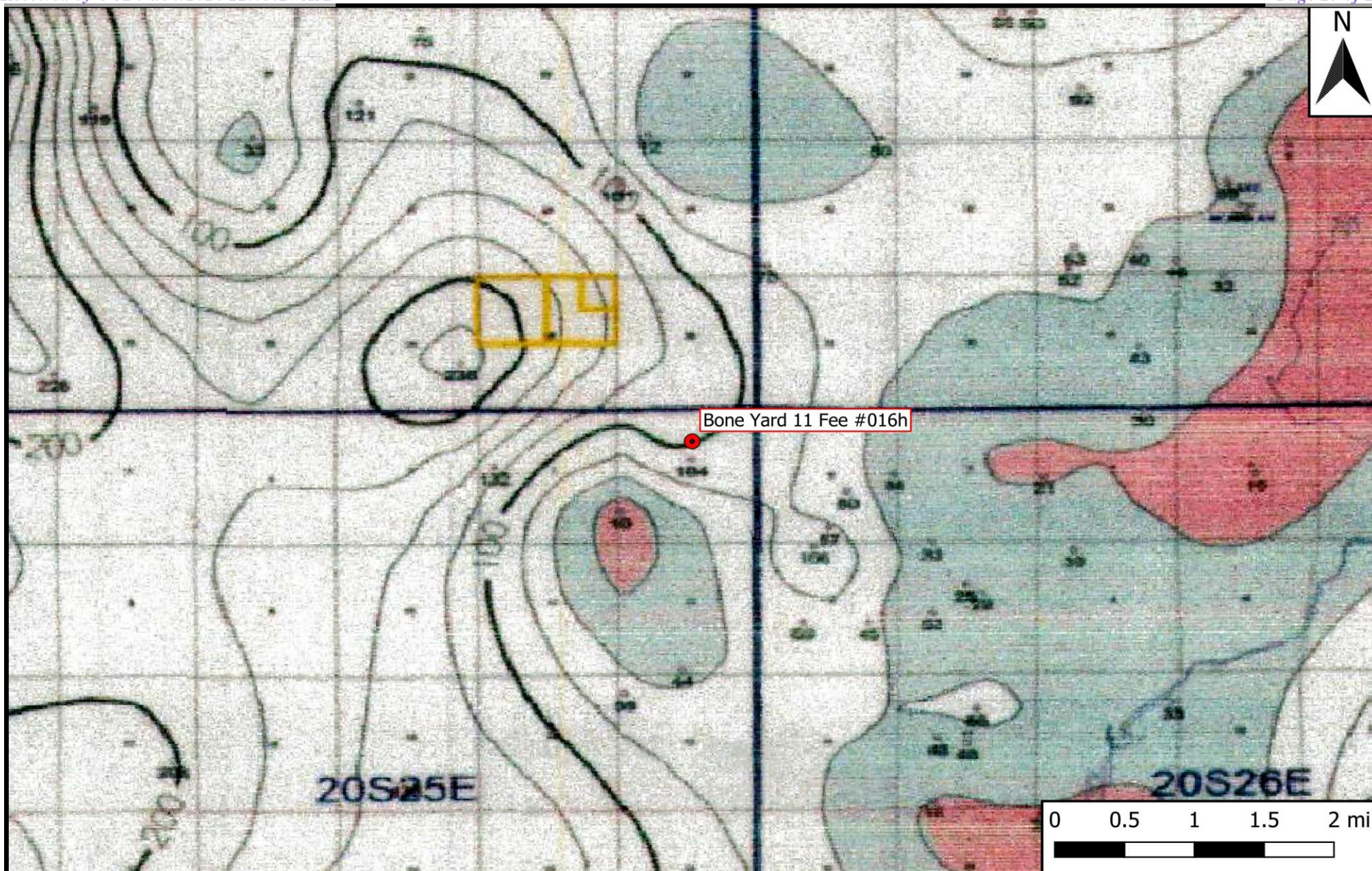
Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



**Legend**

- Site Location

**Figure 4**

Inferred Depth to Groundwater Trend Map  
Spur Energy Partners, LLC  
Bone Yard 11 Fee #016h  
GPS: 32.606454, -104.438028  
Eddy County

**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 7/11/23





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
<a href="#">RA 10898 POD1</a>		RA	ED	2	1	3	01	20S	25E	552198	3607248*	765	810	121	689	

Average Depth to Water: 121 feet

Minimum Depth: 121 feet

Maximum Depth: 121 feet

**Record Count:** 1

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 552729.26

**Northing (Y):** 3607799.12

**Radius:** 804.67

\*UTM location was derived from PLSS - see Help

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

7/11/23 12:29 PM

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)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
RA	10898 POD1	2	1	3	01	20S	25E	552198	3607248*

---

<b>Driller License:</b>	331	<b>Driller Company:</b>	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.						
<b>Driller Name:</b>									
<b>Drill Start Date:</b>	02/17/2006	<b>Drill Finish Date:</b>	03/08/2006		<b>Plug Date:</b>				
<b>Log File Date:</b>	03/27/2006	<b>PCW Rev Date:</b>			<b>Source:</b>	Artesian			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>			<b>Estimated Yield:</b>	1000 GPM			
<b>Casing Size:</b>	8.63	<b>Depth Well:</b>	810 feet		<b>Depth Water:</b>	121 feet			

---

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	460	802	Limestone/Dolomite/Chalk

---

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	542	802

---

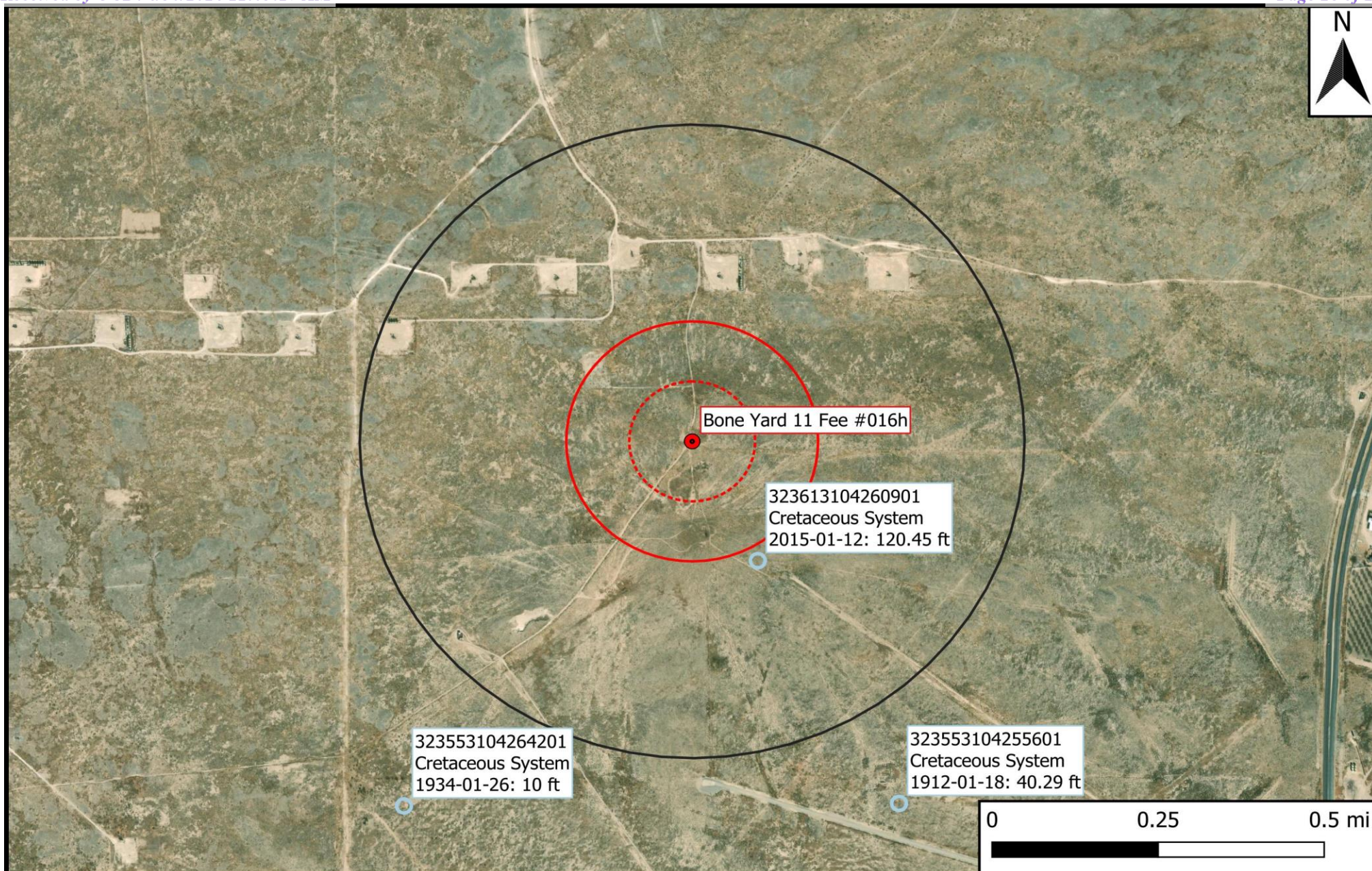
\*UTM location was derived from PLSS - see Help

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

7/11/23 12:30 PM

POINT OF DIVERSION SUMMARY



**Legend**

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ⊞ 1000 Ft Radius
- 0.5 Mi Radius

**Figure 5**

USGS Well Proximity Map  
 Spur Energy Partners, LLC  
 Bone Yard 11 Fee #016h  
 GPS: 32.606454, -104.438028  
 Eddy County



Drafted: mag

Checked: jwl

Date: 7/11/23





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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 323553104255601

Minimum number of levels = 1

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### USGS 323553104255601 20S.25E.01.44111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°35'53", Longitude 104°25'56" NAD27

Land-surface elevation 3,358 feet above NAVD88

The depth of the well is 525 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

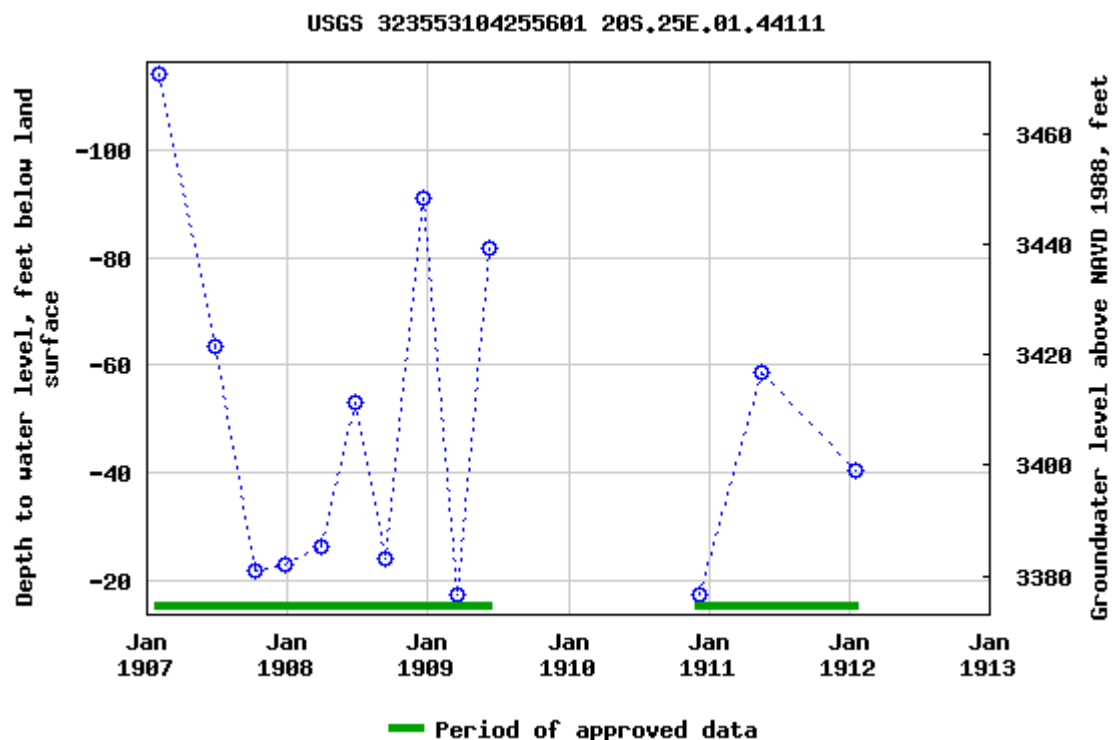
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**Title: Groundwater for USA: Water Levels**

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Agency code = usgs

site\_no list =

- 323553104264201

Minimum number of levels = 1

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### USGS 323553104264201 20S.25E.01.33111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°35'53", Longitude 104°26'42" NAD27

Land-surface elevation 3,390 feet above NAVD88

The depth of the well is 528 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

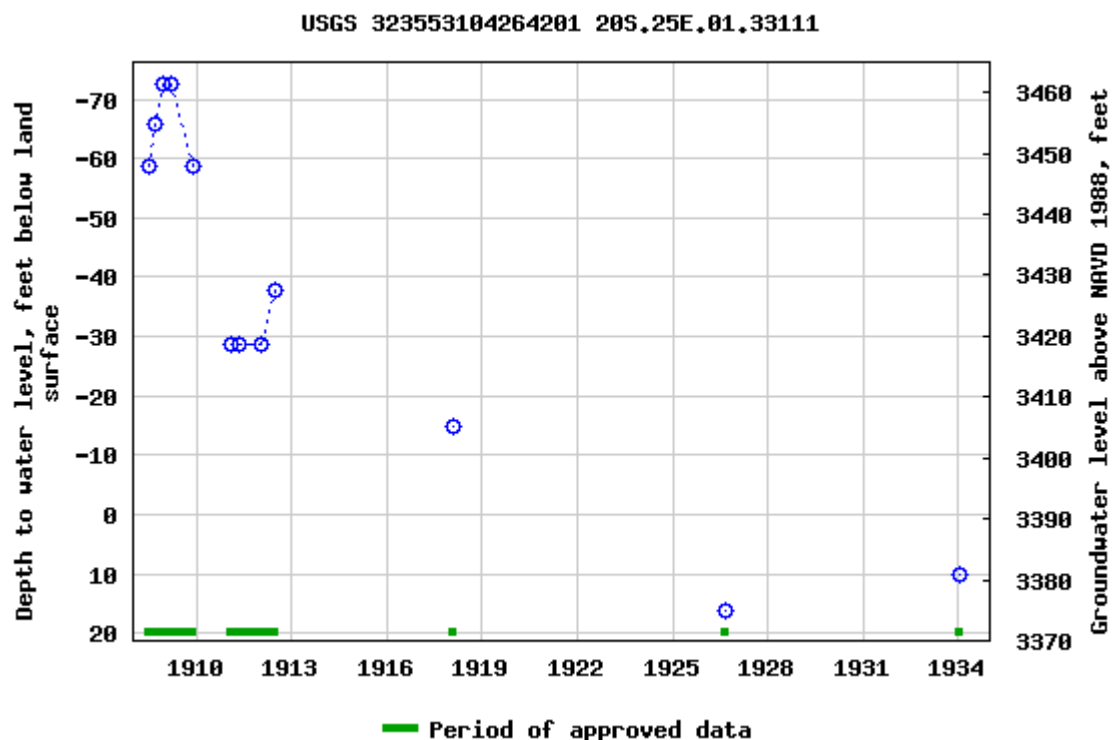
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**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2023-07-11 14:31:58 EDT

0.53 0.47 nadww01



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## 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 =

- 323613104260901

Minimum number of levels = 1

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

### USGS 323613104260901 20S.25E.01.233121

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°36'13", Longitude 104°26'09" NAD27

Land-surface elevation 3,405 feet above NAVD88

The depth of the well is 200 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

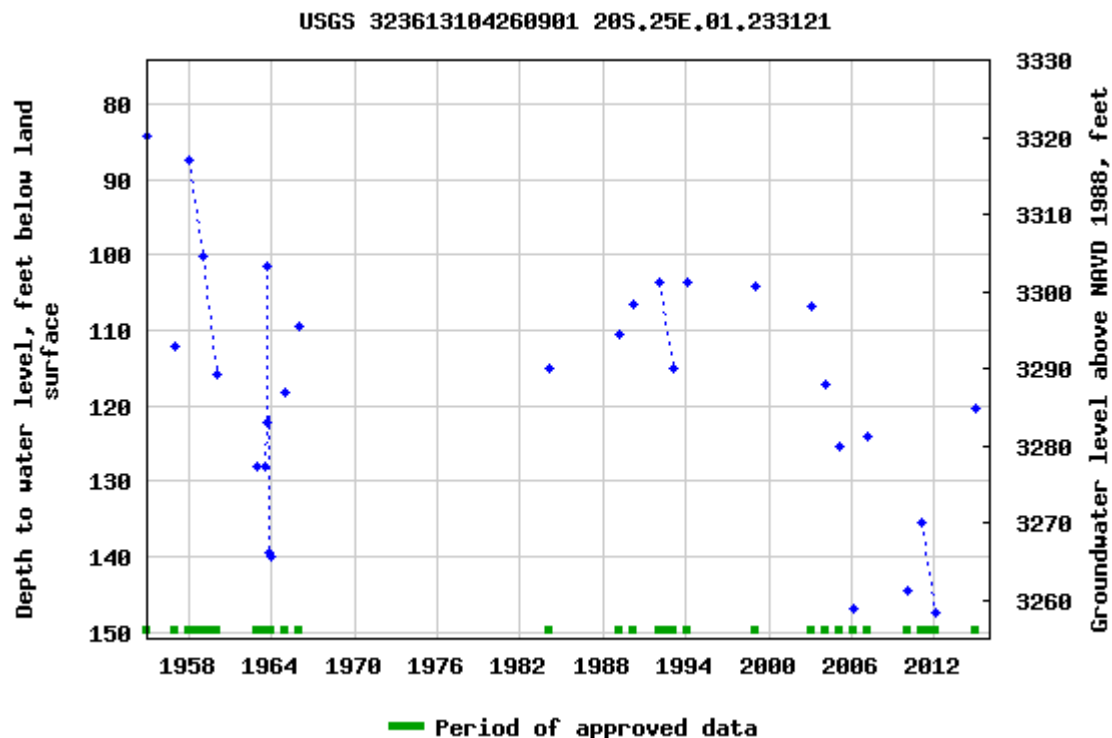
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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: 2023-07-11 14:31:58 EDT

0.6 0.49 nadww01

## **Appendix B**

### **Field Data**



# Sample Log

Date: 3.13.24

Project: Bone Yard 11 Fee #016h

Project Number: 18359 Latitude: 32.601809 Longitude: -104.4572301

Sample ID	PID/Odor	Chloride Conc.	GPS
NW-1	—	11616	
FL-1	—	1220	
NW-1	—	1312	
FL-1	—	1312	
FL-1	—	776	
NW-1	—	776	
FL-1 @ 6'	—	292	
FL-2 @ 6'	—	3108	
NW-1	—	1220	
WW-1	—	840	
EW-1	—	908	
NW-1	—	1312	
WW-1	—	<del>1312</del> <120	
EW-1	—	1312	
NW-1	—	840	
EW-1	—	1610	
NW-1	—	242	
EW-1	—	1136	
EW-1	—	412	
FL-3 @ 10'	—	840	
FL-4 @ 10'	—	1056	
FL-5 @ 10'	—	716	
FL-6 @ 10'	—	908	
FL-3 @ 7'	—	1610	
FL-4 @ 7'	—	908	
FL-5 @ 7'	—	500	
FL-3 @ 8'	—	1004	
FL-4 @ 8'	—	840	
FL-5 @ 8'	—	368	
FL-6 @ 8'	—	1004	
L-3 @ 9'	—	368	
L-4 @ 9'	—	144	
L-6 @ 9'	—	400	
L-7 @ 9'	—	500	
L-8 @ 9'	—	600	
L-6 @ 10'	—	600	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

Date:

3-15-24

Project: Bone Yard 11 Fee #016h

Project Number:

18359

Latitude:

32.601809

Longitude:

-104.4572301

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-7@10'	—	368 SW-	<120
FL-8@10'	—	368 Surface	120
FL-8@10'	—	408 Surface	196
FL-9@8'	—	1284 Surface	1860
FL-9@9'	—	1025 FL-16@1'	1004
FL-9@10'	—	196 FL-16@2'	144
FL-10@10'	—	1004 FL-17@2'	500
FL-10@11'	—	<120 FL-17@3'	456
SW-	—	228 FL-17@4'	368
FL-11@11'	—	196 FL-18@4'	660
FL-12@2'	—	1932 FL-18@5'	908
East Wall	—	292 FL-18@6'	840
FL-12@4'	—	600 FL-18@10'	368
FL-12@5'	—	548 FL-19@10'	368
FL-12@16'	—	140 FL-20@10'	500
SW-	—	292 SW-	196
FL-13@4'	—	368 FL-20@8'	196
FL-14@4'	—	1040 Surface 1	1508
FL-14@10'	—	1004 Surface 2	1860
SW	—	552 Surface 3	1732
FL-14@10'	—	368 Surface 4	776
FL-15@5'	—	600 FL-21@2 1/2'	332
SW-	—	896 WW	172
Surface 1	—	2582 FL-22@3'	172
FL-15@6'	—	552 FL-23@3'	716
SW-	—	1220 WW	980
FL-15@9'	—	196 FL-23@4'	552
SW-	—	908 FL-23@5'	500
SW-	—	776 WW1	1004
SW-	—	600 WW2	368
SW-	—	712 WW3	<120
SW-	—	548 WW4	196
SW-	—	908 FL-23@8'	552
SW-	—	712 FL-23@11'	196
SW-	—	500 SW-	<120
FL-16@7'	—	120 FL-24@2'	776

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

## Sample Log

Date:

3.22.24

Project: Bone Yard 11 Fee #016h

Project Number:

18359

Latitude:

32.601809

Longitude:

-104.4572301

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-25 @ 2' - test	1312	FL-35 @ 2' - 1136	
WW - test	1732	FL-35 @ 3' - 1056	
NW1 - test	1312	East wall #2 - 120	
NW2 - Test	<120	East wall #3 - 120	
FL-24 - Test	<120	East wall #4 - 120	
FL-24 @ 2'	332	FL-35 @ 4' - 412	
FL-25 @ 2'	660	East wall #5 - 120	
FL-25 @ 3'	120	East wall #6 - 120	
FL-26 @ 2'	776	East wall #7 - 120	
FL-26 @ 2'	716	NW #2 - 196	
FL-26 @ 2'	609	NW #3 - 1284	
FL-26 @ 2'	196	NW #3 - 228	
FL-27 @ 1'	1136	NW #4 - 196	
FL-27 @ 2'	660	WW #12 - 120	
FL-27 @ 3'	456	FL-36 @ -1000	
FL-27 @ 4'	196	NW #6 - 228	
FL-28 @ 2'	1312	SW #1 - 120	
FL-28 @ 3'	500	SW #2 - 120	
FL-28 @ 4'	552	SW #3 - 196	
FL-28 @ 5'	196	SW #4 - 196	
FL-29 @ 2'	412	SW #10 - 196	
FL-30 @ 2 1/2'	776	SW #7 - 196	
FL-30 @ 4'	228	SW #8 - 228	
FL-31 @ 2'	552	WW #2 - 228	
FL-31 @ 4'	500	WW #3 - 196	
FL-31 @ 5'	228	WW #4 - 196	
FL-32 @ 5'	196	WW #5 - 228	
FL-33 @ 5'	172	WW #6 - 228	
FL-34 @	<120	WW #7 - 228	
East Wall #1	1616	WW #8 - 196	
West Wall #9	292	FL-36 @ 4' - 368	
East wall #2	1408	EW #8 - 196	
West wall #10	260	EW #9 - 196	
East wall #12	196	EW #10 - 368	
East wall #5	1616	EW #11 - 368	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

Date: 3.21.24

Project: Bone Yard 11 Fee # 016h

Project Number: 18359

Latitude: 32.601809 Longitude: -104.4572301

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

**Sidewall = SW #1 etc**

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

**Stockpile = Stockpile #1**

GPS Sample Points, Center of Comp Areas



# Remediation Log

Project: Bone Yard 11 Fee #016h

Project Number: 18359 Latitude: 32.601809 Longitude: -104.4572301

Confirmation of Active One Call? One Call No. \_\_\_\_\_

Confirmation of On-Site JSA? \_\_\_\_\_

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Date:

Notes

Yds

\*\*\*\*Begin Remediation Activities\*\*\*\*

Out In

3-15-24

excavating haul out to disposal, sample soil

160 8

3-18-24

"excavating haul out to disposal sample soil

260 13

3-19-24

excavating haul out to disposal sample soil

140 7

3-20-24

excavating haul out to disposal sample soil

220 11

3-21-24

excavating haul out to disposal sample soil

240 12

3-22-24

excavating haul out to disposal sample soil

220 11

3-23-24

excavating haul out to disposal sample soil

220 11

3-25-24

excavating haul out to disposal sample soil

220 11

3-26-24

" " " " " " " "

260

3-27-24

loading trucks

1160

3-28-24

" " " " " " " "

280

4-1-24

Hauling out, making up backfill material at pit & hauling in backfill material, sample backfill material.

48 360

4-2-24

Haul in & Backfill excavation

75

4-3-24

" " " "

615

4-4-24

" " " "

720

4-5-24

Backfill excavation, move poly liner back, and drive up backfilled area.

\*\*\*\*Begin Backfill Activities\*\*\*\*

\*\*\*\*Complete Remediation Activities\*\*\*\*

Total Yds

Out	In
2428	2430

Yes	No
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Pictures of Open Excavation Prior to Backfill


Relevant Information in Project Tracker?


## **Appendix C**

### **Photographic Log**



## Photographic Log


<b>Photo Number:</b> 1	
<b>Photo Direction:</b> East	
<b>Photo Date/Time:</b> 6/20/2023 10:16 AM	
<b>Photo GPS:</b> 32.60646, -104.43815	
<b>Photo Description:</b>  View of release and impacted area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> North	
<b>Photo Date/Time:</b> 6/20/2023 10:16 AM	
<b>Photo GPS:</b> 32.60646, -104.43815	
<b>Photo Description:</b>  View of release and impacted area.	



Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> Down	
<b>Photo Date/Time:</b> 6/20/2023 10:17 AM	
<b>Photo GPS:</b> 32.60646, -104.43808	
<b>Photo Description:</b>  View of pipe separation that caused the release.	

<b>Photo Number:</b> 4	 <div>Apr 1, 2024 at 12:50:26 PM +32.606560, -104.438114 173° S Carlsbad NM 88220 United States</div>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of open excavation.	




## Photographic Log


<b>Photo Number:</b> 5	<div>Apr 1, 2024 at 12:50:18 PM +32.606560,-104.438114 193° S Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 6	<div>Apr 1, 2024 at 12:37:44 PM +32.606526,-104.438233 109° E Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of open excavation.	




## Photographic Log


<b>Photo Number:</b> 7	<div>Apr 1, 2024 at 12:38:07 PM +32.606427,-104.438262 62° NE Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 8	<div>Apr 1, 2024 at 12:38:23 PM +32.606360,-104.438180 14° N Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of open excavation.	




## Photographic Log


<b>Photo Number:</b> 9	<div>Apr 1, 2024 at 12:50:32 PM +32.606560,-104.438114 107° E Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of open excavation.	

<b>Photo Number:</b> 10	<div>Apr 5, 2024 at 3:02:27 PM Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> North	
<b>Photo GPS:</b> 32.60630, -104.43805	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	



## Photographic Log

<b>Photo Number:</b> 11	<div>Apr 5, 2024 at 3:02:50 PM Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> North	
<b>Photo GPS:</b> 32.60639, -104.43813	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

<b>Photo Number:</b> 12	<div>Apr 5, 2024 at 3:02:58 PM Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> South	
<b>Photo GPS:</b> 32.60667, -104.43804	
<b>Photo Description:</b>  View of remediated area after backfill and grading.	

## **Appendix D**

### **Laboratory Analytical Reports**



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

July 05, 2023

ZACH CONDER

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD II FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 06/30/23 14:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 06/30/2023  
 Reported: 07/05/2023  
 Project Name: BONE YARD II FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 06/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 @ 0' (H233395-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2023	ND	2.05	103	2.00	4.13	
Toluene*	<0.050	0.050	07/03/2023	ND	2.01	100	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/03/2023	ND	1.95	97.5	2.00	3.87	
Total Xylenes*	<0.150	0.150	07/03/2023	ND	5.87	97.8	6.00	3.90	
Total BTEx	<0.300	0.300	07/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	6480	16.0	07/03/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/04/2023	ND	196	97.8	200	7.20	
DRO >C10-C28*	1600	10.0	07/04/2023	ND	196	97.8	200	5.21	
EXT DRO >C28-C36	487	10.0	07/04/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/30/2023  
 Reported: 07/05/2023  
 Project Name: BONE YARD II FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 06/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 1 @ 6' (H233395-02)**

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	07/04/2023	ND	2.10	105	2.00	2.41	
Toluene*	<0.050	0.050	07/04/2023	ND	2.01	101	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/04/2023	ND	2.18	109	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/04/2023	ND	6.57	110	6.00	1.82	
Total BTEX	<0.300	0.300	07/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	144	16.0	07/03/2023	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	07/04/2023	ND	196	97.8	200	7.20	
DRO >C10-C28*	<10.0	10.0	07/04/2023	ND	196	97.8	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	07/04/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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  
 ZACH CONDER  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 06/30/2023  
 Reported: 07/05/2023  
 Project Name: BONE YARD II FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 06/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 @ 0' (H233395-03)**

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	07/04/2023	ND	2.10	105	2.00	2.41	
Toluene*	<0.050	0.050	07/04/2023	ND	2.01	101	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/04/2023	ND	2.18	109	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/04/2023	ND	6.57	110	6.00	1.82	
Total BTEX	<0.300	0.300	07/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	7520	16.0	07/03/2023	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	07/03/2023	ND	160	79.8	200	6.36	
DRO >C10-C28*	<10.0	10.0	07/03/2023	ND	159	79.5	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/03/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 06/30/2023  
 Reported: 07/05/2023  
 Project Name: BONE YARD II FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 06/30/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: V 2 @ 2' (H233395-04)**

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	07/04/2023	ND	2.10	105	2.00	2.41	
Toluene*	<0.050	0.050	07/04/2023	ND	2.01	101	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/04/2023	ND	2.18	109	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/04/2023	ND	6.57	110	6.00	1.82	
Total BTEX	<0.300	0.300	07/04/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/03/2023	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	07/03/2023	ND	160	79.8	200	6.36	
DRO >C10-C28*	22.4	10.0	07/03/2023	ND	159	79.5	200	3.37	
EXT DRO >C28-C36	<10.0	10.0	07/03/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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



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

---

March 19, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 15:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/14/2024  
 Reported: 03/19/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 1 @ 6' (H241336-01)**

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	03/15/2024	ND	2.28	114	2.00	0.634	
Toluene*	<0.050	0.050	03/15/2024	ND	2.23	112	2.00	0.509	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.21	110	2.00	0.796	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.44	107	6.00	0.916	
Total BTEX	<0.300	0.300	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	608	16.0	03/18/2024	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	03/15/2024	ND	201	100	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	208	104	200	4.75	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/14/2024  
 Reported: 03/19/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 2 @ 6' (H241336-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2024	ND	2.28	114	2.00	0.634		
Toluene*	<0.050	0.050	03/15/2024	ND	2.23	112	2.00	0.509		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.21	110	2.00	0.796		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.44	107	6.00	0.916		
Total BTX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	464	16.0	03/18/2024	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	03/15/2024	ND	201	100	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	208	104	200	4.75	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/14/2024  
 Reported: 03/19/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: WW - 1 (H241336-03)**

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	03/15/2024	ND	2.28	114	2.00	0.634		
Toluene*	<0.050	0.050	03/15/2024	ND	2.23	112	2.00	0.509		
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.21	110	2.00	0.796		
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.44	107	6.00	0.916		
Total BTEX	<0.300	0.300	03/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	03/18/2024	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	03/15/2024	ND	201	100	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	208	104	200	4.75	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 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

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

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 W Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 18359 Project Owner: Spur Energy Partners

Project Name: Bone Yard 11 Fee #016h

Project Location: 32.606454, -104.438028

Sampler Name: Tania Felts

BILL TO

P.O. #:

Company Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Phone Result:

☐ Yes ☐ No

Add'l Phone #:

Fax Result:

☐ Yes ☐ No

Add'l Fax #:

REMARKS:

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

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

☒ Yes ☐ No

CHECKED BY:

(Initials)



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

March 21, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/15/24 15:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/15/2024  
 Reported: 03/21/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 5 @ 8' (H241366-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2024	ND	1.96	97.8	2.00	3.75	
Toluene*	<0.050	0.050	03/18/2024	ND	1.92	95.8	2.00	5.74	
Ethylbenzene*	<0.050	0.050	03/18/2024	ND	1.89	94.7	2.00	5.55	
Total Xylenes*	<0.150	0.150	03/18/2024	ND	5.63	93.9	6.00	5.58	
Total BTX	<0.300	0.300	03/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/18/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	204	102	200	2.39	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	201	100	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/15/2024  
 Reported: 03/21/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: EW - 1 (H241366-02)**

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	03/18/2024	ND	1.96	97.8	2.00	3.75		
Toluene*	<0.050	0.050	03/18/2024	ND	1.92	95.8	2.00	5.74		
Ethylbenzene*	<0.050	0.050	03/18/2024	ND	1.89	94.7	2.00	5.55		
Total Xylenes*	<0.150	0.150	03/18/2024	ND	5.63	93.9	6.00	5.58		
Total BTEX	<0.300	0.300	03/18/2024	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	464	16.0	03/18/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	204	102	200	2.39	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	201	100	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/15/2024  
 Reported: 03/21/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW - 1 (H241366-03)**

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	03/18/2024	ND	1.96	97.8	2.00	3.75	
Toluene*	<0.050	0.050	03/18/2024	ND	1.92	95.8	2.00	5.74	
Ethylbenzene*	<0.050	0.050	03/18/2024	ND	1.89	94.7	2.00	5.55	
Total Xylenes*	<0.150	0.150	03/18/2024	ND	5.63	93.9	6.00	5.58	
Total BTEX	<0.300	0.300	03/18/2024	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	464	16.0	03/18/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2024	ND	204	102	200	2.39	
DRO >C10-C28*	<10.0	10.0	03/18/2024	ND	201	100	200	2.93	
EXT DRO >C28-C36	<10.0	10.0	03/18/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager





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

---

March 22, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 3 @ 9' (H241390-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2024	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	03/19/2024	ND	2.11	106	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/19/2024	ND	2.15	107	2.00	0.908	
Total Xylenes*	<0.150	0.150	03/19/2024	ND	6.40	107	6.00	0.807	
Total BTX	<0.300	0.300	03/19/2024	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	320	16.0	03/20/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 4 @ 9' (H241390-02)**

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	03/20/2024	ND	2.18	109	2.00	1.81		
Toluene*	<0.050	0.050	03/20/2024	ND	2.11	106	2.00	1.60		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	0.908		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.40	107	6.00	0.807		
Total BTEx	<0.300	0.300	03/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	03/20/2024	ND	416	104	400	7.41	

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 6 @ 10' (H241390-03)**

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	03/20/2024	ND	2.18	109	2.00	1.81		
Toluene*	<0.050	0.050	03/20/2024	ND	2.11	106	2.00	1.60		
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	0.908		
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.40	107	6.00	0.807		
Total BTEx	<0.300	0.300	03/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	32.0	16.0	03/20/2024	ND	416	104	400	7.41		

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 7 @ 10' (H241390-04)**

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	03/20/2024	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	03/20/2024	ND	2.11	106	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	0.908	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.40	107	6.00	0.807	
Total BTEx	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	288	16.0	03/20/2024	ND	416	104	400	7.41	

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 8 @ 10' (H241390-05)**

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	03/20/2024	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	03/20/2024	ND	2.11	106	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	0.908	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.40	107	6.00	0.807	
Total BTEX	<0.300	0.300	03/20/2024	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	448	16.0	03/20/2024	ND	416	104	400	7.41	

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/18/2024  
 Reported: 03/22/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/15/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 9 @ 10' (H241390-06)**

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	03/20/2024	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	03/20/2024	ND	2.11	106	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	0.908	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.40	107	6.00	0.807	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	112	16.0	03/20/2024	ND	416	104	400	7.41	

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	03/19/2024	ND	206	103	200	0.762	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	206	103	200	7.46	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

March 25, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/21/24 14:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 1 @ 7' (H241494-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.11	105	2.00	1.16	
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 13 @ 4' (H241494-02)**

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	03/22/2024	ND	2.11	105	2.00	1.16	
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	384	16.0	03/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 15 @ 9' (H241494-03)**

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	03/22/2024	ND	2.11	105	2.00	1.16		
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05		
Total BTEX	<0.300	0.300	03/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 16 @ 2' (H241494-04)**

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	03/22/2024	ND	2.11	105	2.00	1.16		
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05		
Total BTEX	<0.300	0.300	03/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 17 @ 4' (H241494-05)**

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	03/22/2024	ND	2.11	105	2.00	1.16	
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	400	16.0	03/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/21/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 18 @ 10' (H241494-06)**

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	03/22/2024	ND	2.11	105	2.00	1.16		
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18		
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05		
Total BTEX	<0.300	0.300	03/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	320	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Robbie Runnels <b>Address:</b> 2617 W Marland <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> (575) 264-9884 <b>Fax #:</b> <b>Project #:</b> 18359 <b>Project Owner:</b> Spur Energy Partners <b>Project Name:</b> Bone Yard 11 Fee #016h <b>Project Location:</b> 32.606454, -104.438028 <b>Sampler Name:</b> Tania Felts				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Spur Energy Partners <b>Attn:</b> Kathy Purvis <b>Address:</b> <b>City:</b> <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>																	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b>				<b>Sample I.D.</b>				<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE COOL OTHER:		<b>SAMPLING</b> DATE TIME		Chloride TPH (8015M) BTEX (8021B)											
FL-1 @ 7' FL-13 @ 4' FL-15 @ 9' FL-16 @ 2' FL-17 @ 4' FL-18 @ 10'				C 1 C 1 C 1 C 1 C 1 C 1		X X X X X X		X X X X X X		3/20/24 3/20/24 3/20/24 3/20/24 3/20/24 3/20/24		X X X X X X		X X X X X X											
Relinquished By: <i>[Signature]</i> Date: <i>3-21-24</i> Time: <i>14:35</i>				Received By: <i>[Signature]</i> Date: <i>3-21-24</i> Time: <i>14:35</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: <b>RUSH SAMPLES</b> Please email results and copy of CoC to pm@etechenv.com.				FORM-006 Revision 1.0													

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





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

March 25, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/19/24 14:46.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/19/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/18/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 10 @ 11' (H241432-01)**

BTX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.00	99.9	2.00	7.37	
Toluene*	<0.050	0.050	03/22/2024	ND	1.99	99.7	2.00	7.63	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	1.95	97.4	2.00	7.90	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.94	98.9	6.00	7.03	
Total BTX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	03/22/2024	ND	448	112	400	3.51	

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	03/21/2024	ND	250	125	200	10.7	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	242	121	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/19/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/18/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 11 @ 11' (H241432-02)**

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	03/22/2024	ND	2.00	99.9	2.00	7.37		
Toluene*	<0.050	0.050	03/22/2024	ND	1.99	99.7	2.00	7.63		
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	1.95	97.4	2.00	7.90		
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.94	98.9	6.00	7.03		
Total BTEX	<0.300	0.300	03/22/2024	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	96.0	16.0	03/22/2024	ND	448	112	400	3.51		

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	03/21/2024	ND	250	125	200	10.7	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	242	121	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/19/2024  
 Reported: 03/25/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/18/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 12 @ 6' (H241432-03)**

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	03/22/2024	ND	2.00	99.9	2.00	7.37		
Toluene*	<0.050	0.050	03/22/2024	ND	1.99	99.7	2.00	7.63		
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	1.95	97.4	2.00	7.90		
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.94	98.9	6.00	7.03		
Total BTEX	<0.300	0.300	03/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	224	16.0	03/22/2024	ND	448	112	400	3.51	

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	03/21/2024	ND	250	125	200	10.7	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	242	121	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 118 % 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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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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March 26, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/24 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/26/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 19 @ 10' (H241546-01)**

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	03/25/2024	ND	1.91	95.6	2.00	0.0622	
Toluene*	<0.050	0.050	03/25/2024	ND	2.04	102	2.00	0.389	
Ethylbenzene*	<0.050	0.050	03/25/2024	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	03/25/2024	ND	6.14	102	6.00	0.594	
Total BTEX	<0.300	0.300	03/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/26/2024	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	03/25/2024	ND	201	101	200	0.785	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	213	107	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/26/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 20 @ 8' (H241546-02)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2024	ND	1.91	95.6	2.00	0.0622	
Toluene*	<0.050	0.050	03/25/2024	ND	2.04	102	2.00	0.389	
Ethylbenzene*	<0.050	0.050	03/25/2024	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	03/25/2024	ND	6.14	102	6.00	0.594	
Total BTX	<0.300	0.300	03/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	192	16.0	03/26/2024	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	03/25/2024	ND	201	101	200	0.785	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	213	107	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/26/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 21 @ 2.5' (H241546-03)**

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	03/25/2024	ND	1.91	95.6	2.00	0.0622	
Toluene*	<0.050	0.050	03/25/2024	ND	2.04	102	2.00	0.389	
Ethylbenzene*	<0.050	0.050	03/25/2024	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	03/25/2024	ND	6.14	102	6.00	0.594	
Total BTEX	<0.300	0.300	03/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	448	16.0	03/26/2024	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	03/25/2024	ND	201	101	200	0.785	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	213	107	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/26/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 22 @ 3' (H241546-04)**

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	03/25/2024	ND	1.91	95.6	2.00	0.0622	
Toluene*	<0.050	0.050	03/25/2024	ND	2.04	102	2.00	0.389	
Ethylbenzene*	<0.050	0.050	03/25/2024	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	03/25/2024	ND	6.14	102	6.00	0.594	
Total BTEX	<0.300	0.300	03/25/2024	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	64.0	16.0	03/26/2024	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	03/25/2024	ND	201	101	200	0.785	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	213	107	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/25/2024  
 Reported: 03/26/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/22/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 23 @ 11' (H241546-05)**

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	03/25/2024	ND	1.91	95.6	2.00	0.0622	
Toluene*	<0.050	0.050	03/25/2024	ND	2.04	102	2.00	0.389	
Ethylbenzene*	<0.050	0.050	03/25/2024	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	03/25/2024	ND	6.14	102	6.00	0.594	
Total BTEX	<0.300	0.300	03/25/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/26/2024	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	03/25/2024	ND	201	101	200	0.785	
DRO >C10-C28*	<10.0	10.0	03/25/2024	ND	213	107	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

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\*=Accredited Analyte

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

---

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**

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: 2617 W Marland				Company: Spur Energy Partners																											
City: Hobbs State: NM Zip: 88240				Attn: Kathy Purvis																											
Phone #: (575) 264-9884 Fax #:				Address:																											
Project #: 18359 Project Owner: Spur Energy Partners				City:																											
Project Name: Bone Yard 11 Fee #016h				State: NM Zip:																											
Project Location: 32.606454, -104.438028				Phone #:																											
Sampler Name: Tania Felts				Fax #:																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL:		OTHER:		DATE		TIME			
H241546				C		1		X												X		3/22/24				X		X		X	
1		FL-19 @ 10'		C		1		X												X		3/22/24				X		X		X	
2		FL-20 @ 8'		C		1		X												X		3/22/24				X		X		X	
3		FL-21 @ 2.5'		C		1		X												X		3/22/24				X		X		X	
4		FL-22 @ 3'		C		1		X												X		3/22/24				X		X		X	
5		FL-23 @ 11'		C		1		X												X		3/22/24				X		X		X	



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

---

March 27, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/26/24 14:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 24 @ 2' (H241573-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2024	ND	2.24	112	2.00	0.883	
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07	
Total BTX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	240	16.0	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 25 @ 3' (H241573-02)**

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	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	144	16.0	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 26 @ 2' (H241573-03)**

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	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	144	16.0	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 27 @ 4' (H241573-04)**

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	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	96.0	16.0	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 28 @ 6' (H241573-05)**

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	03/26/2024	ND	2.24	112	2.00	0.883		
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961		
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01		
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07		
Total BTEX	<0.300	0.300	03/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/26/2024  
 Reported: 03/27/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 29 @ 2' (H241573-06)**

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	03/26/2024	ND	2.24	112	2.00	0.883	
Toluene*	<0.050	0.050	03/26/2024	ND	2.19	109	2.00	0.961	
Ethylbenzene*	<0.050	0.050	03/26/2024	ND	2.14	107	2.00	1.01	
Total Xylenes*	<0.150	0.150	03/26/2024	ND	6.23	104	6.00	1.07	
Total BTEX	<0.300	0.300	03/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 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	896	16.0	03/27/2024	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	03/26/2024	ND	195	97.7	200	0.00615	
DRO >C10-C28*	<10.0	10.0	03/26/2024	ND	204	102	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	03/26/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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

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**Notes and Definitions**

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Robbie Runnels <b>Address:</b> 2617 W Marland <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> (575) 264-9884 <b>Fax #:</b> <b>Project #:</b> 18359 <b>Project Owner:</b> Spur Energy Partners <b>Project Name:</b> Bone Yard 11 Fee #016h <b>Project Location:</b> 32.606454, -104.438028 <b>Sampler Name:</b> Tania Felts				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Spur Energy Partners <b>Attn:</b> Kathy Purvis <b>Address:</b> <b>City:</b> <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b> <div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																											
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME																				
	H241573																																		
	1	FL-24 @ 2'	C	1		X					X			3/25/24		X	X	X																	
	2	FL-25 @ 3'	C	1		X					X			3/25/24		X	X	X																	
	3	FL-26 @ 2'	C	1		X					X			3/25/24		X	X	X																	
	4	FL-27 @ 4'	C	1		X					X			3/25/24		X	X	X																	
	5	FL-28 @ 6'	C	1		X					X			3/25/24		X	X	X																	
	6	FL-29 @ 2'	C	1		X					X			3/25/24		X	X	X																	
<small>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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																			
<b>Relinquished By:</b> <b>Date:</b> 3-26-24 <b>Time:</b> 14:48 <b>Relinquished By:</b> <b>Date:</b> <b>Time:</b>			<b>Received By:</b> <b>Received By:</b>			<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> <b>REMARKS:</b>						<b>RUSH SAMPLES</b> Please email results and copy of CoC to pm@etechenv.com.																							
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:			- 5.5"			<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No			<b>CHECKED BY:</b> (Initials) 																										



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

March 28, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 03/27/24 10:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 14 @ 11' (H241588-01)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38	
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	160	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 30 @ 4' (H241588-02)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEx	<0.300	0.300	03/27/2024	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	336	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 31 @ 5' (H241588-03)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38	
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	256	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 32 @ 5' (H241588-04)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	192	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 33 @ 5' (H241588-05)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 34 @ 2' (H241588-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	1.99	99.5	2.00	4.38	
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37	
Total BTX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 35 @ 4' (H241588-07)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	544	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 36 @ 4' (H241588-08)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	176	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 37 @ 4' (H241588-09)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	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	320	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 38 @ 4' (H241588-10)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	64.0	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL - 39 @ 5' (H241588-11)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38	
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	80.0	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW - 2 (H241588-12)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38	
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	128	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW - 3 (H241588-13)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW - 4 (H241588-14)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	176	16.0	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW - 6 (H241588-15)**

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	03/27/2024	ND	1.99	99.5	2.00	4.38		
Toluene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.54		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.07	103	2.00	3.70		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.23	104	6.00	3.37		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	128	16.0	03/27/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 2 (H241588-16)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	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	03/27/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 3 (H241588-17)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/28/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 4 (H241588-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	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	48.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 5 (H241588-19)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 6 (H241588-20)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEx	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	202	101	200	4.93	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	205	103	200	0.522	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 7 (H241588-21)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 8 (H241588-22)**

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	03/27/2024	ND	2.11	106	2.00	0.400		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3		
Total BTEX	<0.300	0.300	03/27/2024	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	336	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 9 (H241588-23)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.9 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 10 (H241588-24)**

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	03/27/2024	ND	2.11	106	2.00	0.400		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	320	16.0	03/28/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 11 (H241588-25)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTX	<0.300	0.300	03/27/2024	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	336	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 12 (H241588-26)**

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	03/27/2024	ND	2.11	106	2.00	0.400		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	368	16.0	03/28/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 13 (H241588-27)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	320	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 14 (H241588-28)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	352	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW - 15 (H241588-29)**

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	03/27/2024	ND	2.11	106	2.00	0.400		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	240	16.0	03/28/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (H241588-30)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (H241588-31)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	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	128	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (H241588-32)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (H241588-33)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/28/2024	ND	416	104	400	7.41		

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (H241588-34)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	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	32.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (H241588-35)**

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	03/27/2024	ND	2.11	106	2.00	0.400	
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	7.38	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.27	114	2.00	11.4	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.83	114	6.00	13.3	
Total BTEX	<0.300	0.300	03/27/2024	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	96.0	16.0	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 (H241588-36)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	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	03/28/2024	ND	416	104	400	7.41	

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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9 (H241588-37)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	03/28/2024	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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 10 (H241588-38)**

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	03/27/2024	ND	2.11	106	2.00	1.11		
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	80.0	16.0	03/28/2024	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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 2 (H241588-39)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	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	32.0	16.0	03/28/2024	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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 3 (H241588-40)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEx	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	32.0	16.0	03/28/2024	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	03/27/2024	ND	216	108	200	1.81	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	201	101	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 4 (H241588-41)**

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	03/27/2024	ND	2.11	106	2.00	1.11		
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1		
Total BTEX	<0.300	0.300	03/27/2024	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	288	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 5 (H241588-42)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	240	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 6 (H241588-43)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEx	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	48.0	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 7 (H241588-44)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 8 (H241588-45)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 9 (H241588-46)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	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	432	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 10 (H241588-47)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	528	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 12 (H241588-48)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 13 (H241588-49)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	272	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 14 (H241588-50)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 15 (H241588-51)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	160	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 16 (H241588-52)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	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	144	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 17 (H241588-53)**

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	03/27/2024	ND	2.11	106	2.00	1.11	
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9	
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9	
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1	
Total BTEX	<0.300	0.300	03/27/2024	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	160	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 18 (H241588-54)**

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	03/27/2024	ND	2.11	106	2.00	1.11		
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1		
Total BTEx	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 19 (H241588-55)**

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	03/27/2024	ND	2.11	106	2.00	1.11		
Toluene*	<0.050	0.050	03/27/2024	ND	2.37	119	2.00	12.9		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.59	129	2.00	14.9		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	7.86	131	6.00	17.1		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	80.0	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 03/27/2024  
 Reported: 03/28/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/26/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW - 20 (H241588-56)**

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	03/27/2024	ND	2.17	109	2.00	0.107		
Toluene*	<0.050	0.050	03/27/2024	ND	2.17	109	2.00	0.267		
Ethylbenzene*	<0.050	0.050	03/27/2024	ND	2.12	106	2.00	0.127		
Total Xylenes*	<0.150	0.150	03/27/2024	ND	6.38	106	6.00	0.0134		
Total BTEX	<0.300	0.300	03/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	03/28/2024	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	03/27/2024	ND	212	106	200	7.09	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	226	113	200	9.16	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager




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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- BS-3            Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND              Analyte NOT DETECTED at or above the reporting limit
- RPD             Relative Percent Difference
- \*\*               Samples not received at proper temperature of 6°C or below.
- \*\*\*              Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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\_\_\_\_\_  
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**

Page 60 of 64

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
<b>Project Manager:</b> Robbie Runnels				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
<b>Address:</b> 2617 W Marland				<b>Company:</b> Spur Energy Partners																	
<b>City:</b> Hobbs		<b>State:</b> NM		<b>Zip:</b> 88240		<b>Attn:</b> Kathy Purvis															
<b>Phone #:</b> (575) 264-9884		<b>Fax #:</b>		<b>Address:</b>																	
<b>Project #:</b> 18359		<b>Project Owner:</b> Spur Energy Partners		<b>City:</b>																	
<b>Project Name:</b> Bone Yard 11 Fee #016h				<b>State:</b> NM <b>Zip:</b>																	
<b>Project Location:</b> 32.606454, -104.438028				<b>Phone #:</b>																	
<b>Sampler Name:</b> Tania Felts				<b>Fax #:</b>																	
<div style="display: flex;"> <div style="flex: 1;"> <b>FOR LAB USE ONLY</b>   <b>Lab I.D.</b>  H241588 </div> <div style="flex: 2;"> <b>Sample I.D.</b> </div> <div style="flex: 1;"> <b>(G)RAB OR (C)OMP.</b>  <b># CONTAINERS</b> </div> <div style="flex: 2;"> <b>MATRIX</b>  <div style="display: flex; justify-content: space-between;"> <div>GROUNDWATER</div> <div>WASTEWATER</div> <div>SOIL</div> <div>OIL</div> <div>SLUDGE</div> <div>OTHER :</div> </div> </div> <div style="flex: 1;"> <b>PRESERV.</b>  <div style="display: flex; justify-content: space-between;"> <div>ACID/BASE:</div> <div>ICE / COOL</div> <div>OTHER :</div> </div> </div> <div style="flex: 2;"> <b>SAMPLING</b>  <div style="display: flex; justify-content: space-between;"> <div>DATE</div> <div>TIME</div> </div> </div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">11</div> <div style="flex: 2;">FL-39 @ 5'</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">12</div> <div style="flex: 2;">NW-2</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">13</div> <div style="flex: 2;">NW-3</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">14</div> <div style="flex: 2;">NW-4</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">15</div> <div style="flex: 2;">NW-6</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">16</div> <div style="flex: 2;">EW-2</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">17</div> <div style="flex: 2;">EW-3</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">18</div> <div style="flex: 2;">EW-4</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">19</div> <div style="flex: 2;">EW-5</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<div style="display: flex;"> <div style="flex: 1;">20</div> <div style="flex: 2;">EW-6</div> <div style="flex: 1;">C 1</div> <div style="flex: 2;">X</div> <div style="flex: 1;">X</div> <div style="flex: 2;">3/26/24</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> <div style="flex: 1;">X</div> </div>																					
<small>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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
<b>Relinquished By:</b> <i>[Signature]</i>				<b>Date:</b> 3-27-24				<b>Received By:</b> <i>[Signature]</i>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No									
<b>Time:</b> 1010				<b>Time:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Phone #:</b>									
<b>Relinquished By:</b>				<b>Date:</b>				<b>Received By:</b>				<b>Add'l Fax #:</b>									
<b>Time:</b>				<b>Time:</b>				<b>REMARKS:</b>  <div style="background-color: red; color: white; padding: 5px; text-align: center;">RUSH SAMPLES</div> Please email results and copy of CoC to pm@etechenv.com.													
<b>Delivered By: (Circle One)</b>				<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												<b>CHECKED BY:</b> <i>[Signature]</i>					
<b>Sampler - UPS - Bus - Other:</b>				<b>Temperature:</b> -10.0C																	

FORM-006  
Revision 1.0

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



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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																
Address: 2617 W Marland				Company: Spur Energy Partners																				
City: Hobbs State: NM Zip: 88240				Attn: Kathy Purvis																				
Phone #: (575) 264-9884 Fax #:				Address:																				
Project #: 18359 Project Owner: Spur Energy Partners				City:																				
Project Name: Bone Yard 11 Fee #016h				State: NM Zip:																				
Project Location: 32.606454, -104.438028				Phone #:																				
Sampler Name: Tania Felts				Fax #:																				
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :												
	31	SW-2	C 1		X					X		3/26/24		X	X	X								
	32	SW-3	C 1		X					X		3/26/24		X	X	X								
	33	SW-4	C 1		X					X		3/26/24		X	X	X								
	34	SW-6	C 1		X					X		3/26/24		X	X	X								
	35	SW-7	C 1		X					X		3/26/24		X	X	X								
	36	SW-8	C 1		X					X		3/26/24		X	X	X								
	37	SW-9	C 1		X					X		3/26/24		X	X	X								
	38	SW-10	C 1		X					X		3/26/24		X	X	X								
	39	WW-2	C 1		X					X		3/26/24		X	X	X								
	40	WW-3	C 1		X					X		3/26/24		X	X	X								
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Relinquished By:			Date: 3-27-24		Received By:			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:												
			Time: 1010					Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:												
Relinquished By:			Date:		Received By:			REMARKS:																
			Time:																					
Delivered By: (Circle One)			#140		Sample Condition			CHECKED BY:				RUSH SAMPLES												
Sampler - UPS - Bus - Other:			-10.0c		Cool Intact			(Initials)				Please email results and copy of CoC to pm@etechenv.com.												
					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			
					<input type="checkbox"/> No <input type="checkbox"/> No																			

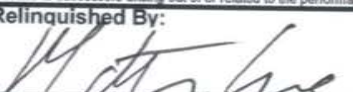



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101 East Marland, Hobbs, NM 88240

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Robbie Runnels				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: 2617 W Marland				Company: Spur Energy Partners																						
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Phone #: (575) 264-9884 Fax #:				Address:																						
Project #: 18359 Project Owner: Spur Energy Partners				City:																						
Project Name: Bone Yard 11 Fee #016h				State: NM Zip:																						
Project Location: 32.606454, -104.438028				Phone #:																						
Sampler Name: Tania Felts				Fax #:																						
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													DATE	TIME
	41	WW-4	C 1		X				X	3/26/24		X	X	X												
	42	WW-5	C 1		X				X	3/26/24		X	X	X												
	43	WW-6	C 1		X				X	3/26/24		X	X	X												
	44	WW-7	C 1		X				X	3/26/24		X	X	X												
	45	WW-8	C 1		X				X	3/26/24		X	X	X												
	46	WW-9	C 1		X				X	3/26/24		X	X	X												
	47	WW-10	C 1		X				X	3/26/24		X	X	X												
	48	WW-12	C 1		X				X	3/26/24		X	X	X												
	49	WW-13	C 1		X				X	3/26/24		X	X	X												
	50	WW-14	C 1		X				X	3/26/24		X	X	X												
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Relinquished By: 				Date: 3-27-24				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:										
Time: 10:10												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:										
REMARKS:																										
Relinquished By:				Date:				Received By:																		
Time:																										
Delivered By: (Circle One)				#140				Sample Condition				CHECKED BY:				<b>RUSH SAMPLES</b> Please email results and copy of CoC to pm@etechenv.com.										
Sampler - UPS - Bus - Other:				-10.0c				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)														
								Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														





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

April 02, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 04/01/24 11:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 29 @ 4' (H241660-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819		
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599		
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239		
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101		
Total BTX	<0.300	0.300	04/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW - 5 (H241660-02)**

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	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	160	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 5 (H241660-03)**

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	144	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: WW - 11 (H241660-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	192	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 W Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 18359

Project Owner: Spur Energy Partners

Project Name: Bone Yard 11 Fee #016h

Project Location: 32.606454, -104.438028

Sampler Name: Tania Felts

### **BILL TO**

P.O. #:

Company Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

### **ANALYSIS REQUEST**

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(GRAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

☒ Yes ☐ No

☐ Yes ☒ No

CHECKED BY:

(Initials)

Phone Result:

☐ Yes ☐ No

Add'l Phone #:

Fax Result:

☐ Yes ☐ No

Add'l Fax #:

REMARKS:

**RUSH SAMPLES**

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



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

---

April 02, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BONE YARD 11 FEE #016H

Enclosed are the results of analyses for samples received by the laboratory on 04/01/24 11:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: FL - 29 @ 4' (H241660-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NW - 5 (H241660-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTX	<0.300	0.300	04/02/2024	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	160	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: SW - 5 (H241660-03)**

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/01/2024  
 Reported: 04/02/2024  
 Project Name: BONE YARD 11 FEE #016H  
 Project Number: 18359  
 Project Location: SPUR - EDDY CO NM

Sampling Date: 03/28/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: WW - 11 (H241660-04)**

BTEx 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2024	ND	2.15	107	2.00	0.0819	
Toluene*	<0.050	0.050	04/02/2024	ND	2.12	106	2.00	0.599	
Ethylbenzene*	<0.050	0.050	04/02/2024	ND	2.17	108	2.00	0.239	
Total Xylenes*	<0.150	0.150	04/02/2024	ND	6.48	108	6.00	0.101	
Total BTEX	<0.300	0.300	04/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	192	16.0	04/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2024	ND	200	99.8	200	2.55	
DRO >C10-C28*	<10.0	10.0	04/01/2024	ND	201	101	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	04/01/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 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

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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

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

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Robbie Runnels

Address: 2617 W Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 18359

Project Owner: Spur Energy Partners

Project Name: Bone Yard 11 Fee #016h

Project Location: 32.606454, -104.438028

Sampler Name: Tania Felts

### **BILL TO**

P.O. #:

Company Spur Energy Partners

Attn: Kathy Purvis

Address:

City:

State: NM Zip:

Phone #:

Fax #:

### **ANALYSIS REQUEST**

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(GRAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

PRESERV.

SAMPLING

DATE

TIME

Chloride

TPH (8015M)

BTEX (8021B)

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

☒ Yes ☐ No

☐ Yes ☐ No

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

**RUSH SAMPLES**

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

## **Appendix E**

### **Regulatory Correspondence**

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:08 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321488

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/13/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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



**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:11 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321501

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/14/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:12 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321504

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/15/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:14 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321506

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/18/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:16 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321509

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/19/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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- **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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:18 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321512

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To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/20/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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- **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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:19 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321514

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To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/21/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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



**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:21 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321515

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/22/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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- **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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:22 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321516

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To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/25/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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- **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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Friday, March 8, 2024 8:24 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 321519

You don't often get email from ocdonline@state.nm.us. [Learn why this is important](#)

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/26/2024 @ 06:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Tuesday, March 26, 2024 7:17 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 326627

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/28/2024 @ 07:08

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

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

**Robbie Runnels**

---

**From:** OCDOnline@state.nm.us  
**Sent:** Tuesday, March 26, 2024 7:18 AM  
**To:** Robbie Runnels  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 326631

To whom it may concern (c/o Robbie Runnels for Spur Energy Partners LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2317146882.

The sampling event is expected to take place:

**When:** 03/29/2024 @ 07:00

**Where:** K-02-20S-25E 0 FNL 0 FEL (32.60181,-104.45723)

**Additional Information:** Martin Sepulveda 432-305-7322 martin@etechenv.com

**Additional Instructions:** From the intersection of US-285 and Co Rd 23 (32.624134, -104.410637), head W on Co Rd 23 for 1.90 mi, then S for 0.88 mi, then E for 0.13 mi, then S for 0.32, then E into the pasture for 0.01 mi to arrive at the Bone Yard 11 Fee 16H release area (32.606454, -104.438028).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

## **Appendix F**

### **Electronic C-141 Supplemental Site Characterization Maps**





- Legend
- Hydrology
- NMED Drinking Water Systems
- ▲
- OSE Streams
- 
- OSE Probable Playas
- 
- OSW Water Bodys
- 

+

-

Home

History

▼

32.606454, -104.438028

×

Q

Print

Layers

Full Screen

Show search results for 32.606...

Measurement

Measure

Clear

Print

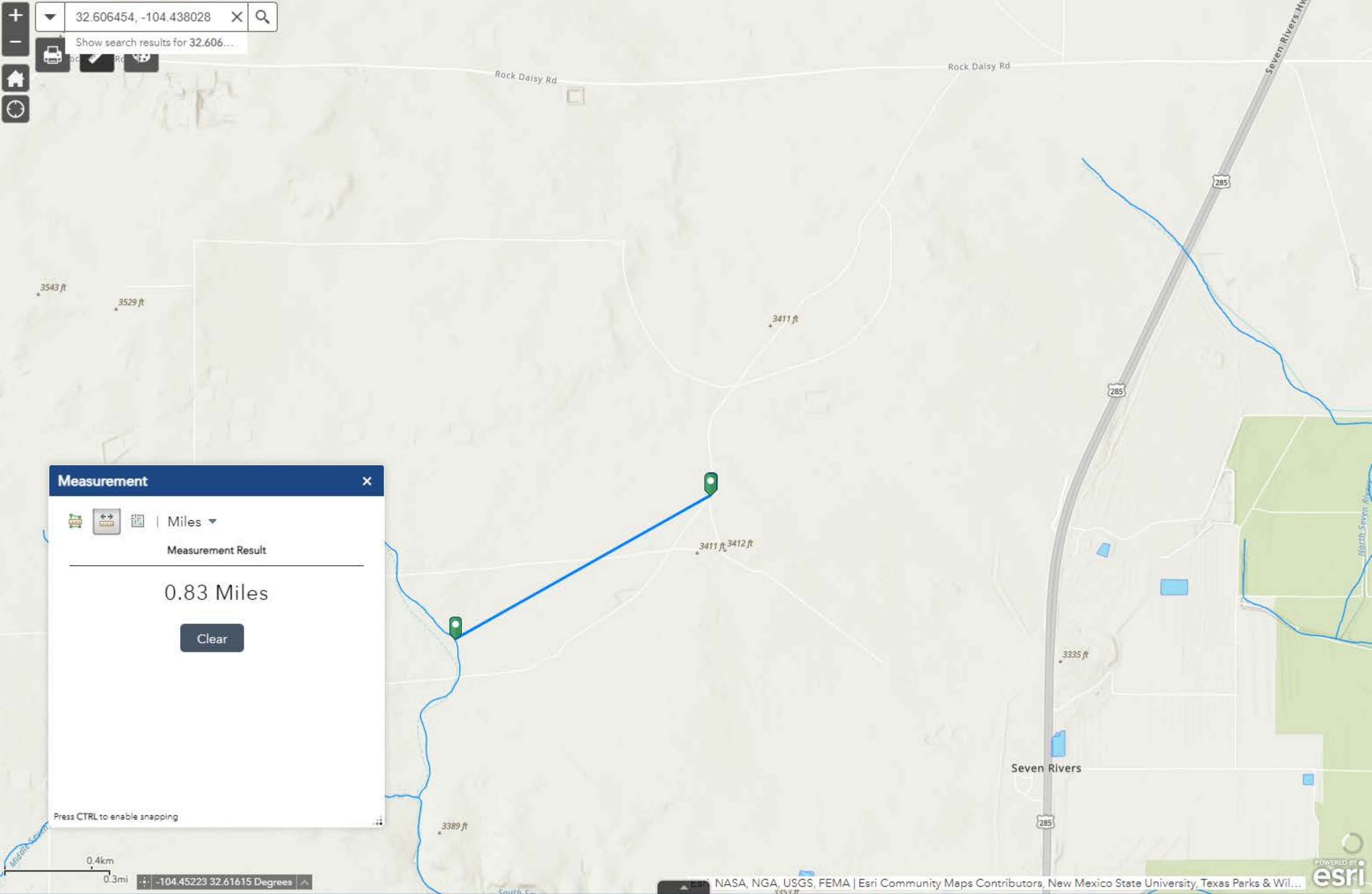
Miles

Measurement Result

0.83 Miles

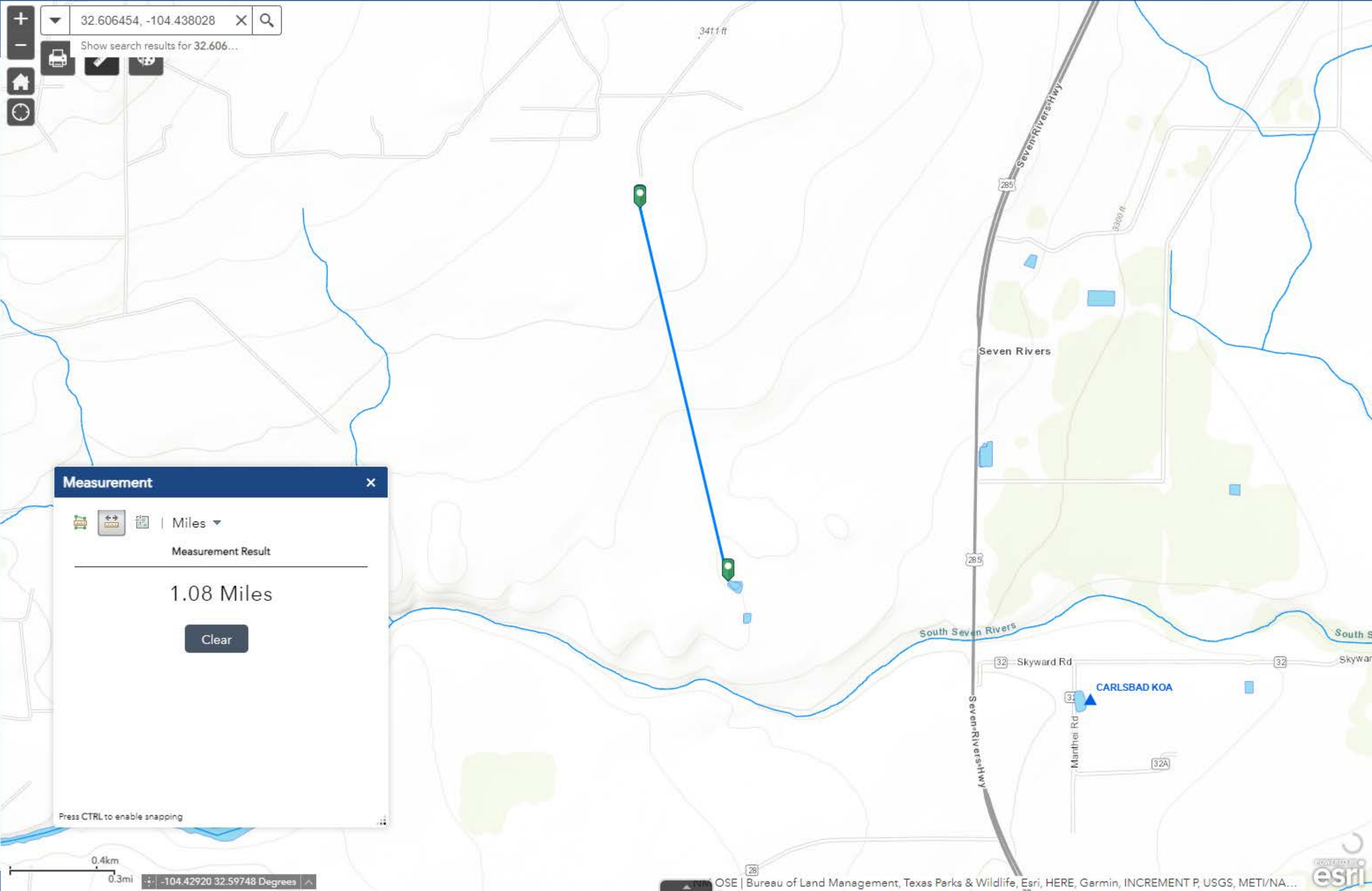
Clear

Press CTRL to enable snapping





- Legend
- Hydrology
- NMED Drinking Water Systems
- ▲
- OSE Streams
- 
- OSE Probable Playas
- 
- OSW Water Bodys
- 



**Measurement** [X]

Icons: [Measure] [Undo] [Redo] | Miles ▾

Measurement Result

1.08 Miles

Clear

Press CTRL to enable snapping







Legend  
Mineral and Surface Ownership  
Land Ownership

- BLM
- BOR
- DOD
- DOE
- FS
- FWS
- I
- NPS
- P
- S
- SGF
- SP
- USDA
- VCNP

32.606454, -104.438028

Show search results for 32.606...

Print, Measure, and other map tools icons.

Measurement

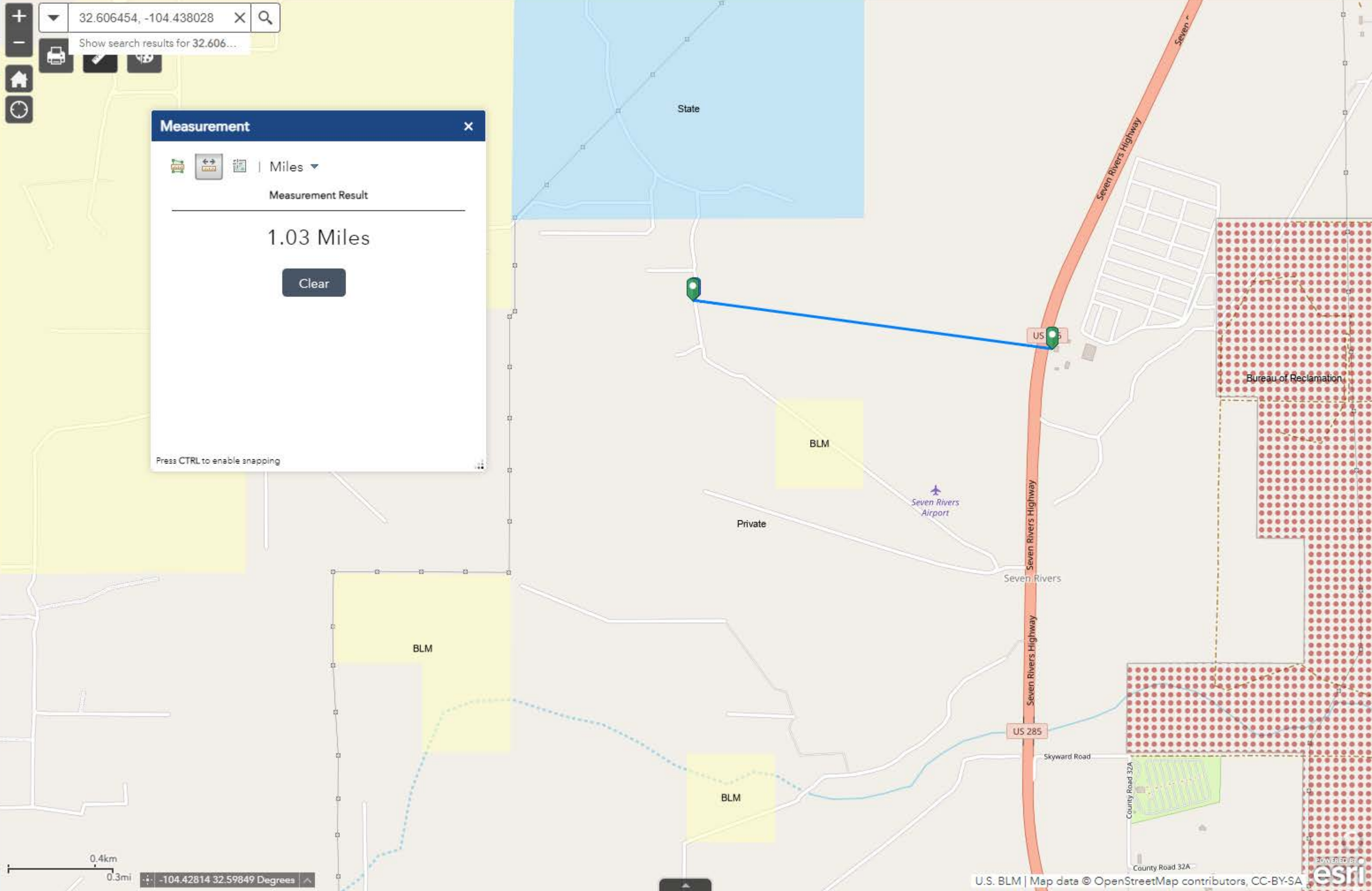
Miles

Measurement Result

1.03 Miles

Clear

Press CTRL to enable snapping







Legend

OSE Water PODs

- Active
- Pending
- Changed Location of Well
- Inactive
- Capped
- Plugged
- Unknown

USGS Groundwater wells

USGS Active Monitoring GW Wells



USGS Historical GW Wells

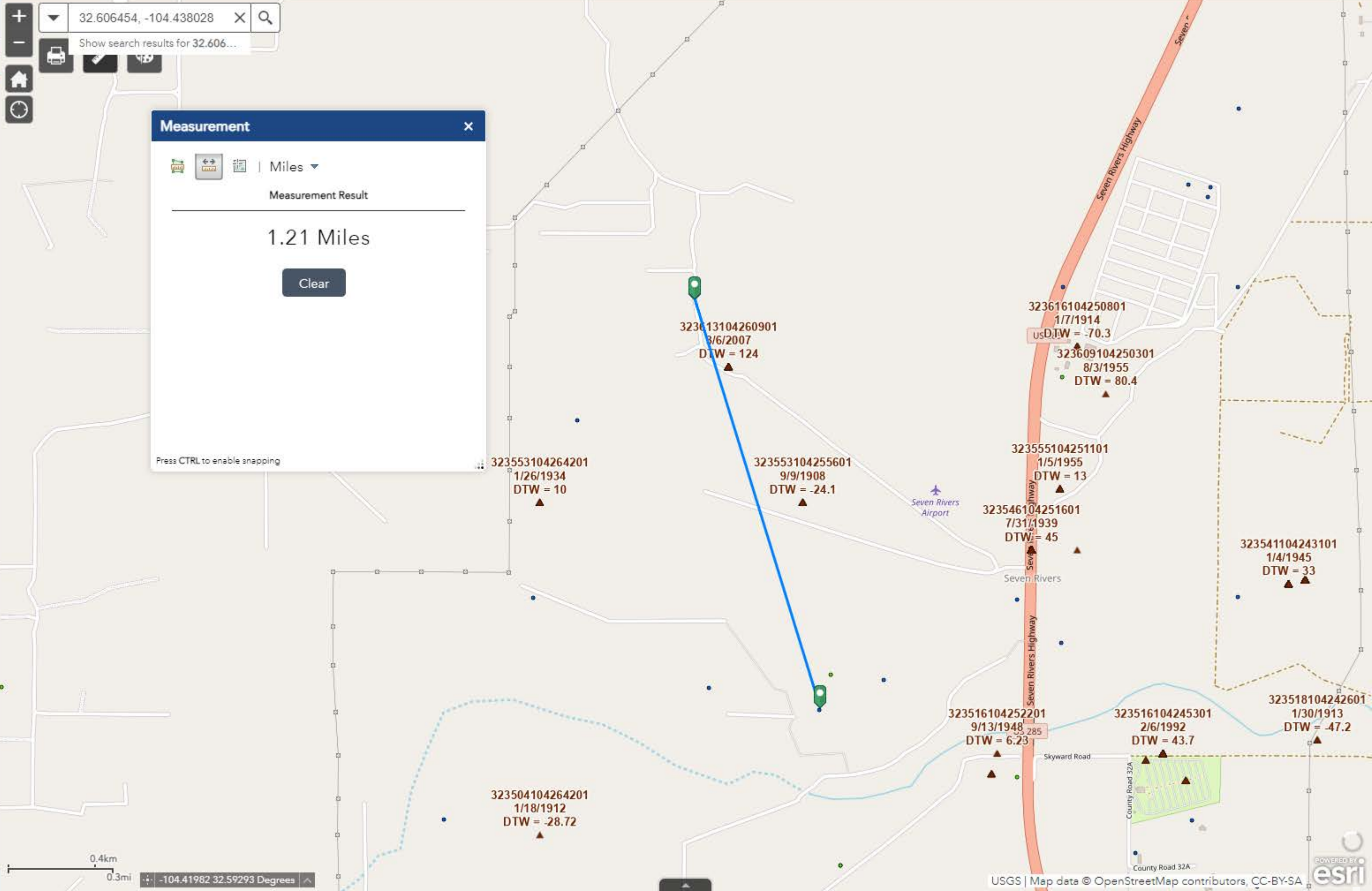


Search bar with coordinates 32.606454, -104.438028 and a search icon.

Show search results for 32.606...

Map navigation controls: zoom in (+), zoom out (-), home, and a circular arrow icon.

Measurement dialog box showing a measurement of 1.21 Miles. Includes a 'Clear' button and a note to 'Press CTRL to enable snapping'.





Legend

OSE Water PODs

- Active
- Pending
- Changed Location of Well
- Inactive
- Capped
- Plugged
- Unknown

USGS Groundwater wells

USGS Active Monitoring GW Wells

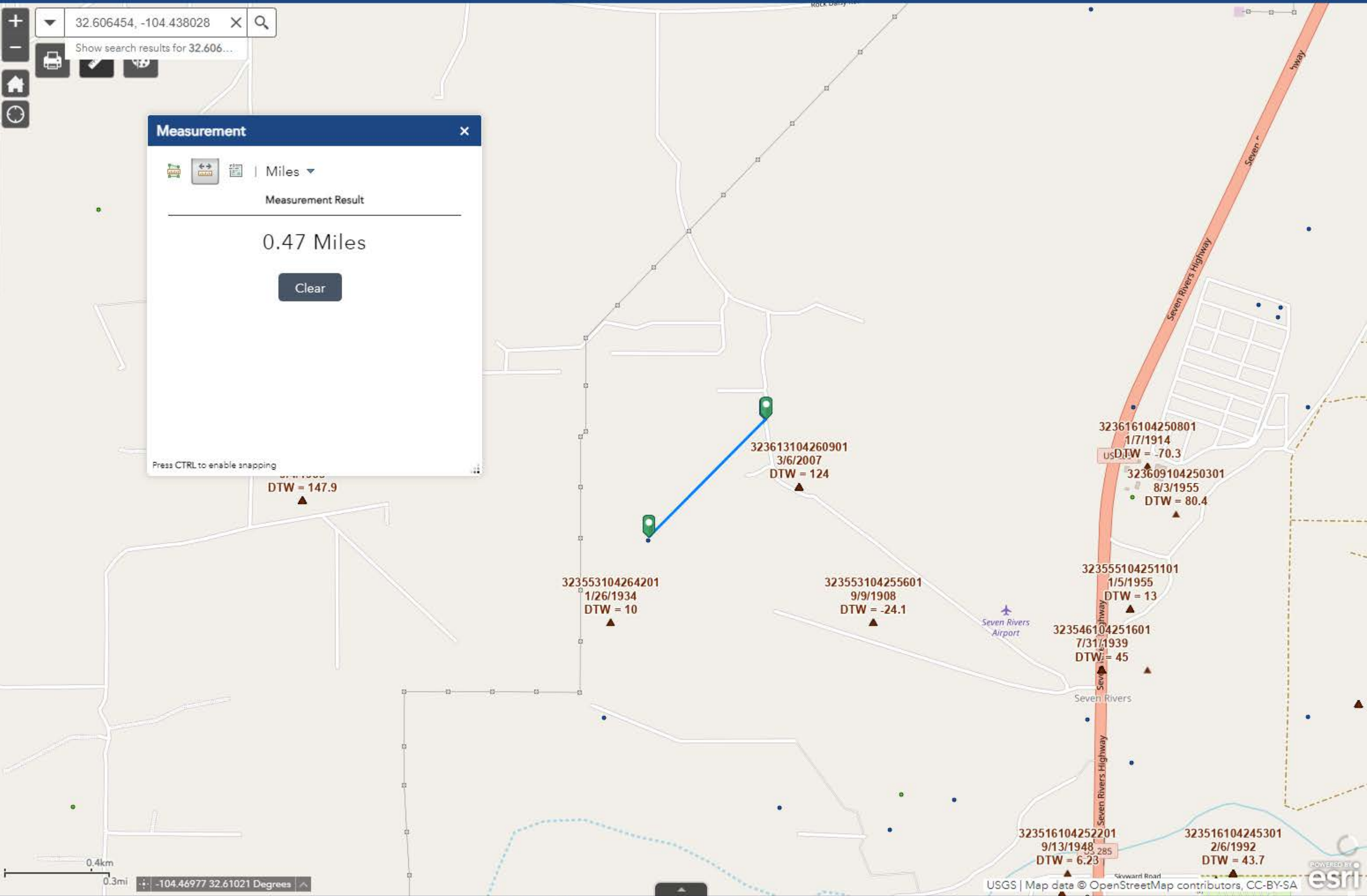


USGS Historical GW Wells



Map navigation controls including zoom in (+), zoom out (-), search (magnifying glass), home (house), and history (clock) buttons. A search bar displays coordinates 32.606454, -104.438028 and a button to show search results for 32.606...

Measurement dialog box showing a measurement result of 0.47 Miles. It includes a 'Clear' button and a note to 'Press CTRL to enable snapping'.







Legend

Political Boundaries and Transportation

NMDOT Railroads



NMDOT GPS ROADS



New Mexico Towns



New Mexico Counties



+

-

Home

Refresh

32.606454, -104.438028

Show search results for 32.606...

Measurement

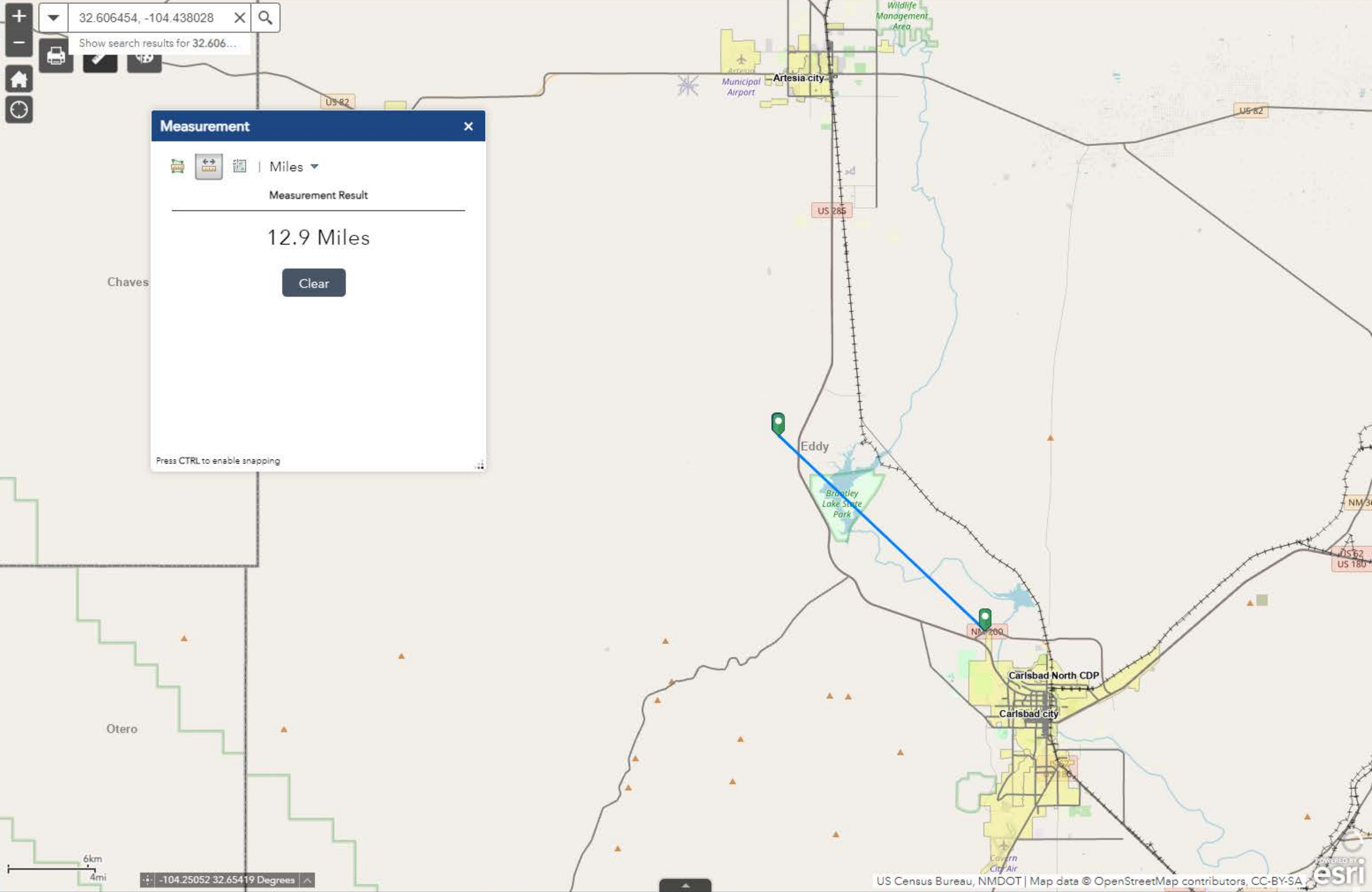
Miles

Measurement Result

12.9 Miles

Clear

Press CTRL to enable snapping





BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☒ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
  - ☐ Source Type
  - ☐ Image Scale
  - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure



Miles

Measurement Result

0.83 Miles

LEGEND

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

**Riparian**

- Forested/Shrub
- Herbaceous

1:18,056  
32.604 | -104.428

Seven Rivers

R4SB4J





Legend

Registered Mines

- Aggregate, Stone etc.
- Coal
- Gypsum
- Humate
- Industrial Minerals (Other)
- Metals
- Perlite
- Potash
- PM Pumice
- Red Dog, Scoria
- Salt
- U Uranium
- ZE Zeolites

32.606454 , -104.438028

Show search results for 32.606454 , -1...

Measurement



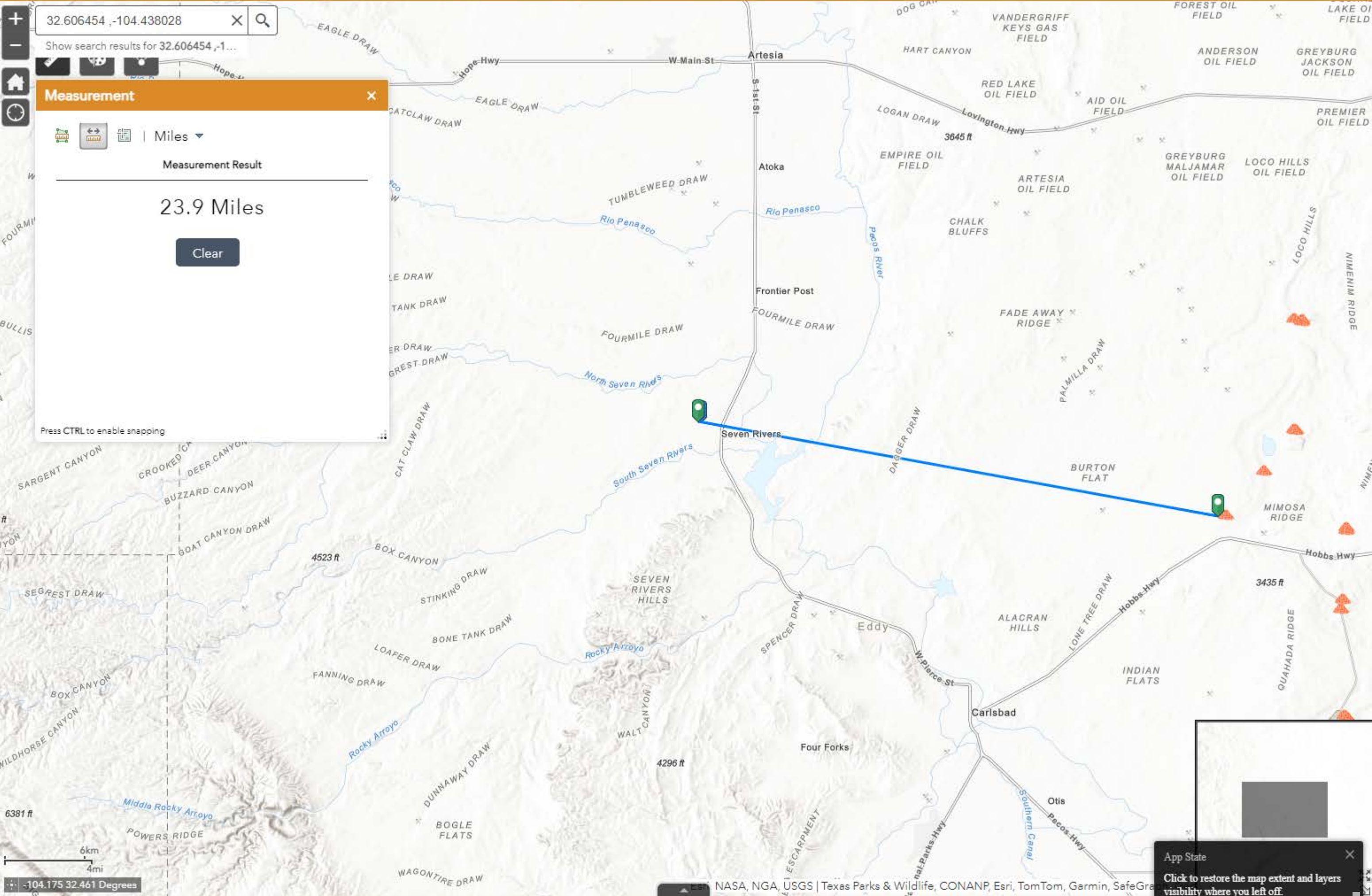
Miles

Measurement Result

23.9 Miles

Clear

Press CTRL to enable snapping



App State

Click to restore the map extent and layers visibility where you left off.





Legend

Permian Basin Karst Areas

Critical Karst Resource Area

Karst Occurrence Potential

Potential

High

Medium

Low

+

-

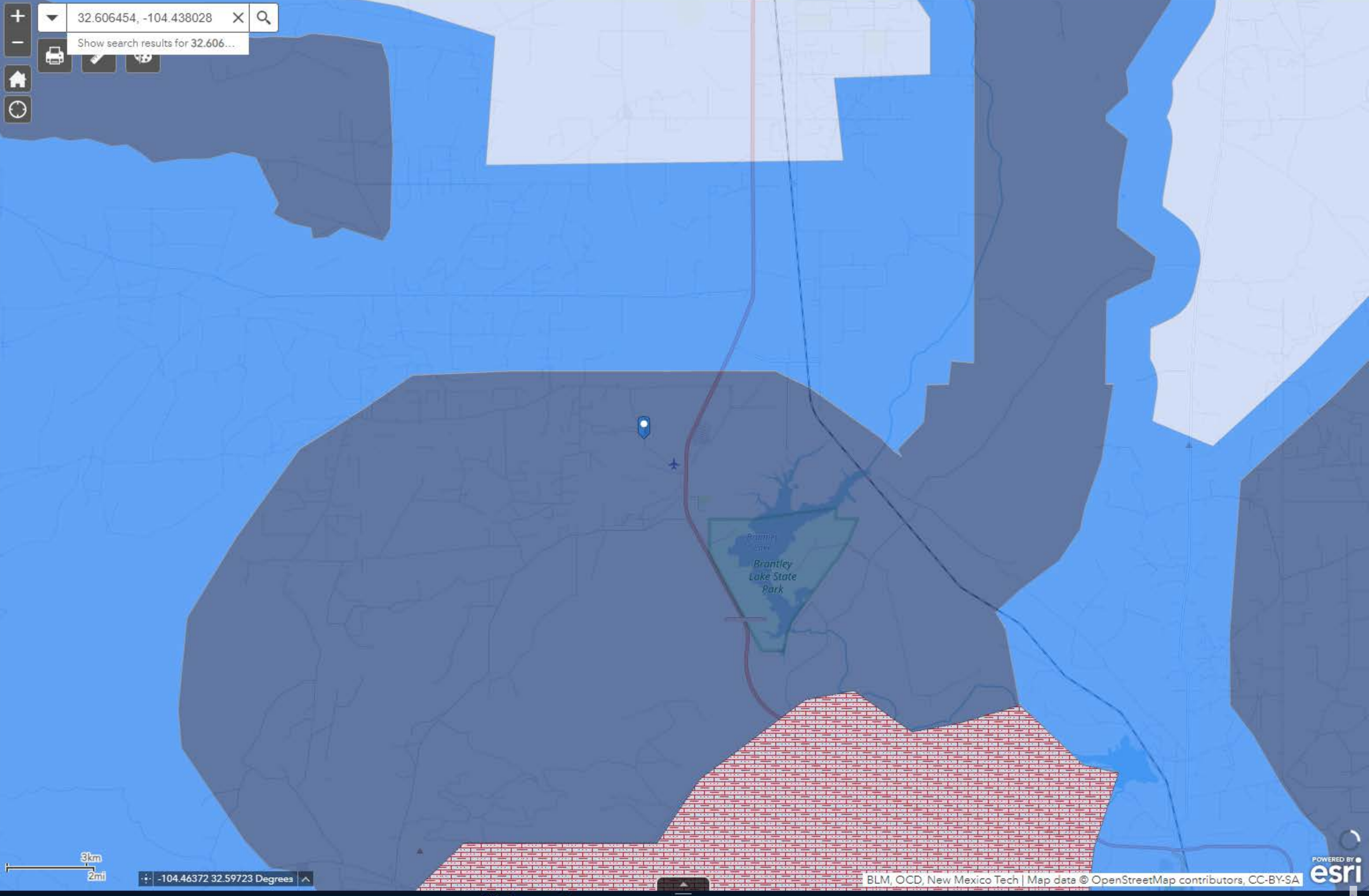
▼

32.606454, -104.438028

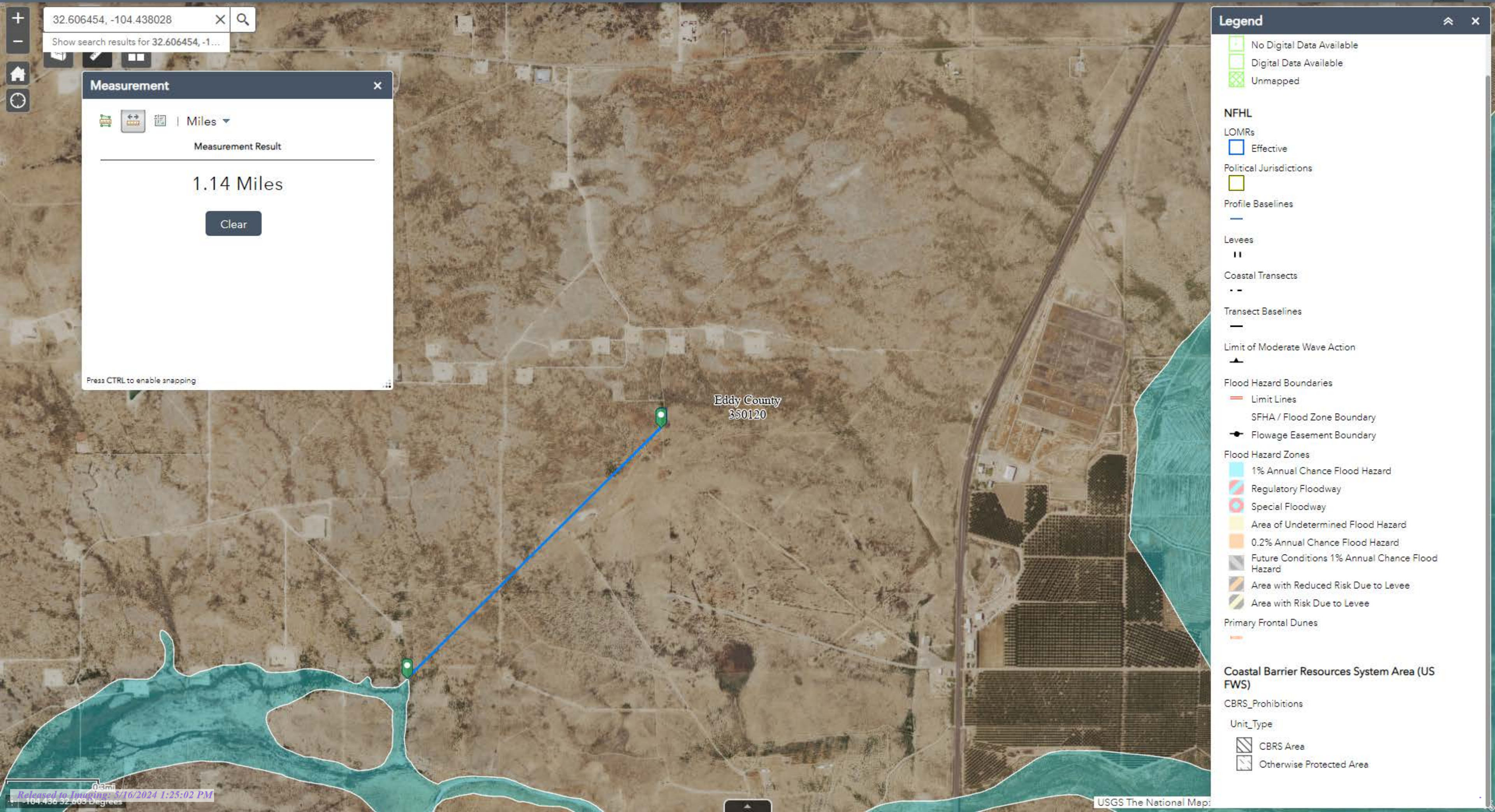
×

Q

Show search results for 32.606...









**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

**District IV**

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

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

QUESTIONS

Action 339073

**QUESTIONS**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	339073
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2317146882
Incident Name	NAPP2317146882 BONE YARD 11 FEE #16H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	BONE YARD 11 FEE #16H
Date Release Discovered	06/20/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Other (Specify)   Produced Water   Released: 7 BBL   Recovered: 4 BBL   Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	WELD ON POLY TRANSFER LINE FAILED RELEASING PRODUCED WATER INTO PASTURE AND TWO TRACK ROAD

**District I**

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QUESTIONS, Page 2

Action 339073

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
	328947
	Action Number:
	339073
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/30/2024
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1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

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811 S. First St., Artesia, NM 88210  
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1000 Rio Brazos Rd., Aztec, NM 87410  
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QUESTIONS, Page 3

Action 339073

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	339073
	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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	7520
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2090
GRO+DRO (EPA SW-846 Method 8015M)	1600
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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	03/13/2024
On what date will (or did) the final sampling or liner inspection occur	03/28/2024
On what date will (or was) the remediation complete(d)	04/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	10865
What is the estimated volume (in cubic yards) that will be reclaimed	1435
What is the estimated surface area (in square feet) that will be remediated	10865
What is the estimated volume (in cubic yards) that will be remediated	2428

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 339073

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	339073
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/30/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 339073

QUESTIONS (continued)

Operator:  Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:
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	Action Number:
	339073
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 339073

**QUESTIONS (continued)**

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID:	328947
	Action Number:	339073
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>326631</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>03/29/2024</b>
What was the (estimated) number of samples that were to be gathered	<b>15</b>
What was the sampling surface area in square feet	<b>7000</b>

**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	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>10865</b>
What was the total volume (cubic yards) remediated	<b>2428</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>10865</b>
What was the total volume (in cubic yards) reclaimed	<b>1435</b>
Summarize any additional remediation activities not included by answers (above)	<b>Remediation efforts were successful in removing contaminate material above the closure criteria concentrations</b>

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Katherine Purvis Title: EHS Coordinator Email: katherine.purvis@spurenergy.com Date: 04/30/2024
--	--

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Action 339073

QUESTIONS (continued)

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	Action Number:  339073
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 339073

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2317146882 BONE YARD 11 FEE #16H, thank you. This Remediation Closure Report is approved.	5/16/2024