

# Remediation Summary & Backfill Request

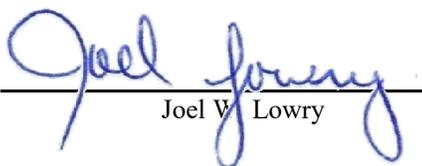
## Mewbourne Oil Company PWMS Derringer to VF Line

Eddy County, New Mexico  
Unit Letter "I", Section 25, Township 19 South, Range 28 East  
Latitude 32.628615 North, Longitude 104.122338 West  
NMOCD Reference No. nAPP2134428244

Prepared By:

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Remediation Summary & Backfill Request* for the release site known as the PWMS Derringer to VF Line (henceforth, "PWMS Derringer"). The legal description of the site is Unit Letter "I" (NE/SE), Section 25, Township 19 South, Range 28 East, in Eddy County, New Mexico. The property affected by the release is owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the point of release are 32.628615° North latitude and 104.122338° West longitude. A topographic map of the area is provided as Figure 1.

On November 29, 2021, Mewbourne discovered a produced water release from a newly installed four-inch (4") poly line. Immediately upon discovery, the line was shut down, the pipeline was repaired, and a vacuum truck was dispatched to the site to recover any free-standing liquid. Approximately 100 barrels (bbls) of produced water were recovered during initial response activities. The total volume of the release was not able to be determined.

The release affected an area of pasture/rangeland measuring approximately 70,174 square feet. General photographs of the release are provided in Appendix C.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the PWMS Derringer release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on December 10, 2021, an investigative soil boring/temporary monitor well was drilled at the site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 55 feet below ground surface (bgs) and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or during a well gauging event conducted on December 13, 2021. The location of the investigative soil boring/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix B.

New Mexico Oil Conservation Division (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, 2, 4, and 5.

### Site Characterization

|   | >55'                         |  |
|---|------------------------------|--|
| What is the shallowest depth to groundwater beneath the area affected by the release?   |                              |  |
| Did the release impact groundwater or surface water?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

**Site Characterization (cont.)**

|   |   |  |
|---|---|--|
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production or storage site?  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |

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

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the PWMS Derringer release site are as follows:

| Probable Depth to Groundwater | Constituent  | Laboratory Analytical Method      | Closure Criteria*† | Reclamation Standard*‡ |
|-------------------------------|--|-----------------------------------|--------------------|------------------------|
| >55'                          | Chloride (Cl-)   | EPA 300.0 or SM4500 Cl B          | 600                | 600                    |
|                               | Total Petroleum Hydrocarbons (TPH)                     | EPA SW-846 Method 8015M Ext       | 100                | 100                    |
|                               | Gas Range Organics + Diesel Range Organics (GRO + DRO) | EPA SW-846 Method 8015M           | 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)

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

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

**4.0 INITIAL SITE ASSESSMENT**

On December 9 and 10, 2021, an initial site assessment was conducted by a third-party environmental contractor that is no longer affiliated with the site. During the initial site assessment, a series of 27 soil bores and/or test trenches (PD-1 through PD-27) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, four (4) hand-augered soil bores (Background-N, Background-E, Background-S, and Background-W) were advanced in unaffected areas around the release site in order to assess the background concentrations of contaminants of concern. During the advancement of the soil bores/test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 61 delineation soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and/or chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately four (4) feet bgs in the areas characterized by sample points PD-3, PD-22, PD-23, PD-24, and PD-25 to 50 feet bgs in the areas characterized by sample points PD-10, PD-13, PD-14, PD-17, and PD-20.

The locations of the soil bores and test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix E.

On December 13, 2021, Mewbourne contracted Etech to assume remediation activities for the release.

## 5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Mewbourne proposed the following remediation activities designed to advance the PWMS Derringer release site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the inferred release margins (approximately 70,174 square feet) to a total depth of four (4) feet bgs.
- Advance the sidewalls of the excavated area until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria and NMOCD Reclamation Standards.
- Transport excavated soil to an NMOCD-permitted surface waste facility for disposal.
- Upon completion of excavation activities, collect representative composite confirmation soil samples from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. Collect additional, discrete samples as necessary from wet or visibly stained areas inferred to have been affected by the release.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, install a 20-mil, string-reinforced, polyurethane liner on the floor of the excavated area in the areas characterized by sample points PD-1, PD-2, PD-4 through PD-21, PD-26, and PD-27.
- Following installation of the 20-mil liner, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

## 6.0 REGULATORY APPROVALS & STIPULATIONS

In January 2022, a *Site Assessment Report & Proposed Remediation Workplan* was submitted to the NMOCD proposing the aforementioned remediation activities designed to advance the release site toward regulatory closure. In addition, due to safety and environmental concerns, Mewbourne requested a variance to Section 19.15.29.12.C(3) NMAC to leave chloride contamination beyond four (4) bgs in-situ in the areas characterized by sample points PD-1, PD-2, PD-4 through PD-21, PD-26, and PD-27. Permission was also requested to install a 20-mil, string-reinforced, polyurethane liner on the floor of the proposed excavation, atop the affected soil.

Please reference the *Site Assessment Report & Proposed Remediation Workplan* (henceforth, "Workplan") for additional details regarding site characterization and proposed remediation activities.

On February 28, 2022, the Workplan was denied by the NMOCD, citing a "lack of sufficient characterization data at depth to provide proof of environmental safety."

On March 3, 2022, representatives of Mewbourne met with representatives of the NMOCD Artesia District Office to discuss the site and determine a path forward to an approved closure. Mewbourne proposed to advance three (3) soil borings in representative areas of the excavation in order to sufficiently characterize the impacted soil to remain in-situ and to demonstrate that vertical delineation had been achieved. The proposal was approved by the NMOCD.

## 7.0 REMEDIATION ACTIVITIES SUMMARY

On January 14, 2022, remediation activities commenced at the release site. In accordance with the Workplan, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to approximately four (4) feet bgs and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. A Hach Quantab ® chloride test kit and/or olfactory/visual senses and/or were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

On January 26, 2022, Etech collected eight (8) confirmation soil samples (NW #1, NW #2, NW #3, EW #1, EW #2, WW #1, WW #2, and WW #3) from the sidewalls 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. TPH and BTEX concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 16.0 mg/kg in soil sample NW #2 to 416 mg/kg in soil sample WW #1.

On February 1, 2022, Etech collected nine (9) confirmation soil samples (EW #3, EW #4, EW #5, SW #1, SW #2, SW #3, SW #4, WW #4, and WW #5) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. TPH and BTEX concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW #4, EW #5, and SW #3 to 112 mg/kg in soil sample SW #1.

On February 4, 2022, Etech collected seven (7) confirmation soil samples (NW #4, NW #5, EW #6, EW #7, WW #6, WW #8, and WW #9) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW #7 to 288 mg/kg in soil sample WW #6.

On February 11, 2022, Etech collected three (3) confirmation soil samples (SW #7, SW #8, and WW #8) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64 mg/kg in soil sample SW #8 to 112 mg/kg in soil sample WW #8.

On February 14, 2022, Etech collected six (6) confirmation soil samples (EW #8, EW #9, SW #5, SW #6, WW #7, and WW #10) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample WW #10 to 128 mg/kg in soil sample EW #8.

On February 15, 2022, in accordance with the Workplan, upon receiving laboratory analytical results from confirmation soil samples, a 20-mil, string-reinforced, polyurethane liner was installed on the floor of the excavation atop impacted soil affected above the NMOCD Closure Criteria in the areas characterized by PD-1 through PD-27. The liner was sloped to facilitate shedding of moisture outside the footprint of the excavation and the maximum horizontal extent of in-situ impacted soil. Prior to installation of the liner, an approximate 6-inch layer of pad material was installed below the liner in an effort to maintain its integrity during future backfilling activities.

On March 10, 2022, in accordance with the NMOCD, an auger truck was utilized to advance three (3) boreholes (B.H. #1, B.H. #2, and B.H. #3) in the floor of the excavation in an effort to better characterize affected soil in areas representative of each section of the excavation, as well as the deepest zones of contamination. Borehole B.H. #1 was advanced in the southern portion of the excavation (the secondary pooling area of the release), in the area characterized by sample points PD-26 and PD-27. Borehole B.H. #2 was advanced in the northern portion of the main excavation (the primary pooling area of the release), in the area characterized by sample points PD-1 through PD-9. Borehole B.H. #3 was advanced in the southern portion of the main excavation, in the area characterized by sample points PD-10 through PD-21.

During the advancement of the boreholes, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, a total of 22 delineation soil samples (B.H. #1 @ 5' through B.H. #1 @ 30', B.H. #2 @ 5' through B.H. #2 @ 45', and B.H. #3 @ 5' through B.H. #3 @ 35') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample B.H. #1 @ 15', which exhibited a TPH concentration of 143 mg/kg. BTEX concentrations were also below the laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil sample B.H. #1 @ 30' to 10,200 mg/kg in soil sample B.H. #2 @ 5'. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately characterized.

The locations of the boreholes are depicted in Figure 3, "Site & Sample Location Map". Drilling logs are provided in Appendix B.

On March 17, 2022, the damaged sections of liner around boreholes B.H. #1, B.H. #2, and B.H. #3 were replaced to ensure the structural integrity and impermeability of the liner were restored.

The dimensions of the excavated area are approximately 300 to 551 feet in length, 20 to 273 feet in width, and four (4) feet in depth. To date, Etech has transported approximately 16,536 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal.

The locations of the boreholes and confirmation soil samples, as well as the extents of the excavated area and liner, are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix E.

## **8.0 BACKFILL REQUEST**

Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated to the extent practicable due to safety and environmental concerns. All excavated soil was transported to an NMOCD-permitted facility for disposal. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX and TPH are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

A 20-mil, string-reinforced, polyurethane liner was installed on the floor of the excavation in the areas characterized by sample points PD-1 through PD-27. This engineered control is designed to inhibit the vertical migration of chloride contamination remaining in-situ.

Etech utilized the Environmental Protection Agency's (EPA) Multimedia Exposure Assessment Model (MULTIMED) to determine if the contamination remaining in-situ under the liner poses a threat to groundwater quality. In addition to the synthetic liner, the MULTIMED assessment accounted for naturally occurring layers of clay and sandy clay that were encountered at various depths during the advancement of soil boring SB-1 and boreholes B.H. #1, B.H. #2, and B.H. #3 (see drilling logs in Appendix B). Using the most appropriate parameters for the site in regard to depth to groundwater (56 feet bgs), porosity of the various soil types, etc., the model indicates that the peak concentration of chloride in the underlying groundwater contributed by the contamination remaining in-situ would be approximately 241 mg/L in 301 years, versus 2,211 mg/L in 85.2 years if the excavation was not lined (see Appendix D).

Since the estimated peak chloride concentration in the underlying groundwater is below the standard of 250.0 mg/L specified in Section 20.6.2.3103 B.(1) NMAC, the MULTIMED model effectively demonstrates that leaving the chloride contamination in-situ "does not cause an imminent risk to human health, the environment, or ground water", pursuant to Section 19.15.29.12.C(2) NMAC.

Based on the information summarized above, Mewbourne hereby requests permission to cease remediation activities at the PWMS Derringer release site and to backfill the excavation.

Following backfilling, a *Remediation Summary & Soil Closure Request* will be submitted, documenting completed restoration, reclamation, and revegetation activities.

## **9.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

## **10.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Backfill Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference 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.

## **11.0 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*

***Hobbs Field Office***

*New Mexico State Land Office*

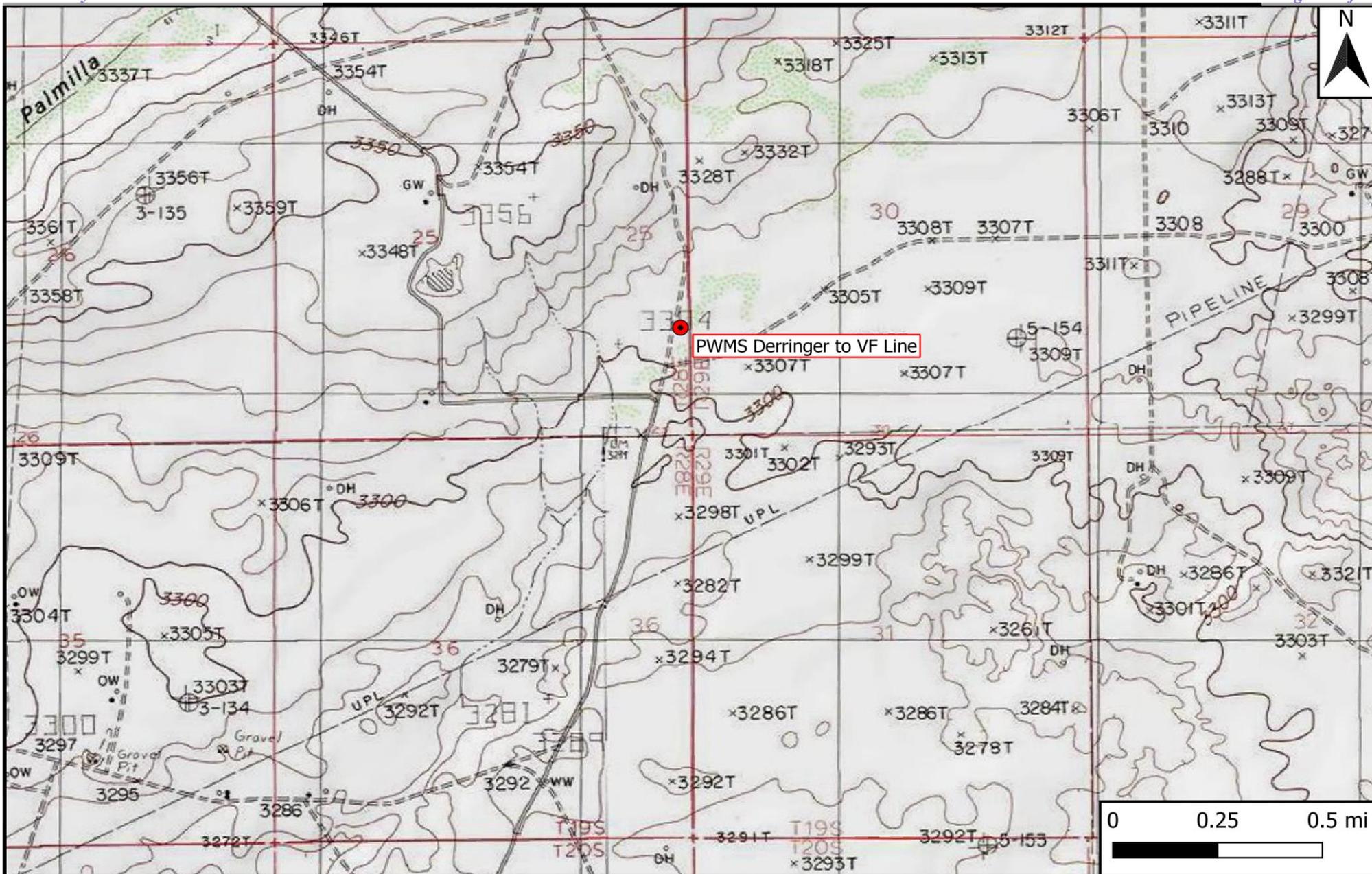
*2827 North Dal Paso Street*

*Suite 117*

*Hobbs, NM 88240*

*(Electronic Submission)*

# Figure 1 Topographic Map



**Legend**

- Site Location

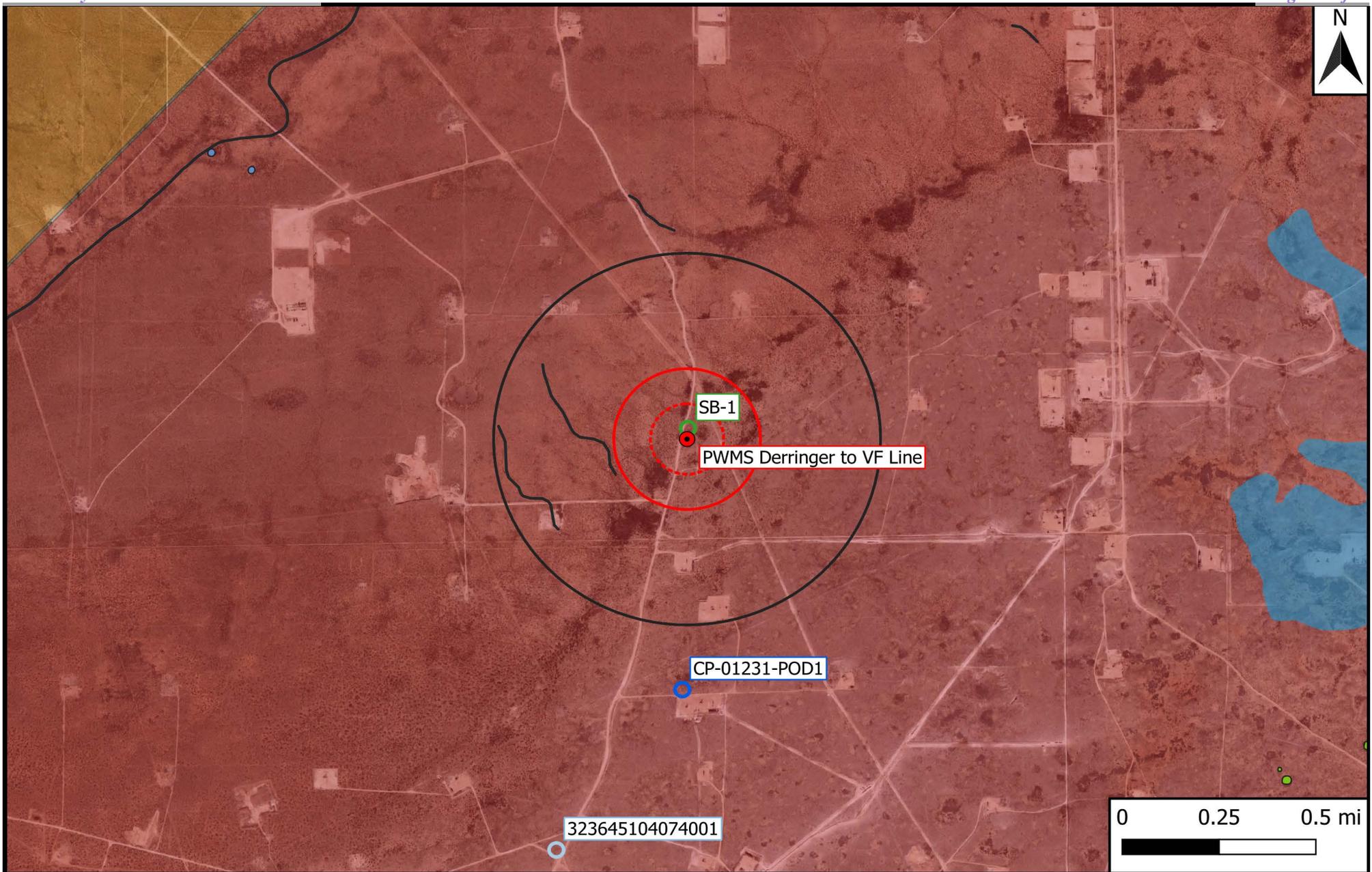
**Figure 1**  
 Topographic Map  
 Mewbourne Oil Company  
 PWMS Derringer to VF Line  
 GPS: 32.628615, -104.122338  
 Eddy County

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

Drafted: bja    Checked: jwl    Date: 12/13/21

## **Figure 2**

### **Aerial Proximity Map**



| Legend                       |                              |                   |
|------------------------------|------------------------------|-------------------|
| ● Site Location              | ■ 1% Annual Flood Chance     | ⊘ 500-Ft Radius   |
| ● Well - NMOSE               | ■ Emergent/Forested Wetlands | ⊘ 1,000-Ft Radius |
| ○ Well - USGS                | ■ Freshwater Pond/Lake       | ⊘ 0.5-Mi Radius   |
| ○ Well - Exploratory/Monitor | ■ Medium/High Karst          |                   |
| — Potash Mine Workings       | ■ Riverline                  |                   |

**Figure 2**  
 Aerial Proximity Map  
 Mewbourne Oil Company  
 PWMS Derringer to VF Line  
 GPS: 32.628615, -104.122261  
 Eddy County


  
**Environmental & Safety Solutions, Inc.**

Drafted: bja      Checked: jwl      Date: 3/17/22

## **Figure 3**

### **Site & Sample Location Map**



| Legend |                             |
|--------|-----------------------------|
|        | Lined Excavation (4' bgs)   |
|        | Auger Hole                  |
|        | Composite Wall Sample       |
|        | Background Sample Location  |
|        | Delineation Sample Location |
|        | Exploratory Borehole        |

Figure 3  
 Site & Sample Location Map  
 Mewbourne Oil Company  
 PWMS Derringer to VF Line  
 GPS: 32.628615,-104.122338 West  
 Eddy County, NM



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



Drafted: BJA | Checked: JWJ | Date: 3/21/2022

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

| <b>Table 1</b><br><b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b><br><b>Mewbourne Oil Company</b><br><b>PWMS Derringer to VF Line</b><br><b>NMOCD Ref. #: nAPP2134428244</b> |            |              |             |                 |              |   |  |   |  |   |                  |
|--|------------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Closure Criteria   |            |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| NMOCD Reclamation Standard   |            |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| Sample ID  | Date       | Depth (Feet) | Soil Status | SW 846 8021B    |              | SW 846 8015M Ext.                           |  |   |  |   | 4500 Cl          |
|  |            |              |             | Benzene (mg/kg) | BTEX (mg/kg) | GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg) | DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg) | GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg) | ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg) | TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg) | Chloride (mg/kg) |
| <b>Delineation Samples</b>   |            |              |             |                 |              |   |  |   |  |   |                  |
| PD-1 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,680</b>     |
| PD-1 Vertical @ 45'  | 12/10/2021 | 45           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 16.0             |
| PD-2 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,200</b>     |
| PD-2 Vertical @ 40'  | 12/10/2021 | 40           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 0.00             |
| PD-3 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 48.0             |
| PD-4 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>6,320</b>     |
| PD-4 Vertical @ 40'  | 12/10/2021 | 40           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-5 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,200</b>     |
| PD-5 Vertical @ 25'  | 12/10/2021 | 25           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-6 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,120</b>     |
| PD-6 Vertical @ 20'  | 12/10/2021 | 20           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 160              |
| PD-7 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | 47.7   | 47.7  | <10.0  | 47.7  | <b>4,820</b>     |
| PD-7 Vertical @ 40'  | 12/10/2021 | 20           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 496              |
| PD-8 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,440</b>     |
| PD-8 Vertical @ 25'  | 12/10/2021 | 25           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-9 Vertical @ 4'   | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>6,080</b>     |
| PD-9 Vertical @ 25'  | 12/10/2021 | 25           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-10 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>6,560</b>     |
| PD-10 Vertical @ 50'   | 12/10/2021 | 50           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-11 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>3,400</b>     |
| PD-11 Vertical @ 25'   | 12/10/2021 | 25           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 192              |
| PD-12 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,680</b>     |
| PD-12 Vertical @ 25'   | 12/10/2021 | 25           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 208              |
| PD-13 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>4,800</b>     |
| PD-13 Vertical @ 50'   | 12/10/2021 | 50           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 48.0             |
| PD-14 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>4,800</b>     |
| PD-14 Vertical @ 50'   | 12/10/2021 | 50           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 16.0             |
| PD-15 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>800</b>       |
| PD-15 Vertical @ 30'   | 12/10/2021 | 30           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 208              |
| PD-16 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>2,880</b>     |
| PD-16 Vertical @ 16'   | 12/10/2021 | 16           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 192              |
| PD-17 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | 13.8   | 13.8  | <10.0  | 13.8  | <b>3,160</b>     |
| PD-17 Vertical @ 50'   | 12/10/2021 | 50           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 16.0             |
| PD-18 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>6,400</b>     |
| PD-18 Vertical @ 40'   | 12/10/2021 | 40           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 48.0             |
| PD-19 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>5,200</b>     |
| PD-19 Vertical @ 35'   | 12/10/2021 | 35           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 176              |
| PD-20 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | <b>3,800</b>     |
| PD-20 Vertical @ 50'   | 12/10/2021 | 50           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 32.0             |
| PD-21 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | 20.6   | 20.6  | <10.0  | 20.6  | <b>3,760</b>     |

Dash (-): Not applicable OR sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.

**Red:** NMOCD Reclamation Standard exceedance.

| <b>Table 1</b><br><b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b><br><b>Mewbourne Oil Company</b><br><b>PWMS Derringer to VF Line</b><br><b>NMOCD Ref. #: nAPP2134428244</b> |            |              |             |                 |              |   |  |   |  |   |                  |
|--|------------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Closure Criteria   |            |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| NMOCD Reclamation Standard   |            |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| Sample ID  | Date       | Depth (Feet) | Soil Status | SW 846 8021B    |              | SW 846 8015M Ext.                           |  |   |  |   | 4500 Cl          |
|  |            |              |             | Benzene (mg/kg) | BTEX (mg/kg) | GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg) | DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg) | GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg) | ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg) | TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg) | Chloride (mg/kg) |
| PD-21 Vertical @ 30'   | 12/10/2021 | 30           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 192              |
| PD-22 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 32.0             |
| PD-23 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 752              |
| PD-24 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 0.00             |
| PD-25 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 32.0             |
| PD-26 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 5,440            |
| PD-26 Vertical @ 20'   | 12/10/2021 | 20           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 0.00             |
| PD-27 Vertical @ 4'  | 12/9/2021  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <10.0   | <10.0  | <10.0                                       | 3,600            |
| PD-27 Vertical @ 30'   | 12/10/2021 | 30           | In-Situ     | -               | -            | -   | -  | -   | -  | -   | 0.00             |
| B.H. #1 @ 5'   | 3/10/2022  | 5            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 4,480            |
| B.H. #1 @ 10'  | 3/10/2022  | 10           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 4,960            |
| B.H. #1 @ 15'  | 3/10/2022  | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | 143  | 143   | <10.0  | 143   | 4,000            |
| B.H. #1 @ 20'  | 3/10/2022  | 20           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 3,160            |
| B.H. #1 @ 25'  | 3/10/2022  | 25           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 1,060            |
| B.H. #1 @ 30'  | 3/10/2022  | 30           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| B.H. #2 @ 5'   | 3/10/2022  | 5            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 10,200           |
| B.H. #2 @ 10'  | 3/10/2022  | 10           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 3,440            |
| B.H. #2 @ 15'  | 3/10/2022  | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 8,530            |
| B.H. #2 @ 20'  | 3/10/2022  | 20           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 7,730            |
| B.H. #2 @ 25'  | 3/10/2022  | 25           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 5,120            |
| B.H. #2 @ 30'  | 3/10/2022  | 30           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 2,480            |
| B.H. #2 @ 35'  | 3/10/2022  | 35           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 496              |
| B.H. #2 @ 40'  | 3/10/2022  | 40           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 160              |
| B.H. #2 @ 45'  | 3/10/2022  | 45           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 128              |
| B.H. #3 @ 5'   | 3/10/2022  | 5            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 6,240            |
| B.H. #3 @ 10'  | 3/10/2022  | 10           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 2,160            |
| B.H. #3 @ 15'  | 3/10/2022  | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 2,400            |
| B.H. #3 @ 20'  | 3/10/2022  | 20           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 240              |
| B.H. #3 @ 25'  | 3/10/2022  | 25           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 560              |
| B.H. #3 @ 30'  | 3/10/2022  | 30           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 256              |
| B.H. #3 @ 35'  | 3/10/2022  | 35           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 288              |
| Excavation Samples   |            |              |             |                 |              |   |  |   |  |   |                  |
| NW #1  | 1/26/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 48.0             |
| NW #2  | 1/26/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| NW #3  | 1/26/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| NW #4  | 2/4/2022   | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| NW #5  | 2/4/2022   | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 96.0             |
| EW #1  | 1/26/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| EW #2  | 1/26/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| EW #3  | 2/1/2022   | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| EW #4  | 2/1/2022   | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |

Dash (-): Not applicable OR sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.

**Red:** NMOCD Reclamation Standard exceedance.

| Table 1<br>Concentrations of BTEX, TPH & Chloride in Soil<br>Mewbourne Oil Company<br>PWMS Derringer to VF Line<br>NMOCD Ref. #: nAPP2134428244 |           |              |             |                 |              |   |  |   |  |   |                  |
|---|-----------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Closure Criteria  |           |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| NMOCD Reclamation Standard  |           |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| Sample ID   | Date      | Depth (Feet) | Soil Status | SW 846 8021B    |              | SW 846 8015M Ext.                           |  |   |  |   | 4500 Cl          |
|   |           |              |             | Benzene (mg/kg) | BTEX (mg/kg) | GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg) | DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg) | GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg) | ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg) | TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg) | Chloride (mg/kg) |
| EW #5   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| EW #6   | 2/4/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 224              |
| EW #7   | 2/4/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| EW #8   | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 128              |
| EW #9   | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SW #1   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 112              |
| SW #2   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| SW #3   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| SW #4   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| SW #5   | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| SW #6   | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 112              |
| SW #7   | 2/11/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| SW #8   | 2/11/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| WW #1   | 1/26/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 416              |
| WW #2   | 1/26/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 96.0             |
| WW #3   | 1/26/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 128              |
| WW #4   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| WW #5   | 2/1/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 48.0             |
| WW #6   | 2/4/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 288              |
| WW #7   | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| WW #8   | 2/4/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| WW #9   | 2/4/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| WW #10  | 2/14/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| WW #11  | 2/11/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 112              |

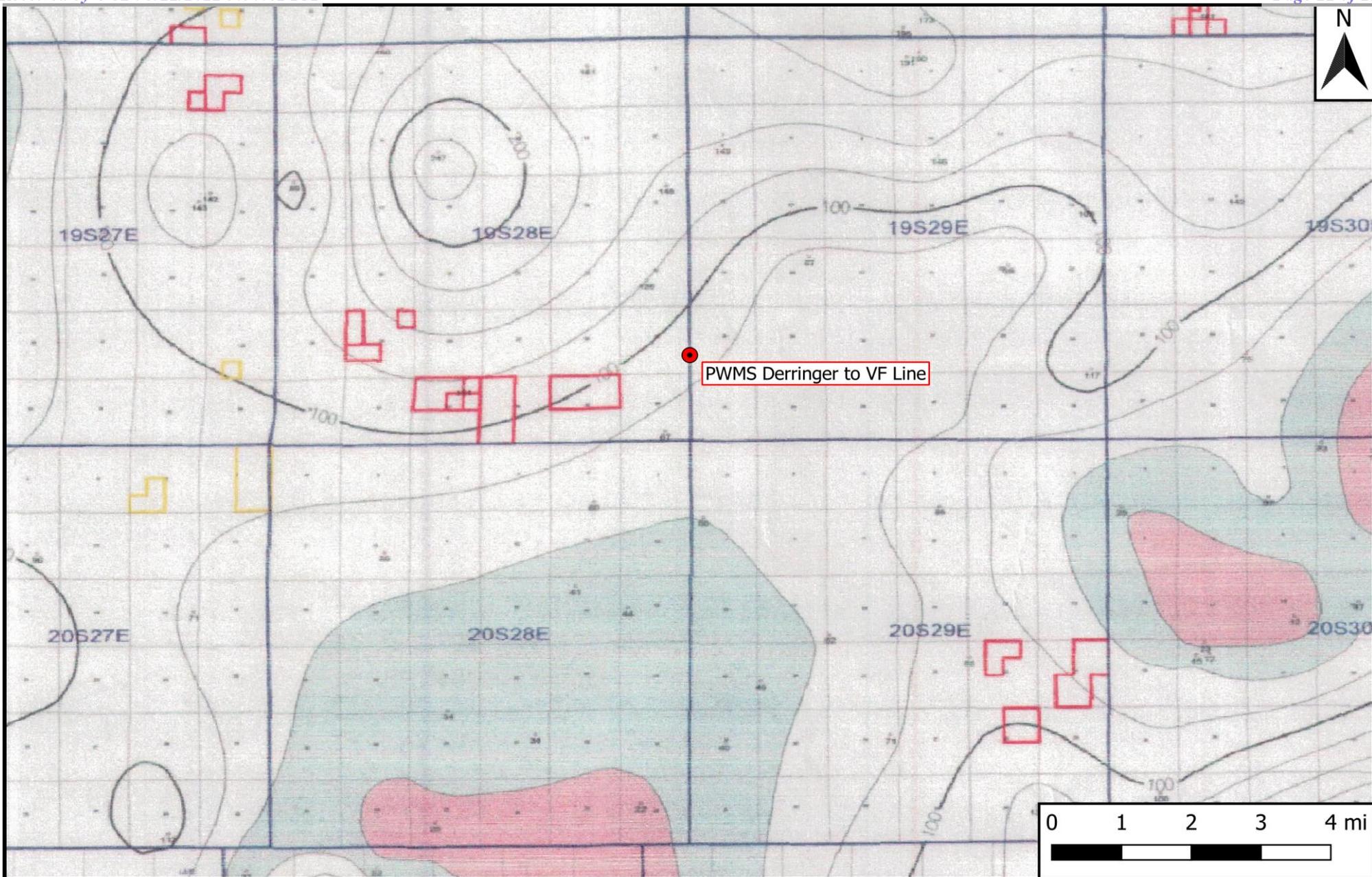
Dash (-): Not applicable OR sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

# **Appendix A**

## **Depth to Groundwater Information**



Legend  
 ● Site Location

**Figure 4**  
 Inferred Depth to Groundwater Trend Map  
 Mewbourne Oil Company  
 PWMS Derringer to VF Line  
 GPS: 32.628615, -104.122338  
 Eddy County



Drafted: bja    Checked: jwl    Date: 12/13/21



# 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 1 | Q 2 | Q 3 | Q 4 | Sec | Tws | Rng | X      | Y       | Distance | Well Depth | Average Depth to Water | Water Column |
|-------------------------------|------|---------------|--------|-----|-----|-----|-----|-----|-----|-----|--------|---------|----------|------------|------------------------|--------------|
| <a href="#">CP 01231 POD1</a> |      | CP            | ED     | 4   | 4   | 2   | 36  | 19S | 28E |     | 582311 | 3609372 | 1084     | 300        | 75                     | 225          |

Average Depth to Water: 75 feet

Minimum Depth: 75 feet

Maximum Depth: 75 feet

**Record Count:** 1

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

**Easting (X):** 582330.64

**Northing (Y):** 3610456.4

**Radius:** 1610

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12/20/21 12:04 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) |                       |          |  |  |  |  |  |
| <b>Well Tag</b> | <b>POD Number</b> |                                    |                       |          |  |  |  |  |  |
|                 | CP 01231 POD1     |                                    |                       |          |  |  |  |  |  |
|                 |                   | (quarters are smallest to largest) | (NAD83 UTM in meters) |          |  |  |  |  |  |
|                 |                   | <b>Q64 Q16 Q4 Sec TwS Rng</b>      | <b>X</b>              | <b>Y</b> |  |  |  |  |  |
|                 |                   | 4 4 2 36 19S 28E                   | 582311                | 3609372  |  |  |  |  |  |

|                                     |  |                                |
|-------------------------------------|--|--------------------------------|
| <b>Driller License:</b> 1654        | <b>Driller Company:</b> NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC |                                |
| <b>Driller Name:</b>                |  |                                |
| <b>Drill Start Date:</b> 10/21/2013 | <b>Drill Finish Date:</b> 10/21/2013                                       | <b>Plug Date:</b>              |
| <b>Log File Date:</b> 10/29/2013    | <b>PCW Rev Date:</b>   | <b>Source:</b> Shallow         |
| <b>Pump Type:</b>                   | <b>Pipe Discharge Size:</b>  | <b>Estimated Yield:</b> 80 GPM |
| <b>Casing Size:</b> 8.00            | <b>Depth Well:</b> 300 feet  | <b>Depth Water:</b> 75 feet    |

| Water Bearing Stratifications: | Top | Bottom | Description              |
|--------------------------------|-----|--------|--------------------------|
|                                | 200 | 300    | Limestone/Dolomite/Chalk |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 220 | 300    |

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.

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POINT OF DIVERSION SUMMARY



- Legend**
- Site Location
  - Well - USGS
  - 1,000-Ft Radius
  - 0.5-Mi Radius

**Figure 5**  
 USGS Well Proximity Map  
 Mewbourne Oil Company  
 PWMS Derringer to VF Line  
 GPS: 32.628615, -104.122338



Drafted: bja      Checked: jwl      Date: 12/13/21



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Agency code = usgs

site\_no list =  
 • 323645104074001

Minimum number of levels = 1

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

**USGS 323645104074001 19S.28E.36.43233**

Eddy County, New Mexico

Latitude 32°36'45", Longitude 104°07'40" NAD27

Land-surface elevation 3,292 feet above NAVD88

The depth of the well is 87 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**

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source of measurement | ?<br>Water-level approval status |
|------------|------|-------------------------------------|---------------------|--------------------------------------|---|---------------------------|-------------|----------------------------|-----------------------|----------------------------|----------------------------------|
|            |      |                                     | 72019               |                                      |   |                           |             |                            |                       |                            |                                  |
| 1965-12-07 |      |                                     | D 72019             | 69.03                                |   |                           | 1           | Z                          |                       |                            | A                                |
| 1968-04-02 |      |                                     | D 72019             | 68.51                                |   |                           | 1           | Z                          |                       |                            | A                                |
| 1971-02-01 |      |                                     | D 72019             | 71.75                                |   |                           | 1           | Z                          |                       |                            | A                                |
| 1976-12-09 |      |                                     | D 72019             | 67.29                                |   |                           | 1           | Z                          |                       |                            | A                                |
| 1983-02-16 |      |                                     | D 72019             | 67.18                                |   |                           | 1           | Z                          |                       |                            | A                                |
| 1986-06-03 |      |                                     | D 72019             | 72.85                                |   |                           | 1           | S                          |                       |                            | A                                |

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source of measurement | ?<br>Water-level approval status |
|------------|------|-------------------------------------|---------------------|--------------------------------------|---|---------------------------|-------------|----------------------------|-----------------------|----------------------------|----------------------------------|
| 1994-03-04 |      |                                     | 72019               |                                      |   |                           |             |                            |                       |                            |                                  |
| 1994-03-04 |      |                                     | D 72019             | 66.68                                |   |                           | 1           | S                          |                       |                            | A                                |
| 1999-01-19 |      |                                     | D 72019             | 66.65                                |   |                           | 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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0.37 0.32 nadww02





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**Search Results -- 1 sites found**

Agency code = usgs

site\_no list =  
 • 323845104075601

Minimum number of levels = 1

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**USGS 323845104075601 19S.28E.24.32233**

Eddy County, New Mexico

Latitude 32°38'45", Longitude 104°07'56" NAD27

Land-surface elevation 3,352 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**

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-<br>level<br>approval<br>status |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|--|
|            |      |   | 72019                  |   |   |                                 |             |                               |                          |                               |  |
| 1965-11-03 |      |   | D 72019                | 128.04  |   |                                 | 1           | Z                             |                          |                               | A  |
| 1968-04-02 |      |   | D 72019                | 128.15  |   |                                 | 1           | Z                             |                          |                               | A  |
| 1971-02-01 |      |   | D 72019                | 130.10  |   |                                 | 3           | Z                             |                          |                               | A  |
| 1976-12-07 |      |   | D 72019                | 126.36  |   |                                 | 1           | Z                             |                          |                               | A  |
| 1983-02-16 |      |   | D 72019                | 125.48  |   |                                 | 1           | Z                             |                          |                               | A  |
| 1986-06-03 |      |   | D 72019                | 125.43  |   |                                 | 1           | S                             |                          |                               | A  |
| 1994-03-04 |      |   | D 72019                | 124.82  |   |                                 | 1           | S                             |                          |                               | A  |

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source of measurement | ?<br>Water-level approval status |   |
|------------|------|-------------------------------------|---------------------|--------------------------------------|---|---------------------------|-------------|----------------------------|-----------------------|----------------------------|----------------------------------|---|
| 1999-01-19 |      |                                     | 72019               |                                      | 124.69  |                           |             | 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                         | 3      | True value is above reported value due to local conditions   |
| 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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0.3 0.24 nadww01

# **Appendix B**

## **Field Data & Soil Profile Logs**



## Field Samples\*

Date: 12/8 - 12/10/2021

Project: PWMS Derringer to VF Line

Project Number: 15345 Latitude: 32.628615 Longitude: -104.122338

| Sample ID  | PID/Odor | Chloride Conc. | GPS |
|------------|----------|----------------|-----|
| PD-1 @ 1'  | None     | 4,799          |     |
| PD-1 @ 2'  | None     | 6,298          |     |
| PD-1 @ 3'  | None     | 4,199          |     |
| PD-1 @ 4'  | None     | 6,148          |     |
| PD-1 @ 6'  | None     | 5,698          |     |
| PD-1 @ 8'  | None     | 5,398          |     |
| PD-1 @ 10' | None     | 7,498          |     |
| PD-1 @ 20' | None     | 1,972          |     |
| PD-1 @ 25' | None     | 2,524          |     |
| PD-1 @ 30' | None     | 1,492          |     |
| PD-1 @ 35' | None     | 2,524          |     |
| PD-1 @ 40' | None     | 1,859          |     |
| PD-1 @ 45' | None     | 300            |     |
| PD-2 @ 1'  | None     | 5,698          |     |
| PD-2 @ 2'  | None     | 4,948          |     |
| PD-2 @ 3'  | None     | 4,799          |     |
| PD-2 @ 4'  | None     | 4,499          |     |
| PD-2 @ 6'  | None     | 7,498          |     |
| PD-2 @ 8'  | None     | 6,298          |     |
| PD-2 @ 10' | None     | 7,498          |     |
| PD-2 @ 20' | None     | 2,524          |     |
| PD-2 @ 25' | None     | 1,972          |     |
| PD-2 @ 30' | None     | 1,600          |     |
| PD-2 @ 35' | None     | 904            |     |
| PD-2 @ 40' | None     | 300            |     |
| PD-3 @ 4'  | None     | 300            |     |
| PD-4 @ 1'  | None     | 7,198          |     |
| PD-4 @ 2'  | None     | 6,448          |     |
| PD-4 @ 3'  | None     | 6,748          |     |
| PD-4 @ 4'  | None     | 6,748          |     |
| PD-4 @ 6'  | None     | 6,598          |     |
| PD-4 @ 8'  | None     | 5,998          |     |
| PD-4 @ 10' | None     | 1,799          |     |
| PD-4 @ 20' | None     | 1,972          |     |
| PD-4 @ 25' | None     | 1,840          |     |
| PD-4 @ 30' | None     | 1,128          |     |
| PD-4 @ 35' | None     | 776            |     |
| PD-4 @ 40' | None     | 300            |     |

\*Samples collected and field-screened by a third-party contractor that is no longer affiliated with the site.



## Field Samples\*

Date: 12/8 - 12/10/2021

Project: PWMS Derringer to VF Line

Project Number: 15345 Latitude: 32.628615 Longitude: -104.122338

| Sample ID   | PID/Odor | Chloride Conc. | GPS |
|-------------|----------|----------------|-----|
| PD-5 @ 1'   | None     | 6,298          |     |
| PD-5 @ 2'   | None     | 5,998          |     |
| PD-5 @ 3'   | None     | 6,598          |     |
| PD-5 @ 4'   | None     | 6,898          |     |
| PD-5 @ 6'   | None     | 7,198          |     |
| PD-5 @ 8'   | None     | 7,498          |     |
| PD-5 @ 10'  | None     | 6,448          |     |
| PD-5 @ 20'  | None     | 1,200          |     |
| PD-5 @ 25'  | None     | 300            |     |
| PD-6 @ 1'   | None     | 7,498          |     |
| PD-6 @ 2'   | None     | 7,198          |     |
| PD-6 @ 3'   | None     | 7,498          |     |
| PD-6 @ 4'   | None     | 6,448          |     |
| PD-6 @ 8'   | None     | 2,280          |     |
| PD-6 @ 10'  | None     | 712            |     |
| PD-6 @ 14'  | None     | 840            |     |
| PD-6 @ 20'  | None     | 300            |     |
| PD-7 @ 4'   | None     | 6,298          |     |
| PD-7 @ 10'  | None     | 6,748          |     |
| PD-7 @ 20'  | None     | 7,648          |     |
| PD-7 @ 25'  | None     | 3,749          |     |
| PD-7 @ 30'  | None     | 5,098          |     |
| PD-7 @ 35'  | None     | 1,200          |     |
| PD-7 @ 40'  | None     | 300            |     |
| PD-8 @ 4'   | None     | 13,852         |     |
| PD-8 @ 8'   | None     | 4,144          |     |
| PD-8 @ 10'  | None     | 4,856          |     |
| PD-8 @ 20'  | None     | 1,799          |     |
| PD-8 @ 25'  | None     | 300            |     |
| PD-9 @ 4'   | None     | 2,720          |     |
| PD-9 @ 8'   | None     | 1,676          |     |
| PD-9 @ 20'  | None     | 14,995         |     |
| PD-9 @ 25'  | None     | 300            |     |
| PD-10 @ 4'  | None     | 13,852         |     |
| PD-10 @ 8'  | None     | 4,856          |     |
| PD-10 @ 12' | None     | 2,524          |     |
| PD-10 @ 14' | None     | 1,600          |     |
| PD-10 @ 20' | None     | 3,899          |     |

\*Samples collected and field-screened by a third-party contractor that is no longer affiliated with the site.



## Field Samples\*

Date: 12/8 - 12/10/2021

Project: PWMS Derringer to VF Line

Project Number: 15345 Latitude: 32.628615 Longitude: -104.122338

| Sample ID   | PID/Odor | Chloride Conc. | GPS |
|-------------|----------|----------------|-----|
| PD-10 @ 25' | None     | 5,698          |     |
| PD-10 @ 30' | None     | 1,050          |     |
| PD-10 @ 35' | None     | 1,050          |     |
| PD-10 @ 40' | None     | 1,050          |     |
| PD-10 @ 45' | None     | 750            |     |
| PD-10 @ 50' | None     | 300            |     |
| PD-11 @ 4'  | None     | 9,990          |     |
| PD-11 @ 8'  | None     | 976            |     |
| PD-11 @ 20' | None     | 1,200          |     |
| PD-11 @ 25' | None     | 300            |     |
| PD-12 @ 4'  | None     | 6,128          |     |
| PD-12 @ 8'  | None     | 6,128          |     |
| PD-12 @ 10' | None     | 6,128          |     |
| PD-12 @ 20' | None     | 600            |     |
| PD-12 @ 25' | None     | 300            |     |
| PD-13 @ 4'  | None     | 6,128          |     |
| PD-13 @ 8'  | None     | 4,144          |     |
| PD-13 @ 10' | None     | 4,856          |     |
| PD-13 @ 20' | None     | 4,499          |     |
| PD-13 @ 25' | None     | 4,499          |     |
| PD-13 @ 30' | None     | 2,999          |     |
| PD-13 @ 35' | None     | 2,999          |     |
| PD-13 @ 40' | None     | 1,050          |     |
| PD-13 @ 45' | None     | 1,050          |     |
| PD-13 @ 50' | None     | 300            |     |
| PD-14 @ 4'  | None     | 13,852         |     |
| PD-14 @ 8'  | None     | 6,128          |     |
| PD-14 @ 10' | None     | 4,144          |     |
| PD-14 @ 20' | None     | 3,899          |     |
| PD-14 @ 25' | None     | 3,899          |     |
| PD-14 @ 30' | None     | 2,399          |     |
| PD-14 @ 35' | None     | 2,399          |     |
| PD-14 @ 40' | None     | 1,350          |     |
| PD-14 @ 45' | None     | 1,350          |     |
| PD-14 @ 50' | None     | 300            |     |
| PD-15 @ 4'  | None     | 13,852         |     |
| PD-15 @ 8'  | None     | 7,148          |     |
| PD-15 @ 10' | None     | 4,488          |     |

\*Samples collected and field-screened by a third-party contractor that is no longer affiliated with the site.



## Field Samples\*

Date: 12/8 - 12/10/2021

Project: PWMS Derringer to VF Line

Project Number: 15345 Latitude: 32.628615 Longitude: -104.122338

| Sample ID   | PID/Odor | Chloride Conc. | GPS |
|-------------|----------|----------------|-----|
| PD-15 @ 12' | None     | 4,144          |     |
| PD-15 @ 14' | None     | 3,236          |     |
| PD-15 @ 20' | None     | 750            |     |
| PD-15 @ 25' | None     | 300            |     |
| PD-15 @ 30' | None     | 300            |     |
| PD-16 @ 4'  | None     | 13,852         |     |
| PD-16 @ 8'  | None     | 13,852         |     |
| PD-16 @ 10' | None     | 13,852         |     |
| PD-16 @ 12' | None     | 2,524          |     |
| PD-16 @ 14' | None     | 1,600          |     |
| PD-16 @ 20' | None     | 600            |     |
| PD-16 @ 25' | None     | 600            |     |
| PD-16 @ 30' | None     | 300            |     |
| PD-17 @ 4'  | None     | 13,852         |     |
| PD-17 @ 8'  | None     | 2,056          |     |
| PD-17 @ 12' | None     | 1,860          |     |
| PD-17 @ 14' | None     | 3,236          |     |
| PD-17 @ 18' | None     | 976            |     |
| PD-17 @ 20' | None     | 3,299          |     |
| PD-17 @ 25' | None     | 3,299          |     |
| PD-17 @ 30' | None     | 1,799          |     |
| PD-17 @ 35' | None     | 1,799          |     |
| PD-17 @ 40' | None     | 1,050          |     |
| PD-17 @ 45' | None     | 1,050          |     |
| PD-17 @ 50' | None     | 300            |     |
| PD-18 @ 4'  | None     | 13,852         |     |
| PD-18 @ 8'  | None     | 976            |     |
| PD-18 @ 12' | None     | 1,212          |     |
| PD-18 @ 14' | None     | 1,212          |     |
| PD-18 @ 20' | None     | 3,299          |     |
| PD-18 @ 25' | None     | 3,299          |     |
| PD-18 @ 30' | None     | 1,799          |     |
| PD-18 @ 35' | None     | 1,799          |     |
| PD-18 @ 40' | None     | 300            |     |
| PD-19 @ 4'  | None     | 3,824          |     |
| PD-19 @ 12' | None     | 4,144          |     |
| PD-19 @ 14' | None     | 4,856          |     |
| PD-19 @ 20' | None     | 1,500          |     |

\*Samples collected and field-screened by a third-party contractor that is no longer affiliated with the site.





# Sample Log

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

Project: PWMS Derringer to Winchester Line

Project Number: 15345 Latitude: 32.628577 Longitude: -104.122261

| Sample ID            | PID/Odor | Chloride Conc. | GPS |
|----------------------|----------|----------------|-----|
| NW #1.               | -        | ND             |     |
| NW #2.               | -        | ND             |     |
| WW #1.               | -        | 492            |     |
| SW #1.               | -        | 2,536          |     |
| EW #1.               | -        | 2,536          |     |
| WW #2.               | -        | 772            |     |
| WW #2.               | -        | 172            |     |
| WW #3.               | -        | 200            |     |
| SW test              | -        | 2,536          |     |
| <del>SW</del> NW #3. | -        | 908            |     |
| EW #1.               | -        | 260            |     |
| NW #3.               | -        | 292            |     |
| SW #1.               | -        | 2,536          |     |
| SW #1.               | -        | 772            |     |
| EW #2.               | -        | 144            |     |
| SW #1.               | -        | 620            |     |
| SW #1.               | -        | 286            |     |
| WW #4.               | -        | 996            |     |
| SW #2.               | -        | 1,768          |     |
| SW #2.               | -        | 204            |     |
| <del>SW</del> EW #3. | -        | ND             |     |
| EW #4.               | -        | 236            |     |
| EW #5.               | -        | 792            |     |
| EW #5.               | -        | 204            |     |
| EW #6.               | -        | 2,536          |     |
| WW #4                | -        | 204            |     |
| SW #3.               | -        | 286            |     |
| SW #4.               | -        | ND             |     |
| WW #5.               | -        | 236            |     |
| WW #6.               | -        | 516            |     |
| EW #6.               | -        | 386            |     |
| WW #7.               | -        | 2,536          |     |
| NW #4.               | -        | ND             |     |
| NW #5.               | -        | 384            |     |
| EW #7.               | -        | 144            |     |
| WW #8.               | -        | 144            |     |

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





**Soil Boring/Temporary Monitor Well BH-1**

|   |  |  |
|---|--|--|
| <b>Company:</b> Mewbourne Oil Company     | <b>Well/Borehole ID:</b> SB-1                      | <b>Drilling Company:</b> Ready Drill, Inc. |
| <b>Site:</b> PWMS Derringer to VF Line    | <b>Coordinates (NAD 83):</b> 32.629031,-104.122296 | <b>Driller:</b> Ready Drill, Inc.          |
| <b>NMOCD Reference #:</b> nAPP2134428244  | <b>Drilling Date:</b> 12/10/2021                   | <b>Drilling Method:</b> Air Rotary         |
| <b>Location:</b> Eddy Co., NM             | <b>Depth of Boring (ft):</b> 55                    | <b>Logged By:</b> Ready Drill, Inc.        |
| <b>PLSS:</b> U/L "M", Sec. 25, T19S, R28E | <b>Depth to Groundwater (ft):</b> >55              | <b>Drafted By:</b> B. Arguijo              |
|   | <b>Plugging Date:</b> 12/13/2021                   | <b>Draft Date:</b> 12/17/2021              |

**Completion:** N/A      **Casing:** N/A      **Screen:** N/A

**Comments:** N/A

| Depth (ft)  | Groundwater | Lithology | Material Description | Chloride Field Test | Lab Result | PID Reading | Well Construction |
|---|-------------|-----------|----------------------|---------------------|------------|-------------|-------------------|
| 5   |             |           | Sandy Dirt           | -                   | -          | -           |                   |
| 10  |             |           | Sandy Dirt           | -                   | -          | -           |                   |
| 15  |             |           | Sandy Dirt           | -                   | -          | -           |                   |
| 20  |             |           | Sandy Dirt           | -                   | -          | -           |                   |
| 25  |             |           | Red Dirt             | -                   | -          | -           |                   |
| 30  |             |           | Red Dirt             | -                   | -          | -           | Bentonite         |
| 35  |             |           | Clumpy Sand          | -                   | -          | -           |                   |
| 40  |             |           | Clumpy Sand          | -                   | -          | -           |                   |
| 45  |             |           | Red Clay             | -                   | -          | -           |                   |
| 50  |             |           | Red Clay             | -                   | -          | -           |                   |
| 55  |             |           | Slough               | -                   | -          | -           |                   |
| Notes:<br>Lines between material types represent approximate boundaries. Actual transitions may be gradual. |             |           |                      |                     |            |             |                   |

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

**Soil Boring/Temporary Monitor Well B.H. #1**

|   |  |  |
|---|--|--|
| <b>Company:</b> Mewbourne Oil Company     | <b>Well/Borehole ID:</b> B.H. #1                   | <b>Drilling Company:</b> Ready Drill, Inc. |
| <b>Site:</b> PWMS Derringer to VF Line    | <b>Coordinates (NAD 83):</b> 32.627703,-104.121920 | <b>Driller:</b> Ready Drill, Inc.          |
| <b>NMOCD Reference #:</b> nAPP2134428244  | <b>Drilling Date:</b> 3/10/2022                    | <b>Drilling Method:</b> Auger              |
| <b>Location:</b> Eddy Co., NM             | <b>Depth of Boring (ft):</b> 30                    | <b>Logged By:</b> L. Crenshaw              |
| <b>PLSS:</b> U/L "M", Sec. 25, T19S, R28E | <b>Depth to Groundwater (ft):</b> >55              | <b>Drafted By:</b> B. Arguijo              |
|   | <b>Plugging Date:</b> 3/10/2022                    | <b>Draft Date:</b> 3/18/2022               |

**Completion:** N/A      **Casing:** N/A      **Screen:** N/A  
**Comments:** N/A

| Depth (ft) | Groundwater | Lithology          | Material Description  | Chloride Field Test | Lab Result | PID Reading | Well Construction              |
|------------|-------------|--------------------|---|---------------------|------------|-------------|--------------------------------|
| 0          |             |                    | Excavation  |                     |            |             |                                |
| 5          |             | Caliche rock       |   | >2,464              | 4,480      | -           |                                |
| 10         |             | Caliche - clay mix |   | >2,464              | 4,960      | -           |                                |
| 15         |             | Clay               |   | >2,464              | 4,000      | -           |                                |
| 20         |             | Sand, clay         |   | 1,816               | 3,160      | -           |                                |
| 25         |             |                    |   | 596                 | 1,060      | -           | Open hole. No casing installed |
| 30         |             |                    |   | <116                | 32.0       | -           |                                |
| 35         |             |                    | Notes:<br>Lines between material types represent approximate boundaries. Actual transitions may be gradual. |                     |            |             |                                |
| 40         |             |                    |   |                     |            |             |                                |
| 45         |             |                    |   |                     |            |             |                                |
| 50         |             |                    |   |                     |            |             |                                |
| 55         |             |                    |   |                     |            |             |                                |

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

**Soil Boring/Temporary Monitor Well B.H. #2**

|   |  |  |
|---|--|--|
| <b>Company:</b> Mewbourne Oil Company     | <b>Well/Borehole ID:</b> B.H. #2                   | <b>Drilling Company:</b> Ready Drill, Inc. |
| <b>Site:</b> PWMS Derringer to VF Line    | <b>Coordinates (NAD 83):</b> 32.628935,-104.122171 | <b>Driller:</b> Ready Drill, Inc.          |
| <b>NMOCD Reference #:</b> nAPP2134428244  | <b>Drilling Date:</b> 3/10/2022                    | <b>Drilling Method:</b> Auger              |
| <b>Location:</b> Eddy Co., NM             | <b>Depth of Boring (ft):</b> 45                    | <b>Logged By:</b> L. Crenshaw              |
| <b>PLSS:</b> U/L "M", Sec. 25, T19S, R28E | <b>Depth to Groundwater (ft):</b> >55              | <b>Drafted By:</b> B. Arguijo              |
|   | <b>Plugging Date:</b> 3/10/2022                    | <b>Draft Date:</b> 3/18/2022               |

**Completion:** N/A      **Casing:** N/A      **Screen:** N/A

**Comments:** N/A

| Depth (ft) | Groundwater | Lithology   | Material Description  | Chloride Field Test | Lab Result | PID Reading | Well Construction                                |
|------------|-------------|---|---|---------------------|------------|-------------|--|
|            |             |   | Excavation  |                     |            |             | Excavation<br><br>Open hole. No casing installed |
| 5          |             |    | Caliche rock  | >2,464              | 10,200     | -           |  |
| 10         |             |    | Caliche - clay mix  | >2,464              | 3,440      | -           |  |
| 15         |             |   | Clay  | >2,464              | 8,530      | -           |  |
| 20         |             |  | Sand, clay  | >2,464              | 7,730      | -           |  |
| 25         |             |  | Sand, clay  | >2,464              | 5,120      | -           |  |
| 30         |             |  | Sand  | 1,888               | 2,480      | -           |  |
| 35         |             |  | Sand  | 592                 | 496        | -           |  |
| 40         |             |  | Sand  | 570                 | 160        | -           |  |
| 45         |             |  | Sand  | 404                 | 128        | -           |  |
| 50         |             |   | Notes:<br>Lines between material types represent approximate boundaries. Actual transitions may be gradual. |                     |            |             |  |
| 55         |             |   |   |                     |            |             |  |

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

**Soil Boring/Temporary Monitor Well B.H. #3**

|   |  |  |
|---|--|--|
| <b>Company:</b> Mewbourne Oil Company     | <b>Well/Borehole ID:</b> B.H. #3                   | <b>Drilling Company:</b> Ready Drill, Inc. |
| <b>Site:</b> PWMS Derringer to VF Line    | <b>Coordinates (NAD 83):</b> 32.628491,-104.122265 | <b>Driller:</b> Ready Drill, Inc.          |
| <b>NMOCD Reference #:</b> nAPP2134428244  | <b>Drilling Date:</b> 3/10/2022                    | <b>Drilling Method:</b> Auger              |
| <b>Location:</b> Eddy Co., NM             | <b>Depth of Boring (ft):</b> 35                    | <b>Logged By:</b> L. Crenshaw              |
| <b>PLSS:</b> U/L "M", Sec. 25, T19S, R28E | <b>Depth to Groundwater (ft):</b> >55              | <b>Drafted By:</b> B. Arguijo              |
|   | <b>Plugging Date:</b> 3/10/2022                    | <b>Draft Date:</b> 3/18/2022               |

**Completion:** N/A      **Casing:** N/A      **Screen:** N/A  
**Comments:** N/A

| Depth (ft) | Groundwater | Lithology | Material Description  | Chloride Field Test | Lab Result | PID Reading | Well Construction |
|------------|-------------|-----------|---|---------------------|------------|-------------|-------------------|
|            |             |           | Excavation  |                     |            |             |                   |
| 5          |             |           | Caliche rock  | >2,464              | 6,240      | -           |                   |
| 10         |             |           | Caliche - clay mix  | 2,090               | 2,160      | -           |                   |
| 15         |             |           | Clay  | 1,760               | 2,400      | -           |                   |
| 20         |             |           | Sand, clay  | 404                 | 240        | -           |                   |
| 25         |             |           | Sand  | 540                 | 560        | -           |                   |
| 30         |             |           | Sand  | 444                 | 256        | -           |                   |
| 35         |             |           | Notes:<br>Lines between material types represent approximate boundaries. Actual transitions may be gradual. |                     |            |             |                   |
| 40         |             |           |   |                     |            |             |                   |
| 45         |             |           |   |                     |            |             |                   |
| 50         |             |           |   |                     |            |             |                   |
| 55         |             |           |   |                     |            |             |                   |

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

# **Appendix C**

## **Photographic Log**

### Photographic Log

|  |  |   |
|--|--|---|
| <b>Photo Number:</b><br>1                    |  |  |
| <b>Date:</b><br>11/29/2021                   |  |   |
| <b>Photo Direction:</b><br>Northeast         |  |   |
| <b>Coordinates:</b><br>32.628615,-104.122338 |  |   |
| <b>Photo Description:</b>                    |  |   |
| View of the affected area.                   |  |   |

|  |  |  |
|--|--|--|
| <b>Photo Number:</b><br>2                    |  |  |
| <b>Date:</b><br>11/29/2021                   |  |  |
| <b>Photo Direction:</b><br>East              |  |  |
| <b>Coordinates:</b><br>32.628615,-104.122338 |  |  |
| <b>Photo Description:</b>                    |  |  |
| View of the affected area.                   |  |  |

### Photographic Log

|   |   |
|---|---|
| <b>Photo Number:</b><br>3                                   |  |
| <b>Date:</b><br>11/29/2021                                  |   |
| <b>Photo Direction:</b><br>South                            |   |
| <b>Coordinates:</b><br>32.628495,-104.121933                |   |
| <b>Photo Description:</b><br><br>View of the affected area. |   |

|   |  |
|---|--|
| <b>Photo Number:</b><br>4                                   |  |
| <b>Date:</b><br>11/29/2021                                  |  |
| <b>Photo Direction:</b><br>North                            |  |
| <b>Coordinates:</b><br>32.628495,-104.121933                |  |
| <b>Photo Description:</b><br><br>View of the affected area. |  |

### Photographic Log

|  |   |
|--|---|
| <b>Photo Number:</b><br>5                                    |  |
| <b>Date:</b><br>1/26/2022                                    |   |
| <b>Photo Direction:</b><br>North                             |   |
| <b>Coordinates:</b><br>32.628356,-104.122397                 |   |
| <b>Photo Description:</b><br><br>View of the excavated area. |   |

|  |  |
|--|--|
| <b>Photo Number:</b><br>6                                    |  |
| <b>Date:</b><br>1/26/2022                                    |  |
| <b>Photo Direction:</b><br>Northeast                         |  |
| <b>Coordinates:</b><br>32.628356,-104.122397                 |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

### Photographic Log

|  |   |
|--|---|
| <b>Photo Number:</b><br>7                                    |  |
| <b>Date:</b><br>1/26/2022                                    |   |
| <b>Photo Direction:</b><br>East                              |   |
| <b>Coordinates:</b><br>32.628356,-104.122397                 |   |
| <b>Photo Description:</b><br><br>View of the excavated area. |   |

|  |  |
|--|--|
| <b>Photo Number:</b><br>8                                    |  |
| <b>Date:</b><br>2/1/2022                                     |  |
| <b>Photo Direction:</b><br>South                             |  |
| <b>Coordinates:</b><br>32.628198,-104.121886                 |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

### Photographic Log

|  |   |
|--|---|
| <b>Photo Number:</b><br>9                    |  <p>Feb 15, 2022 at 8:51:27 AM<br/>+32.627938,-104.121996</p> |
| <b>Date:</b><br>2/15/2022                    |   |
| <b>Photo Direction:</b><br>South             |   |
| <b>Coordinates:</b><br>32.627938,-104.121996 |   |
| <b>Photo Description:</b>                    |   |
| View of liner installation.                  |   |

|  |   |
|--|---|
| <b>Photo Number:</b><br>10                   |  <p>Feb 15, 2022 at 8:54:22 AM<br/>+32.627713,-104.122067</p> |
| <b>Date:</b><br>2/15/2022                    |   |
| <b>Photo Direction:</b><br>East              |   |
| <b>Coordinates:</b><br>32.627713,-104.122067 |   |
| <b>Photo Description:</b>                    |   |
| View of liner installation.                  |   |

### Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>11                   |  <p>Feb 15, 2022 at 1:40:26 PM<br/>Buckskin Rd<br/>Carlsbad NM 88220<br/>United States</p> |
| <b>Date:</b><br>2/15/2022                    |  |
| <b>Photo Direction:</b><br>South-Southwest   |  |
| <b>Coordinates:</b><br>32.628290,-104.121864 |  |
| <b>Photo Description:</b>                    |  |
| View of liner installation.                  |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>12                   |  <p>Feb 15, 2022 at 1:40:08 PM<br/>Buckskin Rd<br/>Carlsbad NM 88220<br/>United States</p> |
| <b>Date:</b><br>2/15/2022                    |  |
| <b>Photo Direction:</b><br>Southwest         |  |
| <b>Coordinates:</b><br>32.628381,-104.121855 |  |
| <b>Photo Description:</b>                    |  |
| View of liner installation.                  |  |

### Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>13                   |  <p>Feb 15, 2022 at 1:39:55 PM<br/>Buckskin Rd<br/>Carlsbad NM 88220<br/>United States</p> |
| <b>Date:</b><br>2/15/2022                    |  |
| <b>Photo Direction:</b><br>Southeast         |  |
| <b>Coordinates:</b><br>32.627829,-104.122122 |  |
| <b>Photo Description:</b>                    |  |
| View of liner installation.                  |  |

|  |   |
|--|---|
| <b>Photo Number:</b><br>14                   |  <p>Mar 10, 2022 at 9:29:02 AM<br/>+32.627729,-104.121938</p> |
| <b>Date:</b><br>3/10/2022                    |   |
| <b>Photo Direction:</b><br>Southeast         |   |
| <b>Coordinates:</b><br>32.627729,-104.121938 |   |
| <b>Photo Description:</b>                    |   |
| View of the advancement of borehole B.H. #1. |   |

### Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>15                   |  |
| <b>Date:</b><br>3/10/2022                    |  |
| <b>Photo Direction:</b><br>East              |  |
| <b>Coordinates:</b><br>32.628920,-104.122253 |  |
| <b>Photo Description:</b>                    |  |
| View of the advancement of borehole B.H. #2. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>16                   |  |
| <b>Date:</b><br>3/17/2022                    |  |
| <b>Photo Direction:</b><br>Northeast         |  |
| <b>Coordinates:</b><br>32.628495,-104.121933 |  |
| <b>Photo Description:</b>                    |  |
| View of liner repair activities.             |  |

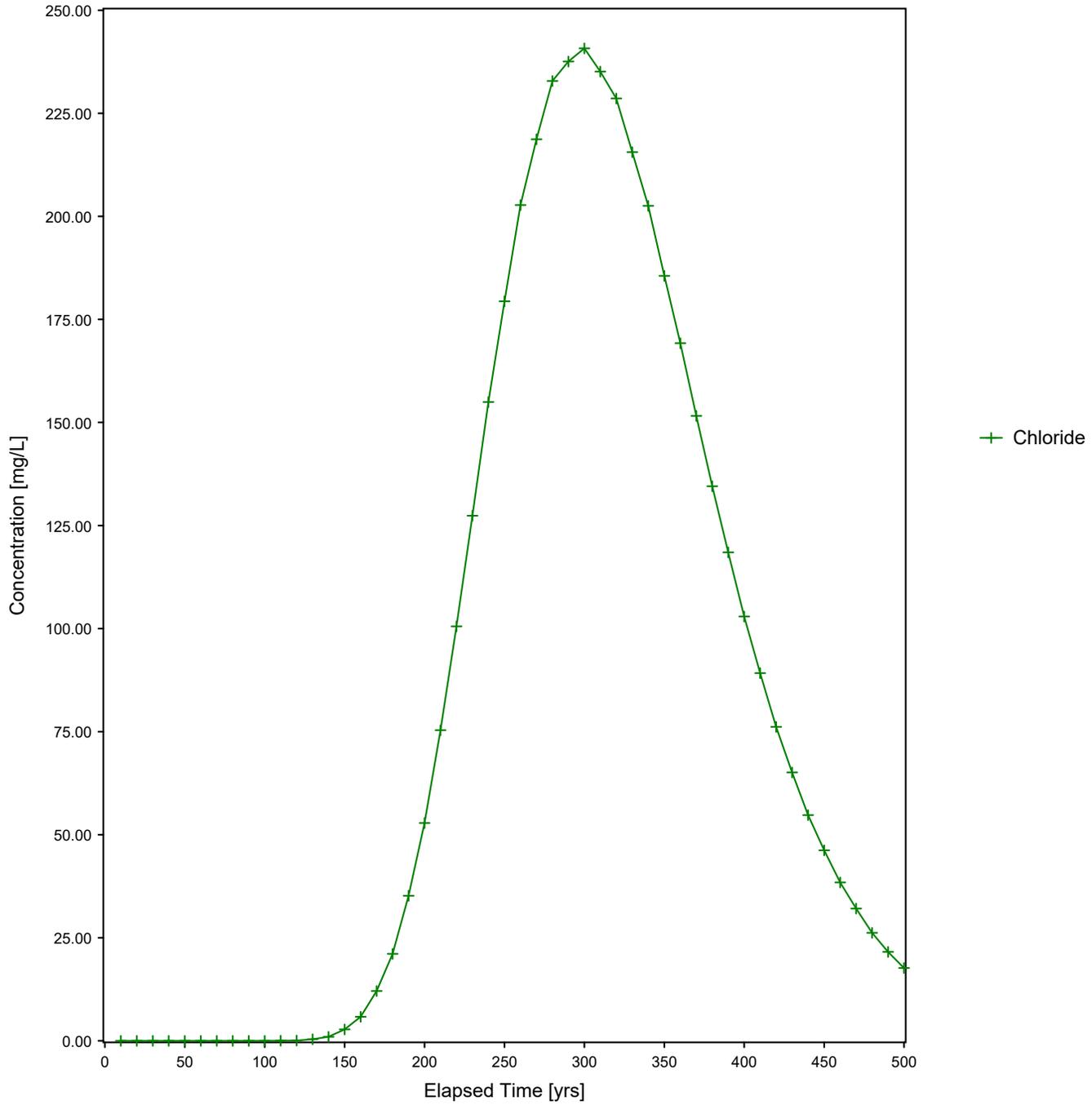
### Photographic Log

|  |   |
|--|---|
| <b>Photo Number:</b><br>17                   |  <p>3/17/22, 10:26 AM<br/>+32.628215,-104.122303<br/>NM,Carlsbad,Buckskin Rd</p> |
| <b>Date:</b><br>3/17/2022                    |   |
| <b>Photo Direction:</b><br>North             |   |
| <b>Coordinates:</b><br>32.628920,-104.122253 |   |
| <b>Photo Description:</b>                    |   |
| View of liner repair activities.             |   |

|  |  |
|--|--|
| <b>Photo Number:</b><br>18                   |  <p>3/17/22, 10:26 AM<br/>+32.628215,-104.122303<br/>NM,Carlsbad,Buckskin Rd</p> |
| <b>Date:</b><br>3/17/2022                    |  |
| <b>Photo Direction:</b><br>Northwest         |  |
| <b>Coordinates:</b><br>32.628495,-104.121933 |  |
| <b>Photo Description:</b>                    |  |
| View of repaired liner.                      |  |

**Appendix D**  
**Multimedia Exposure Assessment Model**  
**(MULTIMED)**

### Chloride Concentration At The Receptor Well (w/ Liner) Mewbourne Oil Company PWMS Derringer to VF Line



U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1  
Run options  
-----

1  
Mylabourne Oil Company

1  
PMS Derringer to VF Line  
Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models  
Run was DETERMIN  
Infiltration Specified By User: 7.620E-03 m/yr  
Run was transient  
Well Times: Find Maximum Concentration  
Reject runs if Y coordinate outside plume  
Reject runs if Z coordinate outside plume  
Gaussian source used in saturated zone model

1  
1  
UNSATURATED ZONE FLOW MODEL PARAMETERS  
(input parameter description and value)  
NP - Total number of nodal points 240  
NMAT - Number of different porous materials 3  
KPROP - Van Genuchten or Brooks and Corey 1  
IMSHGN - Spatial discretization option 1  
NVFLAYR - Number of layers in flow model 3

OPTIONS CHOSEN  
-----

1  
Van Genuchten functional coefficients  
User defined coordinate system

Layer information  
-----

| LAYER NO. | LAYER THICKNESS | MATERIAL PROPERTY |
|-----------|-----------------|-------------------|
| 1         | 2.90            | 1                 |
| 2         | 2.13            | 1                 |
| 3         | 3.96            | 1                 |

Released to Imaging: 3/22/2022 1:48:21 PM

Received by OCD: 3/21/2022 3:50:41 PM

DATA FOR MATERIAL 1  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 3.60       | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.250      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 1  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME                | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------|-------|--------------|------------|---------|--------|-------|
|                              |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content       | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |
| Brook and Corey exponent, EN | --    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| ALFA coefficient             | 1/cm  | CONSTANT     | 0.500E-02  | -999.   | -999.  | -999. |
| Van Genuchten exponent, ENN  | --    | CONSTANT     | 1.09       | -999.   | -999.  | -999. |

DATA FOR MATERIAL 2  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 0.140      | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.120      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 2  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME          | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------|-------|--------------|------------|---------|--------|-------|
|                        |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |

|                             |      |          |           |       |       |       |
|-----------------------------|------|----------|-----------|-------|-------|-------|
| Brook and Corey exponent,EN | --   | CONSTANT | -999.     | -999. | -999. | -999. |
| ALFA coefficient            | 1/cm | CONSTANT | 0.500E-02 | -999. | -999. | -999. |
| Van Genuchten exponent, ENN | --   | CONSTANT | 1.09      | -999. | -999. | -999. |

DATA FOR MATERIAL 3  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 0.848E-03  | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.150      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 3  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME               | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|-----------------------------|-------|--------------|------------|---------|--------|-------|
|                             |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content      | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |
| Brook and Corey exponent,EN | --    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| ALFA coefficient            | 1/cm  | CONSTANT     | 0.500E-03  | -999.   | -999.  | -999. |
| Van Genuchten exponent, ENN | --    | CONSTANT     | 1.09       | -999.   | -999.  | -999. |

1

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

|        |  |        |
|--------|--|--------|
| NLAY   | - Number of different layers used          | 1      |
| NTSTPS | - Number of time values concentration calc | 40     |
| DUMMY  | - Not presently used                       | 1      |
| ISOL   | - Type of scheme used in unsaturated zone  | 2      |
| N      | - Stehfest terms or number of increments   | 18     |
| NTEL   | - Points in Lagrangian interpolation       | 3      |
| NGPTS  | - Number of Gauss points                   | 104    |
| NIT    | - Convolution integral segments            | 2      |
| IBOUND | - Type of boundary condition               | 3      |
| ITSGEN | - Time values generated or input           | 1      |
| TMAX   | - Max simulation time                      | -- 0.0 |
| WTFUN  | - Weighting factor                         | -- 1.2 |

OPTIONS CHOSEN

-----  
Convolution integral approach  
Exponentially decaying continuous source  
Computer generated times for computing concentrations

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DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

| VARIABLE NAME                      | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------------|-------|--------------|------------|---------|--------|-------|
|                                    |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Thickness of layer                 | m     | CONSTANT     | 8.99       | -999.   | -999.  | -999. |
| Longitudinal dispersivity of layer | m     | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Percent organic matter             | --    | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Bulk density of soil for layer     | g/cc  | CONSTANT     | 1.99       | -999.   | -999.  | -999. |
| Biological decay coefficient       | 1/yr  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |

CHEMICAL SPECIFIC VARIABLES

| VARIABLE NAME                           | UNITS                 | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|---|-----------------------|--------------|------------|---------|--------|-------|
|   |                       |              | MEAN       | STD DEV | MIN    | MAX   |
| Solid phase decay coefficient           | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Dissolved phase decay coefficient       | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Overall chemical decay coefficient      | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Acid catalyzed hydrolysis rate          | 1/M-yr                | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Neutral hydrolysis rate constant        | 1/yr                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Base catalyzed hydrolysis rate          | 1/M-yr                | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Reference temperature                   | C                     | CONSTANT     | 25.0       | -999.   | -999.  | -999. |
| Normalized distribution coefficient     | ml/g                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Distribution coefficient                | --                    | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Biodegradation coefficient (sat. zone)  | 1/yr                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Air diffusion coefficient               | cm <sup>2</sup> /s    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Reference temperature for air diffusion | C                     | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Molecular weight                        | g/M                   | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Mole fraction of solute                 | --                    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Vapor pressure of solute                | mm Hg                 | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Henry`s law constant                    | atm-m <sup>3</sup> /M | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Overall 1st order decay sat. zone       | 1/yr                  | DERIVED      | 0.000      | 0.000   | 0.000  | 1.00  |
| Not currently used                      |                       | CONSTANT     | 0.000      | 0.000   | 0.000  | 0.000 |
| Not currently used                      |                       | CONSTANT     | 0.000      | 0.000   | 0.000  | 0.000 |

SOURCE SPECIFIC VARIABLES

| VARIABLE NAME                | UNITS          | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------|----------------|--------------|------------|---------|--------|-------|
|                              |                |              | MEAN       | STD DEV | MIN    | MAX   |
| Infiltration rate            | m/yr           | CONSTANT     | 0.762E-02  | -999.   | -999.  | -999. |
| Area of waste disposal unit  | m <sup>2</sup> | CONSTANT     | 0.875E+04  | -999.   | -999.  | -999. |
| Duration of pulse            | yr             | DERIVED      | 0.100E-08  | -999.   | -999.  | -999. |
| Spread of contaminant source | m              | DERIVED      | -999.      | -999.   | -999.  | -999. |

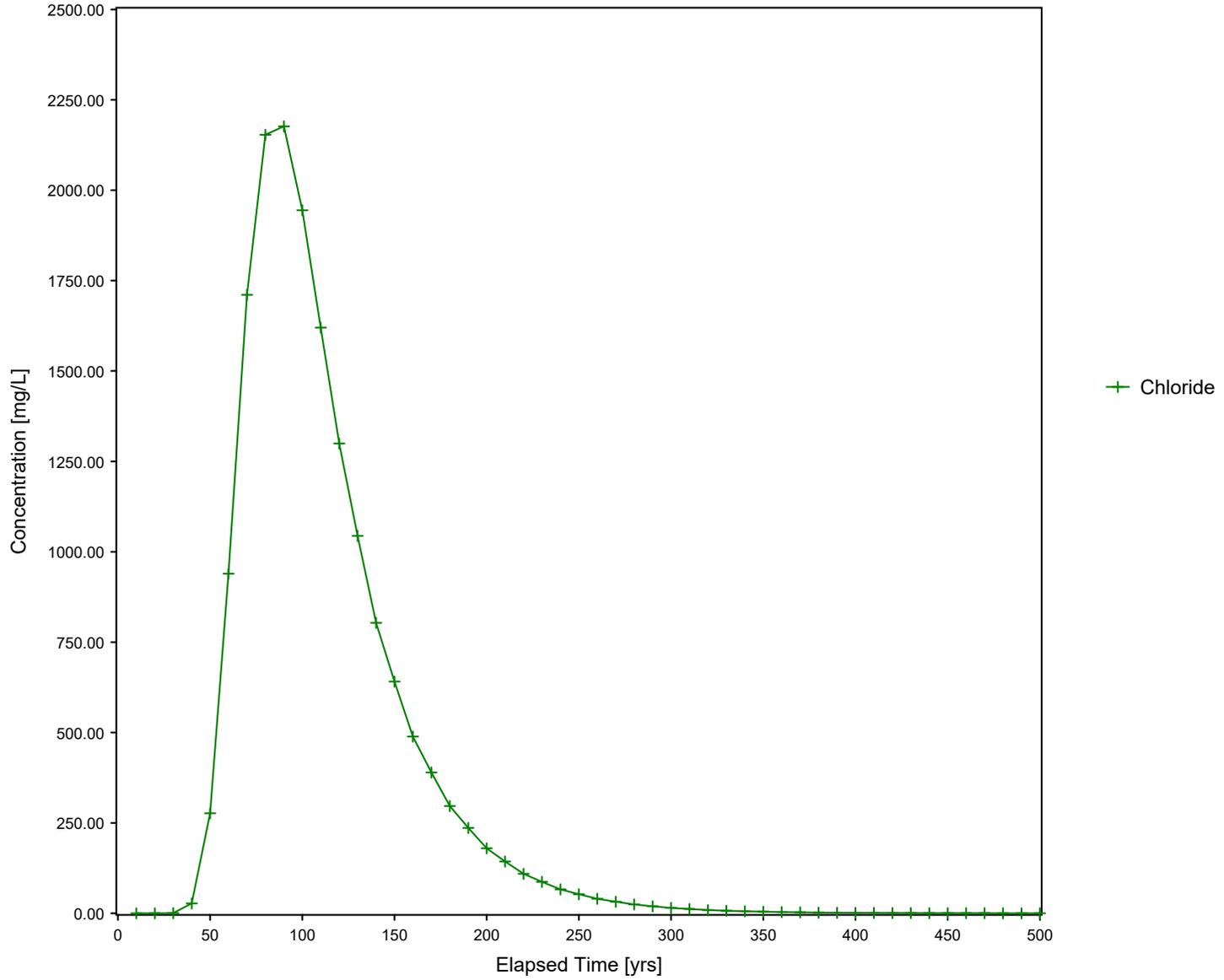
|                                   |      |          |           |       |       |       |
|-----------------------------------|------|----------|-----------|-------|-------|-------|
| Recharge rate                     | m/yr | CONSTANT | 0.000     | -999. | -999. | -999. |
| Source decay constant             | 1/yr | CONSTANT | 0.250E-01 | 0.000 | 0.000 | 0.000 |
| Initial concentration at landfill | mg/l | CONSTANT | 0.265E+04 | -999. | -999. | -999. |
| Length scale of facility          | m    | DERIVED  | -999.     | -999. | -999. | -999. |
| Width scale of facility           | m    | DERIVED  | -999.     | -999. | -999. | -999. |
| Near field dilution               |      | DERIVED  | 1.00      | 0.000 | 0.000 | 1.00  |

AQUIFER SPECIFIC VARIABLES

| VARIABLE NAME                        | UNITS  | DISTRIBUTION  | PARAMETERS |         | LIMITS |       |
|--------------------------------------|--------|---------------|------------|---------|--------|-------|
|                                      |        |               | MEAN       | STD DEV | MIN    | MAX   |
| Particle diameter                    | cm     | CONSTANT      | -999.      | -999.   | -999.  | -999. |
| Aquifer porosity                     | --     | CONSTANT      | 0.300      | -999.   | -999.  | -999. |
| Bulk density                         | g/cc   | CONSTANT      | 1.86       | -999.   | -999.  | -999. |
| Aquifer thickness                    | m      | CONSTANT      | 4.57       | -999.   | -999.  | -999. |
| Source thickness (mixing zone depth) | m      | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Conductivity (hydraulic)             | m/yr   | CONSTANT      | 315.       | -999.   | -999.  | -999. |
| Gradient (hydraulic)                 |        | CONSTANT      | 0.300E-02  | -999.   | -999.  | -999. |
| Groundwater seepage velocity         | m/yr   | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Retardation coefficient              | --     | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Longitudinal dispersivity            | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Transverse dispersivity              | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Vertical dispersivity                | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Temperature of aquifer               | C      | CONSTANT      | 20.0       | -999.   | -999.  | -999. |
| pH                                   | --     | CONSTANT      | 7.00       | -999.   | -999.  | -999. |
| Organic carbon content (fraction)    |        | CONSTANT      | 0.000      | -999.   | -999.  | -999. |
| Well distance from site              | m      | CONSTANT      | 1.00       | -999.   | -999.  | -999. |
| Angle off center                     | degree | CONSTANT      | 0.000      | -999.   | -999.  | -999. |
| Well vertical distance               | m      | CONSTANT      | 0.000      | -999.   | -999.  | -999. |

MAXIMUM WELL CONCENTRATION IS 241.0 AT 301 YEARS

### Chloride Concentration At The Receptor Well (No Liner) Mewbourne Oil Company PWMS Derringer to VF Line



U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

1  
Run options  
-----

1  
Mowbourn Oil Company

1  
PMS Derringer to VF Line  
Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models  
Run was DETERMIN  
Infiltration Specified By User: 3.048E-02 m/yr  
Run was transient  
Well Times: Find Maximum Concentration  
Reject runs if Y coordinate outside plume  
Reject runs if Z coordinate outside plume  
Gaussian source used in saturated zone model

1  
1  
UNSATURATED ZONE FLOW MODEL PARAMETERS  
(input parameter description and value)  
NP - Total number of nodal points 240  
NMAT - Number of different porous materials 3  
KPROP - Van Genuchten or Brooks and Corey 1  
IMSHGN - Spatial discretization option 1  
NVFLAYR - Number of layers in flow model 3

OPTIONS CHOSEN

-----  
Van Genuchten functional coefficients  
User defined coordinate system

1  
Layer information

| LAYER NO. | LAYER THICKNESS | MATERIAL PROPERTY |
|-----------|-----------------|-------------------|
| 1         | 2.90            | 1                 |
| 2         | 2.13            | 1                 |
| 3         | 3.96            | 1                 |

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DATA FOR MATERIAL 1  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 3.60       | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.250      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 1  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME                | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------|-------|--------------|------------|---------|--------|-------|
|                              |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content       | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |
| Brook and Corey exponent, EN | --    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| ALFA coefficient             | 1/cm  | CONSTANT     | 0.500E-02  | -999.   | -999.  | -999. |
| Van Genuchten exponent, ENN  | --    | CONSTANT     | 1.09       | -999.   | -999.  | -999. |

DATA FOR MATERIAL 2  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 0.140      | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.120      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 2  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME          | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------|-------|--------------|------------|---------|--------|-------|
|                        |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |

|                             |      |          |           |       |       |       |
|-----------------------------|------|----------|-----------|-------|-------|-------|
| Brook and Corey exponent,EN | --   | CONSTANT | -999.     | -999. | -999. | -999. |
| ALFA coefficient            | 1/cm | CONSTANT | 0.500E-02 | -999. | -999. | -999. |
| Van Genuchten exponent, ENN | --   | CONSTANT | 1.09      | -999. | -999. | -999. |

DATA FOR MATERIAL 3  
-----  
VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME                    | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|----------------------------------|-------|--------------|------------|---------|--------|-------|
|                                  |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Saturated hydraulic conductivity | cm/hr | CONSTANT     | 0.848E-03  | -999.   | -999.  | -999. |
| Unsaturated zone porosity        | --    | CONSTANT     | 0.150      | -999.   | -999.  | -999. |
| Air entry pressure head          | m     | CONSTANT     | 0.700      | -999.   | -999.  | -999. |
| Depth of the unsaturated zone    | m     | CONSTANT     | 8.99       | 0.000   | 0.000  | 0.000 |

DATA FOR MATERIAL 3  
-----  
VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME               | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|-----------------------------|-------|--------------|------------|---------|--------|-------|
|                             |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Residual water content      | --    | CONSTANT     | 0.116      | -999.   | -999.  | -999. |
| Brook and Corey exponent,EN | --    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| ALFA coefficient            | 1/cm  | CONSTANT     | 0.500E-03  | -999.   | -999.  | -999. |
| Van Genuchten exponent, ENN | --    | CONSTANT     | 1.09       | -999.   | -999.  | -999. |

1

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

|        |  |        |
|--------|--|--------|
| NLAY   | - Number of different layers used          | 1      |
| NTSTPS | - Number of time values concentration calc | 40     |
| DUMMY  | - Not presently used                       | 1      |
| ISOL   | - Type of scheme used in unsaturated zone  | 2      |
| N      | - Stehfest terms or number of increments   | 18     |
| NTEL   | - Points in Lagrangian interpolation       | 3      |
| NGPTS  | - Number of Gauss points                   | 104    |
| NIT    | - Convolution integral segments            | 2      |
| IBOUND | - Type of boundary condition               | 3      |
| ITSGEN | - Time values generated or input           | 1      |
| TMAX   | - Max simulation time                      | -- 0.0 |
| WTFUN  | - Weighting factor                         | -- 1.2 |

OPTIONS CHOSEN

-----  
Convolution integral approach  
Exponentially decaying continuous source  
Computer generated times for computing concentrations

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DATA FOR LAYER 1  
-----  
VADOSE TRANSPORT VARIABLES

| VARIABLE NAME                      | UNITS | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------------|-------|--------------|------------|---------|--------|-------|
|                                    |       |              | MEAN       | STD DEV | MIN    | MAX   |
| Thickness of layer                 | m     | CONSTANT     | 8.99       | -999.   | -999.  | -999. |
| Longitudinal dispersivity of layer | m     | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Percent organic matter             | --    | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Bulk density of soil for layer     | g/cc  | CONSTANT     | 1.99       | -999.   | -999.  | -999. |
| Biological decay coefficient       | 1/yr  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |

CHEMICAL SPECIFIC VARIABLES

| VARIABLE NAME                           | UNITS                 | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|---|-----------------------|--------------|------------|---------|--------|-------|
|   |                       |              | MEAN       | STD DEV | MIN    | MAX   |
| Solid phase decay coefficient           | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Dissolved phase decay coefficient       | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Overall chemical decay coefficient      | 1/yr                  | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Acid catalyzed hydrolysis rate          | 1/M-yr                | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Neutral hydrolysis rate constant        | 1/yr                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Base catalyzed hydrolysis rate          | 1/M-yr                | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Reference temperature                   | C                     | CONSTANT     | 25.0       | -999.   | -999.  | -999. |
| Normalized distribution coefficient     | ml/g                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Distribution coefficient                | --                    | DERIVED      | -999.      | -999.   | -999.  | -999. |
| Biodegradation coefficient (sat. zone)  | 1/yr                  | CONSTANT     | 0.000      | -999.   | -999.  | -999. |
| Air diffusion coefficient               | cm <sup>2</sup> /s    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Reference temperature for air diffusion | C                     | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Molecular weight                        | g/M                   | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Mole fraction of solute                 | --                    | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Vapor pressure of solute                | mm Hg                 | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Henry`s law constant                    | atm-m <sup>3</sup> /M | CONSTANT     | -999.      | -999.   | -999.  | -999. |
| Overall 1st order decay sat. zone       | 1/yr                  | DERIVED      | 0.000      | 0.000   | 0.000  | 1.00  |
| Not currently used                      |                       | CONSTANT     | 0.000      | 0.000   | 0.000  | 0.000 |
| Not currently used                      |                       | CONSTANT     | 0.000      | 0.000   | 0.000  | 0.000 |

SOURCE SPECIFIC VARIABLES

| VARIABLE NAME                | UNITS          | DISTRIBUTION | PARAMETERS |         | LIMITS |       |
|------------------------------|----------------|--------------|------------|---------|--------|-------|
|                              |                |              | MEAN       | STD DEV | MIN    | MAX   |
| Infiltration rate            | m/yr           | CONSTANT     | 0.305E-01  | -999.   | -999.  | -999. |
| Area of waste disposal unit  | m <sup>2</sup> | CONSTANT     | 0.875E+04  | -999.   | -999.  | -999. |
| Duration of pulse            | yr             | DERIVED      | 0.100E-08  | -999.   | -999.  | -999. |
| Spread of contaminant source | m              | DERIVED      | -999.      | -999.   | -999.  | -999. |

|                                   |      |          |           |       |       |       |
|-----------------------------------|------|----------|-----------|-------|-------|-------|
| Recharge rate                     | m/yr | CONSTANT | 0.000     | -999. | -999. | -999. |
| Source decay constant             | 1/yr | CONSTANT | 0.250E-01 | 0.000 | 0.000 | 0.000 |
| Initial concentration at landfill | mg/l | CONSTANT | 0.265E+04 | -999. | -999. | -999. |
| Length scale of facility          | m    | DERIVED  | -999.     | -999. | -999. | -999. |
| Width scale of facility           | m    | DERIVED  | -999.     | -999. | -999. | -999. |
| Near field dilution               |      | DERIVED  | 1.00      | 0.000 | 0.000 | 1.00  |

AQUIFER SPECIFIC VARIABLES

| VARIABLE NAME                        | UNITS  | DISTRIBUTION  | PARAMETERS |         | LIMITS |       |
|--------------------------------------|--------|---------------|------------|---------|--------|-------|
|                                      |        |               | MEAN       | STD DEV | MIN    | MAX   |
| Particle diameter                    | cm     | CONSTANT      | -999.      | -999.   | -999.  | -999. |
| Aquifer porosity                     | --     | CONSTANT      | 0.300      | -999.   | -999.  | -999. |
| Bulk density                         | g/cc   | CONSTANT      | 1.86       | -999.   | -999.  | -999. |
| Aquifer thickness                    | m      | CONSTANT      | 4.57       | -999.   | -999.  | -999. |
| Source thickness (mixing zone depth) | m      | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Conductivity (hydraulic)             | m/yr   | CONSTANT      | 315.       | -999.   | -999.  | -999. |
| Gradient (hydraulic)                 |        | CONSTANT      | 0.300E-02  | -999.   | -999.  | -999. |
| Groundwater seepage velocity         | m/yr   | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Retardation coefficient              | --     | DERIVED       | -999.      | -999.   | -999.  | -999. |
| Longitudinal dispersivity            | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Transverse dispersivity              | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Vertical dispersivity                | m      | FUNCTION OF X | -999.      | -999.   | -999.  | -999. |
| Temperature of aquifer               | C      | CONSTANT      | 20.0       | -999.   | -999.  | -999. |
| pH                                   | --     | CONSTANT      | 7.00       | -999.   | -999.  | -999. |
| Organic carbon content (fraction)    |        | CONSTANT      | 0.000      | -999.   | -999.  | -999. |
| Well distance from site              | m      | CONSTANT      | 1.00       | -999.   | -999.  | -999. |
| Angle off center                     | degree | CONSTANT      | 0.000      | -999.   | -999.  | -999. |
| Well vertical distance               | m      | CONSTANT      | 0.000      | -999.   | -999.  | -999. |

MAXIMUM WELL CONCENTRATION IS 2211. AT 85.2 YEARS

\*\*\* WARNING \*\*\* Near field mixing factor is greater than 1.

Mixing factor = 1.58

# Appendix E

## Laboratory Analytical Reports



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

---

December 16, 2021

JOHN FARRELL

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: WINCHESTER 36 AD STATE 1H

Enclosed are the results of analyses for samples received by the laboratory on 12/13/21 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 1 VERTICAL @ 4' (H213589-01)**

| 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           | 12/14/2021 | ND              | 1.82 | 91.1       | 2.00          | 8.15 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND              | 1.92 | 96.0       | 2.00          | 7.14 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND              | 1.90 | 94.8       | 2.00          | 4.28 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND              | 6.42 | 107        | 6.00          | 4.73 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5680   | 16.0            | 12/14/2021 | 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            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 2 VERTICAL @ 4' (H213589-02)**

| 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           | 12/14/2021 | ND              | 1.82 | 91.1       | 2.00          | 8.15 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND              | 1.92 | 96.0       | 2.00          | 7.14 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND              | 1.90 | 94.8       | 2.00          | 4.28 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND              | 6.42 | 107        | 6.00          | 4.73 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5200   | 16.0            | 12/14/2021 | 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            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 3 VERTICAL @ 4' (H213589-03)**

| 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           | 12/14/2021 | ND              | 1.82 | 91.1       | 2.00          | 8.15 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND              | 1.92 | 96.0       | 2.00          | 7.14 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND              | 1.90 | 94.8       | 2.00          | 4.28 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND              | 6.42 | 107        | 6.00          | 4.73 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

| 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            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 4 VERTICAL @ 4' (H213589-04)**

| 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           | 12/14/2021 | ND              | 1.82 | 91.1       | 2.00          | 8.15 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND              | 1.92 | 96.0       | 2.00          | 7.14 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND              | 1.90 | 94.8       | 2.00          | 4.28 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND              | 6.42 | 107        | 6.00          | 4.73 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6320   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.0 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 5 VERTICAL @ 4' (H213589-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5200   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 6 VERTICAL @ 4' (H213589-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5120   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 7 VERTICAL @ 4' (H213589-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>4800</b> | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 12/14/2021 | ND              | 188 | 94.0       | 200           | 0.890 |           |
| <b>DRO &gt;C10-C28*</b> | <b>47.7</b> | 10.0            | 12/14/2021 | ND              | 190 | 94.9       | 200           | 2.92  |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.6 % 38.9-142

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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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 8 VERTICAL @ 4' (H213589-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5440   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.9 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 9 VERTICAL @ 4' (H213589-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6080   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.5 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 10 VERTICAL @ 4' (H213589-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6560   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.4 % 38.9-142

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 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 11 VERTICAL @ 4' (H213589-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3400   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.2 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 12 VERTICAL @ 4' (H213589-12)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 5680   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |  |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 91.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 13 VERTICAL @ 4' (H213589-13)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4800   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 38.9-142

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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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 14 VERTICAL @ 4' (H213589-14)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>4800</b> | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 97.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 15 VERTICAL @ 4' (H213589-15)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 800    | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 16 VERTICAL @ 4' (H213589-16)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2880   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 96.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 17 VERTICAL @ 4' (H213589-17)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>3160</b> | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| <b>DRO &gt;C10-C28*</b> | <b>13.8</b> | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.7 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 18 VERTICAL @ 4' (H213589-18)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6400   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.4 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 19 VERTICAL @ 4' (H213589-19)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5200   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 20 VERTICAL @ 4' (H213589-20)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3800   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.2 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 21 VERTICAL @ 4' (H213589-21)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>3760</b> | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M               |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|-------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                 | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*             | <10.0       | 10.0            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| <b>DRO &gt;C10-C28*</b> | <b>20.6</b> | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36        | <10.0       | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.3 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 22 VERTICAL @ 4' (H213589-22)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 83.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.2 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 23 VERTICAL @ 4' (H213589-23)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 752    | 16.0            | 12/14/2021 | 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            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 24 VERTICAL @ 4' (H213589-24)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.98 | 99.0       | 2.00          | 7.03 |           |
| Toluene*       | <0.050 | 0.050           | 12/14/2021 | ND               | 1.88 | 94.0       | 2.00          | 6.58 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/14/2021 | ND               | 1.90 | 94.8       | 2.00          | 6.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/14/2021 | ND               | 5.90 | 98.3       | 6.00          | 5.79 |           |
| Total BTEX     | <0.300 | 0.300           | 12/14/2021 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.2 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 25 VERTICAL @ 4' (H213589-25)**

| 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           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 26 VERTICAL @ 4' (H213589-26)**

| 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           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 5440   | 16.0            | 12/14/2021 | 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            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 38.9-142

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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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 27 VERTICAL @ 4' (H213589-27)**

| 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           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3600   | 16.0            | 12/14/2021 | 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            | 12/15/2021 | ND              | 203 | 102        | 200           | 0.750 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/15/2021 | ND              | 206 | 103        | 200           | 0.149 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/15/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.8 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - N @ 0 SURFACE (H213589-28)**

| 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           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 75.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - N @ 2' (H213589-29)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - N @ 4' (H213589-30)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - E @ 0 SURFACE (H213589-31)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 89.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 38.9-142

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - E @ 2' (H213589-32)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - E @ 4' (H213589-33)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500CI-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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.2 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - W @ 0 SURFACE (H213589-34)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.0 % 38.9-142

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**Analytical Results For:**

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - W @ 2' (H213589-35)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.1 % 38.9-142

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 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - W @ 4' (H213589-36)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

| Chloride, SM4500CI-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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.9 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - S @ 0 SURFACE (H213589-37)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.1 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - S @ 2' (H213589-38)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

| Chloride, SM4500CI-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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/09/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: BACKGROUND - S @ 4' (H213589-39)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.81 | 90.5       | 2.00          | 9.39 |           |
| Toluene*       | <0.050 | 0.050           | 12/15/2021 | ND              | 1.95 | 97.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/15/2021 | ND              | 2.00 | 99.9       | 2.00          | 7.40 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/15/2021 | ND              | 6.77 | 113        | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 12/15/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

| 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            | 12/14/2021 | 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            | 12/14/2021 | ND              | 202 | 101        | 200           | 9.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 12/14/2021 | ND              | 203 | 102        | 200           | 7.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 12/14/2021 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 JOHN FARRELL  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/10/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 1 VERTICAL @ 45' (H213589-40)**

| 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            | 12/14/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: PD - 2 VERTICAL @ 40' (H213589-41)**

| 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            | 12/14/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: PD - 4 VERTICAL @ 40' (H213589-42)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: PD - 5 VERTICAL @ 25' (H213589-43)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 6 VERTICAL @ 20' (H213589-44)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

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**Analytical Results For:**

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 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/10/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 7 VERTICAL @ 40' (H213589-45)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 496    | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 8 VERTICAL @ 25' (H213589-46)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 9 VERTICAL @ 25' (H213589-47)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 10 VERTICAL @ 50' (H213589-48)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 11 VERTICAL @ 25' (H213589-49)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

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**Analytical Results For:**

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 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/10/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 12 VERTICAL @ 25' (H213589-50)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 13 VERTICAL @ 50' (H213589-51)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 14 VERTICAL @ 50' (H213589-52)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 15 VERTICAL @ 30' (H213589-53)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 16 VERTICAL @ 16' (H213589-54)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

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 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/10/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 17 VERTICAL @ 50' (H213589-55)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 18 VERTICAL @ 40' (H213589-56)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 19 VERTICAL @ 35' (H213589-57)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 20 VERTICAL @ 50' (H213589-58)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 21 VERTICAL @ 30' (H213589-59)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

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 HOBBS NM, 88241  
 Fax To: NONE

|                   |                           |                     |                |
|-------------------|---------------------------|---------------------|----------------|
| Received:         | 12/13/2021                | Sampling Date:      | 12/10/2021     |
| Reported:         | 12/16/2021                | Sampling Type:      | Soil           |
| Project Name:     | WINCHESTER 36 AD STATE 1H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO NM    |                     |                |

**Sample ID: PD - 26 VERTICAL @ 20' (H213589-60)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: PD - 27 VERTICAL @ 30' (H213589-61)**

| 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            | 12/14/2021 | ND              | 400 | 100        | 400           | 0.00 |           |

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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

|   |  |                                |  |   |  |   |  |  |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
|---|--|--------------------------------|--|---|--|---|--|--|--|--|--|--|--|-------|--|-----------------------|--|---------|--|------|--|-----------|--|----------|--|-----|--|------|--|---|--|--|--|--|--|--|--|
| <b>Company Name:</b> Trinity Oilfield Services<br><b>Project Manager:</b> John Farrell<br><b>Address:</b> 8426 N Dal Paso<br><b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88241<br><b>Phone #:</b> 575 390 7560 <b>Fax #:</b><br><b>Project #:</b> <b>Project Owner:</b> (see below) john@trinityoilfieldservices.com<br><b>Project Name:</b> Winchester 36 AD State 1H<br><b>Project Location:</b> Eddy Co., NM<br><b>Sampler Name:</b> GR  |  |                                |  | <b>BILL TO</b><br><b>P.O. #:</b><br><b>Company:</b> Mewbourne Oil Co.<br><b>Attn:</b> Robbie Runnels<br><b>Address:</b><br><b>City:</b><br><b>State:</b> NM <b>Zip:</b><br><b>Phone #:</b><br><b>Fax #:</b> |  |   |  | <b>ANALYSIS REQUEST</b>                |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |  |                                |  | MATRIX  |  | PRESERV.  |  | SAMPLING                               |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
|   |  | (GRAB OR C/COMP. # CONTAINERS) |  | GROUNDWATER   |  | WASTEWATER  |  | SOIL                                   |  | OIL  |  | SLUDGE   |  | OTHER |  | ACID/BASE: ICE / COOL |  | OTHER : |  | DATE |  | TIME      |  | Chloride |  | TPH |  | BTEX |  |   |  |  |  |  |  |  |  |
| Lab I.D.  |  | Sample I.D.                    |  |   |  |   |  |  |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| H213589   |  |                                |  |   |  |   |  |  |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| 1   |  | PD-1 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:00     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 2   |  | PD-2 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:05     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 3   |  | PD-3 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:10     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 4   |  | PD-4 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:15     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 5   |  | PD-5 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:20     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 6   |  | PD-6 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:25     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 7   |  | PD-7 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:30     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 8   |  | PD-8 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:35     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 9   |  | PD-9 Vertical @ 4'             |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:40     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| 10  |  | PD-10 Vertical @ 4'            |  | G 1   |  |   |  | X                                      |  |  |  |  |  |       |  |                       |  |         |  |      |  | 12/9/2021 |  | 9:45     |  | X   |  | X    |  | X |  |  |  |  |  |  |  |
| <small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small> |  |                                |  |   |  |   |  |  |  |  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| <b>Relinquished By:</b><br>   |  |                                |  | <b>Date:</b> 12/13<br><b>Time:</b> 5:00   |  | <b>Received By:</b><br>   |  |  |  | <b>Verbal Result:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>                     |  | <b>Add'l Phone #:</b><br>All Results are emailed. Please provide Email address:  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| <b>Relinquished By:</b>   |  |                                |  | <b>Date:</b><br><b>Time:</b>  |  | <b>Received By:</b>   |  |  |  | <b>REMARKS:</b>  |  |  |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |
| <b>Delivered By: (Circle One)</b><br>Sampler - UPS - Bus - Other:   |  |                                |  | <b>Observed Temp. °C:</b> 30<br><b>Corrected Temp. °C:</b> 25   |  | <b>Sample Condition:</b><br>Cool Intact<br><input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | <b>CHECKED BY:</b><br>(Initials)<br>TO |  | <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |  | <b>Bacteria (only) Sample Condition:</b><br>Cool Intact Observed Temp. °C<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Corrected Temp. °C |  |       |  |                       |  |         |  |      |  |           |  |          |  |     |  |      |  |   |  |  |  |  |  |  |  |

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

|   |          |   |                           |   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
|---|----------|---|---------------------------|---|-------------|-----------------------------|------|--------------------------------------|--------|--|-----------------------|---|-------|---------------------------|----------|-----|------|--|--|--|--|--|--|
| <b>Company Name:</b> Trinity Oilfield Services  |          |   |                           | <b>BILL TO</b>  |             |                             |      | <b>ANALYSIS REQUEST</b>              |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Project Manager:</b> John Farrell  |          |   |                           | <b>P.O. #:</b>  |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Address:</b> 8426 N Dal Paso   |          |   |                           | <b>Company:</b> Mewbourne Oil Co.   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>City:</b> Hobbs  |          | <b>State:</b> NM                        |                           | <b>Zip:</b> 88241   |             | <b>Attn:</b> Robbie Runnels |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Phone #:</b> 575 390 7560  |          | <b>Fax #:</b>                           |                           | <b>Address:</b>   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Project #:</b>   |          | <b>Project Owner:</b> (see below)       |                           |   |             | <b>City:</b>                |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Project Name:</b> Winchester 36 AD State 1H  |          | <b>john@trinityoilfieldservices.com</b> |                           |   |             | <b>State:</b> NM            |      | <b>Zip:</b>                          |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Project Location:</b> Eddy Co., NM   |          |   |                           | <b>Phone #:</b>   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Sampler Name:</b> GR   |          |   |                           | <b>Fax #:</b>   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| FOR LAB USE ONLY  | H21 3589 | 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                      | Chloride | TPH | BTEX |  |  |  |  |  |  |
|   |          | 21                                      | PD-21 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 10:40 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 22                                      | PD-22 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 10:45 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 23                                      | PD-23 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 10:50 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 24                                      | PD-24 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 10:55 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 25                                      | PD-25 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 11:00 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 26                                      | PD-26 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 11:05 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 27                                      | PD-27 Vertical @ 4'       | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 11:10 | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 28                                      | Background- N @ 0 Surface | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 1:00  | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 29                                      | Background- N @ 2'        | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 1:05  | X                         | X        | X   |      |  |  |  |  |  |  |
|   |          | 30                                      | Background- N @ 4'        | G 1   |             | X                           |      |                                      |        |  |                       | 12/9/2021   | 1:10  | X                         | X        | X   |      |  |  |  |  |  |  |
| <small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small> |          |   |                           |   |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Relinquished By:</b><br>   |          |   |                           | <b>Date:</b> 12/13  |             | <b>Received By:</b><br>     |      |                                      |        | <b>Verbal Result:</b> Yes <input type="checkbox"/> No <input type="checkbox"/> |                       | <b>Add'l Phone #:</b>   |       |                           |          |     |      |  |  |  |  |  |  |
|   |          |   |                           | <b>Time:</b> 3:00   |             |                             |      |                                      |        | <b>All Results are emailed. Please provide Email address:</b>                  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Relinquished By:</b>   |          |   |                           | <b>Date:</b>  |             | <b>Received By:</b>         |      |                                      |        | <b>REMARKS:</b>  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
|   |          |   |                           | <b>Time:</b>  |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Delivered By: (Circle One)</b>   |          | <b>Observed Temp. °C</b> 3.0            |                           | <b>Sample Condition</b>   |             | <b>CHECKED BY:</b>          |      | <b>Turnaround Time:</b>              |        | <b>Standard</b> <input checked="" type="checkbox"/>                            |                       | <b>Bacteria (only) Sample Condition</b>                       |       |                           |          |     |      |  |  |  |  |  |  |
| <b>Sampler - UPS - Bus - Other:</b>   |          | <b>Corrected Temp. °C</b> 2.5           |                           | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> |             | (Initials)<br>TO            |      | <b>Rush</b> <input type="checkbox"/> |        |  |                       | Cool <input type="checkbox"/> Intact <input type="checkbox"/> |       | <b>Observed Temp. °C</b>  |          |     |      |  |  |  |  |  |  |
|   |          |   |                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                 |             |                             |      |                                      |        |  |                       | Yes <input type="checkbox"/> No <input type="checkbox"/>      |       | <b>Corrected Temp. °C</b> |          |     |      |  |  |  |  |  |  |
|   |          |   |                           | No <input type="checkbox"/> No <input type="checkbox"/>                             |             |                             |      |                                      |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
|   |          |   |                           |   |             |                             |      | <b>Thermometer ID #113</b>           |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |
|   |          |   |                           |   |             |                             |      | <b>Correction Factor -0.5 °C</b>     |        |  |                       |   |       |                           |          |     |      |  |  |  |  |  |  |

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

|   |  |                                  |  |                         |  |  |  |  |  |  |  |  |  |
|---|--|----------------------------------|--|-------------------------|--|--|--|--|--|--|--|--|--|
| Company Name: Trinity Oilfield Services |  | <b>BILL TO</b>                   |  | <b>ANALYSIS REQUEST</b> |  |  |  |  |  |  |  |  |  |
| Project Manager: John Farrell           |  | P.O. #:                          |  |                         |  |  |  |  |  |  |  |  |  |
| Address: 8426 N Dal Paso                |  | Company: Mewbourne Oil Co.       |  |                         |  |  |  |  |  |  |  |  |  |
| City: Hobbs                             |  | State: NM Zip: 88241             |  |                         |  |  |  |  |  |  |  |  |  |
| Phone #: 575 390 7560                   |  | Fax #:                           |  |                         |  |  |  |  |  |  |  |  |  |
| Project #:                              |  | Project Owner: (see below)       |  |                         |  |  |  |  |  |  |  |  |  |
| Project Name: Winchester 36 AD State 1H |  | john@trinityoilfieldservices.com |  |                         |  |  |  |  |  |  |  |  |  |
| Project Location: Eddy Co., NM          |  | City: NM Zip:                    |  |                         |  |  |  |  |  |  |  |  |  |
| Sampler Name: GR                        |  | Phone #:                         |  |                         |  |  |  |  |  |  |  |  |  |
|   |  | Fax #:                           |  |                         |  |  |  |  |  |  |  |  |  |

| FOR LAB USE ONLY |                      | (GRAB OR (C)OMP. # CONTAINERS | MATRIX      |            |      |     |        |       | PRESERV.              | SAMPLING   |      | Chloride | TPH | BTEX |  |  |  |  |  |  |  |  |      |
|------------------|----------------------|-------------------------------|-------------|------------|------|-----|--------|-------|-----------------------|------------|------|----------|-----|------|--|--|--|--|--|--|--|--|------|
| Lab I.D.         | Sample I.D.          |                               | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER | ACID/BASE: ICE / COOL | OTHER      | DATE |          |     |      |  |  |  |  |  |  |  |  | TIME |
| H21 3589<br>41   | PD-2 Vertical @ 40'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:05 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 42               | PD-4 Vertical @ 40'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:10 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 43               | PD-5 Vertical @ 25'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:15 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 44               | PD-6 Vertical @ 20'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:20 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 45               | PD-7 Vertical @ 40'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:25 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 46               | PD-8 Vertical @ 25'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:30 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 47               | PD-9 Vertical @ 25'  | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:35 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 48               | PD-10 Vertical @ 50' | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:40 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 49               | PD-11 Vertical @ 25' | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:45 | X        |     |      |  |  |  |  |  |  |  |  |      |
| 50               | PD-12 Vertical @ 25' | G 1                           |             | X          |      |     |        |       |                       | 12/10/2021 | 9:50 | X        |     |      |  |  |  |  |  |  |  |  |      |

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|                  |             |              |   |                |
|------------------|-------------|--------------|---|----------------|
| Relinquished By: | Date: 12/13 | Received By: | Verbal Result: Yes <input type="checkbox"/> No <input type="checkbox"/> | Add'l Phone #: |
|                  | Time: 3:00  |              | All Results are emailed. Please provide Email address:                  |                |
| Relinquished By: | Date:       | Received By: | REMARKS:  |                |
|                  | Time:       |              |   |                |

|                              |                       |   |                        |   |   |
|------------------------------|-----------------------|---|------------------------|---|---|
| Delivered By: (Circle One)   | Observed Temp. °C 30  | Sample Condition  | CHECKED BY: (Initials) | Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> | Bacteria (only) Sample Condition                              |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 25 | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> |                        | Thermometer ID #113   | Cool <input type="checkbox"/> Intact <input type="checkbox"/> |
|                              |                       | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                 |                        | Correction Factor -0.5 °C   | Yes <input type="checkbox"/> No <input type="checkbox"/>      |
|                              |                       |   |                        |   | Observed Temp. °C   |
|                              |                       |   |                        |   | Corrected Temp. °C  |

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

| <b>Company Name:</b> Trinity Oilfield Services   |                      |                                |             | <b>BILL TO</b>                          |      |                             |         | <b>ANALYSIS REQUEST</b>                                       |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
|--|----------------------|--------------------------------|-------------|---|------|-----------------------------|---------|---|-----------------------|-----------------|----------|---------------------------------|----------|---|------|--|--|------------------|-------------|--------------------------------|-------|--|--|--|--|--|----------|--|----------|--|----------|-----|------|-------------|------------|------|-----|---------|---------|-----------------------|---------|------|------|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|--|------------|-------|---|--|--|----|----------------------|-----|--|--|---|--|--|--|--|--|
| <b>Project Manager:</b> John Farrell   |                      |                                |             | <b>P.O. #:</b>                          |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Address:</b> 8426 N Dal Paso  |                      |                                |             | <b>Company:</b> Mawbourne Oil Co.       |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>City:</b> Hobbs   |                      | <b>State:</b> NM               |             | <b>Zip:</b> 88241                       |      | <b>Attn:</b> Robbie Runnels |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Phone #:</b> 575 390 7560   |                      | <b>Fax #:</b>                  |             | <b>Address:</b>                         |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Project #:</b>  |                      |                                |             | <b>Project Owner:</b> (see below)       |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  | <b>City:</b>     |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Project Name:</b> Winchester 36 AD State 1H   |                      |                                |             | <b>john@trinityoilfieldservices.com</b> |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  | <b>State:</b> NM |             | <b>Zip:</b>                    |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Project Location:</b> Eddy Co., NM  |                      |                                |             | <b>Phone #:</b>                         |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Sampler Name:</b> GR  |                      |                                |             | <b>Fax #:</b>                           |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>FOR LAB USE ONLY</b>  |                      |                                |             |   |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP. # CONTAINERS</th> <th colspan="6">MATRX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">Chloride</th> <th rowspan="2">TPH</th> <th rowspan="2">BTEX</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SILUDGE</th> <th>OTHER :</th> <th>ACID/BASE: ICE / COOL</th> <th>OTHER :</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>51</td> <td>PD-13 Vertical @ 50'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>9:55</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>52</td> <td>PD-14 Vertical @ 50'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:00</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>53</td> <td>PD-15 Vertical @ 30'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:05</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>54</td> <td>PD-16 Vertical @ 16'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:10</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>55</td> <td>PD-17 Vertical @ 50'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:15</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>56</td> <td>PD-18 Vertical @ 40'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:20</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>57</td> <td>PD-19 Vertical @ 35'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:25</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>58</td> <td>PD-20 Vertical @ 50'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:30</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>59</td> <td>PD-21 Vertical @ 30'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:35</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td>PD-26 Vertical @ 20'</td> <td>G 1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12/10/2021</td> <td>10:40</td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table> |                      |                                |             |   |      |                             |         |   |                       |                 |          |                                 |          |   |      |  |  | Lab I.D.         | Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS | MATRX |  |  |  |  |  | PRESERV. |  | SAMPLING |  | Chloride | TPH | BTEX | GROUNDWATER | WASTEWATER | SOIL | OIL | SILUDGE | OTHER : | ACID/BASE: ICE / COOL | OTHER : | DATE | TIME | 51 | PD-13 Vertical @ 50' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 9:55 | X |  |  | 52 | PD-14 Vertical @ 50' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:00 | X |  |  | 53 | PD-15 Vertical @ 30' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:05 | X |  |  | 54 | PD-16 Vertical @ 16' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:10 | X |  |  | 55 | PD-17 Vertical @ 50' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:15 | X |  |  | 56 | PD-18 Vertical @ 40' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:20 | X |  |  | 57 | PD-19 Vertical @ 35' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:25 | X |  |  | 58 | PD-20 Vertical @ 50' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:30 | X |  |  | 59 | PD-21 Vertical @ 30' | G 1 |  |  | X |  |  |  |  |  |  | 12/10/2021 | 10:35 | X |  |  | 60 | PD-26 Vertical @ 20' | G 1 |  |  | X |  |  |  |  |  |
| Lab I.D.   | Sample I.D.          | (G)RAB OR (C)OMP. # CONTAINERS | MATRX       |   |      |                             |         |   | PRESERV.              |                 | SAMPLING |                                 | Chloride | TPH                                     | BTEX |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
|  |                      |                                | GROUNDWATER | WASTEWATER                              | SOIL | OIL                         | SILUDGE | OTHER :   | ACID/BASE: ICE / COOL | OTHER :         | DATE     | TIME                            |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 51   | PD-13 Vertical @ 50' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 9:55     | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 52   | PD-14 Vertical @ 50' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:00    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 53   | PD-15 Vertical @ 30' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:05    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 54   | PD-16 Vertical @ 16' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:10    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 55   | PD-17 Vertical @ 50' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:15    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 56   | PD-18 Vertical @ 40' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:20    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 57   | PD-19 Vertical @ 35' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:25    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 58   | PD-20 Vertical @ 50' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:30    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 59   | PD-21 Vertical @ 30' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:35    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| 60   | PD-26 Vertical @ 20' | G 1                            |             |   | X    |                             |         |   |                       |                 |          | 12/10/2021                      | 10:40    | X                                       |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
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| <b>Relinquished By:</b>  |                      | <b>Date:</b> 12/13             |             | <b>Received By:</b>                     |      |                             |         | <b>Verbal Result:</b>   |                       | <b>Yes</b>      |          | <b>No</b>                       |          | <b>Add'l Phone #:</b>                   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
|  |                      | <b>Time:</b> 3:10              |             |   |      |                             |         | <b>All Results are emailed. Please provide Email address:</b> |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Relinquished By:</b>  |                      | <b>Date:</b>                   |             | <b>Received By:</b>                     |      |                             |         | <b>REMARKS:</b>   |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Delivered By: (Circle One)</b>  |                      | <b>Observed Temp. °C:</b> 3.0  |             | <b>Sample Condition</b>                 |      | <b>CHECKED BY:</b>          |         | <b>Turnaround Time:</b>                                       |                       | <b>Standard</b> |          | <b>X</b>                        |          | <b>Bacteria (only) Sample Condition</b> |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
| <b>Sampler - UPS - Bus - Other:</b>  |                      | <b>Corrected Temp. °C:</b> 25  |             | Cool Intact<br>Yes Yes<br>No No         |      |                             |         | <b>Rush</b>   |                       |                 |          | Cool Intact<br>Yes Yes<br>No No |          | <b>Observed Temp. °C</b>                |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
|  |                      |                                |             |   |      |                             |         | <b>Thermometer ID #113</b>                                    |                       |                 |          |                                 |          | <b>Corrected Temp. °C</b>               |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |
|  |                      |                                |             |   |      |                             |         | <b>Correction Factor -0.5 °C</b>                              |                       |                 |          |                                 |          |   |      |  |  |                  |             |                                |       |  |  |  |  |  |          |  |          |  |          |     |      |             |            |      |     |         |         |                       |         |      |      |    |                      |     |  |  |   |  |  |  |  |  |  |            |      |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |  |            |       |   |  |  |    |                      |     |  |  |   |  |  |  |  |  |

† Cardinal cannot accept verbal changes. Please email changes to coley.keene@cardinallabsnm.com





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

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January 31, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/26/22 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

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:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: NW # 1 (H220310-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 2.08 | 104        | 2.00          | 4.39 |           |
| Toluene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 1.99 | 99.6       | 2.00          | 4.42 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/29/2022 | ND               | 1.97 | 98.7       | 2.00          | 3.77 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/29/2022 | ND               | 5.95 | 99.1       | 6.00          | 3.49 |           |
| Total BTEX     | <0.300 | 0.300           | 01/29/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

| 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            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: NW # 2 (H220310-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 2.08 | 104        | 2.00          | 4.39 |           |
| Toluene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 1.99 | 99.6       | 2.00          | 4.42 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/29/2022 | ND               | 1.97 | 98.7       | 2.00          | 3.77 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/29/2022 | ND               | 5.95 | 99.1       | 6.00          | 3.49 |           |
| Total BTEX     | <0.300 | 0.300           | 01/29/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| 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            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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\*=Accredited Analyte

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 2617 W MARLAND  
 HOBBS NM, 88240  
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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: WW # 1 (H220310-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 2.08 | 104        | 2.00          | 4.39 |           |
| Toluene*       | <0.050 | 0.050           | 01/29/2022 | ND               | 1.99 | 99.6       | 2.00          | 4.42 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/29/2022 | ND               | 1.97 | 98.7       | 2.00          | 3.77 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/29/2022 | ND               | 5.95 | 99.1       | 6.00          | 3.49 |           |
| Total BTEX     | <0.300 | 0.300           | 01/29/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 416    | 16.0            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: WW # 2 (H220310-04)**

| 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           | 01/28/2022 | ND              | 2.01 | 100        | 2.00          | 9.32 |           |
| Toluene*       | <0.050 | 0.050           | 01/28/2022 | ND              | 2.18 | 109        | 2.00          | 5.72 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/28/2022 | ND              | 2.03 | 101        | 2.00          | 3.91 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/28/2022 | ND              | 6.30 | 105        | 6.00          | 3.50 |           |
| Total BTEX     | <0.300 | 0.300           | 01/28/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: WW # 3 (H220310-05)**

| 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           | 01/28/2022 | ND              | 2.01 | 100        | 2.00          | 9.32 |           |
| Toluene*       | <0.050 | 0.050           | 01/28/2022 | ND              | 2.18 | 109        | 2.00          | 5.72 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/28/2022 | ND              | 2.03 | 101        | 2.00          | 3.91 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/28/2022 | ND              | 6.30 | 105        | 6.00          | 3.50 |           |
| Total BTEX     | <0.300 | 0.300           | 01/28/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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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:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: EW # 1 (H220310-06)**

| 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           | 01/28/2022 | ND              | 2.01 | 100        | 2.00          | 9.32 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/28/2022 | ND              | 2.18 | 109        | 2.00          | 5.72 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/28/2022 | ND              | 2.03 | 101        | 2.00          | 3.91 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/28/2022 | ND              | 6.30 | 105        | 6.00          | 3.50 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/28/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| 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            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: NW # 3 (H220310-07)**

| 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           | 01/28/2022 | ND              | 2.01 | 100        | 2.00          | 9.32 |           |
| Toluene*       | <0.050 | 0.050           | 01/28/2022 | ND              | 2.18 | 109        | 2.00          | 5.72 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/28/2022 | ND              | 2.03 | 101        | 2.00          | 3.91 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/28/2022 | ND              | 6.30 | 105        | 6.00          | 3.50 |           |
| Total BTEX     | <0.300 | 0.300           | 01/28/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

| 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            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 01/26/2022                       | Sampling Date:      | 01/26/2022     |
| Reported:         | 01/31/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE -                      |                     |                |

**Sample ID: EW # 2 (H220310-08)**

| 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           | 01/28/2022 | ND              | 2.01 | 100        | 2.00          | 9.32 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/28/2022 | ND              | 2.18 | 109        | 2.00          | 5.72 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/28/2022 | ND              | 2.03 | 101        | 2.00          | 3.91 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/28/2022 | ND              | 6.30 | 105        | 6.00          | 3.50 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/28/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| Chloride, SM4500CI-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            | 01/27/2022 | 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            | 01/28/2022 | ND              | 210 | 105        | 200           | 6.76 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/28/2022 | ND              | 252 | 126        | 200           | 3.17 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/28/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |                |                |  |                         |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|---|----------------|----------------|--|-------------------------|-------------|--|------|---|--------|--|------------|----------------|--------|--|--|--------------|--|----------|----------|----------|--|--|--|--|--|--|--|--|--|--|
| Company Name: Etech Environmental & Safety Solutions, Inc.  |                |                |  | <b>BILL TO</b>          |             |  |      | <b>ANALYSIS REQUEST</b>   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Manager: <i>Lance Crenshaw</i>  |                |                |  | P.O. #:                 |             |  |      | <div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div> |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Address: 2617 West Marland  |                |                |  | Company: <i>Mewbore</i> |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| City: Hobbs   |                | State: NM      |  | Zip: 88240              |             | Attn: <i>Robbie Runnels</i>  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Phone #: (575) 264-9884   |                | Fax #:         |  | Address:                |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project #: <i>15345</i>   |                | Project Owner: |  | City:                   |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Name: <i>PWMS Derringer to winchester line</i>  |                |                |  | State:                  |             | Zip:   |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Location:   |                |                |  | Phone #:                |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <i>Aaron Rios</i>   |                |                |  | Fax #:                  |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |                |                |  |                         |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Lab I.D.  |                | Sample I.D.    |  | # CONTAINERS            | MATRIX      |  |      | PRESERV.  |        | SAMPLING   |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|   |                |                |  |                         | GROUNDWATER | WASTEWATER   | SOIL | OIL   | SLUDGE | OTHER:   | ACID/BASE: | ICE / COOL     | OTHER: | DATE   |  | TIME         |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>H220310</i>  |                |                |  |                         |             |  |      |   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>1</i>  | <i>NW # 1.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>2</i>  | <i>NW # 2.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>3</i>  | <i>WW # 1.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>4</i>  | <i>WW # 2.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>5</i>  | <i>WW # 3.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>6</i>  | <i>EW # 1.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>7</i>  | <i>NW # 3.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>8</i>  | <i>EW # 2.</i> |                |  | <i>X</i>                | <i>X</i>    |  |      |   |        |  | <i>X</i>   |                |        | <i>1-26-22</i>   |  |              |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
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| Relinquished By: <i>Aaron Rios</i>  |                |                |  | Date: <i>1-26-22</i>    |             | Received By: <i>Amara Odeke</i>  |      | Time: <i>1622</i>   |        | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |            | Add'l Phone #: |        | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | Add'l Fax #: |  | REMARKS: |          |          |  |  |  |  |  |  |  |  |  |  |
| Relinquished By:  |                |                |  | Date:                   |             | Received By:   |      | Time:   |        | Please email copy of COC and results to pm@etechenv.com.               |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Delivered By: (Circle One) <i>2.30</i>  |                |                |  | <i>C-0.50</i>           |             | Sample Condition   |      | CHECKED BY: <i>JO</i>   |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:  |                |                |  | <i>1.80 #13</i>         |             | Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |      | Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |        |  |            |                |        |  |  |              |  |          |          |          |  |  |  |  |  |  |  |  |  |  |



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February 04, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/01/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: SW # 1 (H220387-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.97 | 98.6       | 2.00          | 10.9 |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.91 | 95.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND               | 1.86 | 93.2       | 2.00          | 11.6 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND               | 5.62 | 93.7       | 6.00          | 11.6 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 02/03/2022 | 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            | 02/03/2022 | ND              | 219 | 109        | 200           | 0.879 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 223 | 112        | 200           | 1.38  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: EW # 3 (H220387-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.97 | 98.6       | 2.00          | 10.9 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.91 | 95.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND               | 1.86 | 93.2       | 2.00          | 11.6 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND               | 5.62 | 93.7       | 6.00          | 11.6 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 219 | 109        | 200           | 0.879 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 223 | 112        | 200           | 1.38  |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: EW # 4 (H220387-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.97 | 98.6       | 2.00          | 10.9 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.91 | 95.4       | 2.00          | 10.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND               | 1.86 | 93.2       | 2.00          | 11.6 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND               | 5.62 | 93.7       | 6.00          | 11.6 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 95.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.7 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: EW # 5 (H220387-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.97 | 98.6       | 2.00          | 10.9 |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND               | 1.91 | 95.4       | 2.00          | 10.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND               | 1.86 | 93.2       | 2.00          | 11.6 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND               | 5.62 | 93.7       | 6.00          | 11.6 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: WW # 4 (H220387-05)**

| 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           | 02/03/2022 | ND              | 1.95 | 97.7       | 2.00          | 4.97  |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND              | 2.08 | 104        | 2.00          | 0.518 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND              | 1.92 | 96.2       | 2.00          | 1.03  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND              | 5.96 | 99.4       | 6.00          | 0.695 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

| Chloride, SM4500CI-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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.9 % 59.5-142

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: WW # 5 (H220387-06)**

| 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           | 02/03/2022 | ND              | 1.95 | 97.7       | 2.00          | 4.97  |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND              | 2.08 | 104        | 2.00          | 0.518 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND              | 1.92 | 96.2       | 2.00          | 1.03  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND              | 5.96 | 99.4       | 6.00          | 0.695 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 95.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

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| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: SW # 2 (H220387-07)**

| 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           | 02/03/2022 | ND              | 1.95 | 97.7       | 2.00          | 4.97  |           |  |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND              | 2.08 | 104        | 2.00          | 0.518 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND              | 1.92 | 96.2       | 2.00          | 1.03  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND              | 5.96 | 99.4       | 6.00          | 0.695 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 94.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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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:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: SW # 3 (H220387-08)**

| 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           | 02/03/2022 | ND              | 1.95 | 97.7       | 2.00          | 4.97  |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND              | 2.08 | 104        | 2.00          | 0.518 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND              | 1.92 | 96.2       | 2.00          | 1.03  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND              | 5.96 | 99.4       | 6.00          | 0.695 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| 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            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/01/2022                       | Sampling Date:      | 02/01/2022     |
| Reported:         | 02/04/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE                        |                     |                |

**Sample ID: SW # 4 (H220387-09)**

| 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           | 02/03/2022 | ND              | 1.95 | 97.7       | 2.00          | 4.97  |           |
| Toluene*       | <0.050 | 0.050           | 02/03/2022 | ND              | 2.08 | 104        | 2.00          | 0.518 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/03/2022 | ND              | 1.92 | 96.2       | 2.00          | 1.03  |           |
| Total Xylenes* | <0.150 | 0.150           | 02/03/2022 | ND              | 5.96 | 99.4       | 6.00          | 0.695 |           |
| Total BTEX     | <0.300 | 0.300           | 02/03/2022 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/03/2022 | 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            | 02/03/2022 | ND              | 204 | 102        | 200           | 5.27 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/03/2022 | ND              | 220 | 110        | 200           | 5.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/03/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

February 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/04/22 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                                  |                     |               |
|-------------------|----------------------------------|---------------------|---------------|
| Received:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: WW # 6 (H220436-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 288    | 16.0            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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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:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: EW # 6 (H220436-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 224    | 16.0            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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

|                   |                                  |                     |               |
|-------------------|----------------------------------|---------------------|---------------|
| Received:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: NW # 4 (H220436-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| 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            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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|                   |                                  |                     |               |
|-------------------|----------------------------------|---------------------|---------------|
| Received:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: NW # 5 (H220436-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: EW # 7 (H220436-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |  |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| 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            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                                  |                     |               |
|-------------------|----------------------------------|---------------------|---------------|
| Received:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: WW # 8 (H220436-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-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            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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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:         | 02/04/2022                       | Sampling Date:      | 02/04/2022    |
| Reported:         | 02/09/2022                       | Sampling Type:      | Soil          |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact |
| Project Number:   | 15345                            | Sample Received By: | Jodi Henson   |
| Project Location: | MEWBOURNE                        |                     |               |

**Sample ID: WW # 9 (H220436-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 2.02 | 101        | 2.00          | 6.62 |           |
| Toluene*       | <0.050 | 0.050           | 02/08/2022 | ND               | 1.98 | 98.9       | 2.00          | 7.04 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/08/2022 | ND               | 2.00 | 99.8       | 2.00          | 6.49 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/08/2022 | ND               | 6.15 | 103        | 6.00          | 6.36 |           |
| Total BTEX     | <0.300 | 0.300           | 02/08/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/08/2022 | 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            | 02/08/2022 | ND              | 201 | 101        | 200           | 0.812 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/08/2022 | ND              | 222 | 111        | 200           | 0.862 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/08/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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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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Celey D. Keene, Lab Director/Quality Manager





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

March 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/11/22 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

|                  |   |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG)   |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5)                  |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

|   |   |                              |
|---|---|------------------------------|
| Etech Environmental & Safety Solutions<br>2617 W MARLAND<br>HOBBS NM, 88240 | Project: PWMS DERRINGER TO WINCHESTI<br>Project Number: 15345<br>Project Manager: LANCE CRENSHAW<br>Fax To: | Reported:<br>18-Mar-22 14:19 |
|---|---|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|-----------|---------------|--------|-----------------|-----------------|
| SW # 7    | H220555-01    | Soil   | 11-Feb-22 00:00 | 11-Feb-22 15:05 |
| SW # 8    | H220555-02    | Soil   | 11-Feb-22 00:00 | 11-Feb-22 15:05 |
| WW # 11   | H220555-03    | Soil   | 11-Feb-22 00:00 | 11-Feb-22 15:05 |

03/18/22 - Client changed the sample ID of -03. This is the revised report and will replace the one sent on 02/15/22.

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**Analytical Results For:**

|   |   |                              |
|---|---|------------------------------|
| Etech Environmental & Safety Solutions<br>2617 W MARLAND<br>HOBBS NM, 88240 | Project: PWMS DERRINGER TO WINCHESTI<br>Project Number: 15345<br>Project Manager: LANCE CRENSHAW<br>Fax To: | Reported:<br>18-Mar-22 14:19 |
|---|---|------------------------------|

**SW # 7  
H220555-01 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories**

**Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>80.0</b> |  | 16.0 | mg/kg | 4 | 2021501 | GM | 15-Feb-22 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |     |           |       |  |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |

|                                       |  |  |       |          |  |         |     |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|-----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 103 % | 69.9-140 |  | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|-----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |

|                           |  |  |        |          |  |         |    |           |       |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 96.9 % | 66.9-136 |  | 2021406 | CK | 14-Feb-22 | 8015B |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 111 % | 59.5-142 |  | 2021406 | CK | 14-Feb-22 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
2617 W MARLAND  
HOBBS NM, 88240

Project: PWMS DERRINGER TO WINCHESTI  
Project Number: 15345  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
18-Mar-22 14:19

**SW # 8****H220555-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 64.0 |  | 16.0 | mg/kg | 4 | 2021501 | GM | 15-Feb-22 | 4500-CI-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |     |           |       |  |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |

|                                       |  |  |       |          |  |         |     |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|-----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 102 % | 69.9-140 |  | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|-----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 14-Feb-22 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 103 % | 66.9-136 |  | 2021406 | CK | 14-Feb-22 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 117 % | 59.5-142 |  | 2021406 | CK | 14-Feb-22 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
2617 W MARLAND  
HOBBS NM, 88240

Project: PWMS DERRINGER TO WINCHESTI  
Project Number: 15345  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
18-Mar-22 14:19

**WW # 11****H220555-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>112</b> |  | 16.0 | mg/kg | 4 | 2021501 | GM | 15-Feb-22 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |     |           |       |  |
|----------------|--------|--|-------|-------|----|---------|-----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |

|  |  |  |       |  |          |         |     |           |       |  |
|--|--|--|-------|--|----------|---------|-----|-----------|-------|--|
| <i>Surrogate: 4-Bromofluorobenzene (PID)</i> |  |  | 102 % |  | 69.9-140 | 2021404 | MS/ | 14-Feb-22 | 8021B |  |
|--|--|--|-------|--|----------|---------|-----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 15-Feb-22 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 15-Feb-22 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 2021406 | CK | 15-Feb-22 | 8015B |  |

|                                  |  |  |       |  |          |         |    |           |       |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctane</i> |  |  | 109 % |  | 66.9-136 | 2021406 | CK | 15-Feb-22 | 8015B |  |
|----------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                                      |  |  |       |  |          |         |    |           |       |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| <i>Surrogate: 1-Chlorooctadecane</i> |  |  | 124 % |  | 59.5-142 | 2021406 | CK | 15-Feb-22 | 8015B |  |
|--------------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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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<br>2617 W MARLAND<br>HOBBS NM, 88240 | Project: PWMS DERRINGER TO WINCHESTI<br>Project Number: 15345<br>Project Manager: LANCE CRENSHAW<br>Fax To: | Reported:<br>18-Mar-22 14:19 |
|---|---|------------------------------|

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

| Analyte                             | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|-------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| <b>Batch 2021501 - 1:4 DI Water</b> |        |                 |       |             |               |      |             |      |           |       |
| <b>Blank (2021501-BLK1)</b>         |        |                 |       |             |               |      |             |      |           |       |
| Prepared & Analyzed: 15-Feb-22      |        |                 |       |             |               |      |             |      |           |       |
| Chloride                            | ND     | 16.0            | mg/kg |             |               |      |             |      |           |       |
| <b>LCS (2021501-BS1)</b>            |        |                 |       |             |               |      |             |      |           |       |
| Prepared & Analyzed: 15-Feb-22      |        |                 |       |             |               |      |             |      |           |       |
| Chloride                            | 416    | 16.0            | mg/kg | 400         |               | 104  | 80-120      |      |           |       |
| <b>LCS Dup (2021501-BSD1)</b>       |        |                 |       |             |               |      |             |      |           |       |
| Prepared & Analyzed: 15-Feb-22      |        |                 |       |             |               |      |             |      |           |       |
| Chloride                            | 400    | 16.0            | mg/kg | 400         |               | 100  | 80-120      | 3.92 | 20        |       |

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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  
2617 W MARLAND  
HOBBS NM, 88240

Project: PWMS DERRINGER TO WINCHESTI  
Project Number: 15345  
Project Manager: LANCE CRENSHAW  
Fax To:

Reported:  
18-Mar-22 14:19

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 2021404 - Volatiles****Blank (2021404-BLK1)**

Prepared &amp; Analyzed: 14-Feb-22

|                                       |        |       |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Toluene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Ethylbenzene                          | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Total Xylenes                         | ND     | 0.150 | mg/kg |        |  |     |          |  |  |  |
| Total BTEX                            | ND     | 0.300 | mg/kg |        |  |     |          |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0518 |       | mg/kg | 0.0500 |  | 104 | 69.9-140 |  |  |  |

**LCS (2021404-BS1)**

Prepared &amp; Analyzed: 14-Feb-22

|                                       |        |       |       |        |  |      |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene                               | 1.82   | 0.050 | mg/kg | 2.00   |  | 91.1 | 85.1-114 |  |  |  |
| Toluene                               | 1.83   | 0.050 | mg/kg | 2.00   |  | 91.6 | 88.6-116 |  |  |  |
| Ethylbenzene                          | 1.80   | 0.050 | mg/kg | 2.00   |  | 90.0 | 84.4-115 |  |  |  |
| m,p-Xylene                            | 3.80   | 0.100 | mg/kg | 4.00   |  | 94.9 | 85.5-116 |  |  |  |
| o-Xylene                              | 1.82   | 0.050 | mg/kg | 2.00   |  | 91.2 | 85.2-111 |  |  |  |
| Total Xylenes                         | 5.62   | 0.150 | mg/kg | 6.00   |  | 93.7 | 86.2-113 |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0500 |       | mg/kg | 0.0500 |  | 100  | 69.9-140 |  |  |  |

**LCS Dup (2021404-BSD1)**

Prepared &amp; Analyzed: 14-Feb-22

|                                       |        |       |       |        |  |      |          |      |      |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|------|------|--|
| Benzene                               | 2.03   | 0.050 | mg/kg | 2.00   |  | 101  | 85.1-114 | 10.8 | 12.6 |  |
| Toluene                               | 2.03   | 0.050 | mg/kg | 2.00   |  | 101  | 88.6-116 | 10.2 | 13.3 |  |
| Ethylbenzene                          | 1.98   | 0.050 | mg/kg | 2.00   |  | 98.8 | 84.4-115 | 9.35 | 13.9 |  |
| m,p-Xylene                            | 4.14   | 0.100 | mg/kg | 4.00   |  | 103  | 85.5-116 | 8.55 | 13.6 |  |
| o-Xylene                              | 1.99   | 0.050 | mg/kg | 2.00   |  | 99.6 | 85.2-111 | 8.81 | 14.1 |  |
| Total Xylenes                         | 6.13   | 0.150 | mg/kg | 6.00   |  | 102  | 86.2-113 | 8.63 | 13.4 |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0499 |       | mg/kg | 0.0500 |  | 99.9 | 69.9-140 |      |      |  |

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Caley D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

|   |   |                              |
|---|---|------------------------------|
| Etech Environmental & Safety Solutions<br>2617 W MARLAND<br>HOBBS NM, 88240 | Project: PWMS DERRINGER TO WINCHESTI<br>Project Number: 15345<br>Project Manager: LANCE CRENSHAW<br>Fax To: | Reported:<br>18-Mar-22 14:19 |
|---|---|------------------------------|

**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 2021406 - General Prep - Organics**

|                               |      |      |       |                                |  |     |          |  |  |  |
|-------------------------------|------|------|-------|--------------------------------|--|-----|----------|--|--|--|
| <b>Blank (2021406-BLK1)</b>   |      |      |       | Prepared & Analyzed: 14-Feb-22 |  |     |          |  |  |  |
| GRO C6-C10                    | ND   | 10.0 | mg/kg |                                |  |     |          |  |  |  |
| DRO >C10-C28                  | ND   | 10.0 | mg/kg |                                |  |     |          |  |  |  |
| EXT DRO >C28-C36              | ND   | 10.0 | mg/kg |                                |  |     |          |  |  |  |
| Surrogate: 1-Chlorooctane     | 56.8 |      | mg/kg | 50.0                           |  | 114 | 66.9-136 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 65.1 |      | mg/kg | 50.0                           |  | 130 | 59.5-142 |  |  |  |

|                               |      |      |       |                                |  |     |          |  |  |  |
|-------------------------------|------|------|-------|--------------------------------|--|-----|----------|--|--|--|
| <b>LCS (2021406-BS1)</b>      |      |      |       | Prepared & Analyzed: 14-Feb-22 |  |     |          |  |  |  |
| GRO C6-C10                    | 202  | 10.0 | mg/kg | 200                            |  | 101 | 81.6-129 |  |  |  |
| DRO >C10-C28                  | 206  | 10.0 | mg/kg | 200                            |  | 103 | 83-129   |  |  |  |
| Total TPH C6-C28              | 408  | 10.0 | mg/kg | 400                            |  | 102 | 84.5-127 |  |  |  |
| Surrogate: 1-Chlorooctane     | 61.5 |      | mg/kg | 50.0                           |  | 123 | 66.9-136 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 68.6 |      | mg/kg | 50.0                           |  | 137 | 59.5-142 |  |  |  |

|                               |      |      |       |                                |  |      |          |      |      |  |
|-------------------------------|------|------|-------|--------------------------------|--|------|----------|------|------|--|
| <b>LCS Dup (2021406-BSD1)</b> |      |      |       | Prepared & Analyzed: 14-Feb-22 |  |      |          |      |      |  |
| GRO C6-C10                    | 198  | 10.0 | mg/kg | 200                            |  | 99.2 | 81.6-129 | 1.64 | 21.4 |  |
| DRO >C10-C28                  | 204  | 10.0 | mg/kg | 200                            |  | 102  | 83-129   | 1.06 | 17.9 |  |
| Total TPH C6-C28              | 402  | 10.0 | mg/kg | 400                            |  | 101  | 84.5-127 | 1.35 | 17.6 |  |
| Surrogate: 1-Chlorooctane     | 60.0 |      | mg/kg | 50.0                           |  | 120  | 66.9-136 |      |      |  |
| Surrogate: 1-Chlorooctadecane | 67.3 |      | mg/kg | 50.0                           |  | 135  | 59.5-142 |      |      |  |

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

---

February 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/14/22 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: EW #8 (H220568-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| 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            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 86.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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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:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: EW #9 (H220568-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| 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            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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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:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: WW #10 (H220568-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| 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            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.6 % 59.5-142

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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:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: SW #5 (H220568-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 83.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.0 % 59.5-142

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**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: SW #6 (H220568-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 59.5-142

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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:         | 02/14/2022                       | Sampling Date:      | 02/14/2022     |
| Reported:         | 02/16/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: WW #7 (H220568-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.4       | 2.00          | 12.2 |           |
| Toluene*       | <0.050 | 0.050           | 02/15/2022 | ND               | 1.81 | 90.6       | 2.00          | 10.4 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/15/2022 | ND               | 1.76 | 87.8       | 2.00          | 9.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/15/2022 | ND               | 5.49 | 91.5       | 6.00          | 9.49 |           |
| Total BTEX     | <0.300 | 0.300           | 02/15/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| 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            | 02/15/2022 | 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            | 02/15/2022 | ND              | 246 | 123        | 200           | 4.40 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 02/15/2022 | ND              | 220 | 110        | 200           | 1.39 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 02/15/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.7 % 59.5-142

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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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---

March 14, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: PWMS DERRINGER TO WINCHESTER LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/10/22 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 5' (H220972-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4480   | 16.0            | 03/11/2022 | ND              | 416 | 104        | 400           | 3.77 | QM-07     |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 10' (H220972-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4960   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 15' (H220972-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>4000</b> | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| <b>DRO &gt;C10-C28*</b> | <b>143</b> | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36        | <10.0      | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 20' (H220972-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3160   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 25' (H220972-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1060   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 1 @ 30' (H220972-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 5' (H220972-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |  |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10200  | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 10' (H220972-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/10/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/10/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/10/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3440   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 15' (H220972-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 8530   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 20' (H220972-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 7730   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 25' (H220972-11)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5120   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 30' (H220972-12)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.01 | 101        | 2.00          | 8.51 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 2.00 | 99.9       | 2.00          | 8.82 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.18 | 103        | 6.00          | 8.31 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2480   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 35' (H220972-13)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 496    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 40' (H220972-14)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 2 @ 45' (H220972-15)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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 HOBBS NM, 88240  
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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 5' (H220972-16)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6240   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 10' (H220972-17)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2160   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 15' (H220972-18)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2400   | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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 HOBBS NM, 88240  
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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 20' (H220972-19)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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 HOBBS NM, 88240  
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|                   |                                  |                     |                |
|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 25' (H220972-20)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 560    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 4.03 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 199 | 99.7       | 200           | 3.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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|-------------------|----------------------------------|---------------------|----------------|
| Received:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 30' (H220972-21)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 256    | 16.0            | 03/11/2022 | 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            | 03/11/2022 | ND              | 202 | 101        | 200           | 18.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 191 | 95.5       | 200           | 19.6 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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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:         | 03/10/2022                       | Sampling Date:      | 03/10/2022     |
| Reported:         | 03/14/2022                       | Sampling Type:      | Soil           |
| Project Name:     | PWMS DERRINGER TO WINCHESTER LIM | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15345                            | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - EDDY CO., NM         |                     |                |

**Sample ID: B.H. # 3 @ 35' (H220972-22)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS\ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 99.1       | 2.00          | 8.81 |           |
| Toluene*       | <0.050 | 0.050           | 03/11/2022 | ND               | 1.98 | 98.9       | 2.00          | 9.02 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/11/2022 | ND               | 1.97 | 98.7       | 2.00          | 9.31 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/11/2022 | ND               | 6.11 | 102        | 6.00          | 8.90 |           |
| Total BTEX     | <0.300 | 0.300           | 03/11/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 03/11/2022 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/11/2022 | ND              | 202 | 101        | 200           | 18.5 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/11/2022 | ND              | 191 | 95.5       | 200           | 19.6 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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\*=Accredited Analyte

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



**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: <i>Joel Lowry</i>  |                     |                                 |  | P.O. #:                   |              |   |     | <div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div> |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Address: 2617 W Marland   |                     |                                 |  | Company: <i>Newbourne</i> |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| City: Hobbs   |                     | State: NM                       |  | Zip: 88240                |              | Attn:   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Phone #: (575) 264-9884   |                     | Fax #:                          |  | Address:                  |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Project #: <i>15345</i>   |                     | Project Owner: <i>Newbourne</i> |  | City:                     |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Project Name: <i>PWMS Derringer to Winchester</i>   |                     |                                 |  | State:                    |              | Zip:  |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Project Location: <i>Rural Eddy Co, NM</i>  |                     |                                 |  | Phone #:                  |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Sampler Name: <i>Miguel Ramirez</i>   |                     |                                 |  | 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 |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>H220972</i>  |                     |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>1</i>  | <i>B.H.#1 @ 5'</i>  |                                 |  | <i>G</i>                  | <i>1</i>     | <i>X</i>  |     |   |        | <i>X</i>   |            |                | <i>3/10/22</i> |      | <i>X</i> | <i>X</i> | <i>X</i> |          |  |          |  |  |  |  |  |  |  |
| <i>2</i>  | <i>B.H.#1 @ 10'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>3</i>  | <i>B.H.#1 @ 15'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>4</i>  | <i>B.H.#1 @ 20'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>5</i>  | <i>B.H.#1 @ 25'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>6</i>  | <i>B.H.#1 @ 30'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>7</i>  | <i>B.H.#2 @ 5'</i>  |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>8</i>  | <i>B.H.#2 @ 10'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>9</i>  | <i>B.H.#2 @ 15'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| <i>10</i>   | <i>B.H.#2 @ 20'</i> |                                 |  |                           |              |   |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
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| Relinquished By: <i>[Signature]</i>   |                     |                                 |  | Date: <i>3/10/22</i>      |              | Received By: <i>[Signature]</i>                                     |     |   |        | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |            | Add'l Phone #: |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
|   |                     |                                 |  | Time: <i>1450</i>         |              |   |     |   |        | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   |            | Add'l Fax #:   |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Relinquished By:  |                     |                                 |  | Date:                     |              | Received By:  |     |   |        | REMARKS: <i>Rush please</i>  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
|   |                     |                                 |  | Time:                     |              |   |     |   |        | Please email results and copy of CoC to pm@etechenv.com.               |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Delivered By: (Circle One)  |                     |                                 |  | <i>21.1°C C-0.5%</i>      |              | Sample Condition  |     | CHECKED BY: (Initials)  |        | <i>Brought straight to lab from Field</i>                              |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:  |                     |                                 |  | <i>20.6°C #113</i>        |              | Cool Intact   |     | <i>TO</i>   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |
|   |                     |                                 |  |                           |              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |     |   |        |  |            |                |                |      |          |          |          |          |  |          |  |  |  |  |  |  |  |



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

|  |  |                    |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|--|--|--------------------|--|---------------------------|--------------|---------------------------------|--|---|--|--|-----|--------------------------------|---------|----------------|--|----------------|--|----------|----------|----------|--|--|--|--|--|--|--|--|--|--|
| Company Name: Etech Environmental & Safety Solutions, Inc.   |  |                    |  | <b>BILL TO</b>            |              |                                 |  | <b>ANALYSIS REQUEST</b>   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Manager: <i>Joel Lowry</i>   |  |                    |  | P.O. #:                   |              |                                 |  | Chloride<br>TPH (8015M)<br>BTEX (8021B)                             |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Address: 2617 W Marland  |  |                    |  | Company: <i>Newbourne</i> |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| City: Hobbs State: NM Zip: 88240   |  |                    |  | Attn:                     |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Phone #: (575) 264-9884 Fax #:   |  |                    |  | Address:                  |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project #: <i>15345</i> Project Owner: <i>Newbourne</i>  |  |                    |  | City:                     |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Name: <i>PWMS Derringer to Winchester</i>  |  |                    |  | State: Zip:               |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Location: <i>Rural Eddy Co, NM</i>   |  |                    |  | Phone #:                  |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <i>Miguel Ramirez</i>  |  |                    |  | Fax #:                    |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY   |  |                    |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Lab I.D.   |  | Sample I.D.        |  | G/RAB OR (C)OMP.          | # CONTAINERS | GROUNDWATER                     |  | WASTEWATER  |  | SOIL   | OIL | SLUDGE                         | OTHER : | PRESERV.       |  | SAMPLING       |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>H220972</i>   |  |                    |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>11</i>  |  | <i>B.H.2 @ 25'</i> |  | <i>G</i>                  | <i>1</i>     |                                 |  |   |  | <i>X</i>   |     |                                |         | <i>Y</i>       |  | <i>3/10/22</i> |  | <i>X</i> | <i>X</i> | <i>X</i> |  |  |  |  |  |  |  |  |  |  |
| <i>12</i>  |  | <i>B.H.2 @ 30'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>13</i>  |  | <i>B.H.2 @ 35'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>14</i>  |  | <i>B.H.2 @ 40'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>15</i>  |  | <i>B.H.2 @ 45'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>16</i>  |  | <i>B.H.3 @ 5'</i>  |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>17</i>  |  | <i>B.H.3 @ 10'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>18</i>  |  | <i>B.H.3 @ 15'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>19</i>  |  | <i>B.H.3 @ 20'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| <i>20</i>  |  | <i>B.H.3 @ 25'</i> |  |                           |              |                                 |  |   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
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| Relinquished By: <i>[Signature]</i>  |  |                    |  | Date: <i>3-10-22</i>      |              | Received By: <i>[Signature]</i> |  |   |  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |     |                                |         | Add'l Phone #: |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|  |  |                    |  | Time: <i>1450</i>         |              |                                 |  |   |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   |     |                                |         | Add'l Fax #:   |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Relinquished By:   |  |                    |  | Date:                     |              | Received By:                    |  |   |  | REMARKS: <i>Rush Please</i>  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|  |  |                    |  | Time:                     |              |                                 |  |   |  | Please email results and copy of CoC to pm@etechenv.com.               |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Delivered By: (Circle One)   |  |                    |  | <i>21.1c @ 0.5c</i>       |              |                                 |  | Sample Condition  |  |  |     | CHECKED BY: <i>[Signature]</i> |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:   |  |                    |  | <i>20.6c #113</i>         |              |                                 |  | Cool Intact   |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|  |  |                    |  |                           |              |                                 |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |
|  |  |                    |  |                           |              |                                 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |  |     |                                |         |                |  |                |  |          |          |          |  |  |  |  |  |  |  |  |  |  |



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 91764

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744   |
|   | Action Number:<br>91764                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| jnobui     | Remediation Summary and Backfill Request Accepted. Please backfill excavation per plan and provide photos and confirmation that backfill occurred in Closure Report. Please submit Closure Report to the OCD portal by April 22, 2022. | 3/22/2022      |