

## Amended Remediation Summary & Soil Closure Request


### Mewbourne Oil Company PWMS Magnum Road Riser


Eddy County, New Mexico  
Unit Letter "P", Section 25, Township 25 South, Range 28 East  
Latitude 32.53939 North, Longitude 104.12453 West  
NMOCD Reference No. nAPP2401652735

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
6309 Indiana Avenue, Suite D  
Lubbock, Texas 79413

**January 19, 2026**

  
Ben J. Arguijo

  
Lance Crenshaw



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TABLE OF CONTENTS

	Section
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
REMEDIATION ACTIVITIES SUMMARY.....	4.0
SOIL CLOSURE REQUEST.....	5.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN.....	6.0
LIMITATIONS.....	7.0
DISTRIBUTION.....	8.0

FIGURES

- Figure 1 – Site Location Map
- Figure 2A – Site Characterization Map (0.5–Mile Radius)
- Figure 2B – Site Characterization Map (5–Mile Radius)
- Figure 3A – Sample Location Map
- Figure 3B – Sample Depth Map

TABLES

- Table 1 – Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

- Appendix A – Depth to Groundwater Information
- Appendix B – Photographic Log
- Appendix C – Field Data
- Appendix D – Laboratory Analytical Reports
- Appendix E – Regulatory Correspondence

## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Amended Remediation Summary & Soil Closure Request* for the release site known as the PWMS Magnum Road Riser. Details of the release are summarized below:

### Location of Release Source

Latitude: 32.53939 Longitude: -104.12453

Provided GPS are in WGS84 format.

Site Name: PWMS Magnum Road Riser	Site Type: Pipeline
Date Release Discovered: 1/7/2024	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"P"	25	25S	28E	Eddy

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

### 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) 144	Volume Recovered (bbls) 130
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: Mechanical failure on a gate valve.		

### 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 Permitting 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 26 and 50 (ft.)
What method was used to determine the depth to groundwater?	NMOSE iWaters Database
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?	1,000 (ft.) to ½ (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?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	½ to 1 (mi.)
Any other fresh water well or spring?	½ to 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	1 to 5 (mi.)
A wetland?	1,000 (ft.) to ½ (mi.)
A subsurface mine?	1 to 5 (mi.)
A (non-karst) unstable area?	1,000 (ft.) to ½ (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 PWMS Magnum Road Riser release 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 was 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, 2A, 2B, and 4.

## 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 Closure Criteria and Reclamation Standards for the PWMS Magnum Road Riser release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standards*‡
Between 26 and 50 (ft.) Feet	Chloride (Cl <sup>-</sup> )	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	N/A	N/A
	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)

\*\* Environmental Protection Agency

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

‡ The NMOCD Reclamation Standards apply 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 will (or did) the remediation commence?	1/19/2024	
On what date will (or did) the final sampling or liner inspection occur?	1/29/2024	
On what date will (or was) the remediation complete(d)?	2/2/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	12,270	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	1,587	
What was the total surface area (sq. ft.) that has or will be remediated?	12,270	
What was the total volume (cy) that has or will be remediated?	1,940	
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?	R360 Halfway Facility	
NMOCD Disposal Facility ID?	fEEM0112334510	
Summarize any additional remediation activities not included by answers above.	See below	

On January 19, 2024, remediation activities commenced at the PWMS Magnum Road Riser release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the Closure Criteria and/or Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavated area were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	320	FL 8 @ 5'	1/24/24	5	In-Situ
TPH	<30.0	All submitted samples	1/24, 1/25 & 1/29/24	0-10	In-Situ
GRO+DRO	<20.0	All submitted samples	1/24, 1/25 & 1/29/24	0-10	In-Situ
BTEX	<0.300	All submitted samples	1/24, 1/25 & 1/29/24	0-10	In-Situ
Benzene	<0.050	All submitted samples	1/24, 1/25 & 1/29/24	0-10	In-Situ

Please reference Table 1 for additional information.

On January 24, 2024, Etech collected 19 confirmation soil samples (FL 1 @ 2' through FL 19 @ 5') from the floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards in each of the submitted soil samples.

On January 25, 2024, Etech collected 28 confirmation soil samples (NW1, EW1, EW2, SW1, SW2, WW1 through WW4, and FL 21 @ 3' through FL 39 @ 5') 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 BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards in each of the submitted soil samples.

On January 29, 2024, Etech collected 27 confirmation soil samples (NW2, EW3, EW4, SW3, and FL 40 @ 6' through FL 62 @ 5.5') 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 BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and/or Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 222 feet in length, 12 to 112 feet in width, and one (1) to ten (10) feet in depth. During the course of remediation activities, Etech transported approximately 1,940 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 2,260 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3A, "Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the site are provided in Appendix B. Field data is provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

On March 12, 2024, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Soil Closure Request* was submitted to the NMOCD requesting regulatory closure of the release. The closure request was subsequently denied on May 15, 2024, on the basis that adequate documentation of the reclamation activities performed at the release site was not provided. On November 20, 2025, an amended *Remediation Summary & Soil Closure Request* (Amended Closure Request) was submitted to the NMOCD addressing the concerns raised and including all required documentation.

On December 19, 2025, the Amended Closure Request was rejected by the NMOCD due to perceived inconsistencies between the excavation depths reported in Table 1 and the provided photographic documentation, including the presence of an apparent higher section within the interior of the excavation. It was also noted that composite floor sample FL 20 was shown in Figure 3 but was missing from Table 1. The NMOCD requested appropriate updates to Table 1 and Figure 3 to address these discrepancies, as well as clarification on whether soil samples were collected along interior sidewalls (in addition to perimeter walls) to confirm that the excavation did not need to be further extended laterally.

In accordance with the NMOCD, the "Sample Location Map" (now designated as Figure 3A) has been updated to denote that composite floor sample FL 20 @ 3' was collected and field-screened, but was inadvertently not submitted for laboratory analysis. Table 1 has been updated to denote that sample depths listed therein represent the vertical extent of the excavation within a given composite confirmation sampling zone. Floor sample depths reflect the depth of the deepest composite subsample collected in a zone, while wall sample depths reflect the range of depths along the sidewalls in that section of the excavation.

Per Etech's confirmation sampling protocol, composite floor subsamples from deeper sections on the eastern side of the excavation would have been collected both along the excavation floor and along any interior walls, with the deepest sample depth for each composite reflected in Table 1. Laboratory analytical results from confirmation samples collected in those deeper areas indicated that the release was fully delineated, and lateral extension of the excavation was not required.

A "Sample Depth Map" is provided as Figure 3B. Copies of all regulatory correspondence are provided in Appendix E.

## 5.0 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
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
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	12,270	
What was the total volume (cy) remediated?	1,940	

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

A field sample was collected in the area designated as FL 20 but was inadvertently not submitted for laboratory analysis. However, the field test result and the laboratory analytical results for the surrounding confirmation floor samples (FL 17, 18, 19, 21, 22, and 23) and wall sample (WW3) indicate that area (yellow-highlighted point marker in Figures 3A and 3B) was delineated both horizontally and vertically. Based on a comparison between the field test data and lab results for the surrounding confirmation samples, the concentration of chloride remaining in-situ in FL 20 is estimated to be approximately 48 mg/kg (see table below). There was no petroleum odor or staining in the field sample; therefore, TPH and BTEX are inferred to be below the respective laboratory MDLs, as with each of the surrounding samples.

Sample ID	Cl- (Field)	Cl- (Lab)
FL 17 @ 5'	408	48.0
FL 18 @ 5'	328	160
FL 19 @ 5'	396	16.0
FL 20 @ 3'	408	N/A (~48)
FL 21 @ 3'	452	48.0
FL 22 @ 3'	452	16.0
FL 23 @ 3'	408	48.0
WW3	548	32.0

Based on the information summarized above, Etech recommends Mewbourne Oil Company, provide copies of this *Amended Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the PWMS Magnum Road Riser release site.

## 6.0 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
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	12,270	
What was the total volume (in cubic yards) reclaimed?	1,587	

Upon receiving laboratory analytical results from confirmation soil samples, from January 31 through February 2, 2024, the excavated area was backfilled with non-impacted "like" material sourced from the nearby Ballard borrow pit and emplaced at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

On March 25, 2024, in accordance with NMOCD and BLM requirements, the affected area was seeded with a certified weed-free BLM #2 seed mix. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Photographs of the seeding event and seed tag are provided in Appendix B.

On May 16, 2024, pursuant to NMOCD requirements, a 5-point composite soil sample (Ballard Topsoil Pit) was collected at the Ballard Pit to ensure that material obtained from therein was suitable for use as backfill at remediation/reclamation sites in the area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the NMOCD Reclamation Standards, confirming that material obtained from the Ballard Pit was acceptable for use as backfill at the site.

The site will be monitored for vegetation growth and noxious weeds, including but not limited to Russian Thistle and African Rue, at least annually. In the event that noxious weed species are encountered, they will be treated by a licensed contractor or mechanically removed. Upon completion of revegetation, a *Revegetation Report* will be prepared and submitted to the NMOCD for final inspection and release.

## 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Amended 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

## **8.0 DISTRIBUTION**

***Mewbourne Oil Company***  
*4801 Business Park Blvd.*  
*Hobbs, NM 88240*

***New Mexico Energy, Minerals and Natural Resources Department***  
*Oil Conservation Division, District 2*  
*811 S. First Street*  
*Artesia, NM 88210*

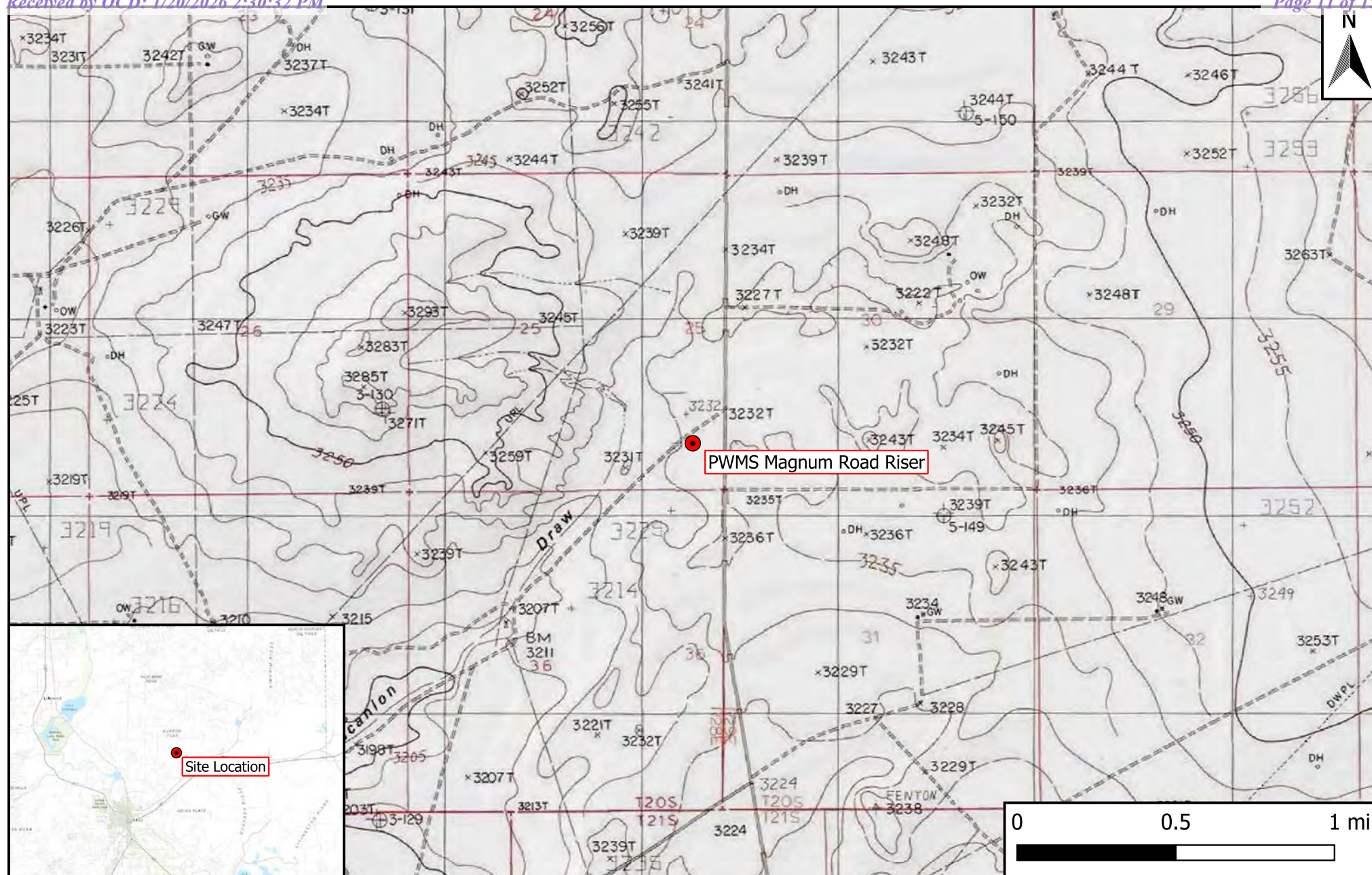
***United States Department of the Interior***  
*Bureau of Land Management*  
*620 E. Greene Street*  
*Carlsbad, NM 88220*

*(Electronic Submission)*

## **Figure 1**

### **Site Location Map**





## Legend

- Site Location

## Figure 1

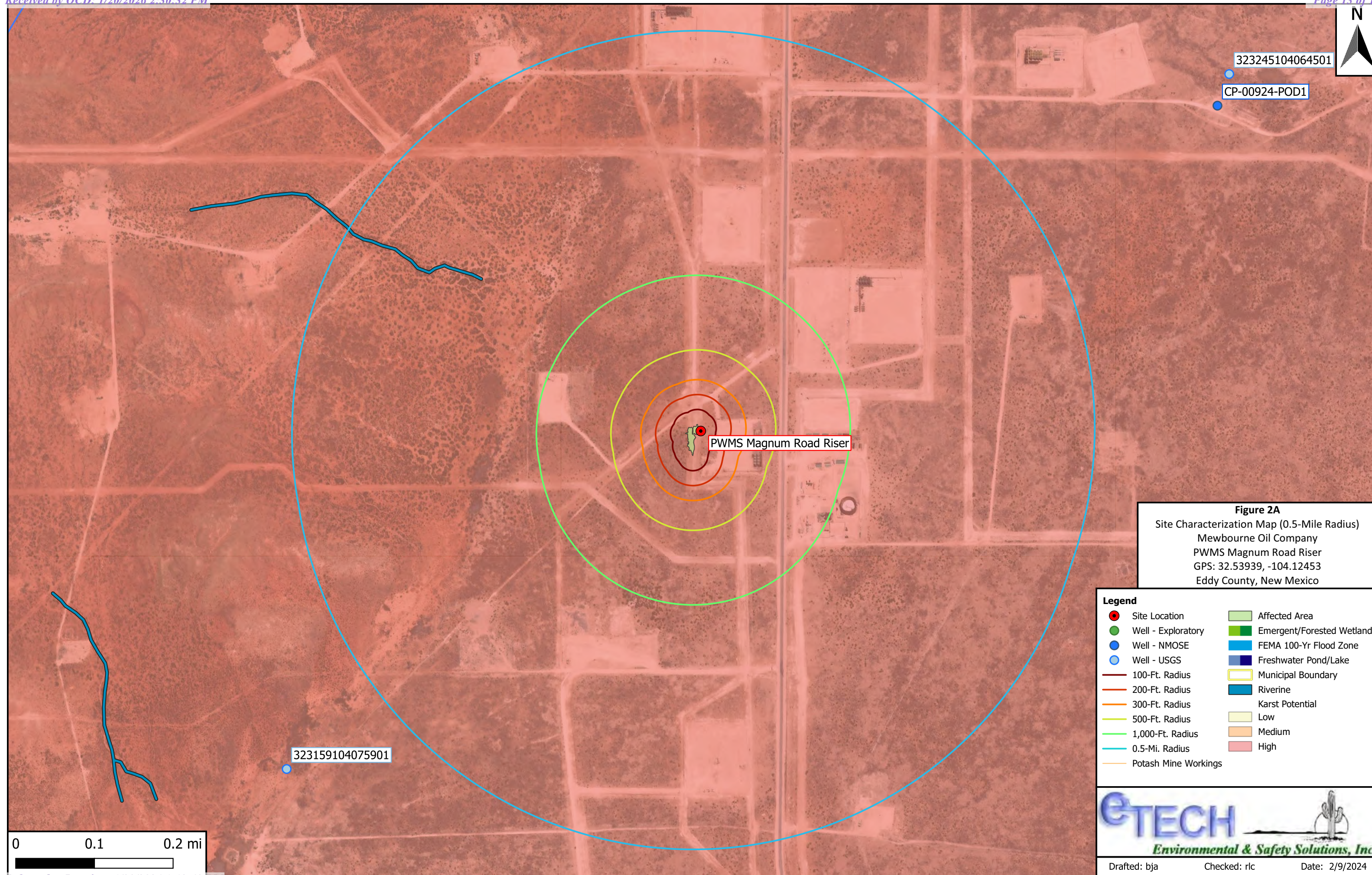
Site Location Map  
 Mewbourne Oil Company  
 PWMS Magnum Road Riser  
 GPS: 32.53939, -104.12453  
 Eddy County, New Mexico



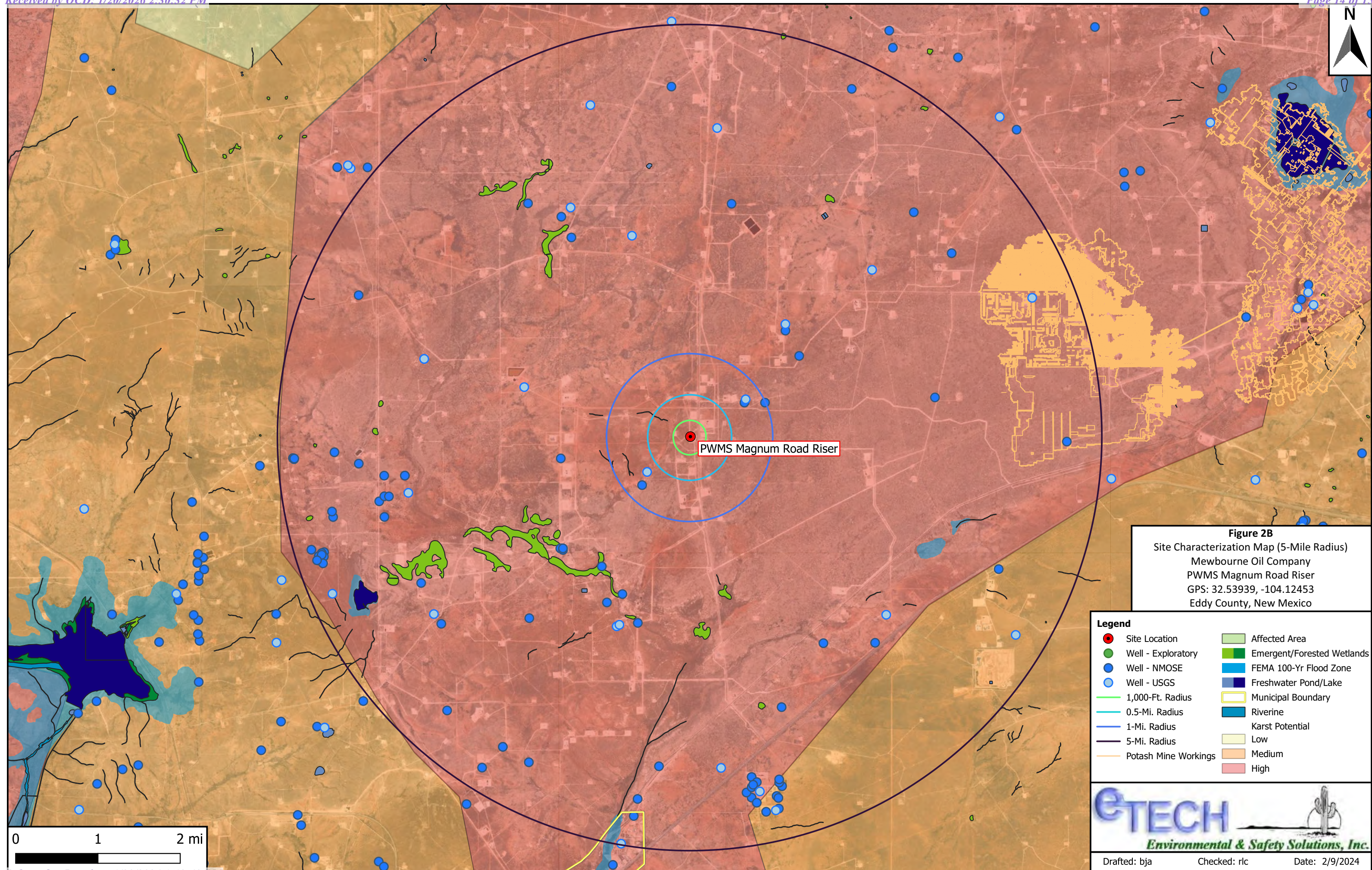
## **Figures 2A & 2B**

### **Site Characterization Maps**











## **Figures 3A & 3B**

### **Sample Maps**

**Legend**

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

**Figure 3A**

Sample Location Map  
 Mewbourne Oil Company  
 PWMS Magnum Road Riser  
 GPS: 32.53939, -104.12453  
 Eddy County, New Mexico

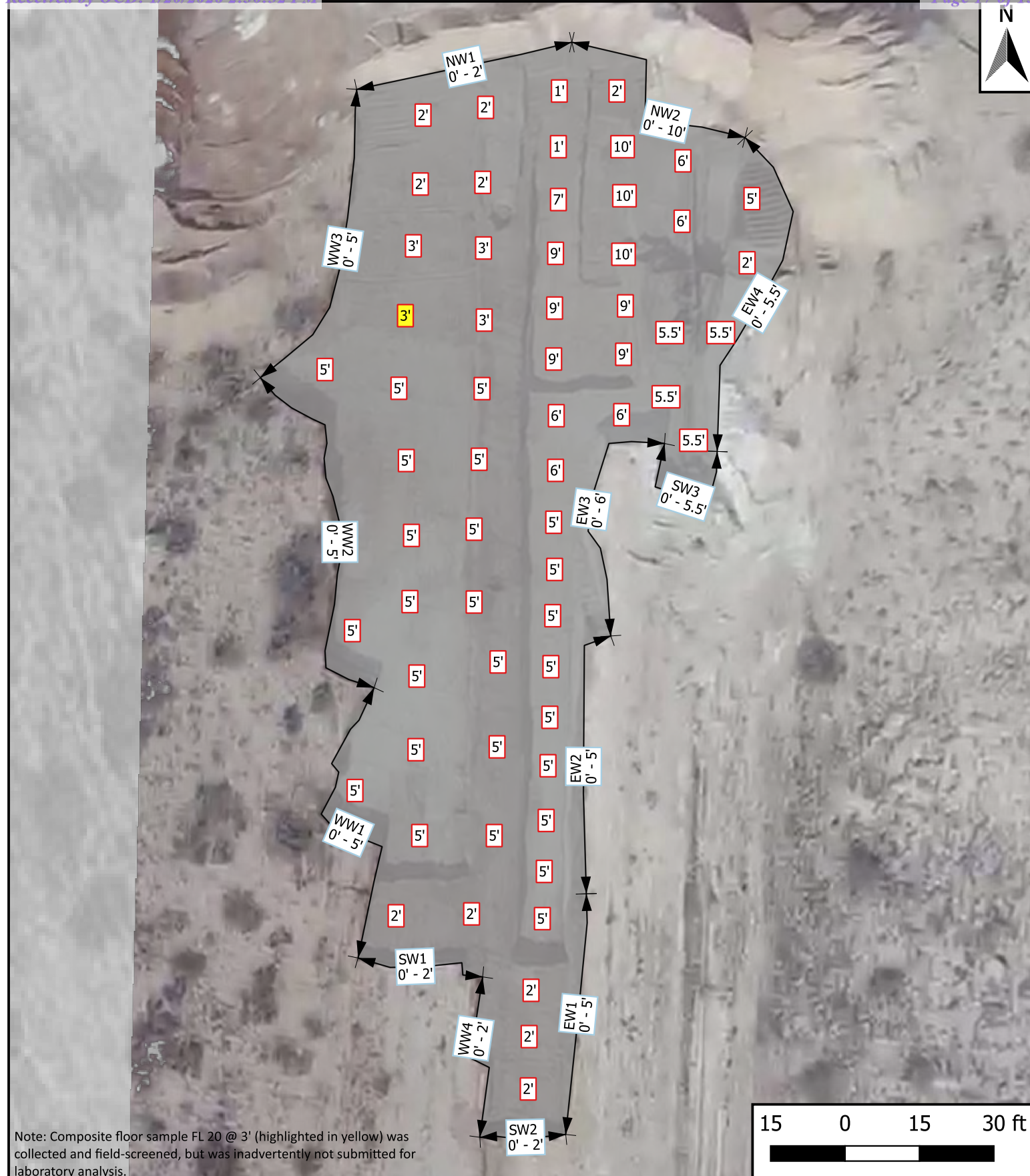


Revised: bja

Checked: rlc

Date: 1/19/26





**Legend**

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample

**Figure 3B**  
 Sample Depth Map  
 Mewbourne Oil Company  
 PWMS Magnum Road Riser  
 GPS: 32.53939, -104.12453  
 Eddy County, New Mexico

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

Revised: bja

Checked: rlc

Date: 1/19/26

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**PWMS Magnum Road Riser**  
**NMOCD Ref. #: nAPP2401652735**

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	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)
NW1	1/25/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW2	1/29/2024	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW1	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW2	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW3	1/29/2024	0-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW4	1/29/2024	0-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW1	1/25/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW2	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3	1/29/2024	0-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW1	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW2	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW3	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW4	1/25/2024	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 1 @ 2'	1/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 2 @ 2'	1/24/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 3 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 4 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 5 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 6 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 7 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 8 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 9 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 10 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 11 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 12 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 14 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 15 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 16 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 17 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 18 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 19 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 21 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 23 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 24 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 25 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 26 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 27 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 28 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 29 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 30 @ 2'	1/25/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 31 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 32 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

Note: Reported sample depths represent the vertical extent of the excavation within a given composite confirmation sampling zone. Floor sample depths reflect the depth of the deepest composite subsample collected within a zone, while wall sample depths reflect the range of depths along the sidewalls in that section of the excavation.

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

**Bold:** NMOCD Closure Criteria exceedance.

**Red:** NMOCD Reclamation Standard exceedance.

**Red Outlined Cell:** Highest observable concentration.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Mewbourne Oil Company</b> <b>PWMS Magnum Road Riser</b> <b>NMOCD Ref. #: nAPP2401652735</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	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 33 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 34 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 35 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 36 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 38 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 39 @ 5'	1/25/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 40 @ 6'	1/29/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 41 @ 6'	1/29/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 42 @ 6'	1/29/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 43 @ 9'	1/29/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 44 @ 9'	1/29/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 45 @ 9'	1/29/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 46 @ 9'	1/29/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 47 @ 10'	1/29/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 48 @ 9'	1/29/2024	9	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 49 @ 7'	1/29/2024	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 50 @ 10'	1/29/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 51 @ 10'	1/29/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 52 @ 1'	1/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 53 @ 1'	1/29/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 54 @ 2'	1/29/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 55 @ 6'	1/29/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 56 @ 6'	1/29/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 57 @ 5'	1/29/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 58 @ 2'	1/29/2024	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 59 @ 5.5'	1/29/2024	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 60 @ 5.5'	1/29/2024	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 61 @ 5.5'	1/29/2024	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 62 @ 5.5'	1/29/2024	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
Ballard Topsoil Pit	5/16/2024	N/A	Stockpiled	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144

Note: Reported sample depths represent the vertical extent of the excavation within a given composite confirmation sampling zone. Floor sample depths reflect the depth of the deepest composite subsample collected within a zone, while wall sample depths reflect the range of depths along the sidewalls in that section of the excavation.

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

**Bold:** NMOCD Closure Criteria exceedance.

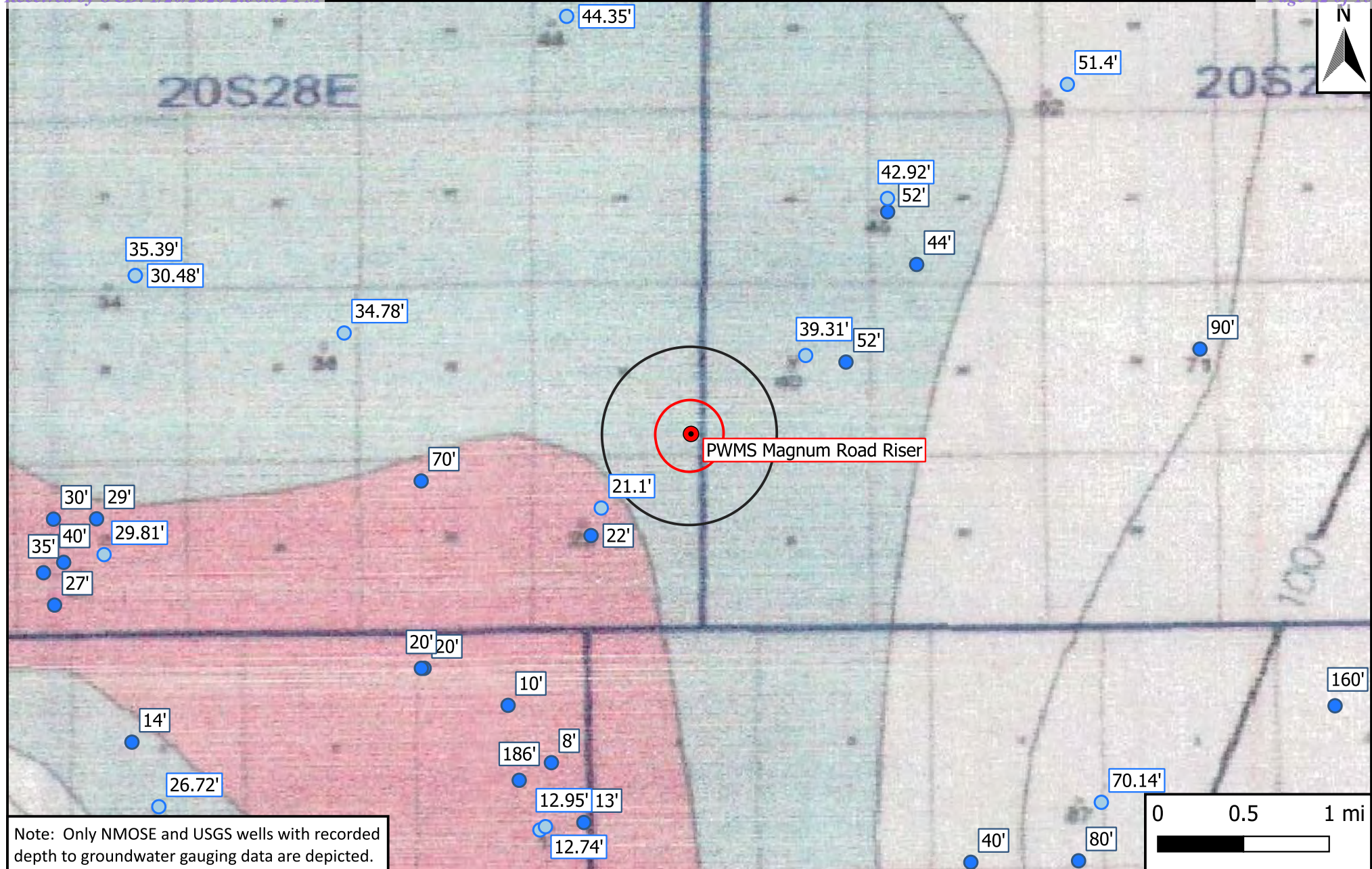
**Red:** NMOCD Reclamation Standard exceedance.

Red Outlined Cell: Highest observable concentration.



## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

## Figure 4

Inferred Depth to Groundwater Map  
 Mewbourne Oil Company  
 PWMS Magnum Road Riser  
 GPS: 32.53939, -104.12453  
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 2/9/24



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced,  
O=orphaned,

C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Sec 36	Tws 20S	Rng 28E	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_03269 POD1</a>		CUB	ED	3	4	1	36	20S	28E	581268	3599609*	1338	28	22	6
<a href="#">CP 00936 POD1</a>		CP	ED	3	4	2	30	20S	29E	583661	3601238*	1603	70	52	18

Average Depth to Water: **37 feet**

Minimum Depth: **22 feet**

Maximum Depth: **52 feet**

**Record Count:2**

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

**Easting (X):** 582206.41

**Northing (Y):** 3600563.38

**Radius:** 1610

**\*UTM location was derived from PLSS - see Help**

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


3/8/24 4:46 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)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03269 POD1	3	4	1	36	20S	28E	581268	3599609* 
<hr/>									
<b>Driller License:</b>		122		<b>Driller Company:</b>		UNKNOWN			
<b>Driller Name:</b>		UNKNOWN							
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>				12/31/1920		<b>Plug Date:</b>	
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>		6.00		<b>Depth Well:</b>		28 feet		<b>Depth Water:</b> 22 feet	
<hr/>									

\*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.


1/11/24 11:29 AM

POINT OF DIVERSION SUMMARY



# 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>
	CP 00936 POD1	3	4	2	30	20S	29E	583661	3601238* 
<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>									
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>		12/31/1929		<b>Plug Date:</b>			
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>	8.00	<b>Depth Well:</b>		70 feet		<b>Depth Water:</b>		52 feet	

\*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.

3/8/24 4:47 PM

POINT OF DIVERSION SUMMARY



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Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)**Search Results -- 1 sites found**

Agency code = usgs

site\_no list =

- 323159104075901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 323159104075901 20S.28E.36.14312**

Eddy County, New Mexico

Latitude 32°31'59", Longitude 104°07'59" NAD27

Land-surface elevation 3,209 feet above NAVD88

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

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

**Output formats**[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-27		D	72019	19.05			1	Z			A
1965-11-17		D	72019	19.24			P	Z			A
1968-05-22		D	72019	21.09			P	Z			A
1971-02-08		D	72019	19.85			1	Z			A
1976-12-08		D	72019	18.92			1	Z			A
1983-01-13		D	72019	18.34			1	Z			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1994-03-03		D	72019	22.03			1	S			A
1999-02-26		D	72019	21.10			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

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



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

Page Last Modified: 2024-03-08 18:50:56 EST

0.35 0.24 nadww01



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Data Category:

Groundwater

Geographic Area:

United States

GO



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Groundwater levels for the Nation



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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 323245104064501

Minimum number of levels = 1

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

### USGS 323245104064501 20S.29E.30.23333

Eddy County, New Mexico

Latitude 32°32'45", Longitude 104°06'45" NAD27

Land-surface elevation 3,231 feet above NAVD88

The depth of the well is 70 feet below land surface.

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

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

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-05-23			D	72019	40.75		1	Z			A
1971-02-08			D	72019	39.77		1	Z			A
1983-01-26			D	72019	40.94		1	Z			A
1994-03-03			D	72019	39.91		1	S			A
1999-01-20			D	72019	39.31		1	S	USGS	S	A



Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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## **Appendix B**

### **Photographic Log**

## Photographic Log

<b>Photo Number:</b> 1	
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 2	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the affected area.	





## Photographic Log

<b>Photo Number:</b> 3	 <p>08Jan24 10:01 MOC Magnum Rd Riser (PWMS) Carlsbad NM 88220, United States © 08-Jan-24 10:01:16</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	 <p>08Jan24 10:00 MOC Magnum Rd Riser (PWMS) Carlsbad NM 88220, United States © 08-Jan-24 10:00:07</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the affected area.	


## Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> Overhead/Bird's Eye View	
<b>Date:</b> January 30, 2024	
<b>Coordinates:</b> 32.539255,-104.124712	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	
<b>Photo Direction:</b> North	
<b>Date:</b> January 30, 2024	
<b>Coordinates:</b> 32.538661,-104.124707	
<b>Photo Description:</b>  View of the excavated area.	





## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> South	
<b>Date:</b> January 30, 2024	
<b>Coordinates:</b> 32.539806,-104.124696	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <div>Feb 2, 2024 at 1:27:23 PM +32.539918,-104.124400 Carlsbad NM 88220 United States</div>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	


## Photographic Log

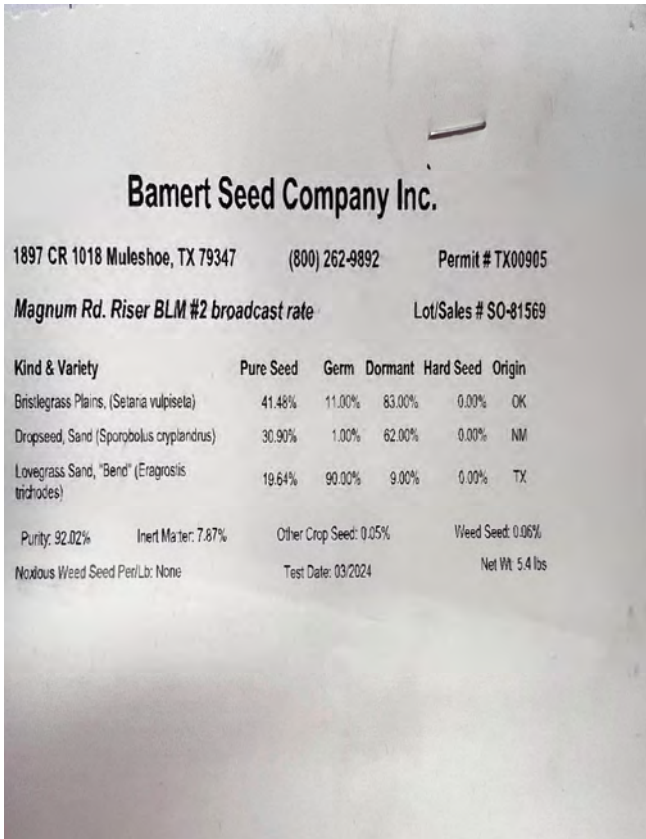
<b>Photo Number:</b> 9	<div>Feb 2, 2024 at 1:27:38 PM +32.539936,-104.124505 Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 10	<div>Feb 2, 2024 at 1:27:57 PM +32.539872,-104.124732 Carlsbad NM 88220 United States</div> 
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	



## Photographic Log

<b>Photo Number:</b> 11	
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area showing the background thickness of topsoil.	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> N/A	
<b>Photo Description:</b>  BLM #2 seed tag.	




## Photographic Log

<b>Photo Number:</b> 13	 <p>Mar 25, 2024 at 8:06:14 AM +32.539846,-104.124647 161° S Carlsbad NM 88220 United States</p>
<b>Photo Direction:</b> South-Southeast	
<b>Photo Description:</b>  View of the reclaimed area following seeding event.	

<b>Photo Number:</b> 14	 <p>Mar 25, 2024 at 8:24:40 AM +32.539758,-104.124565 184° S Carlsbad NM 88220 United States</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the reclaimed area following seeding event.	


## Photographic Log

<b>Photo Number:</b> 15	
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of the restored area and vegetation regrowth.	

<b>Photo Number:</b> 16	
<b>Photo Direction:</b> South-Southwest	
<b>Photo Description:</b>  View of the restored area and vegetation regrowth.	



## Photographic Log

<b>Photo Number:</b> 17	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the restored area and vegetation regrowth.	

<b>Photo Number:</b> 18	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b>  View of the restored area and vegetation regrowth.	

## **Appendix C**

### **Field Data**



## Sample Log

Date: \_\_\_\_\_

Project: Magnum Road Riser

Project Number: 19589 Latitude: 32.5394 Longitude: -104.12464

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 1 @ 1'	-	4096	
FL 2 @ 1'	-	4824	
FL 3 @ 1'	-	4820	
FL 4 @ 1'	-	2896	
FL 5 @ 1'	-	4824	
FL 6 @ 1'	-	5660	
FL 7 @ 1'	-	1992	
FL 8 @ 1'	-	5224	
FL 9 @ 1'	-	2480	
FL 10 @ 1'	-	1616	
<del>FL 10</del> WW1.	-	1284	
WW 2.	-	1196	
EW 1.	-	1116	
EW 2.	-	452	
FL 1 @ 2'	-	368	
WW 1	-	256	
TT-1 @ 3'	-	2224	
TT-1 @ 4'	-	968	
TT-1 @ 5'	-	196	
TT-2 @ 2'	-	2072	
TT-2 @ 3'	-	968	
TT-2 @ 4'	-	768	
TT-2 @ 5'	-	256	
FL 2 @ 2'	-	224	
FL 3 @ 5'	-	328	
FL 4 @ 5'	-	196	
FL 5 @ 5'	-	256	
FL 6 @ 5'	-	408	
SW 1.	-	196	
FL 7 @ 5'	-	196	
FL 8 @ 5'	-	408	
FL 9 @ 5'	-	328	
TT-3 @ 3'	-	368	
TT-3 @ 4'	-	368	
FL 10 @ 5'	-	408	
FL 11 @ 5'	-	224	

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: \_\_\_\_\_

Project: Magnum Road Riser

Project Number: 19589 Latitude: 32.5394 Longitude: -104.12464

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 12 @ 5'	-	1284	
FL 13 @ 5'	-	256	
FL 14 @ 5'	-	408	
FL 15 @ 5'	-	500	
FL 16 @ 5'	-	408	
WW 2	-	408	
WW 3	-	548	
FL 17 @ 5'	-	408	
FL 18 @ 5'	-	328	
FL 19 @ 5'	-	396	
TT-4 @ 2'	-	396	
TT-4 @ 3'	-	328	
TT-5 @ 2'	-	9084	
TT-5 @ 3'	-	7,415	
TT-5 @ 4'	-	5660	
TT-5 @ 5'	-	1572	
TT-5 @ 6'	-	292	
FL 20 @ 3'	-	408	
FL 21 @ 3'	-	452	
FL 22 @ 3'	-	452	
FL 23 @ 3'	-	408	
FL 24 @ 2'	-	328	
FL 25 @ 2'	-	368	
NW 1.	-	768	
TT @ 6'	-	452	
TT-6 @ 3'	-	1684	
TT-6 @ 4'	-	600	
EW 1.	-	408	
NW 1.	-	548	
SW 2	-	452	
FL 26 @ 2'	-	368	
FL 27 @ 2'	-	328	
FL 28 @ 2'	-	452	
FL 29 @ 2'	-	256	
FL 30 @ 2'	-	256	
FL 31 @ 5'	-	224	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas





## Sample Log

Date: \_\_\_\_\_

Project: Magnum Road Riser

Project Number: 19589 Latitude: 32.5394 Longitude: -104.12464

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 32 @ 5	—	256	
FL 33 @ 5	—	256	
FL 34 @ 5	—	224	
FL 35 @ 5	—	224	
FL 36 @ 5	—	368	
FL 37 @ 5	—	328	
FL 38 @ 5	—	452	
FL 39 @ 5	—	452	
WW 4	—	408	
<del>EW 3</del>	—	224	
TT-7 @ 6'	—	1684	
FL 40 @ 6'	—	408	
TT-7 @ 8'	—	368	
FL 41 @ 6'	—	256	
FL 42 @ 6'	—	452	
FL 43 @ 9'	—	328	
FL 44 @ 9'	—	224	
FL 45 @ 9'	—	452	
FL 46 @ 9'	—	<del>548</del> 328	
FL 47 @ 9'	—	896	
FL 48 @ 9'	—	548	
FL 49 @ 7'	—	368	
FL 50 @ 7'	—	832	
FL 47 @ 10'	—	368	
FL 50 @ 10'	—	116	
FL 51 @ 1'	—	2580	
FL 52 @ 1'	—	256	
FL 53 @ 1'	—	368	
FL 54 @ 1'	—	468	
EW 4	—	2580	
NW 2	—	548	
FL 51 @ 10'	—	292	
FL 54 @ 2'	—	548	
FL 55 @ 4'	—	2580	
FL 56 @ 4'	—	2580	
FL 55 @ 6'	—	256	

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: \_\_\_\_\_

**Project:**

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[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

## **Appendix D**

### **Laboratory Analytical Reports**



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

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January 30, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAGNUM ROAD RISER

Enclosed are the results of analyses for samples received by the laboratory on 01/25/24 14:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 1 @ 2' (H240349-01)**

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	01/26/2024	ND	2.16	108	2.00	1.69	
Toluene*	<0.050	0.050	01/26/2024	ND	2.15	107	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.13	107	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.24	104	6.00	1.62	
Total BTX	<0.300	0.300	01/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	01/26/2024	ND	464	116	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	01/26/2024	ND	199	99.5	200	0.230	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	185	92.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 2' (H240349-02)**

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	01/26/2024	ND	2.08	104	2.00	5.24	
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00	
Total BTX	<0.300	0.300	01/26/2024	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	32.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 5' (H240349-03)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 5' (H240349-04)**

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	01/26/2024	ND	2.08	104	2.00	5.24	
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00	
Total BTX	<0.300	0.300	01/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 5' (H240349-05)**

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	01/26/2024	ND	2.08	104	2.00	5.24	
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00	
Total BTX	<0.300	0.300	01/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 5' (H240349-06)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEx	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	64.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 5' (H240349-07)**

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	01/26/2024	ND	2.08	104	2.00	5.24	
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36	
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43	
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00	
Total BTX	<0.300	0.300	01/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 5' (H240349-08)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEx	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	320	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 5' (H240349-09)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEx	<0.300	0.300	01/26/2024	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	32.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 5' (H240349-10)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 5' (H240349-11)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEX	<0.300	0.300	01/26/2024	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	48.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 5' (H240349-12)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEx	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 5' (H240349-13)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 5' (H240349-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	01/26/2024	ND	464	116	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 5' (H240349-15)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/26/2024	ND	448	112	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 5' (H240349-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	01/26/2024	ND	448	112	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 5' (H240349-17)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	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	48.0	16.0	01/26/2024	ND	448	112	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 5' (H240349-18)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTX	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/26/2024	ND	448	112	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/25/2024  
 Reported: 01/30/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 5' (H240349-19)**

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	01/26/2024	ND	2.08	104	2.00	5.24		
Toluene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.36		
Ethylbenzene*	<0.050	0.050	01/26/2024	ND	2.10	105	2.00	5.43		
Total Xylenes*	<0.150	0.150	01/26/2024	ND	6.41	107	6.00	5.00		
Total BTEx	<0.300	0.300	01/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/26/2024	ND	448	112	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	01/26/2024	ND	228	114	200	7.49	
DRO >C10-C28*	<10.0	10.0	01/26/2024	ND	228	114	200	9.51	
EXT DRO >C28-C36	<10.0	10.0	01/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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

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



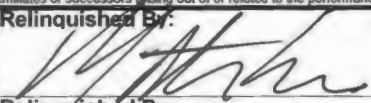

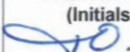
**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 22 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourne															
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 19589 Project Owner: Mewbourne				City:															
Project Name: Magnum Road Riser				State: NM Zip:															
Project Location: 32.5394, -104.12464				Phone #:															
Sampler Name: Aaron Rios				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							
H240349				C 1		X		X		1/24/24				X		X		X	
1 FL1 @ 2'		C 1		X		X		1/24/24				X		X		X			
2 FL2 @ 2'		C 1		X		X		1/24/24				X		X		X			
3 FL3 @ 5'		C 1		X		X		1/24/24				X		X		X			
4 FL4 @ 5'		C 1		X		X		1/24/24				X		X		X			
5 FL5 @ 5'		C 1		X		X		1/24/24				X		X		X			
6 FL6 @ 5'		C 1		X		X		1/24/24				X		X		X			
7 FL7 @ 5'		C 1		X		X		1/24/24				X		X		X			
8 FL8 @ 5'		C 1		X		X		1/24/24				X		X		X			
9 FL9 @ 5'		C 1		X		X		1/24/24				X		X		X			
10 FL10 @ 5'		C 1		X		X		1/24/24				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>																			
Relinquished By: 				Date: 1-25-24 Time: 1453				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:			
Relinquished By:				Date:				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:			
				Time:								REMARKS:							
Delivered By: (Circle One)				#140				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.			
Sampler - UPS - Bus - Other:				-7.7°C				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) 							

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

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January 31, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAGNUM ROAD RISER

Enclosed are the results of analyses for samples received by the laboratory on 01/26/24 14:34.

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 21 @ 3' (H240371-01)**

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	01/29/2024	ND	2.37	118	2.00	1.28	
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20	
Total BTEx	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/29/2024	ND	448	112	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	01/29/2024	ND	201	101	200	6.47	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	109	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 22 @ 3' (H240371-02)**

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	01/29/2024	ND	2.37	118	2.00	1.28	
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20	
Total BTEX	<0.300	0.300	01/29/2024	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	16.0	16.0	01/29/2024	ND	448	112	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	01/29/2024	ND	201	101	200	6.47	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	109	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 23 @ 3' (H240371-03)**

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	01/29/2024	ND	2.37	118	2.00	1.28	
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20	
Total BTEX	<0.300	0.300	01/29/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/29/2024	ND	448	112	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	01/29/2024	ND	201	101	200	6.47	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	219	109	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 24 @ 2' (H240371-04)**

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	01/29/2024	ND	2.37	118	2.00	1.28	
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20	
Total BTEX	<0.300	0.300	01/29/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/29/2024	ND	448	112	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	01/30/2024	ND	201	101	200	6.47	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	219	109	200	6.96	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

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

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 25 @ 2' (H240371-05)**

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	01/29/2024	ND	2.37	118	2.00	1.28		
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20		
Total BTEX	<0.300	0.300	01/29/2024	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	144	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 26 @ 2' (H240371-06)**

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	01/29/2024	ND	2.37	118	2.00	1.28		
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20		
Total BTEx	<0.300	0.300	01/29/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 27 @ 2' (H240371-07)**

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	01/29/2024	ND	2.37	118	2.00	1.28		
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20		
Total BTEX	<0.300	0.300	01/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	64.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 28 @ 2' (H240371-08)**

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	01/29/2024	ND	2.37	118	2.00	1.28		
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20		
Total BTEX	<0.300	0.300	01/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 29 @ 2' (H240371-09)**

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	01/29/2024	ND	2.37	118	2.00	1.28		
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20		
Total BTEX	<0.300	0.300	01/29/2024	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	32.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 30 @ 2' (H240371-10)**

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	01/29/2024	ND	2.37	118	2.00	1.28	
Toluene*	<0.050	0.050	01/29/2024	ND	2.38	119	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.50	125	2.00	5.85	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.50	125	6.00	7.20	
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 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	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 31 @ 5' (H240371-11)**

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	01/29/2024	ND	2.39	120	2.00	1.16	QM-07, QR-03
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39	QM-07, QR-03
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 32 @ 5' (H240371-12)**

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	01/29/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 33 @ 5' (H240371-13)**

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	01/29/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39		
Total BTEx	<0.300	0.300	01/29/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 34 @ 5' (H240371-14)**

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	01/29/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 35 @ 5' (H240371-15)**

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	01/29/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 36 @ 5' (H240371-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39		
Total BTX	<0.300	0.300	01/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 37 @ 5' (H240371-17)**

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	01/29/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/29/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/29/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	16.0	16.0	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 38 @ 5' (H240371-18)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 39 @ 5' (H240371-19)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEX	<0.300	0.300	01/30/2024	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	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 1 (H240371-20)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEX	<0.300	0.300	01/30/2024	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	16.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 2 (H240371-21)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 3 (H240371-22)**

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	01/30/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22	GC-NC
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/29/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WW 4 (H240371-23)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEX	<0.300	0.300	01/30/2024	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	96.0	16.0	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 1 (H240371-24)**

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	01/30/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/29/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2024	ND	199	99.4	200	0.922	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	244	122	200	9.36	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2 (H240371-25)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: NW 1 (H240371-26)**

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	01/30/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/30/2024	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	<16.0	16.0	01/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 1 (H240371-27)**

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	01/30/2024	ND	2.39	120	2.00	1.16	
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/26/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.1246

Sampling Date: 01/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 2 (H240371-28)**

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	01/30/2024	ND	2.39	120	2.00	1.16		
Toluene*	<0.050	0.050	01/30/2024	ND	2.40	120	2.00	0.533		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.42	121	2.00	1.22		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.19	120	6.00	1.39		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	01/29/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	203	101	200	0.400	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	201	101	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

### 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.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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\*=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**

Page 31 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																											
Project Manager: Lance Crenshaw										P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)																									
Address: 2617 West Marland										Company: Mewbourne																													
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker																													
Phone #: (575) 264-9884 Fax #:										Address:																													
Project #: 19589 Project Owner: Mewbourne										City:																													
Project Name: Magnum Road Riser										State: NM Zip:																													
Project Location: 32.5394, -104.12464										Phone #:																													
Sampler Name: Aaron Rios										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									
4240371						C		1		X												X				1/25/24				X		X		X					
2		FL21 @ 3'				C		1		X												X				1/25/24				X		X		X					
3		FL22 @ 3'				C		1		X												X				1/25/24				X		X		X					
4		FL23 @ 3'				C		1		X												X				1/25/24				X		X		X					
5		FL24 @ 2'				C		1		X												X				1/25/24				X		X		X					
6		FL25 @ 2'				C		1		X												X				1/25/24				X		X		X					
7		FL26 @ 2'				C		1		X												X				1/25/24				X		X		X					
8		FL27 @ 2'				C		1		X												X				1/25/24				X		X		X					
9		FL28 @ 2'				C		1		X												X				1/25/24				X		X		X					
10		FL29 @ 2'				C		1		X												X				1/25/24				X		X		X					
		FL30 @ 2'				C		1		X												X				1/25/24				X		X		X					

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Relinquished By:	Date: 1-24-24	Received By: S Rodriguez	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1434		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results and copy of CoC to pm@etechenv.com.	
Delivered By: (Circle One)	-391	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	#140	Cool- Intact	872	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

FORM-006

Revision 1.0

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# **CARDINAL LABORATORIES**

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

Page 32 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																																							
Project Manager: Lance Crenshaw										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																							
Address: 2617 West Marland										Company: Mewbourne																																																	
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker																																																	
Phone #: (575) 264-9884 Fax #:										Address:																																																	
Project #: 19589 Project Owner: Mewbourne										City:																																																	
Project Name: Magnum Road Riser										State: NM Zip:																																																	
Project Location: 32.5394, -104.12464										Phone #:																																																	
Sampler Name: Aaron Rios										Fax #:																																																	
FOR LAB USE ONLY										MATRIX										PRESERV.										SAMPLING																													
Lab I.D. H240371										Sample I.D.										(G)RAB OR (C)OMP.										# CONTAINERS																													
										GROUNDWATER										WASTEWATER										SOIL																													
										OIL										SLUDGE										OTHER:																													
										ACID/BASE:										ICE / COOL										OTHER:																													
										DATE										TIME																																							
11 FL31 @ 5'										C 1										X										X										1/25/24																			
12 FL32 @ 5'										C 1										X										X										1/25/24																			
13 FL33 @ 5'										C 1										X										X										1/25/24																			
14 FL34 @ 5'										C 1										X										X										1/25/24																			
15 FL35 @ 5'										C 1										X										X										1/25/24																			
16 FL36 @ 5'										C 1										X										X										1/25/24																			
17 FL37 @ 5'										C 1										X										X										1/25/24																			
18 FL38 @ 5'										C 1										X										X										1/25/24																			
19 FL39 @ 5'										C 1										X										X										1/25/24																			
20 WW1										C 1										X										X										1/25/24																			
<p><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></p>																																																											
Relinquished By: <i>[Signature]</i>										Date: 1-26-24										Received By: <i>[Signature]</i>										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No										Add'l Phone #:																			
										Time: 1434																				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No										Add'l Fax #:																			
Relinquished By:										Date:										Received By:										REMARKS:																													
										Time:																																																	
Delivered By: (Circle One)										Sample Condition										CHECKED BY:										Please email results and copy of CoC to pm@etechenv.com.																													
Sampler - UPS - Bus - Other: -3.92 #140										Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										(Initials) 872																																							

FORM-006  
Revision 1.0

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						<b>BILL TO</b>								<b>ANALYSIS REQUEST</b>																	
Project Manager: Lance Crenshaw						P.O. #:																									
Address: 2617 West Marland						Company Mewbourne																									
City: Hobbs State: NM Zip: 88240						Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:						Address:																									
Project #: 19589 Project Owner: Mewbourne						City:																									
Project Name: Magnum Road Riser						State: NM Zip:																									
Project Location: 32.5394, -104.12464						Phone #:																									
Sampler Name: Aaron Rios						Fax #:																									
FOR LAB USE ONLY						MATRIX PRESERV. SAMPLING																									
H240371																						Chloride TPH (8015M) BTEX (8021B)									
Lab I.D. Sample I.D.																															
21 WW2						C	1	X			X	1/25/24		X	X	X															
22 WW3						C	1	X			X	1/25/24		X	X	X															
23 WW4						C	1	X			X	1/25/24		X	X	X															
24 SW1						C	1	X			X	1/25/24		X	X	X															
25 SW2						C	1	X			X	1/25/24		X	X	X															
26 NW1						C	1	X			X	1/25/24		X	X	X															
27 EW1						C	1	X			X	1/25/24		X	X	X															
28 EW2						C	1	X			X	1/25/24		X	X	X															
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: [Signature]						Date: 12-24-24 Time: 1434						Received By: S Rodriguez						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:													
Relinquished By:						Date:						Received By:						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:													
Delivered By: (Circle One)						Time:												REMARKS:													
Sampler - UPS - Bus - Other: 3-A : #140																															
Sample Condition Cool Intact						CHECKED BY: (Initials)						Please email results and copy of CoC to pm@etechenv.com.																			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						S/R																									



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

---

January 31, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAGNUM ROAD RISER

Enclosed are the results of analyses for samples received by the laboratory on 01/30/24 8:05.

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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 40 @ 6' (H240407-01)**

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	01/31/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/31/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	6.28	105	6.00	2.97		
Total BTX	<0.300	0.300	01/31/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 41 @ 6' (H240407-02)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 42 @ 6' (H240407-03)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 43 @ 9' (H240407-04)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	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	32.0	16.0	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 44 @ 9' (H240407-05)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	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	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 45 @ 9' (H240407-06)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	01/30/2024	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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 46 @ 9' (H240407-07)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEx	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 47 @ 10' (H240407-08)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 48 @ 9' (H240407-09)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 49 @ 7' (H240407-10)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 50 @ 10' (H240407-11)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	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	48.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	225	112	200	1.10	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	232	116	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 51 @ 10' (H240407-12)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 52 @ 1' (H240407-13)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 53 @ 1' (H240407-14)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEx	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 54 @ 2' (H240407-15)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	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	32.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

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 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 55 @ 6' (H240407-16)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 56 @ 6' (H240407-17)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709	
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 57 @ 5' (H240407-18)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 58 @ 2' (H240407-19)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 59 @ 5.5' (H240407-20)**

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	01/30/2024	ND	1.97	98.4	2.00	0.709		
Toluene*	<0.050	0.050	01/30/2024	ND	2.08	104	2.00	2.17		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.09	104	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.28	105	6.00	2.97		
Total BTEX	<0.300	0.300	01/30/2024	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	80.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

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

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 60 @ 5.5' (H240407-21)**

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	01/30/2024	ND	2.41	120	2.00	2.12		
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60		
Total BTEx	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 61 @ 5.5' (H240407-22)**

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	01/30/2024	ND	2.41	120	2.00	2.12		
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60		
Total BTEX	<0.300	0.300	01/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 62 @ 5.5' (H240407-23)**

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	01/30/2024	ND	2.41	120	2.00	2.12		
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376		
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92		
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60		
Total BTEX	<0.300	0.300	01/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 3 (H240407-24)**

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	01/30/2024	ND	2.41	120	2.00	2.12	
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60	
Total BTEX	<0.300	0.300	01/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/30/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/30/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/30/2024	ND					

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

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 4 (H240407-25)**

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	01/30/2024	ND	2.41	120	2.00	2.12	
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	192	16.0	01/30/2024	ND	400	100	400	7.69	

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	01/31/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H240407-26)**

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	01/30/2024	ND	2.41	120	2.00	2.12	
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/30/2024	ND	400	100	400	7.69		

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	01/31/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

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

Received: 01/30/2024  
 Reported: 01/31/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 01/29/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 3 (H240407-27)**

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	01/30/2024	ND	2.41	120	2.00	2.12	
Toluene*	<0.050	0.050	01/30/2024	ND	2.34	117	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.44	122	2.00	2.92	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	7.32	122	6.00	3.60	
Total BTEX	<0.300	0.300	01/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	01/30/2024	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	01/31/2024	ND	202	101	200	1.76	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	191	95.3	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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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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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**

Page 30 of 32

Company Name: Etech Environmental & Safety Solutions, Inc.										<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: Lance Crenshaw										P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland										Company: SEE REMARKS																	
City: Hobbs State: NM Zip: 88240										Attn:																	
Phone #: (575) 264-9884 Fax #:										Address:																	
Project #: 19589 Project Owner: Mewbourne										City:																	
Project Name: Magnum Road Riser										State: NM Zip:																	
Project Location: 32.5394, -104.12464										Phone #:																	
Sampler Name: Aaron Rios										Fax #:																	
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											
H2440407																											
1		FL40 @ 6'		C	1			X				X			1/29/24		X	X	X								
2		FL41 @ 6'		C	1			X				X			1/29/24		X	X	X								
3		FL42 @ 6'		C	1			X				X			1/29/24		X	X	X								
4		FL43 @ 9'		C	1			X				X			1/29/24		X	X	X								
5		FL44 @ 9'		C	1			X				X			1/29/24		X	X	X								
6		FL45 @ 9'		C	1			X				X			1/29/24		X	X	X								
7		FL46 @ 9'		C	1			X				X			1/29/24		X	X	X								
8		FL47 @ 10'		C	1			X				X			1/29/24		X	X	X								
9		FL48 @ 9'		C	1			X				X			1/29/24		X	X	X								
10		FL49 @ 7'		C	1			X				X			1/29/24		X	X	X								
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Relinquished By:				Date: 1-30-24		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
				Time: 0805						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						<p><b>RUSH SAMPLES</b></p> <p>Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>																	
Delivered By: (Circle One)						Sample Condition						CHECKED BY:															
Sampler - UPS - Bus - Other:						Cool Intact						(Initials)															
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															

FORM-006  
Revision 1.0

† 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: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																																							
Address: 2617 West Marland				Company SEE REMARKS																																											
City: Hobbs State: NM Zip: 88240				Attn:																																											
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Project Location: 32.5394, -104.12464				Phone #:																																											
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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																			
H240407				C 1								X										X				1/29/24				X		X		X													
11		FL50 @ 10'		C 1								X										X				1/29/24				X		X		X													
12		FL51 @ 10'		C 1								X										X				1/29/24				X		X		X													
13		FL52 @ 1'		C 1								X										X				1/29/24				X		X		X													
14		FL53 @ 1'		C 1								X										X				1/29/24				X		X		X													
15		FL54 @ 2'		C 1								X										X				1/29/24				X		X		X													
16		FL55 @ 6'		C 1								X										X				1/29/24				X		X		X													
17		FL56 @ 6'		C 1								X										X				1/29/24				X		X		X													
18		FL57 @ 5'		C 1								X										X				1/29/24				X		X		X													
19		FL58 @ 2'		C 1								X										X				1/29/24				X		X		X													
20		FL59 @ 5.5'		C 1								X										X				1/29/24				X		X		X													
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Relinquished By:				Date: 1-30-24				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																															
				Time: 0805								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																															
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				Time:								RUSH SAMPLES																																			
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Sampler - UPS - Bus - Other:								Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)				Please email results and copy of CoC to pm@etechenv.com.																															
				-8.200				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				#140																															







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

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May 17, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MAGNUM ROAD RISER

Enclosed are the results of analyses for samples received by the laboratory on 05/16/24 15:37.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 LANCE CRENSHAW  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 05/16/2024  
 Reported: 05/17/2024  
 Project Name: MAGNUM ROAD RISER  
 Project Number: 19589  
 Project Location: MEWBOURNE 32.5394, -104.12464

Sampling Date: 05/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BALLARD TOPSOIL PIT (H242725-01)**

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	05/16/2024	ND	2.15	108	2.00	2.32		
Toluene*	<0.050	0.050	05/16/2024	ND	2.18	109	2.00	0.855		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.14	107	2.00	0.0235		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.58	110	6.00	0.307		
Total BTEX	<0.300	0.300	05/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2024	ND	201	101	200	2.64	
DRO >C10-C28*	<10.0	10.0	05/17/2024	ND	200	99.8	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	05/17/2024	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

[illegible]



## **Appendix E**

### **Regulatory Correspondence**

**From:** [Connor Walker](#)  
**To:** [Lance Crenshaw](#); [Jeff Broom](#); [Ben Arguijo](#)  
**Subject:** FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 305427  
**Date:** Friday, January 19, 2024 9:48:03 AM

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**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Friday, January 19, 2024 8:46 AM  
**To:** Connor Walker <cwalker@mewbourne.com>  
**Subject:** [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 305427

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2401652735.

The sampling event is expected to take place:

**When:** 01/23/2024 @ 08:00

**Where:** P-25-20S-28E 0 FNL 0 FEL (32.53939,-104.12453)

**Additional Information:** Sample tech: Aaron Rios

Phone: 432-701-8602

[aaronr@etecheny.com](mailto:aaronr@etecheny.com)

**Additional Instructions:** From the intersection of Magnum Rd and Co Rd 238 (GPS: 32.566641, -104.122749), head S on Magnum Rd for 1.78 mi, then SW for 0.14 mi, then S into the pasture for 0.04 mi to arrive at the Magnum Road Riser release area (GPS: 32.539259, -104.124724).

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

**From:** [Lance Crenshaw via monday.com](#)  
**To:** [Ben Arguijo](#)  
**Subject:** Re: PWMS Magnum Rd Riser - To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO), The...  
**Date:** Wednesday, May 15, 2024 5:04:37 PM

---

## Connor Walker

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),  
The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2401652735,

for the following reasons:

- **Reclamation denied. The following needs to be submitted for reclamation approval. Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. Pictures of the backfilled areas showing that the area is back to the original condition or the final land use and maintain those areas to control dust/minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.**
- **Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC**
- **Resubmit report to the OCD by 6/14/2024.**

The rejected C-141 can be found in the OCD Online:  
Permitting - Action Status, under the Application ID:  
322698.

Please review and make the required correction(s) prior  
to resubmitting.

If you have any questions why this application was  
rejected or believe it was rejected in error, please contact  
me prior to submitting an additional C-141.  
Thank you,

Shelly Wells

Environmental Specialist-A

505-469-7520

[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)

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

1220 South St. Francis Drive

Santa Fe, NM 87505

**From:** OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>

**Sent:** Friday, December 19, 2025 9:46 AM

**To:** Jeff Broom <jbroom@mewbourne.com>

**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2401652735, for the following reasons:

- **Remediation closure denied for the following reasons:**
- **1) The depths of excavation listed in Table I do not match with the photographic documentation provided of the excavation. According to Table I, from WW1/WW2 all the way over to the east side of the excavation at EW2 and EW3 you excavated to 5, however referring to Photos 5-7 there is a higher section that appears to run through the entire middle of the excavation. Update Figure or Table to reflect this. In addition, explain if sidewall samples were collected along these interior sidewalls as they should have been in order to confirm they did not need to be further extended laterally.**
- **2) FL 20 is shown on Figure 3 but data for it is missing from Table I. Update.**
- **Submit updated report addressing the reasons for rejection by 1/19/26.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 528515.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,  
Shelly Wells  
Environmental Specialist-A  
505-469-7520  
[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Ben Arguijo](#)  
**Cc:** [Conner Walker \(cwalker@mewbourne.com\)](#); [Lance Crenshaw](#); [Jeff Broom](#); [Cesar Rosendo](#)  
**Subject:** RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515  
**Date:** Wednesday, January 14, 2026 12:09:07 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)

---

Hi Ben,

All of the additional information you have provided to me below should be attached to an all inclusive remediation closure report and be resubmitted to the OCD Permitting website.

Kind regards,

Shelly

**Shelly Wells** \* Senior Environmental Scientist  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ben Arguijo <bena@etechenv.com>  
**Sent:** Thursday, January 8, 2026 9:30 PM  
**To:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Cc:** Conner Walker (cwalker@mewbourne.com) <cwalker@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>; Jeff Broom <jbroom@mewbourne.com>; Cesar Rosendo <crosendo@mewbourne.com>  
**Subject:** [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515

**CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.**

Shelly,

In regard to item 2.1 in your rejection of the closure request for the PWMS Magnum Road Riser release (nAPP2401652735, email included below this message), the depths listed in Table 1 of the report reflect the depth of the deepest composite subsample collected within the given sampling zone. I did not personally visit the site and did not draft the Sample Location Map (I only made revisions). However, based on the depths of the samples collected at the southern end of the excavation (i.e., FL 1, 2, 28, 29, and 30), the composite subsamples for FL 3, 4, 7, 8, 12, 13, 16, and 17, which were in/around the higher section of the excavation, would have been collected at depths ranging from 2 to 5 feet bgs. Subsamples in the deeper sections on the eastern side of the excavation would have been collected both along the excavation floor and along any interior walls per Etech's SOP, again with the deepest sample depth for each composite reflected in Table 1 and/or the sample name.

For the perimeter wall samples (NW1 & 2, EW1-EW4, etc.), the depths listed in Table 1 are ranges (e.g., 0-2, 0-5, etc.), as composite subsamples were collected along the walls at varying depths between ground surface and the base of the excavation in each section. The upper limits of the ranges reflect the deepest depth sampled for each composite. For example, the floor in the areas of wall samples EW 1 and WW3 ranged from 2 to 5 feet in depth, as shown in the figure below:



As for item 3.2, a field sample was collected in the area designated as FL 20 but was inadvertently not submitted for laboratory analysis. However, the field test result and the lab results for the surrounding floor samples (FL 17, 18, 19, 21, 22, and 23) and wall sample (WW3) indicate that area (yellow point marker in the figure above) was delineated both horizontally and vertically. Based on a comparison between the field test data and lab results for the surrounding confirmation samples, the concentration of chloride remaining in-situ in FL 20 is estimated to be approximately 48 mg/kg. There was no petroleum odor or staining in the field sample; therefore, TPH and BTEX are inferred to be below the respective laboratory MDLs, as with the surrounding samples.

FL 17 @ 5'	-	408
FL 18 @ 5'	-	328
FL 19 @ 5'	-	396
FL 20 @ 3'	-	408
FL 21 @ 3'	-	452
FL 22 @ 3'	-	452
FL 23 @ 3'	-	408
WW 3	-	548

FL 17 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 18 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 19 @ 5'	1/24/2024	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 21 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 23 @ 3'	1/25/2024	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

WW3	1/25/2024	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
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Sample	Cl- (Field)	Cl- (Lab)
FL 17 @ 5'	408	48.0
FL 18 @ 5'	328	160
FL 19 @ 5'	396	16.0
FL 20 @ 3'	408	N/A (~48)
FL 21 @ 3'	452	48.0
FL 22 @ 3'	452	16.0
FL 23 @ 3'	408	48.0
WW3	548	32.0

Based on the information presented above, Etech, on behalf of Mewbourne Oil Company, respectfully requests approval to cease further remediation activities at the site and asks that the NMOCD reconsider its denial of the closure request.

Thank you for your time and consideration.

Respectfully,  
Ben J. Arguijo

**Ben J. Arguijo**  
Project Manager



6309 Indiana Ave., Ste. D  
Lubbock, TX 79413  
(432) 813-1592

**From:** [Ben Arguijo](#)  
**To:** [Wells, Shelly, EMNRD](#)  
**Cc:** [Conner Walker \(cwalker@mewbourne.com\)](#); [Lance Crenshaw](#); [Jeff Broom](#); [Cesar Rosendo](#)  
**Subject:** Re: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515  
**Date:** Wednesday, January 14, 2026 12:35:49 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

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OK. Great. We will get an amended report submitted ASAP.

Thank you.

Ben

---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Wednesday, January 14, 2026 12:34 PM  
**To:** Ben Arguijo <[bena@etechenv.com](mailto:bena@etechenv.com)>  
**Cc:** Conner Walker ([cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)) <[cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)>; Lance Crenshaw <[lance@etechenv.com](mailto:lance@etechenv.com)>; Jeff Broom <[jbroom@mewbourne.com](mailto:jbroom@mewbourne.com)>; Cesar Rosendo <[crosendo@mewbourne.com](mailto:crosendo@mewbourne.com)>  
**Subject:** RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515

Ben,

Closure will be approved with the additional information you have now submitted.

**Shelly Wells** \* Senior Environmental Scientist  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ben Arguijo <[bena@etechenv.com](mailto:bena@etechenv.com)>  
**Sent:** Wednesday, January 14, 2026 11:26 AM  
**To:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Conner Walker ([cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)) <[cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)>; Lance Crenshaw <[lance@etechenv.com](mailto:lance@etechenv.com)>; Jeff Broom <[jbroom@mewbourne.com](mailto:jbroom@mewbourne.com)>; Cesar Rosendo <[crosendo@mewbourne.com](mailto:crosendo@mewbourne.com)>  
**Subject:** Re: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515

Shelly,

Can you tell me whether or not an amended closure report with the additional information will be approved? If it will not, Etech, on behalf of Mewbourne, respectfully requests a list of any additional remedial activities that will be required, as well as a short extension of the due date to allow time to complete them.

Thank you.

Respectfully,  
Ben J. Arguijo

---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Wednesday, January 14, 2026 12:09 PM

**To:** Ben Arguijo <[ben@etechnv.com](mailto:ben@etechnv.com)>

**Cc:** Conner Walker ([cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)) <[cwalker@mewbourne.com](mailto:cwalker@mewbourne.com)>; Lance Crenshaw <[lance@etechnv.com](mailto:lance@etechnv.com)>; Jeff Broom <[jbroom@mewbourne.com](mailto:jbroom@mewbourne.com)>; Cesar Rosendo <[crosendo@mewbourne.com](mailto:crosendo@mewbourne.com)>

**Subject:** RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 528515

Hi Ben,

All of the additional information you have provided to me below should be attached to an all inclusive remediation closure report and be resubmitted to the OCD Permitting website.

Kind regards,

Shelly

Shelly Wells \* Senior Environmental Scientist  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>



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Phone: (505) 476-3441

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Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 544773

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401652735
Incident Name	NAPP2401652735 PWMS MAGNUM ROAD RISER @ P-25-20S-28E
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	PWMS MAGNUM ROAD RISER
Date Release Discovered	01/07/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 144 BBL   Recovered: 130 BBL   Lost: 14 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	n/a

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QUESTIONS, Page 2

Action 544773

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 01/20/2026
--	---

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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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QUESTIONS, Page 3

Action 544773

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (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

<b>Remediation Plan</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>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	320
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	01/19/2024
On what date will (or did) the final sampling or liner inspection occur	01/29/2024
On what date will (or was) the remediation complete(d)	02/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	12270
What is the estimated volume (in cubic yards) that will be reclaimed	1587
What is the estimated surface area (in square feet) that will be remediated	12270
What is the estimated volume (in cubic yards) that will be remediated	1940
<i>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.</i>	
<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 4

Action 544773

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 01/20/2026
<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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Energy, Minerals and Natural Resources  
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1220 S. St Francis Dr.  
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QUESTIONS, Page 5

Action 544773

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
	Action Number:  544773
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 544773

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	305427
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/23/2024
What was the (estimated) number of samples that were to be gathered	75
What was the sampling surface area in square feet	9500

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	12270
What was the total volume (cubic yards) remediated	1940
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	12270
What was the total volume (in cubic yards) reclaimed	1587
Summarize any additional remediation activities not included by answers (above)	n/a

*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: Jeff Broom Title: Environmental Rep Email: jlbroom@mewbourne.com Date: 01/20/2026
--	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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1220 S. St Francis Dr.  
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QUESTIONS, Page 7  
  
Action 544773

QUESTIONS (continued)

Operator:  MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:  14744
	Action Number:  544773
	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 544773

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 544773
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/30/2026