

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2124561009 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>70</u> (ft bgs)  |
| Did this 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 an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 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 <b>not</b> on an exploration, development, production, or storage site?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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|                |                |
|----------------|----------------|
| Incident ID    | nAPP2124561009 |
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. EngineerSignature:  Date: 2/10/2022email: cwalker@mewbourne.com Telephone: (806) 202-5281**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2124561009 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Connor Walker Title: Sr. Engineer  
Signature:  Date: 2/10/2022  
email: cwalker@mewbourne.com Telephone: (806) 202-5281

**OCD Only**

Received by: Chad Hensley Date: 03/09/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 03/09/2022  
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

## Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Zach Temporary Frac Booster

Lea County, New Mexico

Unit Letter "M", Section 18, Township 26 South, Range 33 East

Latitude 32.036748 North, Longitude 103.617768 West

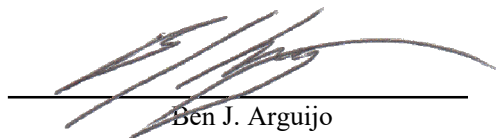
NMOCD Reference No. nAPP2124561009

Prepared By:

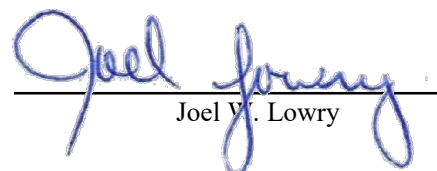
#### Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A

Lubbock, Texas 79423



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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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 & Soil Closure Request* for the release site known as the Zach Temporary Frac Booster (henceforth, "Zach Temp Booster"). Details of the release are summarized below:

| Location of Release Source   |   |                            |  |        |
|--|---|----------------------------|--|--------|
| Latitude: 32.036748  |   | Longitude: -103.617768     |  |        |
| Provided GPS are in WGS84 format.  |   |                            |  |        |
| Site Name: Zach Temporary Frac Booster   |   | Site Type: Pipeline        |  |        |
| Date Release Discovered: 8/30/2021   |   | API # (if applicable): N/A |  |        |
| Unit Letter  | Section   | Township                   | Range  | County |
| "M"  | 18  | 26S                        | 33E  | Lea    |
| Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private            (Name _____) |   |                            |  |        |
| Nature and Volume of Release   |   |                            |  |        |
| <input type="checkbox"/> Crude Oil   | Volume Released (bbls)  |                            | Volume Recovered (bbls)  |        |
| <input checked="" type="checkbox"/> Produced Water   | Volume Released (bbls) 75   |                            | Volume Recovered (bbls) 0  |        |
|  | Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? |                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |        |
| <input type="checkbox"/> Condensate  | Volume Released (bbls)  |                            | Volume Recovered (bbls)  |        |
| <input type="checkbox"/> Natural Gas   | Volume Released (Mcf)   |                            | Volume Recovered (Mcf)   |        |
| <input type="checkbox"/> Other (describe)<br>Pipeline Liquids  | Volume/Weight Released  |                            | Volume/Weight Recovered  |        |
| Cause of Release:<br>A gasket on the discharge side of a rental booster pump failed.   |   |                            |  |        |
| Initial Response   |   |                            |  |        |
| <input checked="" type="checkbox"/> The source of the release has been stopped.  |   |                            |  |        |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.  |   |                            |  |        |
| <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices                               |   |                            |  |        |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.  |   |                            |  |        |

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

## 2.0 SITE CHARACTERIZATION

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

|   |   |  |
|---|---|--|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | 70'                                     |  |
| Did the release impact groundwater or surface water?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input 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            |

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

| Probable Depth to Groundwater | Constituent  | Laboratory Analytical Method      | Closure Criteria*† | Reclamation Standard*‡ |
|-------------------------------|--|-----------------------------------|--------------------|------------------------|
| 70'                           | 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 September 20, 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 six (6) hand-augered soil bores and/or test trenches (SP-1 through SP-7) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the soil bores/test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

A total of nine (9) delineation soil samples (SP-1 @ 4', SP-1 @ 12', SP-2 @ 4', SP-3 @ 4', SP-4 @ 2', SP-5 @ 4', SP-5 @ 8', SP-6 @ 4', and SP-7 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from less than one (1) foot below ground surface (bgs) in the area characterized by sample point SP-7 to 12 feet bgs in the area characterized by sample point SP-1. However, additional delineation was required to determine the horizontal extent of impacted soil.

The locations of the hand-augered soil bores/test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

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

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On January 3, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor 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 4, 2022, Etech collected 15 confirmation soil samples (EW 2, EW 3, EW 4, EW 5, EW 6, WW 2, WW 3, WW 4, WW 5, WW 6, FS 2 @ 4', FS 3 @ 4', FS 4 @ 6.5', FS 5 @ 4', and FS 6 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the laboratory MDL in soil sample FS 5 @ 4' to 512 mg/kg in soil sample EW 5.

On January 5, 2022, Etech collected 10 confirmation soil samples (EW 7, EW 8, EW 9, SW 1, WW 7, WW 8, WW 9, FS 7 @ 2.5', FS 8 @ 2', and FS 9 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 SW 1 to 272 mg/kg in soil sample EW 7.

On January 10, 2022, Etech collected four (4) confirmation soil samples (NW 1, EW 1, WW 1, and FS 1 @ 15') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil samples NW 1 and FS 1 @ 15' to 224 mg/kg in soil sample EW 1.

On January 13, 2022, Etech collected 11 confirmation soil samples (FS 10 @ 15', FS 11 @ 15', FS 12 @ 15', FS 13 @ 15', FS 14 @ 15', FS 15 @ 4', FS 16 @ 2', FS 17 @ 5', FS 18 @ 4.5', FS 19 @ 2.5', and FS 20 @ 1') from the floor 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 samples FS 11 @ 15', FS 12 @ 15', FS 13 @ 15', FS 14 @ 15', and FS 18 @ 4.5' to 80.0 mg/kg in soil samples FS 15 @ 4', FS 16 @ 2', FS 17 @ 5', and FS 19 @ 2.5'.

The final dimensions of the excavated area were approximately 400 feet in length, 10 to 80 feet in width, and one (1) to 15 feet in depth. During the course of remediation activities, Etech transported approximately 1,764 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,698 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

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

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

## **7.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Zach Temp Booster release site.

## **8.0 LIMITATIONS**

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

## **9.0 DISTRIBUTION**

***Mewbourne Oil Company***

*4801 Business Park Blvd.*

*Hobbs, NM 88240*

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

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

*Santa Fe, NM 87505*

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

*Bureau of Land Management*

*620 E. Greene Street*

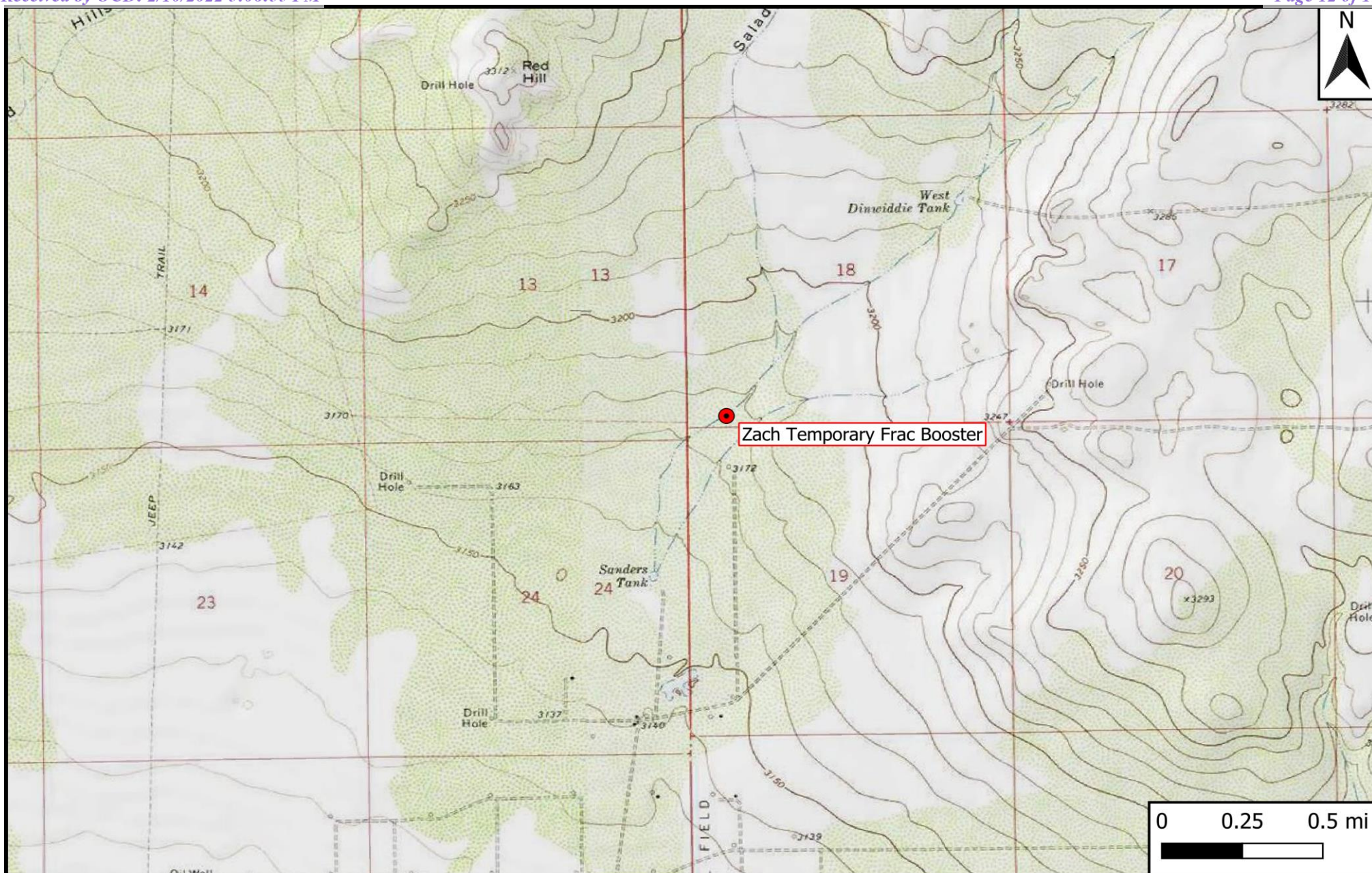
*Carlsbad, NM 88220*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**





## Legend

- Site Location

## Figure 1

Topographic Map  
 Mewbourne Oil Company  
 Zach Temporary Frac Booster  
 GPS: 32.036748, -103.617768  
 Lea County



Drafted: bja

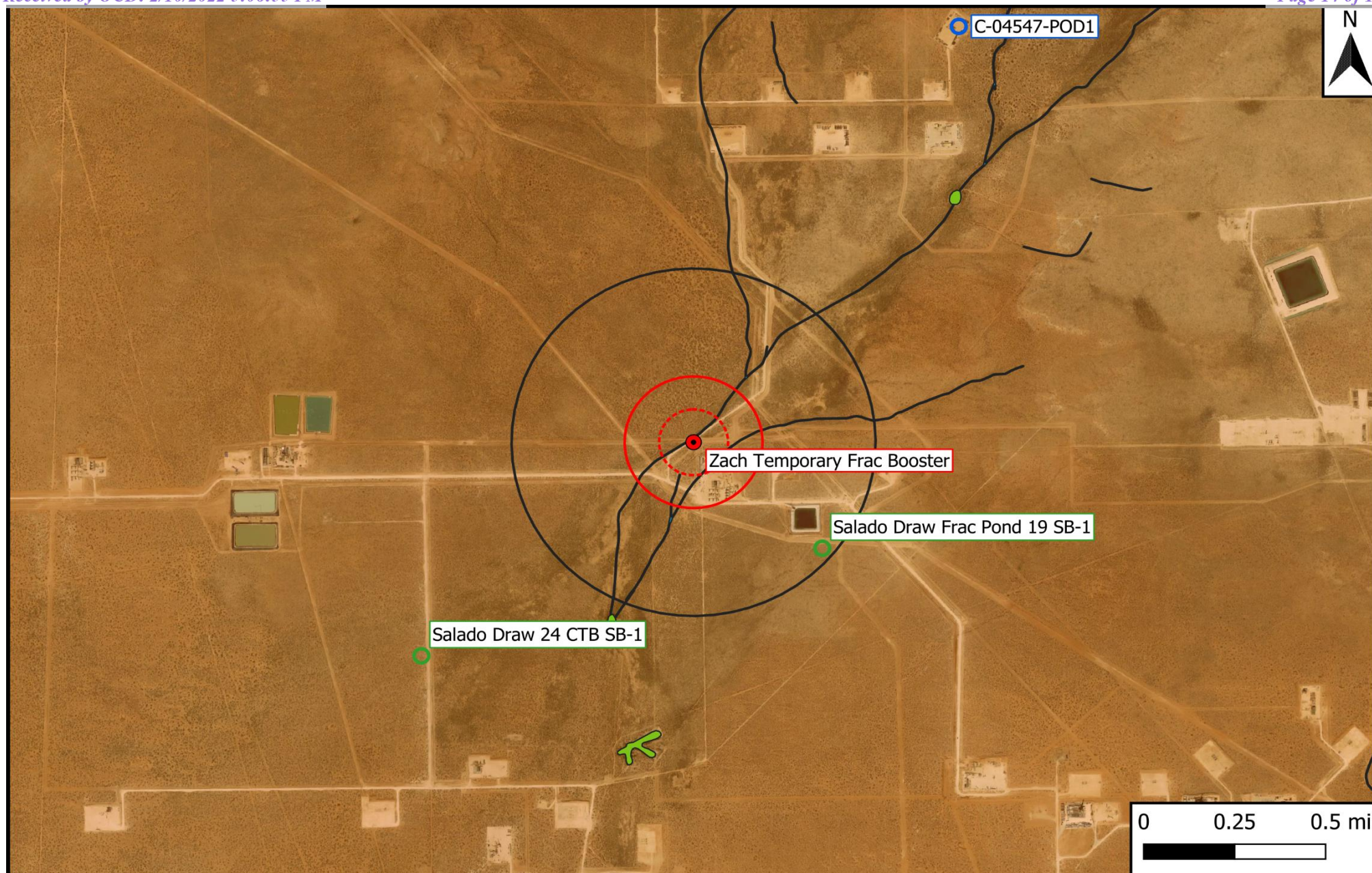
Checked: jwl

Date: 2/1/22



## **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       | Riverine                   |                 |

Figure 2

Aerial Proximity Map  
 Mewbourne Oil Company  
 Zach Temporary Frac Booster  
 GPS: 32.036748, -103.617768  
 Lea County



Drafted: bja

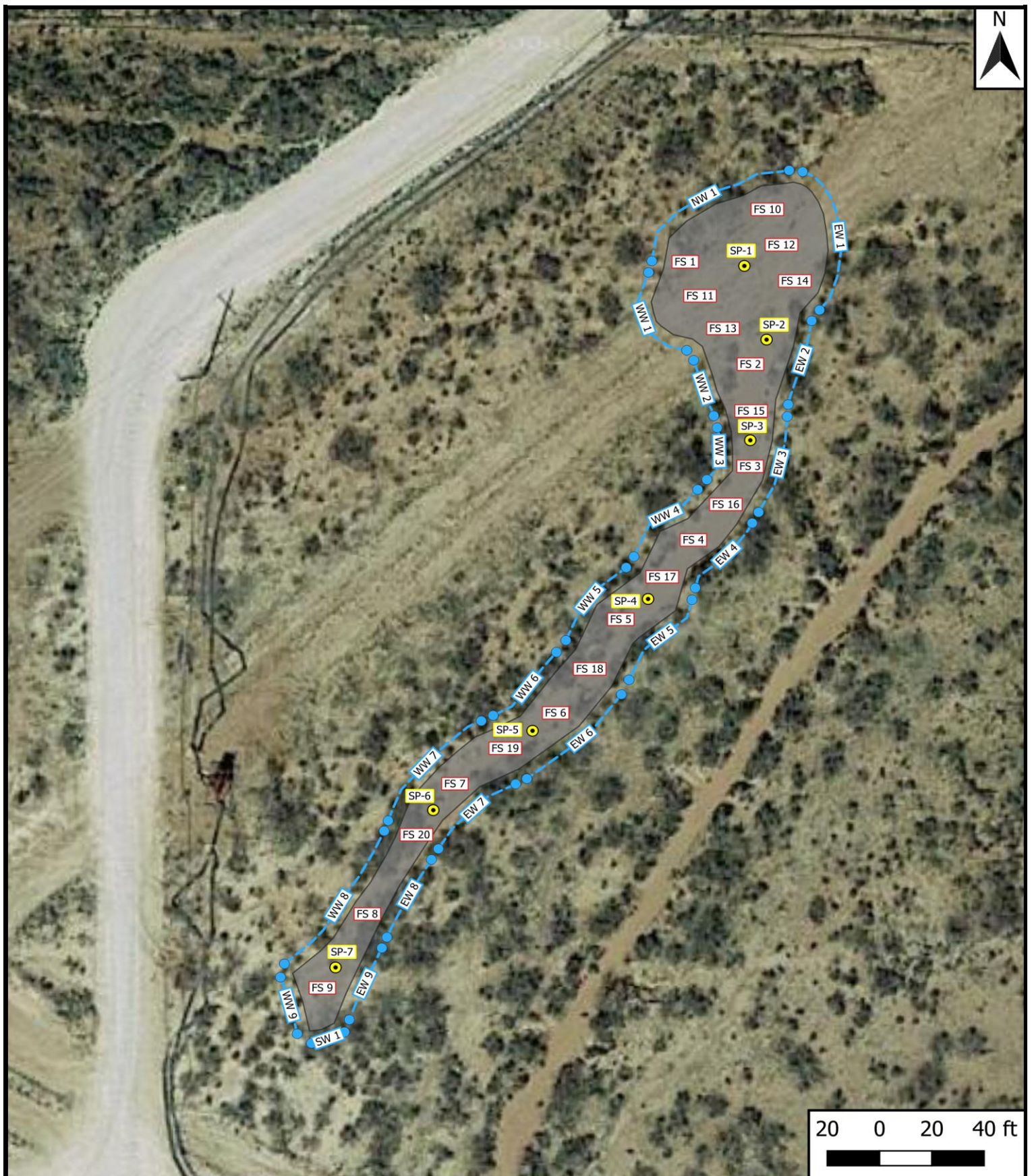
Checked: jwl

Date: 2/4/22

## **Figure 3**

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





## Legend

- Excavated Area
- Composite Floor Sample
- Composite Wall Sample
- Delineation Sample Point

## Figure 3

Site & Sample Location Map  
 Mewbourne Oil Company  
 Zach Temporary Frac Booster  
 GPS: 32.036748, -103.617768  
 Lea County



Drafted: bja

Checked: jwl

Date: 2/7/22

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**Mewbourne Oil Company**  
**Zach Temporary Frac Booster**  
**NMOCD Ref. #: nAPP2124561009**

| NMOCD Closure Criteria     |           |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
|----------------------------|-----------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Reclamation Standard |           |              |             | 10              | 50           | -   | -  | -   | -  | 100   | 600              |
| Sample ID                  | Date      | Depth (Feet) | Soil Status | SW 846 8021B    |              | SW 846 8015M Ext.                           |  |   |  |   | 4500 Cl          |
|                            |           |              |             | Benzene (mg/kg) | BTEX (mg/kg) | GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg) | DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg) | GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg) | ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg) | TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg) | Chloride (mg/kg) |
| Delineation Samples        |           |              |             |                 |              |   |  |   |  |   |                  |
| SP-1 @ 4'                  | 9/20/2021 | 4            | Excavated   | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 1,090            |
| SP-1 @ 12'                 | 9/20/2021 | 12           | Excavated   | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SP-2 @ 4'                  | 9/20/2021 | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| SP-3 @ 4'                  | 9/20/2021 | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SP-4 @ 2'                  | 9/20/2021 | 2            | Excavated   | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SP-5 @ 4'                  | 9/20/2021 | 4            | Excavated   | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 1,060            |
| SP-5 @ 8'                  | 9/20/2021 | 8            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SP-6 @ 4'                  | 9/20/2021 | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| SP-7 @ 1'                  | 9/20/2021 | 1            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| Excavation Samples         |           |              |             |                 |              |   |  |   |  |   |                  |
| NW 1                       | 1/10/2022 | 3-12         | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| EW 1                       | 1/10/2022 | 3-12         | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 224              |
| EW 2                       | 1/4/2022  | 1-3          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| EW 3                       | 1/4/2022  | 1-3          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 320              |
| EW 4                       | 1/4/2022  | 2-5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| EW 5                       | 1/4/2022  | 1-3.5        | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 512              |
| EW 6                       | 1/4/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 48.0             |
| EW 7                       | 1/5/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 272              |
| EW 8                       | 1/5/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| EW 9                       | 1/5/2022  | 0-1          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| SW 1                       | 1/5/2022  | 0-1          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| WW 1                       | 1/10/2022 | 3-12         | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 112              |
| WW 2                       | 1/4/2022  | 1-3          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| WW 3                       | 1/4/2022  | 1-3          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| WW 4                       | 1/4/2022  | 2-5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 48.0             |
| WW 5                       | 1/4/2022  | 1-3.5        | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 288              |
| WW 6                       | 1/4/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 112              |
| WW 7                       | 1/5/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| WW 8                       | 1/5/2022  | 1-2          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| WW 9                       | 1/5/2022  | 0-1          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| FS 1 @ 15'                 | 1/10/2022 | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| FS 2 @ 4'                  | 1/4/2022  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 336              |
| FS 3 @ 4'                  | 1/4/2022  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| FS 4 @ 6.5'                | 1/4/2022  | 6.5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 64.0             |
| FS 5 @ 4'                  | 1/4/2022  | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 6 @ 3'                  | 1/4/2022  | 3            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 336              |
| FS 7 @ 2.5'                | 1/5/2022  | 2.5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 32.0             |
| FS 8 @ 2'                  | 1/5/2022  | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| FS 9 @ 1'                  | 1/5/2022  | 1            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 16.0             |
| FS 10 @ 15'                | 1/13/2022 | 15           | 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.



| <b>Table 1</b><br><b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b><br><b>Mewbourne Oil Company</b><br><b>Zach Temporary Frac Booster</b><br><b>NMOCD Ref. #: nAPP2124561009</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) |
| FS 11 @ 15'  | 1/13/2022 | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 12 @ 15'  | 1/13/2022 | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 13 @ 15'  | 1/13/2022 | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 14 @ 15'  | 1/13/2022 | 15           | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 15 @ 4'   | 1/13/2022 | 4            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| FS 16 @ 2'   | 1/13/2022 | 2            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| FS 17 @ 5'   | 1/13/2022 | 5            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| FS 18 @ 4.5'   | 1/13/2022 | 4.5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | <16.0            |
| FS 19 @ 2.5'   | 1/13/2022 | 2.5          | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 80.0             |
| FS 20 @ 1'   | 1/13/2022 | 1            | In-Situ     | <0.050          | <0.300       | <10.0                                       | <10.0  | <20.0   | <10.0  | <30.0                                       | 48.0             |

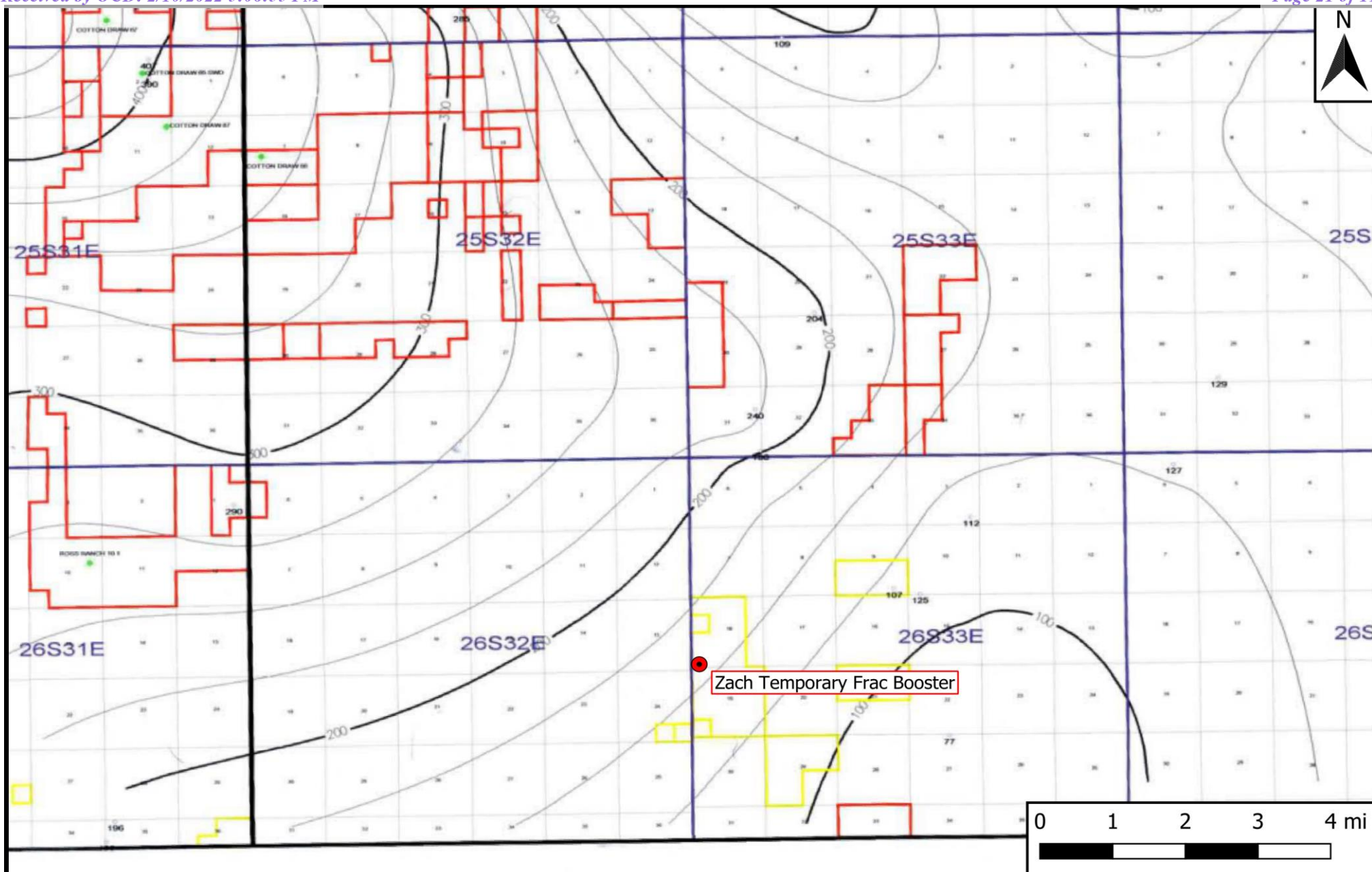
Dash (-): Not applicable OR sample not analyzed for that constituent.

**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  
 Zach Temporary Frac Booster  
 GPS: 32.036748, -103.617768  
 Lea County

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

Drafted: bja

Checked: jwl

Date: 1/31/22



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y       | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|---------|----------|-----------|------------|--------------|
| <a href="#">C_04547 POD1</a> |      | CUB           | LE     | 2    | 4    | 4   | 07  | 26S | 33E | 631686 | 3547262 | 2248     | 112       |            |              |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 630512.68

**Northing (Y):** 3545344.14

**Radius:** 2414

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

2/7/22 8:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary


|                   |              | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |                      |     |                                |     | (NAD83 UTM in meters) |         |
|-------------------|--------------|------------------------------------|-----|----------------------|-----|--------------------------------|-----|-----------------------|---------|
|                   |              | (quarters are smallest to largest) |     |                      |     |                                |     |                       |         |
| Well Tag          | POD Number   | Q64                                | Q16 | Q4                   | Sec | Tw                             | Rng | X                     | Y       |
| NA                | C 04547 POD1 | 2                                  | 4   | 4                    | 07  | 26S                            | 33E | 631686                | 3547262 |
|                   |              |                                    |     |                      |     |                                |     |                       |         |
| Driller License:  |              | 1249                               |     | Driller Company:     |     | ATKINS ENGINEERING ASSOC. INC. |     |                       |         |
| Driller Name:     |              | ATKINS, JACKIE D.UELENER           |     |                      |     |                                |     |                       |         |
|                   |              |                                    |     |                      |     |                                |     |                       |         |
| Drill Start Date: |              | 07/15/2021                         |     | Drill Finish Date:   |     | 07/15/2021                     |     | Plug Date:            |         |
| Log File Date:    |              | 08/02/2021                         |     | PCW Rcv Date:        |     |                                |     | Source: Shallow       |         |
| Pump Type:        |              |                                    |     | Pipe Discharge Size: |     |                                |     | Estimated Yield:      |         |
| Casing Size:      |              |                                    |     | Depth Well:          |     | 112 feet                       |     | Depth Water:          |         |
|                   |              |                                    |     |                      |     |                                |     |                       |         |


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


11/16/21 8:03 AM


POINT OF DIVERSION SUMMARY


| BORING RECORD |       |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|---------------|-------|--|------------------|-------------|----------------|---|---|---|----|----|----|----|----|--------|-------------|----------|---------|------------------------|--|
| GEOLOGIC UNIT | DEPTH | Start: 12:20 MDT<br>Finish: 15:40<br>DESCRIPTION LITHOLOGIC  | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    | SAMPLE |             |          | REMARKS |                        |  |
|               |       |  |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    | NUMBER | PID READING | RECOVERY | DEPTH   | BACKGROUND PID READING |  |
|               |       |  |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |        |             |          |         |                        |  |
|               | 0     | Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained  | ML               |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 6     | Quartz Sand, Poorly Sorted, Dry  |                  |             |                |   |   |   |    |    |    |    |    |        | 1           |          |         | 6                      |  |
|               | 10    | 2.5YR 5/4, Light Reddish Brown, Below 4 ft   | Caliche          |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 20    | Caliche, 7.5YR 8/2, Pinkish White, Coarse Grained, Poorly Sorted, Dry  |                  |             |                |   |   |   |    |    |    |    |    |        | 2           |          |         | 25                     |  |
|               | 25    | Silty Sand, 2.5YR 6/4, Light Reddish Brown, Fine Grained, Well Sorted, Dry   | ML               |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 30    |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 40    |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 50    | Began Injecting Water  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 55    | Caliche, 7.5YR 8/2, Pinkish White, Fine Grained, Dry   | Caliche          |             |                |   |   |   |    |    |    |    |    |        | 3           |          |         | 55                     |  |
|               | 60    |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 66    | Silty Sand, 7.5YR 4/2, Fine Grained Quartz Sand, Well Sorted, Dry  |                  |             |                |   |   |   |    |    |    |    |    |        | 4           |          |         | 66                     |  |
|               | 70    |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 80    | Note: Drilling log was extracted from "Delineation Report and Remediation Plan", dated October 26, 2020, for SD CTB Water Tank 1 (NMOCD Incident ID #nRM2010843574). | ML               |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 90    |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 100   |  |                  |             |                |   |   |   |    |    |    |    |    |        |             |          |         |                        |  |
|               | 110   | TD: 110.75'  |                  |             |                |   |   |   |    |    |    |    |    |        | 5           |          |         | 110.75                 |  |


  
 70.12'  
 Depth of Water


 ONE CONTINUOUS AUGER SAMPLER


 STANDARD PENETRATION TEST


 UNDISTURBED SAMPLE


 WATER TABLE ( 24 HRS )

 WATER TABLE ( TIME OF BORING )

 LABORATORY TEST LOCATION

 PENETROMETER ( TONS/ SQ. FT )

 NO RECOVERY



DRILL DATE :  
**04-09-2020**

BORING NUMBER :  
**SB-01**

JOB NUMBER : **Chevron/19-0180-05**  
 HOLE DIAMETER : **2"**  
 LOCATION : **Salado Draw Frac Pond 19**  
 LAI GEOLOGIST : **E. Chavez**  
 DRILLING CONTRACTOR : **Scarborough**  
 DRILLING METHOD : **Air Rotary**

## BORING RECORD

| GEOLOGIC UNIT | DEPTH | Start: 10:35 MDT<br>Finish: 15:15<br>DESCRIPTION LITHOLOGIC   | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    |  | SAMPLE |             |          | REMARKS |                           |  |
|---------------|-------|---|------------------|-------------|----------------|---|---|---|----|----|----|----|----|--|--------|-------------|----------|---------|---------------------------|--|
|               |       |   |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    |  | NUMBER | PID READING | RECOVERY | DEPTH   | BACKGROUND<br>PID READING |  |
|               |       |   |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |  |        |             |          |         |                           |  |
|               | 0     | Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry   | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 5     |   |                  |             |                |   |   |   |    |    |    |    |    |  |        | 1           |          |         |                           |  |
|               | 10    | Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry   |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 15    |   | Caliche          |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 20    |   |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 25    |   |                  |             |                |   |   |   |    |    |    |    |    |  |        | 2           |          |         |                           |  |
|               | 30    | Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted                       | ML               |             |                |   |   |   |    |    |    |    |    |  |        | 3           |          |         |                           |  |
|               | 35    | Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)                                     | Caliche          |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 40    |   |                  |             |                |   |   |   |    |    |    |    |    |  |        | 4           |          |         |                           |  |
|               | 45    | Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm) |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 50    |   | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 55    |   |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |
|               | 60    |   |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |         |                           |  |

☐ ONE CONTINUOUS AUGER SAMPLER

WATER TABLE ( TIME OF BORING )

☐ STANDARD PENETRATION TEST

LABORATORY TEST LOCATION

☐ UNDISTURBED SAMPLE

PENETROMETER ( TONS/ SQ. FT )

WATER TABLE ( 24 HRS )

NO RECOVERY

JOB NUMBER : Chevron/ 19-0180-01HOLE DIAMETER : 2"LOCATION : Salado Draw 24 CTBLAI GEOLOGIST : E. ChavezDRILLING CONTRACTOR : ScarboroughDRILLING METHOD : Air Rotary

Larson & Associates, Inc.  
Environmental Consultants

 DRILL DATE :  
**04-14-2020**

 BORING NUMBER :  
**SB-01**

| BORING RECORD |       |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        |    |  |
|---------------|-------|--|------------------|-------------|----------------|---|---|---|----|----|----|----|----|--|--------|-------------|----------|-------|------------------------|----|--|
| GEOLOGIC UNIT | DEPTH | Start: 10:35 MDT<br>Finish: 15:15<br>DESCRIPTION LITHOLOGIC  | DESCRIPTION USCS | GRAPHIC LOG | PID READING    |   |   |   |    |    |    |    |    |  | SAMPLE |             | REMARKS  |       |                        |    |  |
|               |       |  |                  |             | PPM X <u>1</u> |   |   |   |    |    |    |    |    |  | NUMBER | PID READING | RECOVERY | DEPTH | BACKGROUND PID READING |    |  |
|               |       |  |                  |             | 2              | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |  |        |             |          |       |                        |    |  |
|               | 65    | Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)   | ML               |             |                |   |   |   |    |    |    |    |    |  |        | 5           |          | 66    |                        |    |  |
|               | 70    |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        | 70 |  |
|               | 75    |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        | 75 |  |
|               | 80    |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        | 80 |  |
|               | 85    |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        | 85 |  |
|               | 90    | Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)   | ML               |             |                |   |   |   |    |    |    |    |    |  |        |             |          | 90    |                        |    |  |
|               | 95    |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       | 95                     |    |  |
|               | 100   |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       | 100                    |    |  |
|               | 101.5 |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             | 6        |       | 101.5                  |    |  |
|               | 105   |  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       | 105                    |    |  |
|               |       | TD:101.5'<br>Dry After 72 Hours  |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        |    |  |
|               |       | Note: Drilling log was extracted from "Delineation Report and Remediation Plan", dated April 26, 2021, for Salado Draw 13 SWD Corridor Line (NMOCD Incident ID #nAPP2036347592). |                  |             |                |   |   |   |    |    |    |    |    |  |        |             |          |       |                        |    |  |

|   |                                |   |
|---|--------------------------------|---|
| <input type="checkbox"/> ONE CONTINUOUS AUGER SAMPLER | WATER TABLE ( TIME OF BORING ) | JOB NUMBER : <u>Chevron/ 19-0180-01</u> |
| <input type="checkbox"/> STANDARD PENETRATION TEST    | LABORATORY TEST LOCATION       | HOLE DIAMETER : <u>2"</u>               |
| <input type="checkbox"/> UNDISTURBED SAMPLE           | PENETROMETER ( TONS/ SQ. FT )  | LOCATION : <u>Salado Draw 24 CTB</u>    |
| WATER TABLE ( 24 HRS )                                | NR NO RECOVERY                 | LAI GEOLOGIST : <u>E. Chavez</u>        |

|  |                                |                              |  |
|--|--------------------------------|------------------------------|--|
|  | DRILL DATE : <u>04-14-2020</u> | BORING NUMBER : <u>SB-01</u> | DRILLING CONTRACTOR : <u>Scarborough</u> |
|  |                                |                              | DRILLING METHOD : <u>Air Rotary</u>      |





## Legend

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

## Figure 5


USGS Well Proximity Map  
Mewbourne Oil Company  
Zach Temporary Frac Booster  
GPS: 32.036748, -103.617768  
Lea County



Drafted: bja

Checked: jwl

Date: 1/31/22



An official website of the United States government [Here's how you know](#)

MENU

Beta release

# 26S.33E.09.443142



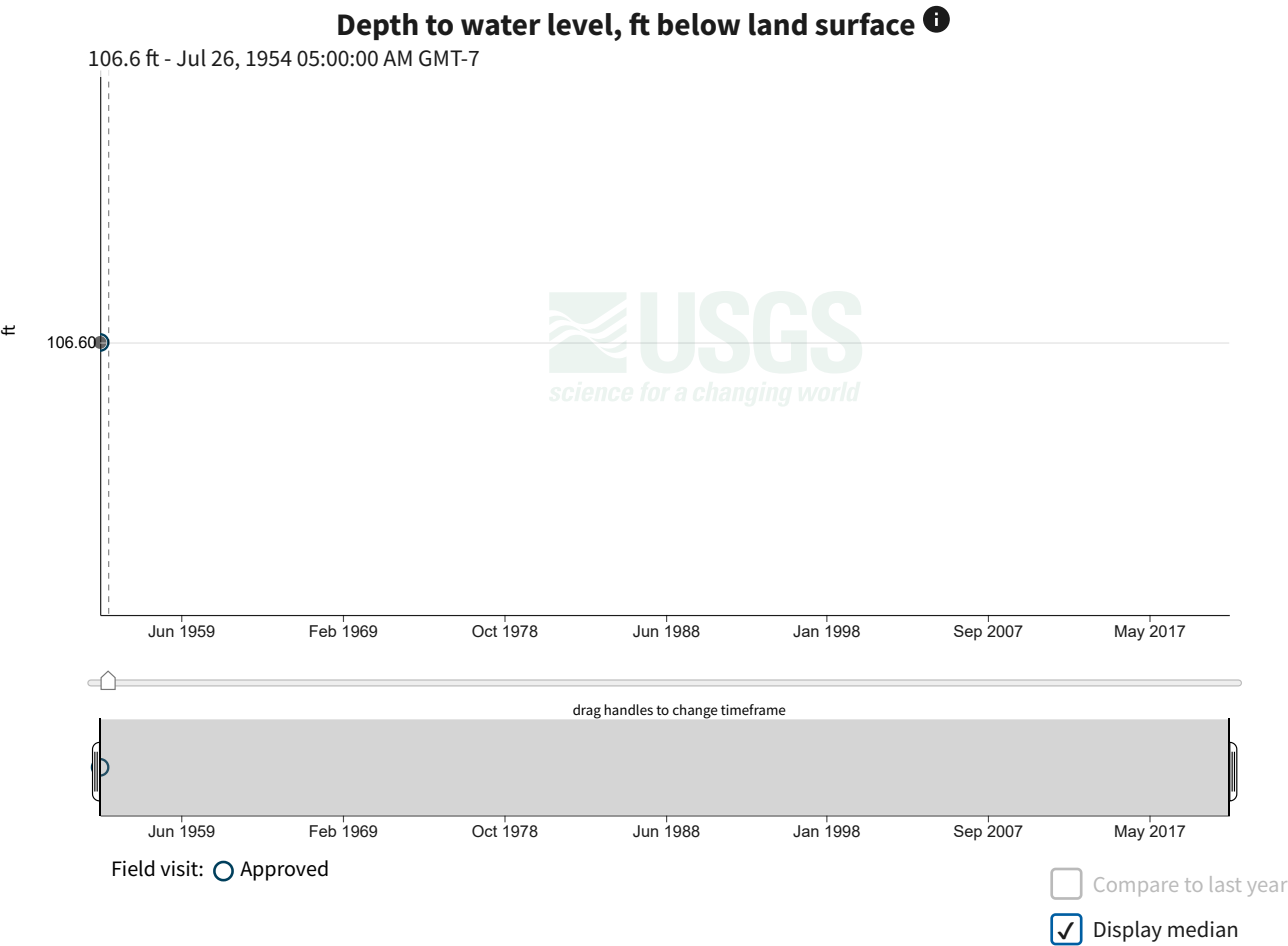
IMPORTANT [Classic Inventory Page](#) 

Monitoring location 320249103342101 is associated with a WELL in LEA COUNTY, NEW MEXICO. Water data back to 1954 are available online.

☐ 1 year ☐ 10 years ☒ Period of record

Change time span

Retrieve data



IMPORTANT Data may be provisional - [learn more](#)

## Select Data to Graph

|  |                          |
|--|--------------------------|
| <input checked="" type="radio"/> Depth to water level, feet below land surface | 1954-07-26 to 1954-07-26 |
| <input type="radio"/> Groundwater level above NAVD 1988, feet                  | 1954-07-26 to 1954-07-26 |
| <input type="radio"/> Groundwater level above NGVD 1929, feet                  | 1954-07-26 to 1954-07-26 |



## Hydrograph data table(s) —

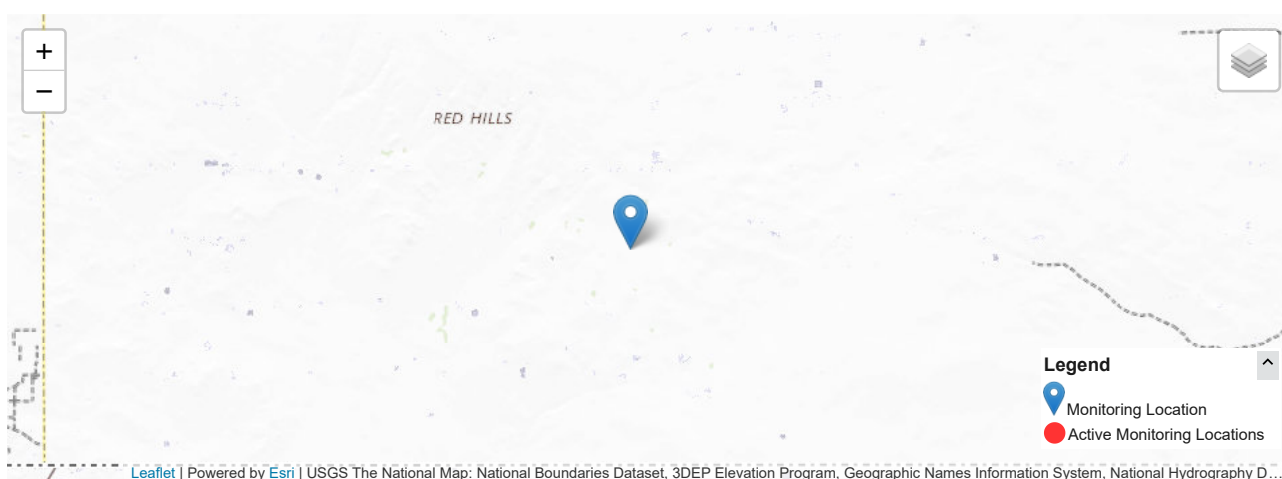
## Field visit data

| Parameter                                   | Time                   | Result | Approval |
|---|------------------------|--------|----------|
| Depth to water level, ft below land surface | 1954-07-26T05:00-07:00 | 106.60 | Approved |

1

Groundwater Data **BETA** —**Why don't I see a groundwater graph?**

No groundwater level statistical daily data has been reported for this location.



[About the Network-Linked Data Index \(NLDI\).](#)

Affiliated Networks **BETA** —

[NWIS Monitoring Locations](#)

## Summary of All Available Data —

| USGS Parameter Group | Data Types         | Start Date | End Date   |
|----------------------|--------------------|------------|------------|
| Physical             | Groundwater Levels | 1954-07-26 | 1954-07-26 |

[Classic Water Data for the Nation Inventory.](#)

## Location Metadata +

Questions or Comments

DOI Privacy Policy | Legal | Accessibility | Site Map | Contact USGS Follow

U.S. Department of the Interior | DOI Inspector General | White House | E-gov | No Fear Act | FOIA

## **Appendix B**

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



# Sample Log

Date: 12-3-21

Project: Zach Temp Fine Booster  
Zach 1-7 WQMD Fed 2H

Project Number: 15065 Latitude: 32.036748 Longitude: -103.617768

| Sample ID                | PID/Odor | Chloride Conc.    | GPS |
|--------------------------|----------|-------------------|-----|
| EW2                      | -        | 1888-840-228      |     |
| WW2                      | -        | 128               |     |
| FS2e4'                   | -        | 444               |     |
| WW2+                     | -        | 148               |     |
| EW2+                     | -        | 172               |     |
| <del>WW2</del> FS15e4'   | -        | 492               |     |
| FS3e2'                   | -        | 260               |     |
| EW3                      | -        | 172               |     |
| WW3                      | -        | 228               |     |
| <del>WW3</del> FS11e2'   | -        | 228               |     |
| EW3+                     | -        | 364               |     |
| WW3+                     | -        | 444               |     |
| FS4e2':FS4e4':FS4e6 1/2' | -        | 908-984-228       |     |
| EW4                      | -        | 1060-172          |     |
| WW4                      | -        | 200               |     |
| <del>WW4</del> FS17e6'   | -        | 128               |     |
| <del>WW4</del> FS18e5'   | -        | 200               |     |
| <del>WW4</del> FS18e5'   | -        | 516               |     |
| FS5e2':FS5e5'            | -        | 1072-204          |     |
| EW5                      | -        | 172               |     |
| WW5                      | -        | 992-468           |     |
| <del>WW5</del> FS15e5'   | -        | 304               |     |
| EW5+                     | -        | 516               |     |
| <del>WW5</del> FS19e3'   | -        | 236               |     |
| FS8e3'                   | -        | 516               |     |
| EW6                      | -        | 1072-672-304      |     |
| WW6                      | -        | 872-1072-1152-384 |     |
| <del>WW6</del> FS20e1'   | -        | 120               |     |
| <del>WW6</del> FS20e1'   | -        | 236               |     |
| WW6+                     | -        | 172               |     |
| FS7e2 1/2'               | -        | 204               |     |
| EW7                      | -        | 468               |     |
| WW7                      | -        | 236               |     |
| <del>WW7</del> FS20e1'   | -        | 268               |     |
| EW7+                     | -        | 304               |     |
| WW7+                     | -        | 336               |     |

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

## Sample Log

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

Project: Zach Temp Free Booster

Project Number: 15065

Latitude: 32.036748

Longitude: -103.617768

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

2 Lords

**Test Trench = TT #1 @ ##**

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas





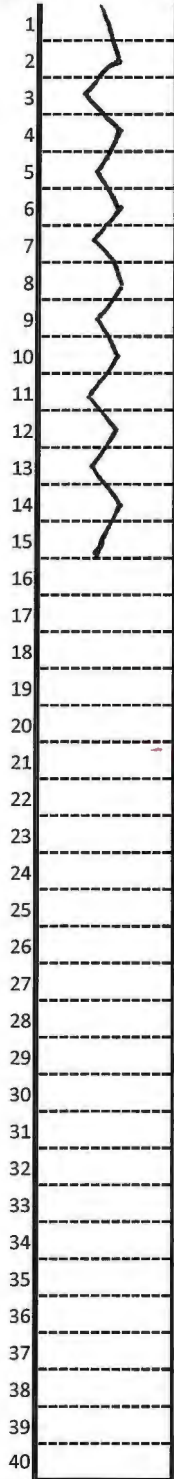
Soil Profile

Date: 1-10-22

Project: Zach Temp Pro-Booster  
Zach 1-7 W0MD Fed 2H

Project Number: 15065      Latitude: 32.036748      Longitude: -103.617768

Depth (ft. bgs)



Description


Topsoil soft loose dirt,,  
Loose sandy dirt No rocks all the way down  
Light tan colored soil

## **Appendix C**

### **Photographic Log**



## Photographic Log

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

|   |  |
|---|--|
| <b>Photo Number:</b><br>2                                   |  |
| <b>Photo Direction:</b><br>Northeast                        |  |
| <b>Photo Description:</b><br><br>View of the affected area. |  |



## Photographic Log

|   |  |
|---|--|
| <b>Photo Number:</b><br>3                                   |  |
| <b>Photo Direction:</b><br>Northeast                        |  |
| <b>Photo Description:</b><br><br>View of the affected area. |  |

|   |  |
|---|--|
| <b>Photo Number:</b><br>4                                   |  |
| <b>Photo Direction:</b><br>Northeast                        |  |
| <b>Photo Description:</b><br><br>View of the affected area. |  |



## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>5                                    |  |
| <b>Photo Direction:</b><br>East                              |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>6                                    |  |
| <b>Photo Direction:</b><br>Southeast                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |



## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>7                                    |  |
| <b>Photo Direction:</b><br>Southeast                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>8                                    |  |
| <b>Photo Direction:</b><br>South                             |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |




## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>9                                    |  |
| <b>Photo Direction:</b><br>Southwest                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>10                                   |  |
| <b>Photo Direction:</b><br>Southwest                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |




## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>11                                   |  |
| <b>Photo Direction:</b><br>Southwest                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>12                                   |  |
| <b>Photo Direction:</b><br>Northeast                         |  |
| <b>Photo Description:</b><br><br>View of the excavated area. |  |




## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>13   |  |
| <b>Photo Direction:</b><br>West  |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>14   |  |
| <b>Photo Direction:</b><br>Southwest   |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |



## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>15   |  |
| <b>Photo Direction:</b><br>Southwest   |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>16   |  |
| <b>Photo Direction:</b><br>Southwest   |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |



## Photographic Log

|  |  |
|--|--|
| <b>Photo Number:</b><br>17   |  |
| <b>Photo Direction:</b><br>Southwest   |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |

|  |  |
|--|--|
| <b>Photo Number:</b><br>18   |  |
| <b>Photo Direction:</b><br>Northeast   |  |
| <b>Photo Description:</b><br><br>View of the remediated area after backfill and regrading. |  |

## **Appendix D**

### **Laboratory Analytical Reports**



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

September 30, 2021

JOHN FARRELL

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: ZAC 1/7 W0MD FEDERAL 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/27/21 11:50.

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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 09/27/2021              | Sampling Date:      | 09/20/2021     |
| Reported:         | 09/30/2021              | Sampling Type:      | Soil           |
| Project Name:     | ZAC 1/7 W0MD FEDERAL 2H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN              | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - LEA CO NM   |                     |                |

**Sample ID: SP - 1 @ 4' (H212674-01)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 09/27/2021 | ND           | 1.81            | 90.6       | 2.00          | 8.23 |           |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND           | 1.97            | 98.6       | 2.00          | 7.51 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND           | 1.90            | 95.0       | 2.00          | 8.15 |           |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND           | 5.70            | 95.0       | 6.00          | 8.46 |           |
| Total BTX      | <0.300 | 0.300           | 09/27/2021 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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             | 1090   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND           | 211             | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND           | 209             | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND           |                 |            |               |       |           |

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.0 % 38.9-142

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:**

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

Received: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 1 @ 12' (H212674-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.81 | 90.6       | 2.00          | 8.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.97 | 98.6       | 2.00          | 7.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND              | 1.90 | 95.0       | 2.00          | 8.15 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND              | 5.70 | 95.0       | 6.00          | 8.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 09/27/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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             | 16.0   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 2 @ 4' (H212674-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.81 | 90.6       | 2.00          | 8.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.97 | 98.6       | 2.00          | 7.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND              | 1.90 | 95.0       | 2.00          | 8.15 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND              | 5.70 | 95.0       | 6.00          | 8.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 09/27/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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             | <16.0  | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 3 @ 4' (H212674-04)**

| 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           | 09/27/2021 | ND              | 1.81 | 90.6       | 2.00          | 8.23 |           |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.97 | 98.6       | 2.00          | 7.51 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND              | 1.90 | 95.0       | 2.00          | 8.15 |           |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND              | 5.70 | 95.0       | 6.00          | 8.46 |           |
| Total BTEX     | <0.300 | 0.300           | 09/27/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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             | 16.0   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 4 @ 2' (H212674-05)**

| 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           | 09/27/2021 | ND           | 1.81            | 90.6       | 2.00          | 8.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND           | 1.97            | 98.6       | 2.00          | 7.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND           | 1.90            | 95.0       | 2.00          | 8.15 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND           | 5.70            | 95.0       | 6.00          | 8.46 |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/27/2021 | ND           |                 |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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             | 16.0   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 5 @ 4' (H212674-06)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.81 | 90.6       | 2.00          | 8.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.97 | 98.6       | 2.00          | 7.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND              | 1.90 | 95.0       | 2.00          | 8.15 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND              | 5.70 | 95.0       | 6.00          | 8.46 |           |  |
| Total BTX      | <0.300 | 0.300           | 09/27/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 5 @ 8' (H212674-07)**

| 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           | 09/27/2021 | ND           | 1.81            | 90.6       | 2.00          | 8.23 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND           | 1.97            | 98.6       | 2.00          | 7.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND           | 1.90            | 95.0       | 2.00          | 8.15 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND           | 5.70            | 95.0       | 6.00          | 8.46 |           |  |
| Total BTEx     | <0.300 | 0.300           | 09/27/2021 | ND           |                 |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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             | 16.0   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.8 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 6 @ 4' (H212674-08)**

| 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           | 09/27/2021 | ND              | 1.81 | 90.6       | 2.00          | 8.23 |           |
| Toluene*       | <0.050 | 0.050           | 09/27/2021 | ND              | 1.97 | 98.6       | 2.00          | 7.51 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/27/2021 | ND              | 1.90 | 95.0       | 2.00          | 8.15 |           |
| Total Xylenes* | <0.150 | 0.150           | 09/27/2021 | ND              | 5.70 | 95.0       | 6.00          | 8.46 |           |
| Total BTEx     | <0.300 | 0.300           | 09/27/2021 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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             | 16.0   | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.2 % 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: 09/27/2021  
 Reported: 09/30/2021  
 Project Name: ZAC 1/7 W0MD FEDERAL 2H  
 Project Number: NONE GIVEN  
 Project Location: MEWBOURNE - LEA CO NM

Sampling Date: 09/20/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 7 @ 1' (H212674-09)**

| 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           | 09/28/2021 | ND              | 1.91 | 95.3       | 2.00          | 6.43 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/28/2021 | ND              | 1.97 | 98.5       | 2.00          | 3.89 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/28/2021 | ND              | 1.88 | 94.2       | 2.00          | 3.39 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/28/2021 | ND              | 5.73 | 95.6       | 6.00          | 4.06 |           |  |
| Total BTEx     | <0.300 | 0.300           | 09/28/2021 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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             | <16.0  | 16.0            | 09/28/2021 | 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            | 09/28/2021 | ND              | 211 | 106        | 200           | 1.69  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/28/2021 | ND              | 209 | 104        | 200           | 0.626 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/28/2021 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

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Celey D. Keene, Lab Director/Quality Manager

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name: Trinity Oilfield Services & Rentals LLC      |             |                              |             | BILL TO                    |      |     |        | ANALYSIS REQUEST  |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
|--|-------------|------------------------------|-------------|----------------------------|------|-----|--------|---|-----------|------------|----------|----------|------|---|---|---|--|--|--|--|--|--|--|--|--|
| Project Manager: John Farrell                              |             |                              |             | P.O. #:                    |      |     |        | <div style="display: flex; flex-direction: column; align-items: center;"> <div>BTEX</div> <div>TPH</div> <div>Chloride</div> </div> |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Address: 8426 N Dal Paso                                   |             |                              |             | Company: Mewbourne Oil Co. |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| City: Hobbs St NM Zip 88241                                |             |                              |             | Attn: Robbie Runnels       |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Phone #: 575 390-7560 Fax #:                               |             |                              |             | Address: 701 S Cecil St    |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Project #: Project Owner: john@trinityoilfieldservices.com |             |                              |             | City: Hobbs                |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Project Name: Zac 1/7 W0MD Federal 2H                      |             |                              |             | State: NM Zip: 88240       |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Project Location: Lea County, NM                           |             |                              |             | Phone #: 5756022188        |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Sampler Name: Granville Ramsey Page 1 of 1                 |             |                              |             | Fax #:                     |      |     |        |   |           |            |          |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY   |             |                              |             | MATRIX                     |      |     |        |   | PRESERV   |            | SAMPLING |          |      |   |   |   |  |  |  |  |  |  |  |  |  |
| Lab I.D.   | Sample I.D. | GIRAB OR (C)OMP # CONTAINERS | GROUNDWATER | WASTEWATER                 | SOIL | OIL | SLUDGE | OTHER   | ACID/BASE | ICE / COOL | OTHER    | DATE     | TIME |   |   |   |  |  |  |  |  |  |  |  |  |
| H212674  | SP-1 @ 4'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:00 | X | X | X |  |  |  |  |  |  |  |  |  |
| 2  | SP-1 @ 12'  | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:05 | X | X | X |  |  |  |  |  |  |  |  |  |
| 3  | SP-2 @ 4'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:10 | X | X | X |  |  |  |  |  |  |  |  |  |
| 4  | SP-3 @ 4'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:15 | X | X | X |  |  |  |  |  |  |  |  |  |
| 5  | SP-4 @ 2'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:20 | X | X | X |  |  |  |  |  |  |  |  |  |
| 6  | SP-5 @ 4'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:25 | X | X | X |  |  |  |  |  |  |  |  |  |
| 7  | SP-5 @ 8'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:30 | X | X | X |  |  |  |  |  |  |  |  |  |
| 8  | SP-6 @ 4'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:35 | X | X | X |  |  |  |  |  |  |  |  |  |
| 9  | SP-7 @ 1'   | G 1                          |             |                            | X    |     |        |   |           | X          |          | 9/20/021 | 9:40 | X | X | X |  |  |  |  |  |  |  |  |  |

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|  |   |   |   |
|--|---|---|---|
| Relinquished By:   | Date: 9/27/21<br>Time: 11:50                    | Received By:  | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____<br>All Results are emailed. Please provide Email address: _____ |
| Relinquished By: _____   | Date: _____<br>Time: _____                      | Received By: _____  | REMARKS: _____<br><br>Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>   |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other: _____ | Observed Temp. °C 4.7<br>Corrected Temp. °C 4.2 | Sample Condition<br>Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>  | CHECKED BY: (Initials)<br>T.O.  |
| Thermometer ID: 447-113<br>Correction Factor: +0.3 °C -0.3       |   | Bacteria (only) Sample Condition<br>Cool Intact <input type="checkbox"/> Observed Temp. °C _____<br>Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C _____ |   |

↑ Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

---

January 06, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/04/22 16:30.

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, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 2 @ 4' (H220031-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.09 | 105        | 2.00          | 1.87 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 1.99 | 99.7       | 2.00          | 2.43 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 99.9       | 2.00          | 2.37 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.22 | 104        | 6.00          | 1.85 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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             | 336    | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 218 | 109        | 200           | 4.35  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 210 | 105        | 200           | 0.480 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 75.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 2 (H220031-02)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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             | 32.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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 HOBBS NM, 88240  
 Fax To:

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 2 (H220031-03)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEx     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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             | 16.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.1 % 59.5-142

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 3 @ 4' (H220031-04)**

| 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           | 01/05/2022       | ND           | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022       | ND           | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022       | ND           | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022       | ND           | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022       | ND           |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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             | 16.0   | 16.0            | 01/06/2022      | 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            | 01/05/2022      | ND           | 198 | 99.2       | 200           | 3.31 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022      | ND           | 206 | 103        | 200           | 2.54 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022      | ND           |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.4 % 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:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 3 (H220031-05)**

| BTX 8021B      |        |                 | mg/kg            |              |      |            |               |      |           |  |
|----------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|--|
|                |        |                 | Analyzed By: MS/ |              |      |            |               |      |           |  |
| Analyte        | Result | Reporting Limit | Analyzed         | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/05/2022       | ND           | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022       | ND           | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022       | ND           | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022       | ND           | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/05/2022       | ND           |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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             | 320    | 16.0            | 01/06/2022      | 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            | 01/05/2022      | ND           | 198 | 99.2       | 200           | 3.31 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022      | ND           | 206 | 103        | 200           | 2.54 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022      | ND           |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 96.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 3 (H220031-06)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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             | 32.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.5 % 59.5-142

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|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 4 @ 6.5' (H220031-07)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEx     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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             | 64.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 86.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.9 % 59.5-142

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|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 4 (H220031-08)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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             | 64.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 4 (H220031-09)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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             | 48.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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 HOBBS NM, 88240  
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|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 5 @ 4' (H220031-10)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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             | <16.0  | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 75.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.2 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 5 (H220031-11)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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             | 512    | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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**Analytical Results For:**

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 5 (H220031-12)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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Mike Snyder For 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:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 6 @ 3' (H220031-13)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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             | 336    | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.6 % 59.5-142

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**Analytical Results For:**

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 6 (H220031-14)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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             | 48.0   | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 83.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.0 % 59.5-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/04/2022             | Sampling Date:      | 01/04/2022     |
| Reported:         | 01/06/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 6 (H220031-15)**

| 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           | 01/05/2022 | ND               | 2.07 | 104        | 2.00          | 2.12 |           |
| Toluene*       | <0.050 | 0.050           | 01/05/2022 | ND               | 2.05 | 102        | 2.00          | 2.33 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/05/2022 | ND               | 2.00 | 100        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/05/2022 | ND               | 6.13 | 102        | 6.00          | 1.88 |           |
| Total BTEx     | <0.300 | 0.300           | 01/05/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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             | 112    | 16.0            | 01/06/2022 | 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            | 01/05/2022 | ND              | 198 | 99.2       | 200           | 3.31 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/05/2022 | ND              | 206 | 103        | 200           | 2.54 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/05/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.2 % 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

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

No  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

[illegible]

FORM-006  
Revision 1.0

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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-f2

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[illegible]





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January 11, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/06/22 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: FS 7 @ 2.5' (H220060-01)**

| 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           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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             | 32.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

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

|                   |                        |                     |               |
|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: EW 7 (H220060-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |
| Total BTX      | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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             | 272    | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: WW 7 (H220060-03)**

| 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           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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             | 32.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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|                   |                        |                     |               |
|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: FS 8 @ 2' (H220060-04)**

| 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           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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             | 16.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: EW 8 (H220060-05)**

| 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           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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             | 16.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: WW 8 (H220060-06)**

| 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           | 01/07/2022 | ND               | 2.02 | 101        | 2.00          | 3.51 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.91 | 95.7       | 2.00          | 3.47 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.89 | 94.7       | 2.00          | 3.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.88 | 98.0       | 6.00          | 3.97 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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             | 32.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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|-------------------|------------------------|---------------------|---------------|
| Received:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: FS 9 @ 1' (H220060-07)**

| BTX 8021B      |        |                 | mg/kg            |              |      |            |               |      |           |  |
|----------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|--|
|                |        |                 | Analyzed By: MS/ |              |      |            |               |      |           |  |
| Analyte        | Result | Reporting Limit | Analyzed         | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/07/2022       | ND           | 1.95 | 97.7       | 2.00          | 7.74 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022       | ND           | 1.90 | 95.1       | 2.00          | 7.61 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022       | ND           | 1.83 | 91.7       | 2.00          | 7.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022       | ND           | 5.59 | 93.1       | 6.00          | 7.45 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/07/2022       | ND           |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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             | 16.0   | 16.0            | 01/07/2022      | 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            | 01/07/2022      | ND           | 215 | 108        | 200           | 1.15 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022      | ND           | 196 | 98.0       | 200           | 3.19 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022      | ND           |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 112 % 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:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: EW 9 (H220060-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.95 | 97.7       | 2.00          | 7.74 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.90 | 95.1       | 2.00          | 7.61 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.83 | 91.7       | 2.00          | 7.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.59 | 93.1       | 6.00          | 7.45 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: WW 9 (H220060-09)**

| 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           | 01/07/2022 | ND               | 1.95 | 97.7       | 2.00          | 7.74 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.90 | 95.1       | 2.00          | 7.61 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.83 | 91.7       | 2.00          | 7.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.59 | 93.1       | 6.00          | 7.45 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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             | 32.0   | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 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:         | 01/06/2022             | Sampling Date:      | 01/05/2022    |
| Reported:         | 01/11/2022             | Sampling Type:      | Soil          |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact |
| Project Number:   | 15065                  | Sample Received By: | Yvonne Muniz  |
| Project Location: | MEWBOURNE - JAL NM     |                     |               |

**Sample ID: SW 1 (H220060-10)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.95 | 97.7       | 2.00          | 7.74 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/07/2022 | ND               | 1.90 | 95.1       | 2.00          | 7.61 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/07/2022 | ND               | 1.83 | 91.7       | 2.00          | 7.96 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/07/2022 | ND               | 5.59 | 93.1       | 6.00          | 7.45 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/07/2022 | ND               |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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             | <16.0  | 16.0            | 01/07/2022 | 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            | 01/07/2022 | ND              | 215 | 108        | 200           | 1.15 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/07/2022 | ND              | 196 | 98.0       | 200           | 3.19 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/07/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager







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January 12, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/10/22 16:18.

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:         | 01/10/2022             | Sampling Date:      | 01/10/2022     |
| Reported:         | 01/12/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: NW 1 (H220099-01)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 1.98 | 98.9       | 2.00          | 7.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 2.05 | 102        | 2.00          | 7.55 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/11/2022 | ND              | 2.11 | 105        | 2.00          | 5.01 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/11/2022 | ND              | 6.57 | 110        | 6.00          | 5.69 |           |  |
| Total BTEx     | <0.300 | 0.300           | 01/11/2022 | 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             | 32.0   | 16.0            | 01/11/2022 | 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            | 01/11/2022 | ND              | 235 | 117        | 200           | 5.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/11/2022 | ND              | 206 | 103        | 200           | 12.1 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.4 % 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:         | 01/10/2022             | Sampling Date:      | 01/10/2022     |
| Reported:         | 01/12/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: EW 1 (H220099-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 1.98 | 98.9       | 2.00          | 7.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 2.05 | 102        | 2.00          | 7.55 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/11/2022 | ND              | 2.11 | 105        | 2.00          | 5.01 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/11/2022 | ND              | 6.57 | 110        | 6.00          | 5.69 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/11/2022 | 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             | 224    | 16.0            | 01/11/2022 | 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            | 01/11/2022 | ND              | 235 | 117        | 200           | 5.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/11/2022 | ND              | 206 | 103        | 200           | 12.1 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.7 % 59.5-142

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

|                   |                        |                     |                |
|-------------------|------------------------|---------------------|----------------|
| Received:         | 01/10/2022             | Sampling Date:      | 01/10/2022     |
| Reported:         | 01/12/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: WW 1 (H220099-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 1.98 | 98.9       | 2.00          | 7.37 |           |
| Toluene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 2.05 | 102        | 2.00          | 7.55 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/11/2022 | ND              | 2.11 | 105        | 2.00          | 5.01 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/11/2022 | ND              | 6.57 | 110        | 6.00          | 5.69 |           |
| Total BTX      | <0.300 | 0.300           | 01/11/2022 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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            | 01/11/2022 | 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            | 01/11/2022 | ND              | 235 | 117        | 200           | 5.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/11/2022 | ND              | 206 | 103        | 200           | 12.1 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.7 % 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:         | 01/10/2022             | Sampling Date:      | 01/10/2022     |
| Reported:         | 01/12/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | Cool & Intact  |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 1 @ 15' (H220099-04)**

| 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           | 01/11/2022 | ND              | 1.98 | 98.9       | 2.00          | 7.37 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/11/2022 | ND              | 2.05 | 102        | 2.00          | 7.55 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/11/2022 | ND              | 2.11 | 105        | 2.00          | 5.01 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/11/2022 | ND              | 6.57 | 110        | 6.00          | 5.69 |           |  |
| Total BTEx     | <0.300 | 0.300           | 01/11/2022 | 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             | 32.0   | 16.0            | 01/11/2022 | 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            | 01/11/2022 | ND              | 235 | 117        | 200           | 5.24 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/11/2022 | ND              | 206 | 103        | 200           | 12.1 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/11/2022 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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

---

Celey D. Keene, Lab Director/Quality Manager



## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No  
Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1.f

Page 7 of 7

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

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January 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: ZACH TEMP FRAC BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/13/22 16:35.

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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 10 @ 15' (H220157-01)**

| 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           | 01/17/2022 | ND               | 2.07 | 103        | 2.00          | 0.666 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.02 | 101        | 2.00          | 1.49  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND               | 2.04 | 102        | 2.00          | 1.02  |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND               | 6.18 | 103        | 6.00          | 0.817 |           |
| Total BTEX     | <0.300 | 0.300           | 01/17/2022 | 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             | 16.0   | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 222 | 111        | 200           | 0.0473 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 3.32   |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |        |           |

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 11 @ 15' (H220157-02)**

| 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           | 01/17/2022 | ND               | 2.07 | 103        | 2.00          | 0.666 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.02 | 101        | 2.00          | 1.49  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND               | 2.04 | 102        | 2.00          | 1.02  |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND               | 6.18 | 103        | 6.00          | 0.817 |           |
| Total BTEx     | <0.300 | 0.300           | 01/17/2022 | 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            | 01/17/2022 | 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            | 01/17/2022 | ND              | 222 | 111        | 200           | 0.0473 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 3.32   |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |        |           |

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 12 @ 15' (H220157-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.11 | 105        | 2.00          | 2.33 | QR-03     |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.05 | 102        | 2.00          | 2.21 | QR-03     |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND               | 2.02 | 101        | 2.00          | 2.04 | QR-03     |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND               | 6.07 | 101        | 6.00          | 1.83 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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            | 01/17/2022 | 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            | 01/17/2022 | ND              | 222 | 111        | 200           | 0.0473 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 3.32   |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |        |           |

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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:         | 01/13/2022             | Sampling Date:      | 01/13/2022     |
| Reported:         | 01/18/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 13 @ 15' (H220157-04)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.11 | 105        | 2.00          | 2.33 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.05 | 102        | 2.00          | 2.21 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND               | 2.02 | 101        | 2.00          | 2.04 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND               | 6.07 | 101        | 6.00          | 1.83 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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             | <16.0  | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 14 @ 15' (H220157-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.11 | 105        | 2.00          | 2.33 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND               | 2.05 | 102        | 2.00          | 2.21 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND               | 2.02 | 101        | 2.00          | 2.04 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND               | 6.07 | 101        | 6.00          | 1.83 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.5 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 15 @ 4' (H220157-06)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 | QR-03     |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 | QR-03     |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 | QR-03     |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 | QR-03     |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | 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             | 80.0   | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 16 @ 2' (H220157-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | 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             | 80.0   | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 17 @ 5' (H220157-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | 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             | 80.0   | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 18 @ 4.5' (H220157-09)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 |           |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 |           |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | 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            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 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: 01/13/2022  
 Reported: 01/18/2022  
 Project Name: ZACH TEMP FRAC BOOSTER  
 Project Number: 15065  
 Project Location: MEWBOURNE - JAL NM

Sampling Date: 01/13/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 19 @ 2.5' (H220157-10)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 |           |  |
| Total BTX      | <0.300 | 0.300           | 01/17/2022 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 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:         | 01/13/2022             | Sampling Date:      | 01/13/2022     |
| Reported:         | 01/18/2022             | Sampling Type:      | Soil           |
| Project Name:     | ZACH TEMP FRAC BOOSTER | Sampling Condition: | ** (See Notes) |
| Project Number:   | 15065                  | Sample Received By: | Tamara Oldaker |
| Project Location: | MEWBOURNE - JAL NM     |                     |                |

**Sample ID: FS 20 @ 1' (H220157-11)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.98 | 99.2       | 2.00          | 2.71 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/17/2022 | ND              | 1.96 | 98.1       | 2.00          | 3.36 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/17/2022 | ND              | 2.00 | 100        | 2.00          | 5.84 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/17/2022 | ND              | 6.47 | 108        | 6.00          | 1.92 |           |  |
| Total BTEx     | <0.300 | 0.300           | 01/17/2022 | 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             | 48.0   | 16.0            | 01/17/2022 | 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            | 01/17/2022 | ND              | 205 | 103        | 200           | 0.726 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 01/17/2022 | ND              | 216 | 108        | 200           | 0.629 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 01/17/2022 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 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 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report                          |

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

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Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Page 14 of 15

|  |                |                   |              |                      |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
|--|----------------|-------------------|--------------|----------------------|------------|--------|-----|---|--------|------------|------------|--------|---------|------|---|---|---|--|--|--|--|--|--|--|
| Company Name: Etech Environmental & Safety Solutions, Inc. |                |                   |              | <b>BILL TO</b>       |            |        |     | <b>ANALYSIS REQUEST</b>   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Project Manager: Lance Crenshaw                            |                |                   |              | P.O. #:              |            |        |     | <div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div> |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Address: P.O. Box 301                                      |                |                   |              | Company: Mewbourne   |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| City: Lovington Hobbs State: NM Zip: 88240                 |                |                   |              | Attn: Robbie Rannels |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Phone #: (575) 396-2378 Fax #: (575) 396-1429              |                |                   |              | Address:             |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Project #: 15065 Project Owner: Robbie Rannels             |                |                   |              | City:                |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Project Name: Zach Temp Frac Booster                       |                |                   |              | State: Zip:          |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Project Location: Mewbourne Oil Company                    |                |                   |              | Phone #:             |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Sampler Name: Eric Mojica                                  |                |                   |              | Fax #:               |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| FOR LAB USE ONLY   |                |                   |              |                      |            | MATRIX |     | PRESERV.  |        | SAMPLING   |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| Lab I.D.   | Sample I.D.    | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER          | WASTEWATER | SOIL   | OIL | SLUDGE  | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE    | TIME |   |   |   |  |  |  |  |  |  |  |
| 14220157   |                |                   |              |                      |            |        |     |   |        |            |            |        |         |      |   |   |   |  |  |  |  |  |  |  |
| 01   | FS 10 @ 15'    | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        | 1-13-22 |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 02   | FS 11 @ 15'    | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 03   | FS 12 @ 15'    | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 04   | FS 13 @ 15'    | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 05   | FS 14 @ 15'    | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 06   | FS 15 @ 4'     | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 07   | FS 16 @ 2'     | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 08   | FS 17 @ 5'     | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 09   | FS 18 @ 4 1/2' | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |
| 10   | FS 19 @ 2 1/2' | C                 | 1            |                      |            | ✓      |     |   |        | ✓          |            |        |         |      | ✓ | ✓ | ✓ |  |  |  |  |  |  |  |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|                              |                             |                               |   |
|------------------------------|-----------------------------|-------------------------------|---|
| Relinquished By: Eric Mojica | Date: 1-13-22<br>Time: 1635 | Received By: Tamara Olda-Kyle | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |
| Relinquished By:             | Date:                       | Received By:                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:     |
|                              |                             |                               | REMARKS:  |
|                              |                             |                               | Please email results to pm@etechenv.com.  |

|  |  |                        |
|--|--|------------------------|
| Delivered By: (Circle One) 7.6 @ C-0.5 @ | Sample Condition   | CHECKED BY: (Initials) |
| Sampler - UPS - Bus - Other: 7.1 @ #113  | Cool Intact<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | TO                     |

FORM-006  
Revision 1.0

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



## ARDINAL LABORATORIES

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

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

No Rush

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 6

[illegible]

FORM-006  
Revision 1.0

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

**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 80806

CONDITIONS

|   |   |
|---|---|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744   |
|   | Action Number:<br>80806                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition         | Condition Date |
|------------|-------------------|----------------|
| chensley   | Closure approved. | 3/9/2022       |