

Incident ID	nAPP2219360589
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: _____

email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____



Remediation Summary & Soil Closure Request

Mewbourne Oil Company Foxhole Tank Farm

Eddy County, New Mexico
Unit Letter "H", Section 25, Township 20 South, Range 28 East
Latitude 32.5471180 North, Longitude 104.123299 West
NMOCD Reference No. nAPP2219360589

Prepared By:

Etech Environmental & Safety Solutions, Inc.
6309 Indiana Ave, Ste. D
Lubbock, Texas 79413


Ben J. Arguijo
Lance Crenshaw

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 Foxhole Tank Farm. Details of the release are summarized below:

Location of Release Source				
Latitude:	32.5471180	Longitude:	-104.123299	
Provided GPS are in WGS84 format.				
Site Name: Foxhole Tank Farm			Site Type: Pipeline	
Date Release Discovered: 6/29/2022		API # (if applicable): N/A		
Unit Letter	Section	Township	Range	County
"H"	25	20S	28E	Eddy
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) 979		Volume Recovered (bbls) 190	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: A discharge lay flat line came apart at a connection down stream of a booster pump.				
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 in 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 Foxhole Tank Farm 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?	35'	
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 Foxhole Tank Farm release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
35'	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 & PROPOSED REMEDIATION ACTIVITIES

From September 26 through October 6, 2022, 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 75 hand-augered soil bores and/or test trenches (SP-001 through SP-075) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. The sample locations were investigated to depths ranging from ground surface to 7.5 feet below ground surface (bgs). A total of 161 delineation soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride.

On January 3, 2023, based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, Mewbourne submitted a *Request for Approval of Work Plan* (henceforth, "Work Plan") to the NMOCD proposing the following remediation activities designed to advance the Foxhole Tank Farm release site toward an approved closure:

- Excavate impacted soil within the inferred release margins to depths ranging from 0.5 to 7.5 feet bgs.
- Advance the floors of the excavated area until laboratory analytical results from confirmation soil samples indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria. Advance the sidewalls of the excavated area to meet NMOCD Reclamation Standards.
- Stockpile excavated soil on-site on 6-mil plastic sheeting, pending transport to an NMOCD-permitted surface waste facility for disposal.
- Upon completion of excavation activities, collect five-point composite confirmation soil samples from the sidewalls and floors of the excavated area representing no more than 500 square feet.
- Upon receiving laboratory analytical results from confirmation soil samples, restore the affected area to the condition that existed prior to the release, to the extent practicable. Backfill the excavated area with locally sourced, non-impacted, "like" material. Compact and contour the affected areas to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Reseed affected areas not on production pads, pipeline rights-of-way, and/or lease roads with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.
- Upon completion of remediation activities, prepare a *Remediation Summary & Soil Closure Request* detailing field activities and laboratory analytical results from confirmation soil samples.

Please reference the *Work Plan*, which is available in the *NMOCD Imaging System*, for additional details regarding the initial site assessment, delineation sample point locations, laboratory analytical results, and the proposed remediation activities.

On January 19, 2023, Mewbourne contracted Etech to assume remediation activities for the release.

On January 31 and February 1, 2023, Etech, on behalf of Mewbourne, submitted additional documentation and detailed, written demonstrations to supplement the request for a 500-square-foot *Alternative Sampling Plan* proposed in the *Work Plan*. The *Alternative Sampling Plan* was subsequently approved by the NMOCD.

Copies of all regulatory correspondence are provided in Appendix E.

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 25, 2023, remediation activities commenced at the Foxhole Tank Farm release site. In accordance with the *Work Plan*, 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. A Hach Quantab® chloride field test kit and/or olfactory/visual senses were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors 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. Pursuant to the *Alternative Sampling Plan*, representative, five-point composite confirmation soil samples were collected every 500 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On January 26, 2023, Etech collected 10 confirmation soil samples (NW 7 through NW 12, EW 1, EW 2, SW 1, and WW 1) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the appropriate laboratory method detection limit (MDL). Chloride concentrations ranged from 64.0 mg/kg in soil sample NW 9 to 304 mg/kg in soil sample NW 7.

On January 27, 2023, Etech collected 22 confirmation soil samples (NW 1, NW 2, NW 13, SW 3, SW 9, WW 3, FS 1 @ 2' through FS 8 @ 2', FS 10 @ 2' through FS 15 @ 2', FS 17 @ 2', and FS 18 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples FS 5 @ 2', FS 7 @ 2', and FS 8 @ 2' to 336 mg/kg in soil sample FS 15 @ 2'.

On January 30, 2023, Etech collected 16 confirmation soil samples (NW 3, SW 2, SW 10, FS 9 @ 3, and FS 19 @ 2 through FS 30 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples NW 3 and FS 22 @ 2 to 160 mg/kg in soil sample FS 19 @ 2.

On January 31, 2023, Etech collected 18 confirmation soil samples (SW 4, SW 5, SW 6, WW 4, WW 5, and FS 31 @ 2 through FS 43 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples FS 38 @ 2 and FS 39 @ 2 to 352 mg/kg in soil sample SW 4.

On February 1, 2023, Etech collected 12 confirmation soil samples (SW 7, WW 2, and FS 44 @ 2 through FS 53 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples FS 44 @ 2, FS 46 @ 2, and FS 52 @ 2 to 272 mg/kg in soil sample FS 49 @ 2.

On February 2, 2023, Etech collected 16 confirmation soil samples (NW 14, SW 8, and FS 54 @ 2 through FS 67 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples NW 14, FS 55 @ 2, FS 59 @ 2, and FS 66 @ 2 to 336 mg/kg in soil sample FS 62 @ 2.

On February 3, 2023, Etech collected 19 confirmation soil samples (NW 4, NW 5, NW 6, WW 6, FS 16 @ 2, and FS 68 @ 2 through FS 81 @ 3) 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples NW 6, FS 16 @ 2, and FS 79 @ 4 to 272 mg/kg in soil sample FS 69 @ 2.

On February 6, 2023, Etech collected 18 confirmation soil samples (NW 15, EW 3, WW 7, FS 82 @ 2 through FS 88 @ 2, and FS 92 @ 2 through FS 99 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 97 @ 2 to 416 mg/kg in soil sample FS 88 @ 2.

On February 7, 2023, Etech collected 12 confirmation soil samples (SW 11, FS 89 @ 3, FS 90 @ 3, FS 91 @ 3, and FS 100 @ 2 through FS 107 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FS 101 @ 2 and FS 103 @ 2 to 160 mg/kg in soil sample SW 11.

On February 8, 2023, Etech collected 16 confirmation soil samples (FS 108 @ 2 through FS 123 @ 2) 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples FS 110 @ 2 through FS 114 @ 2 to 288 mg/kg in soil sample FS 118 @ 2.

On February 9, 2023, Etech collected eight (8) confirmation soil samples (WW 8 and FS 124 @ 2 through FS 130 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples FS 129 @ 2 and FS 130 @ 2 to 160 mg/kg in soil samples FS 125 @ 2 and FS 127 @ 2.

On February 10, 2023, Etech collected 13 confirmation soil samples (EW 4, EW 5, and FS 131 @ 2 through FS 141 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 134 @ 2 to 208 mg/kg in soil sample FS 132 @ 2.

On February 13, 2023, Etech collected 12 confirmation soil samples (FS 142 @ 2 through FS 153 @ 2) 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FS 149 @ 3 and FS 150 @ 2 to 224 mg/kg in soil sample FS 144 @ 4.

On February 15, 2023, Etech collected eight (8) confirmation soil samples (SW 12, WW 9, WW 10, and FS 154 @ 2 through FS 158 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample WW 10 to 352 mg/kg in soil sample FS 154 @ 2.

On February 17, 2023, Etech collected 13 confirmation soil samples (NW 16, EW 6, SW 13, SW 14, SW 15, and FS 159 @ 4 through FS 166 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for

analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 16.0 mg/kg in soil sample SW 13 to 368 mg/kg in soil sample SW 14.

On February 24, 2023, Etech collected eight (8) confirmation soil samples (NW 17, SW 16, WW 12, WW 13, and FS 167 @ 2 through FS 170 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil sample WW 13 to 176 mg/kg in soil sample FS 170 @ 2.

On February 27, 2023, Etech collected five (5) confirmation soil samples (SW 17, WW 14, FS 171 @ 2, FS 172 @ 3, and FS 173 @ 4) 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 less than the appropriate laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples SW 17 and WW 14 to 336 mg/kg in soil sample FS 173 @ 4.

The final dimensions of the excavated area were approximately 658 to 684 feet in length, seven (7) to 246 feet in width, and two (2) to five (5) feet in depth. Etech transported approximately 11,036 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 10,844 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 and a soil profile log are provided in Appendix B. General photographs of the 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 compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines and the *Work Plan* dated January 3, 2023. 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 in-situ 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 Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Foxhole Tank Farm 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 referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

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 2

811 S. First Street

Artesia, NM 88210

United States Department of the Interior

Bureau of Land Management

620 E. Greene Street

Carlsbad, NM 88220

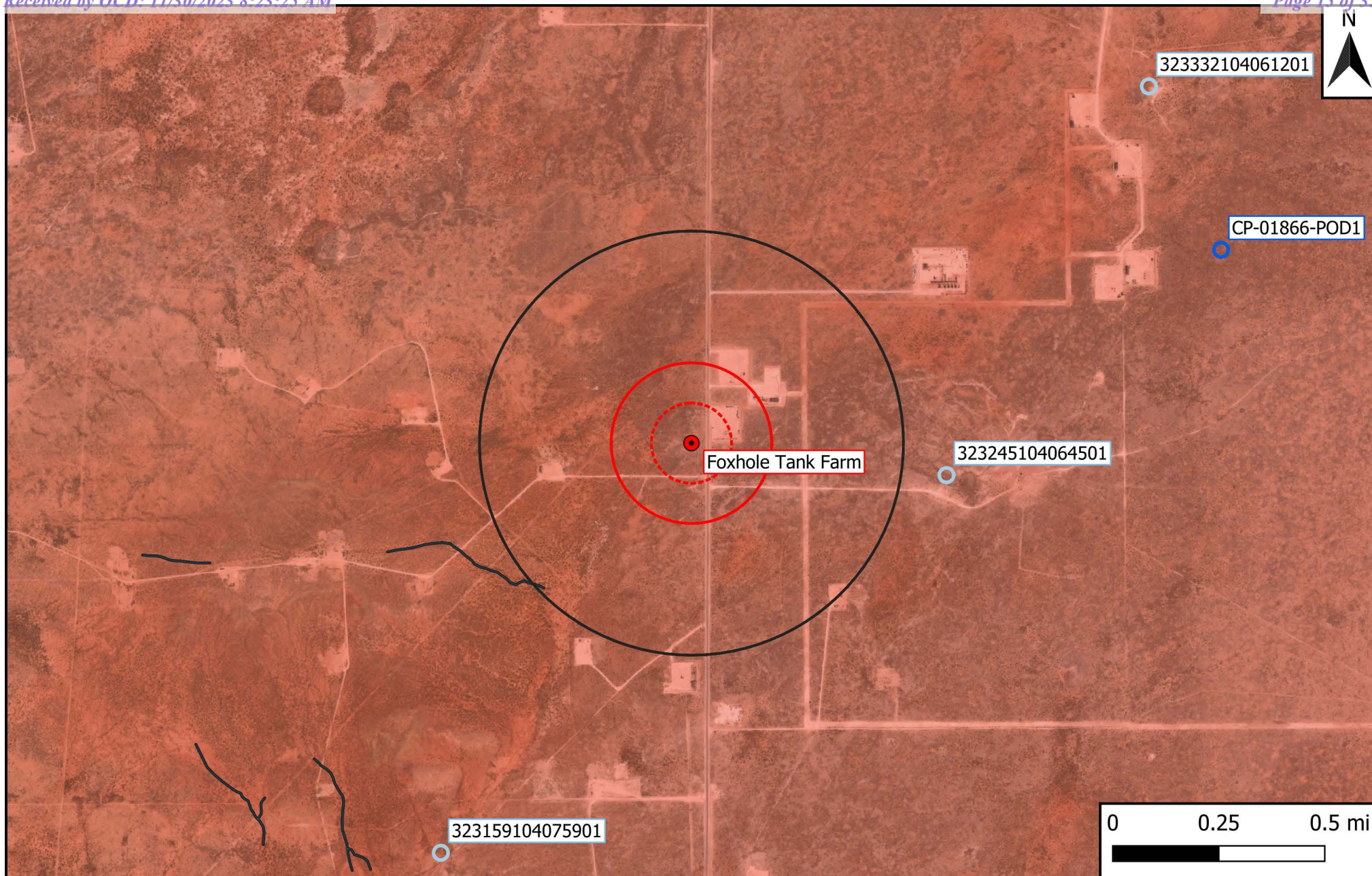
(Electronic Submission)

Figure 1

Topographic Map

Figure 2

Site Characterization 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 | ■ Karst Potential (Low/Med./High) | ⬜ Municipal Boundary |
| — Potash Mine Workings | ■ Riverine | |

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Foxhole Tank Farm
 GPS: 32.547118, -104.123299
 Eddy County



Drafted: bja

Checked: lc

Date: 1/31/23

Figure 3

Site & Sample Location Map

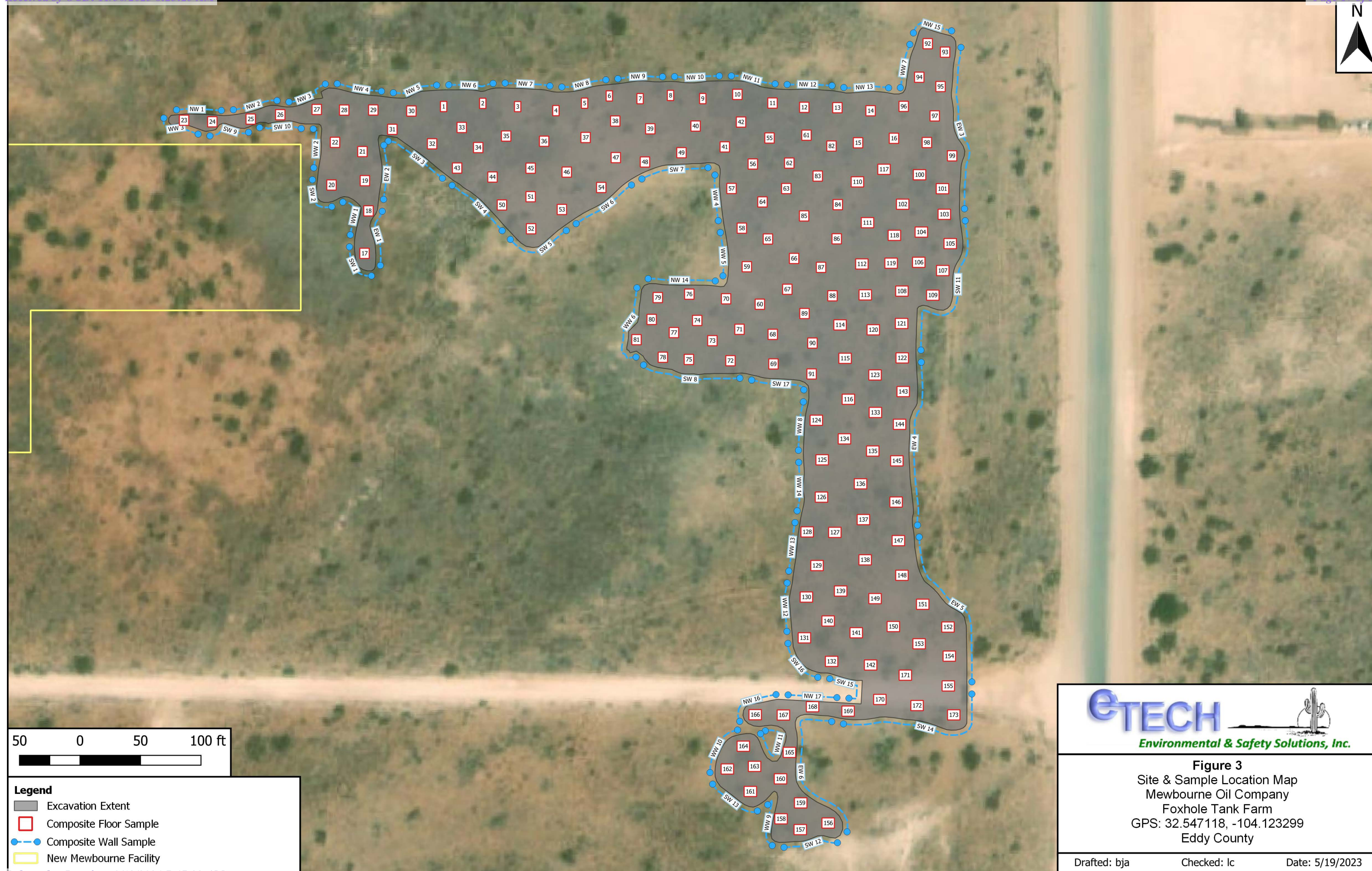


Figure 3
Site & Sample Location Map
Mewbourne Oil Company
Foxhole Tank Farm
GPS: 32.547118, -104.123299
Eddy County

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Foxhole Tank Farm NMOCD Ref. #: nAPP2219360589											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW 1	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NW 2	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NW 3	1/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	2/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 5	2/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 6	2/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 7	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW 8	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 9	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 10	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 11	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 12	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 13	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 14	2/2/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 15	2/6/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 16	2/17/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 17	2/24/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW 1	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 2	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 3	2/6/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 4	2/10/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 5	2/10/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 6	2/17/2023	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 1	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 2	1/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 3	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 4	1/31/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SW 5	1/31/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW 6	1/31/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW 7	2/1/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 8	2/2/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 9	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 10	1/30/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 11	2/7/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 12	2/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 13	2/17/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 14	2/17/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SW 15	2/17/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 16	2/24/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW 17	2/27/2023	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 1	1/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Foxhole Tank Farm
NMOCD Ref. #: nAPP2219360589

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
WW 2	2/1/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	1/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 4	1/31/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
WW 5	1/31/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW 6	2/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 7	2/6/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 8	2/9/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 9	2/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 10	2/15/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 12	2/24/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 13	2/24/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 14	2/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 1 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 2 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 3 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 4 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 5 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 6 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 7 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 8 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 9 @ 3	1/30/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 10 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 11 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 12 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 13 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 14 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 15 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 16 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 17 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 18 @ 2'	1/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 19 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 20 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 21 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 22 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 23 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 24 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 25 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 26 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 27 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 28 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 29 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Foxhole Tank Farm
NMOCD Ref. #: nAPP2219360589

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 30 @ 2	1/30/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 31 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 32 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 33 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 34 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 35 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 36 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 37 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 38 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 39 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 40 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 41 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 42 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 43 @ 2	1/31/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 44 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 45 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 46 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 47 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 48 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 49 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 50 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 51 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 52 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FS 53 @ 2	2/1/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 54 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 55 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 56 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 57 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 58 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 59 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 60 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 61 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 62 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 63 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 64 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 65 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 66 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 67 @ 2	2/2/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 68 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 69 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 70 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Foxhole Tank Farm
NMOCD Ref. #: nAPP2219360589

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 71 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 72 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 73 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 74 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 75 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 76 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 77 @ 2	2/3/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 78 @ 4	2/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 79 @ 4	2/3/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 80 @ 3	2/3/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 81 @ 3	2/3/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 82 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 83 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 84 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 85 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 86 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 87 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 88 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 89 @ 3	2/7/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 90 @ 3	2/7/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 91 @ 3	2/7/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 92 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 93 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 94 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 95 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 96 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 97 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 98 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 99 @ 2	2/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 100 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 101 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 102 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 103 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 104 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 105 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 106 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 107 @ 2	2/7/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 108 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 109 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 110 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 111 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Foxhole Tank Farm NMOCD Ref. #: nAPP2219360589											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 112 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 113 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 114 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 115 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 116 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 117 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 118 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 119 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 120 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 121 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 122 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 123 @ 2	2/8/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 124 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 125 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 126 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 127 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 128 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 129 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 130 @ 2	2/9/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 131 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 132 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 133 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 134 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 135 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 136 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 137 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 138 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 139 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 140 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 141 @ 2	2/10/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 142 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 143 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 144 @ 4	2/13/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 145 @ 4	2/13/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 146 @ 4	2/13/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 147 @ 3	2/13/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 148 @ 3	2/13/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 149 @ 3	2/13/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 150 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 151 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 152 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Foxhole Tank Farm NMOCD Ref. #: nAPP2219360589											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FS 153 @ 2	2/13/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 154 @ 2	2/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 155 @ 2	2/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 156 @ 2	2/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 157 @ 2	2/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 158 @ 2	2/15/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 159 @ 4	2/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 160 @ 4	2/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 161 @ 2	2/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 162 @ 2	2/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 163 @ 2	2/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 164 @ 2	2/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 165 @ 5	2/17/2023	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 166 @ 2	2/17/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 167 @ 2	2/24/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 168 @ 2	2/24/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 169 @ 2	2/24/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 170 @ 2	2/24/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 171 @ 2	2/27/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 172 @ 3	2/27/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 173 @ 4	2/27/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336

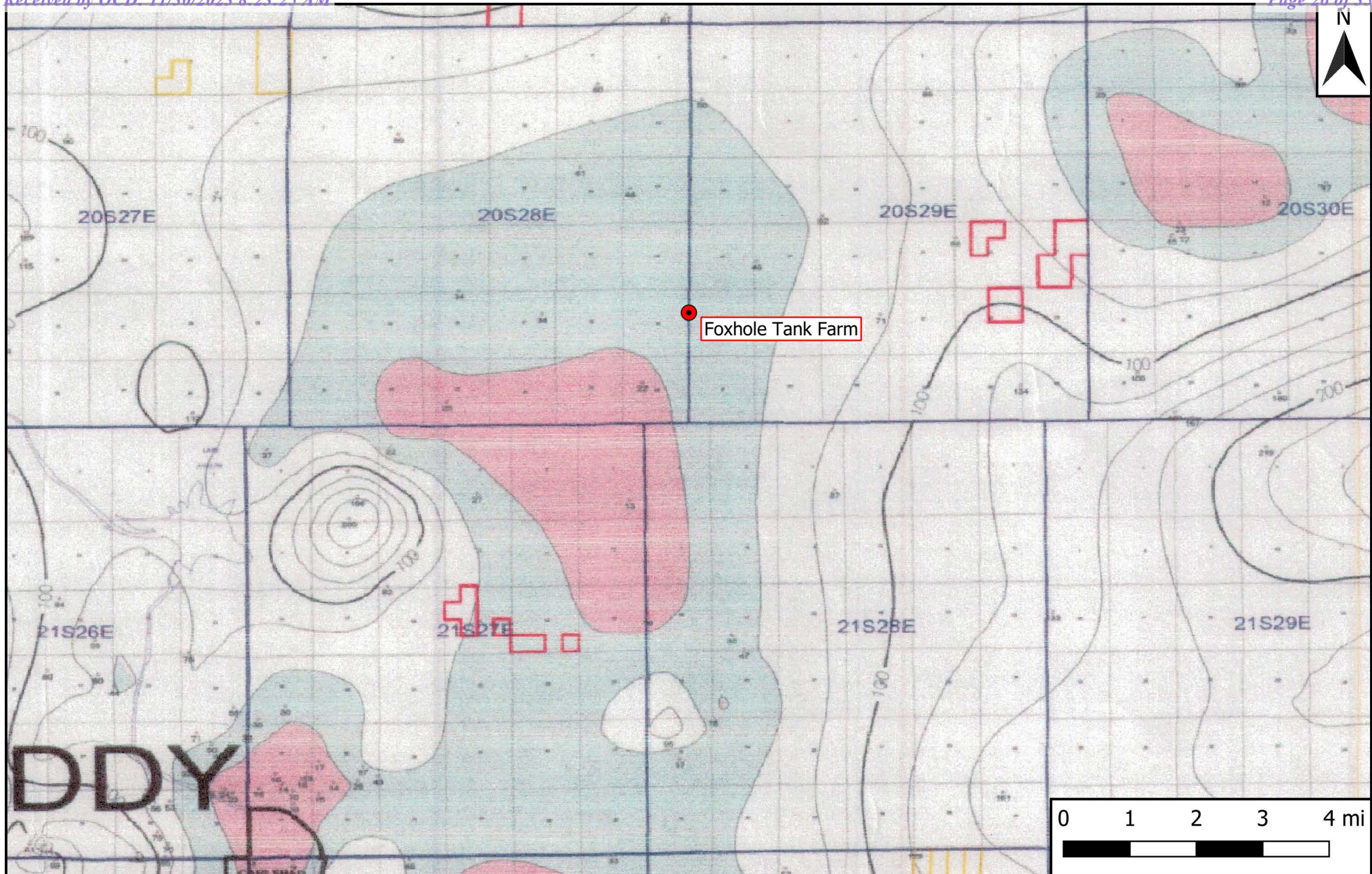
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Foxhole Tank Farm
 GPS: 32.547118, -104.123299
 Eddy County



Drafted: bja

Checked: lc

Date: 1/31/23



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00936 POD1	CP	ED		3	4	2	30	20S	29E	583661	3601238*	1358	70	52	18

Average Depth to Water: **52 feet**

Minimum Depth: **52 feet**

Maximum Depth: **52 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 582314.95

Northing (Y): 3601421

Radius: 1610

*UTM location was derived from PLSS - see Help

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

5/19/23 1:30 PM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

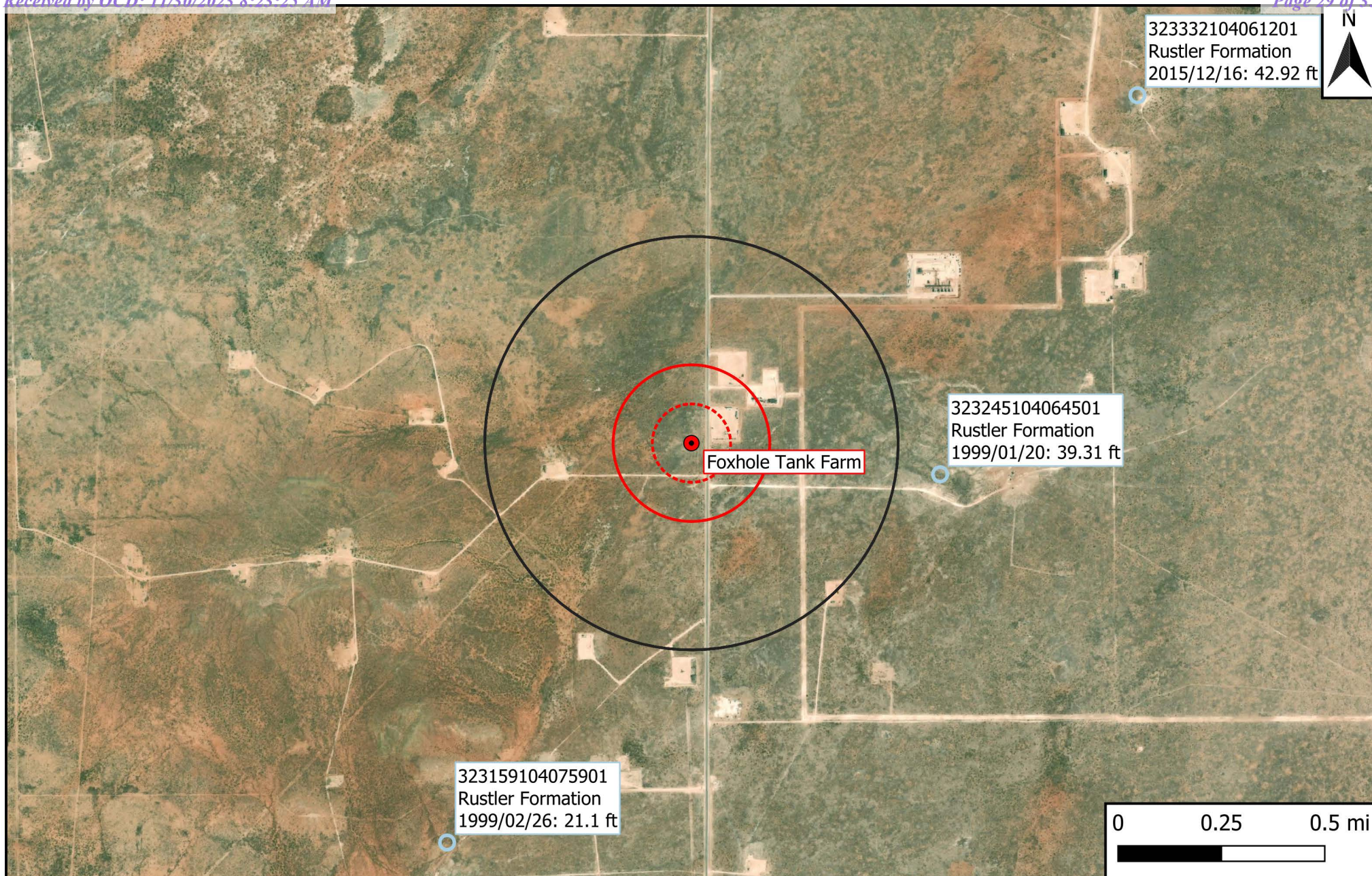
		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00936 POD1	3	4	2	30	20S	29E	583661	3601238* 
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:		Drill Finish Date:		12/31/1929		Plug Date:			
Log File Date:		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 8.00		Depth Well:		70 feet		Depth Water:		52 feet	

*UTM location was derived from PLSS - see Help

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

5/19/23 1:31 PM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- ⊞ 500-Ft Radius
- ⊞ 1,000-Ft Radius
- ⊞ 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
Foxhole Tank Farm
GPS: 32.547118, -104.123299
Eddy County



Drafted: bja

Checked: lc

Date: 1/31/23



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Data Category:
Groundwater

Geographic Area:
United States

GO

[Click for News Bulletins](#)

Groundwater levels for the Nation

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

Agency code = usgs

site_no list =

- 323245104064501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 323245104064501 20S.29E.30.23333**

Eddy County, New Mexico

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

Land-surface elevation 3,231 feet above NAVD88

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

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

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

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

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

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

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Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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

Agency code = usgs

site_no list =

- 323159104075901

Minimum number of levels = 1

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

Eddy County, New Mexico

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

Land-surface elevation 3,209 feet above NAVD88

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

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

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

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

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

Explanation

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

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Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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

Agency code = usgs

site_no list =

- 323332104061201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**USGS 323332104061201 20S.29E.20.133**

Eddy County, New Mexico

Latitude 32°33'33.1", Longitude 104°06'16.9" NAD83

Land-surface elevation 3,246 feet above NAVD88

The depth of the well is 63 feet below land surface.

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

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

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
			7								
1965-12-07			D 72019	44.14			P	Z			A
1968-05-23			D 72019	47.39			P	Z			A
1971-02-08			D 72019	44.38			1	Z			A
1976-12-08			D 72019	44.30			1	Z			A
1977-12-15			D 72019	43.76			1	Z			A
1983-01-11			D 72019	44.86			1	Z			A
1994-03-03			D 72019	45.20			1	S			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1999-02-24		D	72019	44.98			1	S	USGS	S	A
2015-12-16	23:00 UTC	m	72019	42.92			1	S	USGS	S	A

Explanation

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

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Appendix B

Field Data & Soil Profile Logs

Page 37 of 359
Received by OCD: 11/30/2023 8:23:25 AM
Released to Imaging: 3/19/2024 7:47:22 AM

20'x25'



Sample Log

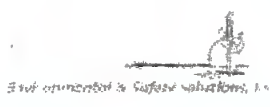
Date: 1-25-23

Project: Foxhole Tank Farm
Project Number: 17464 Latitude: 32.546284 Longitude: -104.123214

Sample ID	PID/Odor	Chloride Conc.	GPS
SW1*	—	1308.500	
WW1	—	2112.500	
EW1	—	1500.452	
WW2	—	2112.1968.1308.1664.912.1340.4676.2444	
EW2	—	1220.200	
SW2	—	5462.2272.912.	
SW3	—	2272.984.328	
SW4	—	3120.1308	
SW5	—	1308.1968	
SW6	—	2628.1604	
SW7	—	2444.1604	
SW8	—	1500.1716	
NW7	—	604.500	
NW8	—	368	
NW9	—	260	
NW10	—	500	
NW11	—	660.368	
NW12	—	716.260	
NW13	—	292	
WH13	—	500	By Poly line Behind Battery
NW1	—	1308.604.408	By Behind Battery
SW9	—	1716.368	By Battery Containment
SW10	—	1640.716	
NW2	—	716.500	
FS1e2'	—	328	
FS2e2'	—	228	
FS3e2'	—	200	
FS4e2'	—	292	
FS5e2'	—	228	
FS6e2'	—	200	
FS7e2'	—	452	
FS8e2'	—	368	
FS9e2'	—	660	
FS10e2'	—	292	
FS11e2'	—	328	
FS12e2'	—	328	

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

Still Need
SW7
SW8
Sample Log



Date: 1-27-23

Project: Foxhole Tank Farm

Project Number: 17464

Latitude: 32.546284

Longitude: -104.123214

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 13 @ 2	—	552	
FS 14 @ 2	—	452	
FS 15 @ 2	—	452	
FS 16 @ 1	—	780	
FS 17 @ 2	—	148	
FS 18 @ 2	—	292	
FS 19 @ 2	—	328	
FS 20 @ 2	—	552	
FS 21 @ 2	—	552	
FS 22 @ 2	—	552	
FS 23 @ 2	—	408	
FS 24 @ 2	—	552	
FS 25 @ 2	—	328	
FS 26 @ 2	—	500	
FS 27 @ 2	—	368	
SW 10	—	328	
FS 28 @ 2	—	452	
NW 3	—	260	
FS 29 @ 2	—	260	
SW 2	—	260	
FS 30 @ 2	—	368	
FS 9 @ 3	—	408	
SW 4	—	408	
SW 5	—	328	
SW 6	—	328	
WW 4	—	408	
WW 5	—	552	
FS 31 @ 2	—	408	
FS 32 @ 2	—	408	
FS 33 @ 2	—	408	
FS 34 @ 2	—	552	
FS 35 @ 2	—	368	
FS 36 @ 2	—	328	
FS 37 @ 2	—	328	
FS 38 @ 2	—	260	
FS 39 @ 2	—	328	

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

2.0



still need

Sample Log

FS 10

Date: _____

Project:

Project Number: Latitude: Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
FS40 @ 2	2.8	328	
FS41 @ 2	1.8	172	
FS42 @ 2	2.2	228	
FS43 @ 2	2.4	260	
FS44 @ 2	2.8	328	
FS45 @ 2	2.2	228	
FS46 @ 2	3.8	552	
FS47 @ 2	3.2	408	
FS48 @ 2	3.0	368	
FS49 @ 2	3.4	452	
FS50 @ 2	2.6	292	
FS51 @ 2	2.2	228	
FS52 @ 2	1.4	124	
FS53 @ 2	2.2	228	
SW7	1.4	124	
WW2	2.2	228	
SW8	HS 5.0	4324	
SW9	HS 5.0	4324	
SW10	HS 5.0	4324	
NW14	HS 4.2	3116	
NW14	3.8	552	
SW8	2.8	328	
FS54 @ 2	2.8	328	
FS55 @ 2	2.4	260	
FS56 @ 2	2.4	260	
FS57 @ 2	2.8	328	
FS58 @ 2	3.8	552	
FS59 @ 2	3.8	552	
FS60 @ 2	3.4	452	
FS61 @ 2	3.4	452	
FS62 @ 2	3.8	552	
FS63 @ 2	3.2	408	
FS64 @ 2	2.8	328	
FS65 @ 2	3.0	368	
FS66 @ 2	3.0	368	
FS67 @ 2	3.0	368	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 68 @ 2 2.8	—	328	
FS 69 @ 2 3.6	—	500	
FS 70 @ 2 3.4	—	452	
FS 71 @ 2 2.8	—	328	
FS 72 @ 2 3.0	—	368	
FS 73 @ 2 3.0	—	368	
FS 74 @ 2 2.8	—	328	
FS 75 @ 2 3.0	—	368	
FS 76 @ 2 3.0	—	368	
FS 77 @ 2 2.8	—	228	
FS 78 @ 2 5.6	—		
FS 79 @ 2 5.8	—		
FS 80 @ 2 4.0	—		
FS 81 @ 2 4.2	—		
FS 16 @ 2 2.8	—	328	
FS 78 @ 4 2.8	—	292	
FS 79 @ 4 3.0	—	368	
FS 80 @ 3 3.0	—	368	
FS 81 @ 3 3.0	—	368	
NW 6 2.8	—	328	
NW 5 2.8	—	328	
NW 6 3.0	—	368	
FS 82 @ 2 3.0	—	368	
FS 83 @ 2 3.0	—	368	
FS 84 @ 2 3.6	—	500	
FS 85 @ 2 3.6	—	500	
FS 86 @ 2 3.4	—	452	
FS 87 @ 2 3.2	—	408	
FS 88 @ 2 3.2	—	408	
FS 89 @ 2 7.2	—	1468	
FS 90 @ 2 6.0	—	1308	
FS 91 @ 2 6.6	—	1604	
NW 15 3.0	—	368	
WW 7 3.2	—	408	
EW 3 3.0	—	368	
FS 92 @ 2 3.2	—	408	

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: Foxhole Tank Farm

Project Number: 17464 Latitude: 32.546284 Longitude: -104.123214

Sample ID	PID/Odor	Chloride Conc.	GPS
FS93 @ 2	2.8	328	
FS94 @ 2	2.8	328	
FS95 @ 2	3.0	368	
FS96 @ 2	3.2	408	
FS97 @ 2	3.2	408	
FS98 @ 2	2.2	408	
FS99 @ 2	2.8	328	
SW11	7.6	2272	
SW11	4.8	844	
FS100 @ 2	3.2	408	
FS101 @ 2	2.8	328	
FS102 @ 2	2.8	328	
FS103 @ 2	2.8	328	
FS104 @ 2	3.0	368	
FS105 @ 2	2.4	260	
FS106 @ 3	3.2	500	
FS107 @ 3	3.4	452	
FS108 @ 3	3.0	368	
SW11	3.8	552	
FS109 @ 2	3.0	368	
FS110 @ 2	2.4	260	
FS111 @ 2	3.2	408	
FS112 @ 2	3.0	368	
FS113 @ 2	3.2	408	
FS114 @ 2	3.0	368	
FS115 @ 2	2.8	328	
FS116 @ 2	3.4	452	
FS117 @ 2	2.8	328	
FS118 @ 2	3.0	368	
FS119 @ 2	3.4	452	
FS120 @ 2	2.8	328	
FS121 @ 2	2.8	328	
FS122 @ 2	3.0	368	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

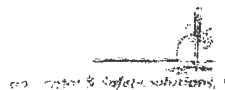
Refusal = SP #1 @ 4'-R

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: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 123 @ 2	2.8	328	
WW8	3.2	1108	
FS 124 @ 2	3.8	552	
FS 125 @ 2	3.6	500	
FS 126 @ 2	3.8	552	
FS 127 @ 2	3.6	500	
FS 128 @ 2	3.8	552	
FS 129 @ 2	3.8	552	
FS 130 @ 2	3.2	408	
FS 131 @ 2	3.0	368	
FS 132 @ 2	3.8	552	
FS 133 @ 2	3.0	368	
FS 134 @ 2	3.2	408	
FS 135 @ 2	3.8	552	
FS 136 @ 2	3.8	552	
FS 137 @ 2	3.8	552	
FS 138 @ 2	3.8	552	
FS 139 @ 2	3.8	652	
FS 140 @ 2	3.8	552	
EW4	3.0	368	
EW5	3.8	368	
FS 141 @ 2	2.8	328	
FS 142 @ 2	3.8	552	
FS 143 @ 2	3.6	500	
FS 144 @ 4	3.8	552	
FS 145 @ 4	2.8	328	
FS 146 @ 4	3.0	368	
FS 147 @ 3	3.0	368	
FS 148 @ 3	3.0	368	
FS 149 @ 3	2.8	328	
FS 150 @ 2	2.8	328	
FS 151 @ 2	3.0	368	
FS 152 @ 2	3.2	408	
FS 153 @ 2	2.8	328	
FS 154 @ 2	3.8	552	
FS 155 @ 2	3.6	500	

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: Fox Hole T.F.

Project Number: 17464

Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS156@2	2.6	500	
SW12	3.0	368	
WW9	2.8	328	
WW10	3.0	368	



Soil Profile

Date: _____

Project: Foxhole Tank Farm
Project Number: 17464 Latitude: 32.546284 Longitude: -104.123214

Depth (ft. bgs)	Description
1	Caliche
2	Caliche
3	sand
4	sand
5	Caliche - sand
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
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35	
36	
37	
38	
39	
40	

Appendix C

Photographic Log

Photographic Log



Photo Number: 1	 <p>06-Feb-2023 13:12:58 +32.547240, -104.123679 ±5.00m Carlsbad, NM 88220</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 2	 <p>06-Feb-2023 13:11:19 +32.547185, -104.124570 ±5.00m Carlsbad, NM 88220</p>
Photo Direction: West	
Photo Description: View of the excavated area.	


Photographic Log

Photo Number: 3	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 4	
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	 <p>13-Feb-2023 10:53:34 +32.546926,-104.124046 ±48.24m Carlsbad, NM 88220</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>February 17, 2023 at 12:59 PM +32.545871,-104.123375</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 7	<div>February 17, 2023 at 12:59 PM +32.545871,-104.123375</div> 
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 8	<div>February 17, 2023 at 12:59 PM +32.545956,-104.123192</div> 
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 9	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 11	 <p>3/16/23, 11:00 AM +32.547197,-104.124444 NM, Carlsbad</p>
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	 <p>3/16/23, 11:00 AM +32.547197,-104.124444 NM, Carlsbad</p>
Photo Direction: West	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 13	
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


Photo Number: 15	 <p>3/16/23, 11:03 AM +32.547014, -104.123615 NM, Carlsbad</p>
Photo Direction: West-Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	 <p>3/16/23, 11:02 AM +32.546962, -104.123715 NM, Carlsbad</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


Photo Number: 17	 <p>3/16/23, 11:03 AM +32.547036,-104.123444 NM, Carlsbad, Magnum Rd</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	 <p>3/16/23, 11:04 AM +32.546038,-104.123386 NM, Carlsbad, Magnum Rd</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 19	 <p>3/16/23, 11:03 AM +32.546038,-104.123386 NM, Carlsbad, Magnum Rd</p>
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 20	 <p>3/16/23, 11:03 AM +32.546138,-104.123417 NM, Carlsbad, Magnum Rd</p>
Photo Direction: Southwest	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

January 30, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 01/26/23 15:59.

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

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: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H230385-01)

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	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEX	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	196	97.8	200	3.11	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	194	97.2	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H230385-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEX	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	196	97.8	200	3.11	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	194	97.2	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H230385-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEX	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	196	97.8	200	3.11	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	194	97.2	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H230385-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEx	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2023	ND	416	104	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	01/27/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 7 (H230385-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70	
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07	
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05	
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53	
Total BTEX	<0.300	0.300	01/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 8 (H230385-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70	
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07	
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05	
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53	
Total BTEx	<0.300	0.300	01/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 9 (H230385-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEx	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-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	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 10 (H230385-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70	
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07	
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05	
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53	
Total BTEx	<0.300	0.300	01/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 11 (H230385-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70	
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07	
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05	
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53	
Total BTEX	<0.300	0.300	01/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
 Reported: 01/30/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 12 (H230385-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2023	ND	1.87	93.6	2.00	2.70		
Toluene*	<0.050	0.050	01/28/2023	ND	2.09	104	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2023	ND	2.06	103	2.00	3.05		
Total Xylenes*	<0.150	0.150	01/28/2023	ND	6.39	106	6.00	3.53		
Total BTEx	<0.300	0.300	01/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2023	ND	416	104	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	01/28/2023	ND	179	89.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/28/2023	ND	187	93.5	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	01/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

[illegible]



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

February 01, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 16:22.

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

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: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H230420-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2023	ND	1.87	93.6	2.00	2.24		
Toluene*	<0.050	0.050	01/31/2023	ND	2.11	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.07	103	2.00	2.16		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.82		
Total BTX	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/31/2023	ND	448	112	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	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H230420-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2023	ND	1.87	93.6	2.00	2.24		
Toluene*	<0.050	0.050	01/31/2023	ND	2.11	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.07	103	2.00	2.16		
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.82		
Total BTEx	<0.300	0.300	01/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/31/2023	ND	448	112	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	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 13 (H230420-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2023	ND	1.87	93.6	2.00	2.24	
Toluene*	<0.050	0.050	01/31/2023	ND	2.11	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	01/31/2023	ND	2.07	103	2.00	2.16	
Total Xylenes*	<0.150	0.150	01/31/2023	ND	6.44	107	6.00	1.82	
Total BTEx	<0.300	0.300	01/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/31/2023	ND	448	112	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	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H230420-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTX	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/31/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 (H230420-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 9 (H230420-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 1 @ 2' (H230420-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 2 @ 2' (H230420-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 3 @ 2' (H230420-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 4 @ 2' (H230420-10)

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	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTX	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 5 @ 2' (H230420-11)

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	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTX	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 6 @ 2' (H230420-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 7 @ 2' (H230420-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTX	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	178	88.9	200	1.75	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	169	84.3	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 8 @ 2' (H230420-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 @ 2' (H230420-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 @ 2' (H230420-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 @ 2' (H230420-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 @ 2' (H230420-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 @ 2' (H230420-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 @ 2' (H230420-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 17 @ 2' (H230420-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38	
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78	
Total BTEx	<0.300	0.300	02/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/27/2023
 Reported: 02/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE

Sampling Date: 01/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 18 @ 2' (H230420-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.89	94.7	2.00	5.38		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	5.96		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.13	106	2.00	6.21		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.60	110	6.00	6.78		
Total BTEx	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	188	93.8	200	4.06	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	170	84.8	200	2.35	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Routine

1.43

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 W Marland				Company: Newbourne																																					
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Business Park Blvd																																					
Project #: 17464 Project Owner: Newbourne				City: Hobbs																																					
Project Name: Foxhole Tank Farm				State: NM Zip: 88240																																					
Project Location:				Phone #: (575) 605-6908																																					
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 /GLOUT		OTHER :		DATE		TIME													
H230420				C		1						✓										✓		✓		1-27-23															
1		NW 1		C		1						✓										✓		✓																	
2		NW 2		C		1						✓										✓		✓																	
3		NW 13		C		1						✓										✓		✓																	
4		WW 3		C		1						✓										✓		✓																	
5		SW 3		C		1						✓										✓		✓																	
6		SW 9		C		1						✓										✓		✓																	
7		FS 1e2'		C		1						✓										✓		✓																	
8		FS 2e2'		C		1						✓										✓		✓																	
9		FS 3e2'		C		1						✓										✓		✓																	
10		FS 4e2'		C		1						✓										✓		✓																	
<p>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.</p>																																									
Relinquished By: Eric Mojica				Date: 1-27-23		Received By: Tamara Olden				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
				Time: 1622						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By:				Date:		Received By:				REMARKS:																															
				Time:																																					
Delivered By: (Circle One)				#113		Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.																											
Sampler - UPS - Bus - Other:				6.1e/5.5e		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)																															
						<input type="checkbox"/> Yes <input type="checkbox"/> No				YES																															

FORM-006
Revision 1.0

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



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

February 02, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 01/30/23 16:38.

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

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:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 19 @ 2 (H230432-01)

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	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEX	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 20 @ 2 (H230432-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEX	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 21 @ 2 (H230432-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEx	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 22 @ 2 (H230432-04)

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	02/01/2023	ND	1.98	98.8	2.00	1.73	
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25	
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30	
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63	
Total BTEx	<0.300	0.300	02/01/2023	ND					

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

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	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 23 @ 2 (H230432-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEx	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 24 @ 2 (H230432-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEX	<0.300	0.300	02/01/2023	ND						

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

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	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 25 @ 2 (H230432-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	98.8	2.00	1.73		
Toluene*	<0.050	0.050	02/01/2023	ND	2.04	102	2.00	1.25		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.06	103	2.00	1.30		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.28	105	6.00	2.63		
Total BTEX	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 26 @ 2 (H230432-08)

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	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 27 @ 2 (H230432-09)

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	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 28 @ 2 (H230432-10)

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	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	01/31/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 10 (H230432-11)

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	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

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	02/01/2023	ND	400	100	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	02/01/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 3 (H230432-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

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	02/01/2023	ND	400	100	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	02/01/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 29 @ 2 (H230432-13)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	02/01/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/30/2023	Sampling Date:	01/30/2023
Reported:	02/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 2 (H230432-14)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	194	96.8	200	1.58	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	184	91.8	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 30 @ 2 (H230432-15)

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	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	01/31/2023	ND	219	110	200	7.19	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	212	106	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/30/2023
 Reported: 02/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 9 @ 3 (H230432-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.96	97.9	2.00	10.1		
Toluene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.28		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.10	105	2.00	9.26		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.45	107	6.00	7.98		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	400	100	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	01/31/2023	ND	219	110	200	7.19	
DRO >C10-C28*	<10.0	10.0	01/31/2023	ND	212	106	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	01/31/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 20

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Lane Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: <u>Mewbourn</u>																							
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Jeff Broom</u>																					
Phone #: (575) 264-9884		Fax #:		Address: <u>4801 Bus P Blvd</u>		City: <u>Hobbs</u>																					
Project #: <u>17464</u>		Project Owner: <u>Mewbourn</u>		State: <u>NM</u>		Zip: _____																					
Project Name: <u>Fox Hole Tank Farm</u>				Phone #:																							
Project Location: <u>Rural Carlsbad N.M.</u>				Fax #:																							
Sampler Name: <u>Dominic Casarez</u>																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING																	
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
<u>H230432</u>				<u>C 1</u>																							
<u>DL 1</u>		<u>FS 19 @ 2</u>		<u>C 1</u>																							
<u>2</u>		<u>FS 20 @ 2</u>		<u>C 1</u>																							
<u>3</u>		<u>FS 21 @ 2</u>		<u>C 1</u>																							
<u>4</u>		<u>FS 22 @ 2</u>		<u>C 1</u>																							
<u>5</u>		<u>FS 23 @ 2</u>		<u>C 1</u>																							
<u>6</u>		<u>FS 24 @ 2</u>		<u>C 1</u>																							
<u>7</u>		<u>FS 25 @ 2</u>		<u>C 1</u>																							
<u>8</u>		<u>FS 26 @ 2</u>		<u>C 1</u>																							
<u>9</u>		<u>FS 27 @ 2</u>		<u>C 1</u>																							
<u>10</u>		<u>FS 28 @ 2</u>		<u>C 1</u>																							
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Relinquished By: <u>[Signature]</u>				Date: <u>1 30 23</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <u>4 38 pm</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:						Please email results and copy of CoC to pm@etechenv.com.																	
Delivered By: (Circle One) <u>6.12 C-O-62</u>						Sample Condition																		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: <u>5.52 #113</u>						Cool Intact				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	

FORM-006
Revision 1.0

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 20

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Lane Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: 2617 W Marland				Company: <u>Mewbourn</u>																						
City: Hobbs		State: NM		Zip: 88240		Attn: <u>Jeff Brown</u>																				
Phone #: (575) 264-9884		Fax #:		Address: <u>4801 Bus & Blvd</u>																						
Project #: <u>17464</u>		Project Owner: <u>Mewbourn</u>		City: <u>Hobbs</u>																						
Project Name: <u>Fox hole Tank farm</u>				State: <u>NM</u> Zip:																						
Project Location: <u>Rural Carlsbad N.M.</u>				Phone #:																						
Sampler Name: <u>Dominic Casarez</u>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	DIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>H230432</u>																										
<u>11 SW10</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>13023</u>													
<u>12 NW3</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>X</u>													
<u>13 FS 29@2</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>X</u>													
<u>14 SW2</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>X</u>													
<u>15 FS 30@2</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>X</u>													
<u>16 FS 9@3</u>		<u>C</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>X</u>													
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Relinquished By: <u>[Signature]</u>				Date: <u>13023</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:										
				Time: <u>4:38pm</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:										
Relinquished By:				Date:				Received By:				REMARKS:														
				Time:																						
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																		
Sampler - UPS - Bus - Other:				Cool <u>Intact</u>				(Initials)																		
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<u>YD</u>																		
				<u>6.1°C - 0.6°C</u>																						
				<u>5.5°C #113</u>																						

FORM-006
Revision 1.0

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

February 06, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 01/31/23 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 4 (H230439-01)

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	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	184	92.0	200	0.279	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	170	85.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 5 (H230439-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	184	92.0	200	0.279	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	170	85.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 6 (H230439-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	184	92.0	200	0.279	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	170	85.2	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 4 (H230439-04)

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	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: WW 5 (H230439-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 31 @ 2 (H230439-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 32 @ 2 (H230439-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 33 @ 2 (H230439-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 34 @ 2 (H230439-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 35 @ 2 (H230439-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17	
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21	
Total BTEX	<0.300	0.300	02/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/01/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 36 @ 2 (H230439-11)

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	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 37 @ 2 (H230439-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 38 @ 2 (H230439-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEX	<0.300	0.300	02/02/2023	ND						

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

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	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 39 @ 2 (H230439-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

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	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 40 @ 2 (H230439-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/02/2023	ND	1.93	96.4	2.00	6.17		
Toluene*	<0.050	0.050	02/02/2023	ND	2.04	102	2.00	8.29		
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.05	103	2.00	7.56		
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.17	103	6.00	7.21		
Total BTEx	<0.300	0.300	02/02/2023	ND						

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

Chloride, SM4500CI-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	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 41 @ 2 (H230439-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	99.0	2.00	1.15		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.684		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.991		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.62	110	6.00	1.26		
Total BTEx	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/31/2023	Sampling Date:	01/31/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 42 @ 2 (H230439-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	99.0	2.00	1.15		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.684		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.991		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.62	110	6.00	1.26		
Total BTEX	<0.300	0.300	02/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 01/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 43 @ 2 (H230439-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2023	ND	1.98	99.0	2.00	1.15		
Toluene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.684		
Ethylbenzene*	<0.050	0.050	02/01/2023	ND	2.14	107	2.00	0.991		
Total Xylenes*	<0.150	0.150	02/01/2023	ND	6.62	110	6.00	1.26		
Total BTEx	<0.300	0.300	02/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/01/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2023	ND	210	105	200	9.07	
DRO >C10-C28*	<10.0	10.0	02/01/2023	ND	211	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	02/01/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 22

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST															
Project Manager: Lane Crenshaw										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland										Company: Newbourn																									
City: Hobbs State: NM Zip: 88240										Attn: Jeff Broom																									
Phone #: (575) 264-9884 Fax #:										Address: 4801 Bus p Blvd																									
Project #: 17464 Project Owner: Newbourn										City: Hobbs																									
Project Name: Fox Hole Tank farm										State: NM Zip:																									
Project Location: Rural Carlsbad NM										Phone #:																									
Sampler Name: Dominic Casarez										Fax #:																									
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.								(G)RAB, OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
														GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:				DATE		TIME											
H238439										C		1										1-31-23													
DC 1 SW4										C		1																							
2 SW5										C		1																							
3 SW6										C		1																							
4 WN4										C		1																							
5 WN5										C		1																							
6 FS31 @ 2										C		1																							
7 FS32 @ 2										C		1																							
8 FS33 @ 2										C		1																							
9 FS34 @ 2										C		1																							
10 FS35 @ 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: <i>Dom</i>					Date: 1/31/23					Received By: <i>Lamara Aldridge</i>					Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No					Add'l Phone #:															
					Time: 4:15pm										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No					Add'l Fax #:															
Relinquished By:					Date:					Received By:					REMARKS:																				
					Time:																														
Delivered By: (Circle One)										Sample Condition										CHECKED BY:															
Sampler - UPS - Bus - Other: 3.3c / 2.7c										Cool Intact										(Initials)															
										<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
										<input type="checkbox"/> No <input type="checkbox"/> No																									
																				Please email results and copy of CoC to pm@etechenv.com.															

FORM-006
Revision 1.0

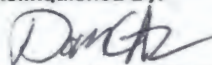

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

**CARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																			
Project Manager: LANC Crenshaw		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland		Company: Mewbourn																					
City: Hobbs State: NM Zip: 88240		Attn: Jeff Broom																					
Phone #: (575) 264-9884 Fax #:		Address: 4801 Bus r Blvd																					
Project #: 17464 Project Owner: Mewbourn		City: Hobbs																					
Project Name: Fox Hole Tank farm		State: NM Zip:																					
Project Location: Rural Carlisle NM		Phone #:																					
Sampler Name: Dominic Casaver		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING													
H230439																							
DC 11 FS 36 @ 2		C 1																					
12 FS 37 @ 2		C 1																					
13 FS 38 @ 2		C 1																					
14 FS 39 @ 2		C 1																					
15 FS 40 @ 2		C 1																					
16 FS 41 @ 2		C 1																					
17 FS 42 @ 2		C 1																					
18 FS 43 @ 2		C 1																					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																							
Relinquished By: 		Date: 1-31-23		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
		Time: 4:15pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Relinquished By:		Date:		Received By:		REMARKS:																	
		Time:				Please email results and copy of CoC to pm@etechenv.com.																	
Delivered By: (Circle One)																							
Sampler - UPS - Bus - Other: 3.3c / 2.7c																							
		#113		Sample Condition		CHECKED BY: (Initials)																	
				Cool Intact		Yes No																	
						Yes No																	



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

February 06, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/01/23 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 44 @ 2 (H230461-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTX	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 66.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 45 @ 2 (H230461-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 46 @ 2 (H230461-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 47 @ 2 (H230461-04)

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	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/02/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 48 @ 2 (H230461-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 49 @ 2 (H230461-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEX	<0.300	0.300	02/03/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 50 @ 2 (H230461-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 51 @ 2 (H230461-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 52 @ 2 (H230461-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEX	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 53 @ 2 (H230461-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEx	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 7 (H230461-11)

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	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEX	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/01/2023	Sampling Date:	02/01/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: WW 2 (H230461-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2023	ND	2.11	106	2.00	0.219		
Toluene*	<0.050	0.050	02/03/2023	ND	2.10	105	2.00	0.341		
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	102	2.00	0.939		
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.24	104	6.00	1.00		
Total BTEX	<0.300	0.300	02/03/2023	ND						

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

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	02/02/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: <u>Marbourn</u>															
City: Hobbs		State: NM Zip: 88240		Attn: <u>Jeff Broom</u>															
Phone #: (575) 264-9884		Fax #:		Address: <u>4801 Bus p Blvd</u>															
Project #: <u>17464</u>		Project Owner: <u>Marbourn</u>		City: <u>Hobbs</u>															
Project Name: <u>Foxhole Tank farm</u>				State: <u>NM</u> Zip: <u></u>															
Project Location: <u>rural Carlsbad N-M.</u>				Phone #:															
Sampler Name: <u>Dominic Casarez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE		TIME			
<u>H23046d</u>				<u>C</u>		<u>1</u>						<u>✓</u>		<u>2-1-23</u>					
<u>1 FS 44 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>2 FS 45 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>3 FS 46 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>4 FS 47 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>5 FS 48 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>6 FS 49 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>7 FS 50 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>8 FS 51 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>9 FS 52 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<u>10 FS 53 @ 2</u>				<u>C</u>		<u>1</u>						<u>✓</u>							
<p>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.</p>																			
Relinquished By: <u>[Signature]</u>				Date: <u>2-1-23</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:					
				Time: <u>4:30pm</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:					
Relinquished By:				Date:		Received By:				REMARKS:									
				Time:															
Delivered By: (Circle One)				#113		Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.					
Sampler - UPS - Bus - Other:				<u>2.9c / 2.3c</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)									
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>VO</u>									

FORM-006
Revision 1.0

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 W Marland				Company: Mewbourn																									
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																									
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bus p Blvd																									
Project # T464 Project Owner: Mewbourn				City: Hobbs																									
Project Name: Fox hole Tank farm				State: NM Zip:																									
Project Location: Rural Carlsbad NM				Phone #:																									
Sampler Name: Dominic Casarez				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	
H230461				C 1		1						✓								✓		✓		✓		2-23			
DC 11 SW F				C 1		1						✓								✓		✓		✓					
12 WW2				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					
				C 1		1						✓								✓		✓		✓					



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

February 06, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/02/23 16:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: NW 14 (H230483-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2	
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2	
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8	
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9	
Total BTX	<0.300	0.300	02/04/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 8 (H230483-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEX	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 54 @ 2 (H230483-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 55 @ 2 (H230483-04)

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	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 69.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 56 @ 2 (H230483-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 57 @ 2 (H230483-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEX	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 58 @ 2 (H230483-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEX	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 59 @ 2 (H230483-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEX	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 60 @ 2 (H230483-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/03/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	188	94.1	200	3.38	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	198	99.2	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 61 @ 2 (H230483-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	194	96.9	200	4.19	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	188	93.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Analytical Results For:

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

Received: 02/02/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 62 @ 2 (H230483-11)

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	02/04/2023	ND	2.10	105	2.00	11.2	
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2	
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8	
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9	
Total BTEx	<0.300	0.300	02/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/03/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	194	96.9	200	4.19	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	188	93.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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Analytical Results For:

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

Received: 02/02/2023
 Reported: 02/06/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 63 @ 2 (H230483-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	194	96.9	200	4.19	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	188	93.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 64 @ 2 (H230483-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2		
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9		
Total BTEX	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	194	96.9	200	4.19	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	188	93.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 65 @ 2 (H230483-14)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2023	ND	2.10	105	2.00	11.2	
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2	
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8	
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9	
Total BTEx	<0.300	0.300	02/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	194	96.9	200	4.19	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	188	93.8	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 63.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 66 @ 2 (H230483-15)

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	02/04/2023	ND	2.10	105	2.00	11.2	
Toluene*	<0.050	0.050	02/04/2023	ND	2.13	107	2.00	13.2	
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	12.8	
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.35	106	6.00	13.9	
Total BTX	<0.300	0.300	02/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	193	96.3	200	5.94	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	185	92.4	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/02/2023	Sampling Date:	02/02/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 67 @ 2 (H230483-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2023	ND	2.09	105	2.00	10.1		
Toluene*	<0.050	0.050	02/04/2023	ND	2.06	103	2.00	9.46		
Ethylbenzene*	<0.050	0.050	02/04/2023	ND	2.00	100	2.00	9.50		
Total Xylenes*	<0.150	0.150	02/04/2023	ND	6.06	101	6.00	9.34		
Total BTEx	<0.300	0.300	02/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/03/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2023	ND	193	96.3	200	5.94	
DRO >C10-C28*	<10.0	10.0	02/03/2023	ND	185	92.4	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	02/03/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST														
Project Manager: Lance Cranshaw				P.O. #:																		
Address: 2617 W Marland				Company: Mewbourn																		
City: Hobbs State: NM Zip: 88240				Attn: Jeff Brown																		
Phone #: (575) 264-9884 Fax #:				Address: 4801 bus Bldg																		
Project #: 17464 Project Owner: Mewbourn				City: Hobbs																		
Project Name: Fox Note Tank Farm				State: NM Zip:																		
Project Location: Rural Carlsbad N.M.				Phone #:																		
Sampler Name: Dominic Casarez				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								
H230483																						
DL 1	NW#4	C	1			/				/			2-2-29									
2	SW8	C	1			/				/												
3	FS 54 @ 2	C	1			/				/												
4	FS 55 @ 2	C	1			/				/												
5	FS 56 @ 2	C	1			/				/												
6	FS 57 @ 2	C	1			/				/												
7	FS 58 @ 2	C	1			/				/												
8	FS 59 @ 2	C	1			/				/												
9	FS 60 @ 2	C	1			/				/												
10	FS 61 @ 2	C	1			/				/												
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Relinquished By:		Date: 2-2-29		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:														
		Time: 1622				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
Relinquished By:		Date:		Received By:		REMARKS:																
		Time:																				
Delivered By: (Circle One)				Sample Condition		CHECKED BY:		Please email results and copy of CoC to pm@etechenv.com.														
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) VO																



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 20

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Lance Srenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: 2617 W Marland				Company: <u>Marlbourn</u>																					
City: Hobbs State: NM Zip: 88240				Attn: <u>Jeff Brown</u>																					
Phone #: (575) 264-9884 Fax #:				Address: <u>4801 BUSP BLVD</u>																					
Project #: <u>17464</u> Project Owner: <u>Mewbourn</u>				City: <u>Hobbs</u>																					
Project Name: <u>Fox hole Tank farm</u>				State: <u>NM</u> Zip:																					
Project Location: <u>Rural Carlsbad NM.</u>				Phone #:																					
Sampler Name: <u>Dominic Casarez</u>				Fax #:																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>H230483</u>																									
<u>11</u>	<u>FS 62 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>2-2-23</u>													
<u>12</u>	<u>FS 63 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>															
<u>13</u>	<u>FS 64 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>															
<u>14</u>	<u>FS 65 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>															
<u>15</u>	<u>FS 66 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>															
<u>16</u>	<u>FS 67 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>															
<p>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.</p>																									
Relinquished By: <u>[Signature]</u>		Date: <u>2-2-23</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																	
		Time: <u>4:22pm</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																	
Relinquished By:		Date:		Received By:		REMARKS:																			
		Time:																							
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																	
Sampler - UPS - Bus - Other: <u>3.0c / 2.4c</u>				Cool Intact <u>✓</u>				(Initials)																	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>[Signature]</u>																	

FORM-006
Revision 1.0

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

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



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

February 07, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/03/23 15:37.

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

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' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 68 @ 2 (H230493-01)

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	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEx	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 69 @ 2 (H230493-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 70 @ 2 (H230493-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 71 @ 2 (H230493-04)

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	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEx	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 72 @ 2 (H230493-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEx	<0.300	0.300	02/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 73 @ 2 (H230493-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 74 @ 2 (H230493-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 75 @ 2 (H230493-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 76 @ 2 (H230493-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 77 @ 2 (H230493-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 @ 2 (H230493-11)

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	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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

Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 78 @ 4 (H230493-12)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 79 @ 4 (H230493-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/07/2023	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	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 80 @ 3 (H230493-14)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21		
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91		
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26		
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83		
Total BTEX	<0.300	0.300	02/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 81 @ 3 (H230493-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEx	<0.300	0.300	02/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 6 (H230493-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEx	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 5 (H230493-17)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 6 (H230493-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.01	100	2.00	6.21	
Toluene*	<0.050	0.050	02/07/2023	ND	2.05	102	2.00	6.91	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	2.02	101	2.00	7.26	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	6.27	104	6.00	7.83	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/06/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/03/2023
 Reported: 02/07/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 4 (H230493-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2023	ND	2.05	103	2.00	4.97	
Toluene*	<0.050	0.050	02/07/2023	ND	2.03	102	2.00	4.78	
Ethylbenzene*	<0.050	0.050	02/07/2023	ND	1.98	99.1	2.00	5.86	
Total Xylenes*	<0.150	0.150	02/07/2023	ND	5.97	99.5	6.00	6.54	
Total BTEX	<0.300	0.300	02/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/06/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2023	ND	184	92.1	200	5.57	
DRO >C10-C28*	<10.0	10.0	02/06/2023	ND	185	92.4	200	6.81	
EXT DRO >C28-C36	<10.0	10.0	02/06/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 23 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: Newbourn																			
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broom																	
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus Blvd																			
Project #: 17464		Project Owner: Newbourn		City: Hobbs																			
Project Name: Foxhole Tank farm				State: NM																Zip:			
Project Location: Rural Curisbad N.M.				Phone #:																			
Sampler Name: Domicasarc				Fax #:																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV.		SAMPLING									
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME									
H230493		PC 11		FS 16@2		C 1								2-3-23									
12		FS 78@4				C 1																	
13		FS 79@4				C 1																	
14		FS 80@3				C 1																	
15		FS 81@3				C 1																	
16		WW6				C 1																	
17		NW5				C 1																	
18		NW6				C 1																	
19		NW4				C 1																	
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																							
Relinquished By:				Date: 2-3-23		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:									
				Time: 1537						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:									
Relinquished By:				Date:		Received By:				REMARKS:													
				Time:						Please email results and copy of CoC to pm@etechenv.com.													
Delivered By: (Circle One)				Date:		Sample Condition												CHECKED BY:					
Sampler - UPS - Bus - Other:				Time:		Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				(Initials) 													

FORM-006
Revision 1.0

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

February 08, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/06/23 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 82 @ 2 (H230508-01)

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	02/08/2023	ND	2.03	102	2.00	3.88		
Toluene*	<0.050	0.050	02/08/2023	ND	2.07	104	2.00	4.55		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.05	102	2.00	4.44		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.30	105	6.00	4.34		
Total BTEX	<0.300	0.300	02/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 83 @ 2 (H230508-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.03	102	2.00	3.88		
Toluene*	<0.050	0.050	02/08/2023	ND	2.07	104	2.00	4.55		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.05	102	2.00	4.44		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.30	105	6.00	4.34		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 84 @ 2 (H230508-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.03	102	2.00	3.88		
Toluene*	<0.050	0.050	02/08/2023	ND	2.07	104	2.00	4.55		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.05	102	2.00	4.44		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.30	105	6.00	4.34		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 85 @ 2 (H230508-04)

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	02/08/2023	ND	2.03	102	2.00	3.88		
Toluene*	<0.050	0.050	02/08/2023	ND	2.07	104	2.00	4.55		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.05	102	2.00	4.44		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.30	105	6.00	4.34		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 86 @ 2 (H230508-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 87 @ 2 (H230508-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/07/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 88 @ 2 (H230508-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/07/2023	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: NW 15 (H230508-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: WW 7 (H230508-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: EW 3 (H230508-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 92 @ 2 (H230508-11)

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	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 93 @ 2 (H230508-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 94 @ 2 (H230508-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 95 @ 2 (H230508-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEx	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500CI-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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 96 @ 2 (H230508-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/07/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/07/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 97 @ 2 (H230508-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 98 @ 2 (H230508-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/06/2023	Sampling Date:	02/06/2023
Reported:	02/08/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 99 @ 2 (H230508-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	1.93		
Toluene*	<0.050	0.050	02/08/2023	ND	2.11	105	2.00	2.26		
Ethylbenzene*	<0.050	0.050	02/08/2023	ND	2.08	104	2.00	2.03		
Total Xylenes*	<0.150	0.150	02/08/2023	ND	6.28	105	6.00	2.56		
Total BTEX	<0.300	0.300	02/08/2023	ND						

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

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	02/07/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	204	102	200	2.07	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	197	98.3	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Lance Erenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																	
Address: 2617 W Marland				Company: Mawbourn																					
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Brown																			
Phone #: (575) 264-9884		Fax #:		Address: 4201 Bus p Blvd		City: Hobbs																			
Project #: 17464		Project Owner: Mawbourn		State: NM		Zip:																			
Project Name: Foxhole tank farm				Phone #:																					
Project Location: Rural Carlsbad NM.				Fax #:																					
Sampler Name: Dominic Casarez																									
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING													
								GROUNDWATER																	
								WASTEWATER																	
								SOIL																	
								SLUDGE																	
								OTHER:																	
								ACID/BASE:																	
								ICE / COOL																	
								OTHER:																	
										DATE		TIME													
H230508																									
DC 11 FS 92 @ 2				C 1																					
12 FS 93 @ 2				C 1																					
13 FS 94 @ 2				C 1																					
14 FS 95 @ 2				C 1																					
15 FS 96 @ 2				C 1																					
16 FS 97 @ 2				C 1																					
17 FS 98 @ 2				C 1																					
18 FS 99 @ 2				C 1																					
<small>PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																									
Relinquished By: Dom Casarez				Date: 2-6-23		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: 10:20						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:						Please email results and copy of CoC to pm@etechenv.com.															
Delivered By: (Circle One)																									
Sampler - UPS - Bus - Other: 2.2c / 1.6c																									
						Sample Condition				CHECKED BY:															
						Cool Intact				(Initials)															
						<input type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]															
						<input type="checkbox"/> No <input type="checkbox"/> Yes																			



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

February 13, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/07/23 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 100 @ 2 (H230527-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62	
Total BTX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/07/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 101 @ 2 (H230527-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEX	<0.300	0.300	02/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 102 @ 2 (H230527-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEx	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 103 @ 2 (H230527-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTX	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2023	ND	207	104	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/08/2023	ND	205	102	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	02/08/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 104 @ 2 (H230527-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEX	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 105 @ 2 (H230527-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEX	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 89 @ 3 (H230527-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEx	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 90 @ 3 (H230527-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEx	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 91 @ 3 (H230527-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEx	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 11 (H230527-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/09/2023	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	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 106 @ 2 (H230527-11)

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	02/11/2023	ND	2.04	102	2.00	2.19		
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15		
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44		
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62		
Total BTEX	<0.300	0.300	02/11/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/09/2023	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	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/07/2023	Sampling Date:	02/07/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 107 @ 2 (H230527-12)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.04	102	2.00	2.19	
Toluene*	<0.050	0.050	02/11/2023	ND	2.09	105	2.00	3.15	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	2.44	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.37	106	6.00	3.62	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/09/2023	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	02/09/2023	ND	187	93.7	200	5.09	
DRO >C10-C28*	<10.0	10.0	02/09/2023	ND	177	88.3	200	8.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																	
Project Manager: <u>Lance Crenshaw</u>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: 2617 W Marland		Company: <u>Mewbourn</u>																			
City: Hobbs State: NM Zip: 88240		Attn: <u>Jeff Broom</u>																			
Phone #: (575) 264-9884 Fax #:		Address: <u>4801 Bks p Blvd</u>																			
Project #: <u>17464</u> Project Owner: <u>Mewbourn</u>		City: <u>Hobbs</u>																			
Project Name: <u>Fox Hole Tank farm</u>		State: <u>NM</u> Zip:																			
Project Location: <u>Rural Carlsbad N-M-</u>		Phone #:																			
Sampler Name: <u>Dominic Casarez</u>		Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
<u>H230527</u>																					
<u>DC 1</u>	<u>FS 100 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>2-7-23</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>				
<u>2</u>	<u>FS 101 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>3</u>	<u>FS 102 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>4</u>	<u>FS 103 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>5</u>	<u>FS 104 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>6</u>	<u>FS 105 @ 2</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>7</u>	<u>FS 89 @ 3</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>8</u>	<u>FS 90 @ 3</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>9</u>	<u>FS 91 @ 3</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											
<u>10</u>	<u>SW11</u>	<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>											

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Relinquished By: <u>[Signature]</u>	Date: <u>2-7-23</u>	Received By: <u>[Signature]</u>	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 #:
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <u>2.7c/2.1c</u>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>	

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

FORM-006
Revision 1.0

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



ARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

FORM-006
Revision 1.0

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



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

February 13, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 108 @ 2 (H230576-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	0.234		
Toluene*	<0.050	0.050	02/12/2023	ND	2.03	101	2.00	0.802		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.97	98.5	2.00	0.378		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	5.96	99.3	6.00	0.587		
Total BTX	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 109 @ 2 (H230576-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 110 @ 2 (H230576-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 111 @ 2 (H230576-04)

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	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEX	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505		
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48		
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND						

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 112 @ 2 (H230576-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 113 @ 2 (H230576-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEX	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 114 @ 2 (H230576-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88	
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75	
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59	
Total BTEX	<0.300	0.300	02/12/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 115 @ 2 (H230576-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88	
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75	
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59	
Total BTEX	<0.300	0.300	02/12/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/10/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	193	96.4	200	0.505	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	174	87.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 116 @ 2 (H230576-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 117 @ 2 (H230576-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 118 @ 2 (H230576-11)

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	02/12/2023	ND	2.05	102	2.00	4.88	
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75	
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59	
Total BTEx	<0.300	0.300	02/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 119 @ 2 (H230576-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEX	<0.300	0.300	02/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 120 @ 2 (H230576-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEX	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 121 @ 2 (H230576-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88	
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75	
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59	
Total BTEx	<0.300	0.300	02/12/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/10/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/13/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 122 @ 2 (H230576-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88		
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77		
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75		
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59		
Total BTEx	<0.300	0.300	02/12/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/08/2023	Sampling Date:	02/08/2023
Reported:	02/13/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 123 @ 2 (H230576-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2023	ND	2.05	102	2.00	4.88	
Toluene*	<0.050	0.050	02/12/2023	ND	2.04	102	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/12/2023	ND	1.99	99.4	2.00	5.75	
Total Xylenes*	<0.150	0.150	02/12/2023	ND	6.08	101	6.00	4.59	
Total BTEx	<0.300	0.300	02/12/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	188	94.0	200	1.28	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	204	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 W Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 17464 Project Owner: Project Name: Fox hole tank farm Project Location: Rural Carlsbad & NM Sampler Name: Dominic Casarez				BILL TO P.O. #: 1 Company: Newbourn Attn: Jeff Brism Address: 4801 Bus p 1418 City: Hobbs State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING		Chloride TPH (8015M) BTEX (8021B)															
Lab I.D.		Sample I.D.		(G/RAB OR C/COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H230576																											
DZ 1		FS 108 @ 2		C 1								✓						✓						2-8-23			
2		FS 109 @ 2		C 1								✓						✓									
3		FS 110 @ 2		C 1								✓						✓									
4		FS 111 @ 2		C 1								✓						✓									
5		FS 112 @ 2		C 1								✓						✓									
6		FS 113 @ 2		C 1								✓						✓									
7		FS 114 @ 2		C 1								✓						✓									
8		FS 115 @ 2		C 1								✓						✓									
9		FS 116 @ 2		C 1								✓						✓									
10		FS 117 @ 2		C 1								✓						✓									
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Relinquished By: Dom AR				Date: 2-8-23 Time: 1405				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:				Add'l Phone #: Add'l Fax #:											
Relinquished By:				Date: Time:				Received By:																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				#13 3.42/2.8				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) TO				Please email results and copy of CoC to pm@etechenv.com.											

FORM-006
Revision 1.0

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**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Lance Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																																	
Address: 2617 W Marland				Company: Mewbourn																																					
City: Hobbs State: NM Zip: 88240				Attn: Jeff Brody																																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bys p Blvd																																					
Project #: 17464 Project Owner: Mewbourn				City: Hobbs																																					
Project Name: Fox hole tank farm				State: NM Zip:																																					
Project Location: Rural Carlsbad NM				Phone #:																																					
Sampler Name: Dominick Casarez				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													
H230574																																									
DC 11		FS 118 @ 2		1		1						✓										✓				28-23				✓											
12		FS 119 @ 2		1		1						✓										✓								✓											
13		FS 120 @ 2		1		1						✓										✓								✓											
14		FS 121 @ 2		1		1						✓										✓								✓											
15		FS 122 @ 2		1		1						✓										✓								✓											
16		FS 123 @ 2		1		1						✓										✓								✓											
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FORM-006
Revision 1.0

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

February 15, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/09/23 16:21.

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

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 fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 124 @ 2 (H230616-01)

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	02/14/2023	ND	2.07	104	2.00	1.47	
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04	
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67	
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655	
Total BTEX	<0.300	0.300	02/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 125 @ 2 (H230616-02)

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	02/14/2023	ND	2.07	104	2.00	1.47	
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04	
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67	
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655	
Total BTX	<0.300	0.300	02/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 126 @ 2 (H230616-03)

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	02/14/2023	ND	2.07	104	2.00	1.47	
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04	
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67	
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655	
Total BTX	<0.300	0.300	02/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 127 @ 2 (H230616-04)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2023	ND	2.07	104	2.00	1.47	
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04	
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67	
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655	
Total BTX	<0.300	0.300	02/14/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 128 @ 2 (H230616-05)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/14/2023	ND	2.07	104	2.00	1.47		
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04		
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67		
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655		
Total BTX	<0.300	0.300	02/14/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 129 @ 2 (H230616-06)

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	02/14/2023	ND	2.07	104	2.00	1.47		
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04		
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67		
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655		
Total BTX	<0.300	0.300	02/14/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 130 @ 2 (H230616-07)

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	02/14/2023	ND	2.07	104	2.00	1.47		
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04		
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67		
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655		
Total BTX	<0.300	0.300	02/14/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/09/2023
 Reported: 02/15/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 8 (H230616-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2023	ND	2.07	104	2.00	1.47	
Toluene*	<0.050	0.050	02/14/2023	ND	2.11	106	2.00	2.04	
Ethylbenzene*	<0.050	0.050	02/14/2023	ND	2.09	104	2.00	1.67	
Total Xylenes*	<0.150	0.150	02/14/2023	ND	6.43	107	6.00	0.655	
Total BTEX	<0.300	0.300	02/14/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/14/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	215	107	200	2.15	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	206	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crenshaw				P.O. #: 1				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: Mewbourn															
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom															
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bus P Blvd															
Project #: 17461 Project Owner: Mewbourn				City: Hobbs															
Project Name: Fox Hole Tank Farm				State: NM Zip:															
Project Location: Rural Carlsbad N.M.				Phone #:															
Sampler Name: Dominic Casarez				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:						
HA30616																				
1	FS 124 @ 2																			
2	FS 125 @ 2																			
3	FS 126 @ 2																			
4	FS 127 @ 2																			
5	FS 128 @ 2																			
6	FS 129 @ 2																			
7	FS 130 @ 2																			
8	WWP																			

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Relinquished By: Date: 2-9-23 Time: 11:02A	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Relinquished By: Date: Time:	Received By: Date: Time:	

Delivered By: (Circle One) 0.4i 0.0.0i Sampler - UPS - Bus - Other: - 0.2i #113	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials)
--	--	--------------------------------------

FORM-006
Revision 1.0

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



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

February 17, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/10/23 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 132 @ 2 (H230653-01)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/15/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	181	90.7	200	0.478	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	184	91.9	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 133 @ 2 (H230653-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/15/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	181	90.7	200	0.478	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	184	91.9	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 134 @ 2 (H230653-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	181	90.7	200	0.478	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	184	91.9	200	5.09	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 135 @ 2 (H230653-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 136 @ 2 (H230653-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76		
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29		
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 137 @ 2 (H230653-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/10/2023
 Reported: 02/17/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 138 @ 2 (H230653-07)

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	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 02/10/2023
 Reported: 02/17/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 139 @ 2 (H230653-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 140 @ 2 (H230653-09)

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	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: EW 4 (H230653-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	2.05	102	2.00	6.43		
Toluene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	6.24		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.02	100	6.00	6.61		
Total BTEX	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: EW 5 (H230653-11)

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	02/16/2023	ND	1.98	99.1	2.00	4.38		
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75		
Total BTEX	<0.300	0.300	02/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 141 @ 2 (H230653-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38		
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75		
Total BTEX	<0.300	0.300	02/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 131 @ 2 (H230653-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2023	ND	1.98	99.1	2.00	4.38		
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22		
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73		
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75		
Total BTEx	<0.300	0.300	02/16/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 17

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: Mewbourn																			
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																			
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bus p Blvd																			
Project #: 17464 Project Owner: Mewbourn				City: Hobbs																			
Project Name: Fox hole Tank farm				State: NM Zip:																			
Project Location: Rural Carlsbad NM				Phone #:																			
Sampler Name: Dominick Casarez				Fax #:																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H230653																							
DC 1	FS 132 @ 2	C	1			✓			✓			2/10/23		✓	✓	✓							
2	FS 133 @ 2	C	1			✓			✓														
3	FS 134 @ 2	C	1			✓			✓														
4	FS 135 @ 2	C	1			✓			✓														
5	FS 136 @ 2	C	1			✓			✓														
6	FS 137 @ 2	C	1			✓			✓														
7	FS 138 @ 2	C	1			✓			✓														
8	FS 139 @ 2	C	1			✓			✓														
9	FS 140 @ 2	C	1			✓			✓														
10	EW 4	C	1			✓			✓														

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Relinquished By: Date: 2/10/23 Time: 1612	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Relinquished By: Date: Time:	Received By: Date: Time:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#113 4.6°C / 40°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
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FORM-006
Revision 1.0

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: Mewbourn																									
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																									
Phone #: (575) 264-9884 Fax #:				Address: 4901 Bus p Blvd																									
Project #: 17414 Project Owner: Mewbourn				City: Hobbs																									
Project Name: Fox hole tank farm				State: NM Zip:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Project Location: Rural Parishad NM				Phone #:																									
Sampler Name: Dominic Casarez				Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	ON	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H230653	DC11 EW5	C	1			✓							2/10/23		✓	✓	✓												
	12 FS 141 @ 2	C	1			✓							2/10/23		✓	✓	✓												
	13 FS 131 @ 2	I	1			✓							I		✓	✓	✓	TP. 2/13/23											
<p>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.</p>																													
Relinquished By: [Signature]		Date: 2/10/23		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:																			
Time: 1:52		Time: 2/10/23		Time: 2/10/23		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By:		Date:		Received By:		Time:		Time:																					
Delivered By: (Circle One)				#113				Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other:				4.6c / 4.0c				Cool Intact				TO																	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					

FORM-006
Revision 1.0

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



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

February 19, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 142 @ 2 (H230681-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTX	<0.300	0.300	02/18/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 143 @ 2 (H230681-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2023
 Reported: 02/19/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 144 @ 4 (H230681-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/13/2023
 Reported: 02/19/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 145 @ 4 (H230681-04)

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	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 146 @ 4 (H230681-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEx	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 147 @ 3 (H230681-06)

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	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

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

Received: 02/13/2023
 Reported: 02/19/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 148 @ 3 (H230681-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 149 @ 3 (H230681-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 150 @ 2 (H230681-09)

BTEx 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	0.247		
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78		
Total BTEX	<0.300	0.300	02/18/2023	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2023	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43		
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32		
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND						

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2023
 Reported: 02/19/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 151 @ 2 (H230681-10)

BTX 8021B		mg/kg		Analyzed By: ZZZ				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	0.582		
Toluene*	<0.050	0.050	02/17/2023	ND	2.15	108	2.00	0.313		
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.47	123	2.00	0.184	QR-03	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.54	126	6.00	0.0586	QR-03	
Total BTX	<0.300	0.300	02/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 161 % 71.5-134

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	112	16.0	02/16/2023	ND	416	104	400	3.77			

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43		
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32		
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND						

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

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

Received: 02/13/2023
 Reported: 02/19/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 152 @ 2 (H230681-11)

BTEx 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	0.582	
Toluene*	<0.050	0.050	02/17/2023	ND	2.15	108	2.00	0.313	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.47	123	2.00	0.184	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.54	126	6.00	0.0586	
Total BTEX	<0.300	0.300	02/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 153 @ 2 (H230681-12)

BTEx 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	0.582	
Toluene*	<0.050	0.050	02/17/2023	ND	2.15	108	2.00	0.313	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.47	123	2.00	0.184	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.54	126	6.00	0.0586	
Total BTEX	<0.300	0.300	02/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	193	96.3	200	3.32	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																
Project Manager: <u>Lance Crenshaw</u>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																
Address: 2617 W Marland		Company: <u>Mewbourn</u>																		
City: Hobbs State: NM Zip: 88240		Attn: <u>Jeff Brown</u>																		
Phone #: (575) 264-9884 Fax #:		Address: <u>4801 Bus p Blvd</u>																		
Project #: <u>17464</u> Project Owner: <u>Mewbourn</u>		City: <u>Hobbs</u>																		
Project Name: <u>Fox hole Tank farm</u>		State: <u>NM</u> Zip: <u></u>																		
Project Location: <u>Rural Carlsbad N.M.</u>		Phone #:																		
Sampler Name: <u>Dominic Casarez</u>		Fax #:																		
FOR LAB USE ONLY																				
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						
<u>H230681</u>																				
DC	FS 141 @ 2	C	1			✓				✓			2/13/23							
DC 1	FS 142 @ 2	C	1			✓				✓			2/13/23							
2	FS 143 @ 2	C	1			✓				✓										
3	FS 144 @ 4	C	1			✓				✓										
4	FS 145 @ 4	C	1			✓				✓										
5	FS 146 @ 4	C	1			✓				✓										
6	FS 147 @ 3	C	1			✓				✓										
7	FS 148 @ 3	C	1			✓				✓										
8	FS 149 @ 3	C	1			✓				✓										
9	FS 150 @ 2	C	1			✓				✓										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and resolved by Cardinal within 30 days after completion of the applicable service. No event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																				
Relinquished By: <u>[Signature]</u>		Date: <u>2/13/23</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: Please email results and copy of CoC to pm@etechenv.com.										
Time: <u>1615</u>		Time: <u></u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
Relinquished By:		Date:		Received By:		Time:														
Delivered By: (Circle One)		#13		Sample Condition		CHECKED BY: (Initials)														
Sampler - UPS - Bus - Other: <u>2.1c / 1.5c</u>				Cool Intact		<u>JO</u>														
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																

FORM-006
Revision 1.0

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

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101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 21, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/15/23 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/15/2023	Sampling Date:	02/15/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 154 @ 2 (H230723-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	104	2.00	3.97	
Toluene*	<0.050	0.050	02/21/2023	ND	2.05	102	2.00	3.37	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.14	107	2.00	0.928	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.46	108	6.00	1.09	
Total BTEX	<0.300	0.300	02/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 155 @ 2 (H230723-02)

BTX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	104	2.00	3.97		
Toluene*	<0.050	0.050	02/21/2023	ND	2.05	102	2.00	3.37		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.14	107	2.00	0.928		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.46	108	6.00	1.09		
Total BTX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 156 @ 2 (H230723-03)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	104	2.00	3.97	
Toluene*	<0.050	0.050	02/21/2023	ND	2.05	102	2.00	3.37	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.14	107	2.00	0.928	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.46	108	6.00	1.09	
Total BTEx	<0.300	0.300	02/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 (H230723-04)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	1.95	97.7	2.00	0.766		
Toluene*	<0.050	0.050	02/21/2023	ND	1.98	99.0	2.00	2.28		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.16	108	2.00	4.80		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.63	111	6.00	6.08		
Total BTEx	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 9 (H230723-05)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	1.95	97.7	2.00	0.766	
Toluene*	<0.050	0.050	02/21/2023	ND	1.98	99.0	2.00	2.28	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.16	108	2.00	4.80	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.63	111	6.00	6.08	
Total BTEx	<0.300	0.300	02/21/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 10 (H230723-06)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	1.95	97.7	2.00	0.766		
Toluene*	<0.050	0.050	02/21/2023	ND	1.98	99.0	2.00	2.28		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.16	108	2.00	4.80		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.63	111	6.00	6.08		
Total BTEx	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 157 @ 2 (H230723-07)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	1.95	97.7	2.00	0.766		
Toluene*	<0.050	0.050	02/21/2023	ND	1.98	99.0	2.00	2.28		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.16	108	2.00	4.80		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.63	111	6.00	6.08		
Total BTEX	<0.300	0.300	02/21/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/15/2023
 Reported: 02/21/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/15/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 158 @ 2 (H230723-08)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	1.95	97.7	2.00	0.766		
Toluene*	<0.050	0.050	02/21/2023	ND	1.98	99.0	2.00	2.28		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	2.16	108	2.00	4.80		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	6.63	111	6.00	6.08		
Total BTEX	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	202	101	200	4.11	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	218	109	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Mewbourn																							
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bvs p Blvd																							
Project #: 17464 Project Owner: Mewbourn				City: Hobbs																							
Project Name: Fox hole tank farm				State: NM Zip:																							
Project Location: Rural Carlsbad NM				Phone #:																							
Sampler Name: Dominic Casarez				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME	
H230723																											
DC		1 FS 154@2		C		1																					
		2 FS 155@2		C		1																					
		3 FS 156@2		C		1																					
		4 SW12		C		1																					
		5 WW9		C		1																					
		6 WW10		C		1																					
		7 FS 157@2		C		1																					
		8 FS 158@2		C		1																					

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Relinquished By: <i>Draft</i>	Date: 2/15/23 Time: 1612	Received By: <i>S. Rodriguez</i>	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 #:
Delivered By: (Circle One) 4.4: C-O 4.2			Sample Condition	
Sampler - UPS - Bus - Other: 3.8: #113			Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			CHECKED BY: (Initials) <i>SR</i>	

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

FORM-006
Revision 1.0

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



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

February 22, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/17/23 15:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 13 (H230762-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 14 (H230762-02)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 15 (H230762-03)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: EW 6 (H230762-04)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2023	Sampling Date:	02/17/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: NW 16 (H230762-05)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 159 @ 4 (H230762-06)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 160 @ 4 (H230762-07)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 161 @ 2 (H230762-08)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 162 @ 2 (H230762-09)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 163 @ 2 (H230762-10)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 164 @ 2 (H230762-11)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/20/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/20/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 165 @ 5 (H230762-12)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEx	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/17/2023
 Reported: 02/22/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 166 @ 2 (H230762-13)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2023	ND	2.07	103	2.00	0.429		
Toluene*	<0.050	0.050	02/22/2023	ND	2.21	110	2.00	0.00122		
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.33	117	2.00	4.11		
Total Xylenes*	<0.150	0.150	02/22/2023	ND	7.00	117	6.00	5.94		
Total BTEX	<0.300	0.300	02/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	205	102	200	3.35	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	220	110	200	4.96	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 17

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #: 1				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: Mewbourn																			
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Broome																	
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bus & Blvd																			
Project #: 17464		Project Owner: Mewbourn		City: Hobbs																			
Project Name: Fox hole Tank farm				State: NM																Zip:			
Project Location: Rural Carlsbad NM				Phone #:																			
Sampler Name: Dominic Casarez				Fax #:																			
<div style="display: flex;"> <div style="width: 10%;">FOR LAB USE ONLY</div> <div style="width: 10%;">Lab I.D.</div> <div style="width: 10%;">Sample I.D.</div> <div style="width: 5%;">(G)RAB OR (C)OMP.</div> <div style="width: 5%;"># CONTAINERS</div> <div style="width: 10%;"> MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: </div> <div style="width: 10%;"> PRESERV. ACID/BASE ICE / COOL OTHER: </div> <div style="width: 10%;"> SAMPLING DATE TIME </div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">H230762</div> <div style="width: 10%;">DC</div> <div style="width: 10%;">1 SW13</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">2</div> <div style="width: 10%;">SW14</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">3</div> <div style="width: 10%;">SW15</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">4</div> <div style="width: 10%;">EW6</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">5</div> <div style="width: 10%;">NW16</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">6</div> <div style="width: 10%;">FS 159 @ 4</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">7</div> <div style="width: 10%;">FS 160 @ 4</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">8</div> <div style="width: 10%;">FS 161 @ 2</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">9</div> <div style="width: 10%;">FS 162 @ 2</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<div style="display: flex;"> <div style="width: 10%;">10</div> <div style="width: 10%;">FS 163 @ 2</div> <div style="width: 5%;">C</div> <div style="width: 5%;">1</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">✓</div> <div style="width: 10%;">2/7</div> </div>																							
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																							
Relinquished By: Dom CAZ				Date: 2/7		Received By: [Signature]				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 #:											
Delivered By: (Circle One)				Date:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials)		Please email results and copy of CoC to pm@etechenv.com.											
Sampler - UPS - Bus - Other:				4.6°C / 4.0°C																			

FORM-006
Revision 1.0

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 01, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/24/23 16:07.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 167 @ 2 (H230878-01)

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	02/28/2023	ND	2.11	106	2.00	0.670	
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548	
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895	
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23	
Total BTEX	<0.300	0.300	02/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/27/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	223	112	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	215	108	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 168 @ 2 (H230878-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTEX	<0.300	0.300	02/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	223	112	200	6.25	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	215	108	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 169 @ 2 (H230878-03)

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	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTX	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 170 @ 2 (H230878-04)

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	02/28/2023	ND	2.11	106	2.00	0.670		
Toluene*	<0.050	0.050	02/28/2023	ND	2.05	103	2.00	0.548		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	0.895		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.07	101	6.00	1.23		
Total BTEx	<0.300	0.300	02/28/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 12 (H230878-05)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	7.28		
Toluene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	8.02		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.14	107	2.00	7.73		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.50	108	6.00	6.84		
Total BTEx	<0.300	0.300	02/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 13 (H230878-06)

BTEx 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	7.28		
Toluene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	8.02		
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.14	107	2.00	7.73		
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.50	108	6.00	6.84		
Total BTEX	<0.300	0.300	02/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 16 (H230878-07)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	7.28	
Toluene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	8.02	
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.14	107	2.00	7.73	
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.50	108	6.00	6.84	
Total BTX	<0.300	0.300	02/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/24/2023
 Reported: 03/01/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 17 (H230878-08)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2023	ND	2.08	104	2.00	7.28	
Toluene*	<0.050	0.050	02/28/2023	ND	2.00	100	2.00	8.02	
Ethylbenzene*	<0.050	0.050	02/28/2023	ND	2.14	107	2.00	7.73	
Total Xylenes*	<0.150	0.150	02/28/2023	ND	6.50	108	6.00	6.84	
Total BTX	<0.300	0.300	02/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2023	ND	212	106	200	11.2	
DRO >C10-C28*	<10.0	10.0	02/27/2023	ND	201	101	200	14.9	
EXT DRO >C28-C36	<10.0	10.0	02/27/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: Mewbourn																									
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																									
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bosq Blvd																									
Project #: 17464 Project Owner: Mewbourn				City: Hobbs																									
Project Name: Fox hole Tank farm				State: NM Zip:																									
Project Location: Rural near Carlsbad N.M.				Phone #:																									
Sampler Name: Dominic Casarez				Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																					
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H230878																													
DC1	FS 167 @ 2	C	1			✓					✓		2-24		✓	✓	✓												
2	FS 168 @ 2	C	1			✓					✓																		
3	FS 169 @ 2	C	1			✓					✓																		
4	FS 170 @ 2	C	1			✓					✓																		
5	WW 12	C	1			✓					✓																		
6	WW 13	C	1			✓					✓																		
7	SW 16	C	1			✓					✓																		
8	NW 17	C	1			✓					✓																		
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Relinquished By:		Date: 2-24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: Please email results and copy of CoC to pm@etechenv.com.																			
		Time: 11:07		Signature: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By:		Date:		Received By:																									
		Time:																											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																					
Sampler - UPS - Bus - Other: 4.1c X-0.6c 3.5c #113				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) SK																					

FORM-006
Revision 1.0

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



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

March 02, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FOXHOLE TANK FARM

Enclosed are the results of analyses for samples received by the laboratory on 02/27/23 15:46.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: FS 171 @ 2 (H230907-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.99	99.5	2.00	10.7		
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7		
Total BTEX	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/01/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2023
 Reported: 03/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 172 @ 3 (H230907-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.99	99.5	2.00	10.7		
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/01/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2023
 Reported: 03/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 173 @ 4 (H230907-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2023	ND	1.99	99.5	2.00	10.7	
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7	
Total BTEX	<0.300	0.300	03/01/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/01/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/27/2023
 Reported: 03/02/2023
 Project Name: FOXHOLE TANK FARM
 Project Number: 17464
 Project Location: MEWBOURNE - CARLSBAD, NM

Sampling Date: 02/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 14 (H230907-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.99	99.5	2.00	10.7		
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7		
Total BTEx	<0.300	0.300	03/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/01/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/27/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	FOXHOLE TANK FARM	Sampling Condition:	Cool & Intact
Project Number:	17464	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - CARLSBAD, NM		

Sample ID: SW 17 (H230907-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/01/2023	ND	1.99	99.5	2.00	10.7		
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73		
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0		
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7		
Total BTEx	<0.300	0.300	03/01/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/01/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
A-01	GRO blank spike failed high. Result deemed acceptable because all samples were ND for GRO.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 W Marland				Company: Newbourn																			
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																			
Phone #: (575) 264-9884 Fax #:				Address: 4801 B's p Blvd																			
Project #: 17464 Project Owner: Newbourn				City: Hobbs																			
Project Name: Fox hole Tank farm				State: NM Zip:																			
Project Location: Rural Carlisbad N.M.				Phone #:																			
Sampler Name: Dominic Casarez				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME									
H230907																							
DC 1	FS 171 @ 2	C	1			✓				✓			2-27		✓	✓	✓						
2	FS 172 @ 3	C	1			✓				✓					↓	↓	↓						
3	FS 173 @ 4	C	1			✓				✓					↓	↓	↓						
4	WW/14	C	1			✓				✓					↓	↓	↓						
5	SW/17	C	1			✓				✓					↓	↓	↓						
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																							
Relinquished By: DomC#2		Date: 2-27		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS:									
Relinquished By:		Date:		Received By:		REMARKS:																	
Time: 1546		Time:																					
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.											
Sampler - UPS - Bus - Other: 4.1°/3.5°				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) YO.															

FORM-006
Revision 1.0

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

Appendix E

Regulatory Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Lance Crenshaw](#); [Connor Walker](#); [Jeff Broom](#); [Joel Lowry](#); [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Zach Conder](#)
Subject: RE: [EXTERNAL] nAPP2219360589 - Foxhole Tank Farm - Proposed Alternative Sampling Plan
Date: Wednesday, February 1, 2023 3:06:25 PM
Attachments: [image010.png](#)
[image011.png](#)
[image012.png](#)

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

Ben,

Thank you for the data and information. The OCD approves the variance request for 500 ft² confirmation sample size. Please include this email in the Closure Report. I will try to review the Remediation Plan as soon as possible. Thanks

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <bena@etechenv.com>
Sent: Wednesday, February 1, 2023 1:58 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Joel Lowry <joel@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Zach Conder <zach@etechenv.com>
Subject: RE: [EXTERNAL] nAPP2219360589 - Foxhole Tank Farm - Proposed Alternative Sampling Plan

Mr. Hamlet,

Thank you for the quick response. As I mentioned in my original email, the proposed Alternative Sampling Plan was requested in the Work Plan that Mewbourne submitted to the NMOCD on 1/4/23. To my knowledge, the Work Plan has not yet been reviewed, but Etech has already begun remediation activities at the site. Mewbourne believes the information/summary and side-by-side comparison map I provided in that email demonstrate that there is a nominal difference between the requested sampling plan and the standard 200-square-foot plan, and the proposed Alternative Sampling Plan provides an equal protection of fresh water, public health, and the environment.

That said, since the NMOCD's primary concern is presumably that a larger sampling grid size increases the risk that hotspots of contamination are missed, I used the Pacific Northwest National Laboratory's

“Visual Sampling Plan” (VSP) software to compare the likelihood that hotspots are detected under each sampling plan. The VSP Hot Spot Design Module (see screenshots below) indicates that the smallest hotspot that can be detected with a 500-square-foot grid pattern (approximately 22’ x 22’) has a radius 6.59 feet, as compared to a 4.19-foot radius with a 200-square-foot-grid (approximately 14’ x 14’). This further demonstrates that the difference between the two plans is nominal. Also, please keep in mind that the areas most likely to contain hotspots were identified and sampled during the initial site assessment (see Work Plan and accompanying documentation).

Locating a Hot Spot

Locating a Hot Spot | Grid | Hot Spot | Costs

Specify Parameter to Calculate

I want to solve for:

- ☐ # of samples / grid spacing / total cost required to detect a hot spot of a specified size.
- ☐ probability of detecting a hot spot of a specified size with a fixed number of samples.
- ☒ the size of hot spot that can be detected with a fixed number of samples.

Input Parameters

I want to specify how many samples to take in terms of:

- ☒ the grid spacing (see Grid page)
- ☐ the total number of samples*. samples will be taken.
- ☐ the total cost (see Costs page). \$ will be available for sampling costs.

I want to have at least a % chance of detecting the specified hot spot.

Using 22 foot cell samples arranged in a square grid pattern with a maximum spacing of 11.00 feet between samples (see grid page), the smallest circular hot spot that can be detected with a 95% probability has a radius of 6.59 feet.

* Based on a theoretical sampling area of 133255.00 feet².

OK Cancel Apply Help

Locating a Hot Spot

Locating a Hot Spot | Grid | Hot Spot | Costs

Specify Parameter to Calculate

I want to solve for:

- ☐ # of samples / grid spacing / total cost required to detect a hot spot of a specified size.
- ☐ probability of detecting a hot spot of a specified size with a fixed number of samples.
- ☒ the size of hot spot that can be detected with a fixed number of samples.

Input Parameters

I want to specify how many samples to take in terms of:

- ☒ the grid spacing (see Grid page)
- ☐ the total number of samples*. samples will be taken.
- ☐ the total cost (see Costs page). \$ will be available for sampling costs.

I want to have at least a % chance of detecting the specified hot spot.

Using 14 foot cell samples arranged in a square grid pattern with a maximum spacing of 7.00 feet between samples (see grid page), the smallest circular hot spot that can be detected with a 95% probability has a radius of 4.19 feet.

* Based on a theoretical sampling area of 133255.00 feet².

OK Cancel Apply Help

I also used an equation (see below) from the Lawrence Livermore National Laboratory (LLNL, <https://www.ncbi.nlm.nih.gov/books/NBK236599/>) in order to determine the probability (percentage) that a hotspot of a given radius (up to 20 feet) is sampled based on the size of the sampling grid. The probabilities are similar and differences are nominal for each of the calculated radii.

$$P = \frac{\pi r^2}{S^2}$$

Grid Area (ft ²)	Grid Cell Spacing (ft)	Probability of sampling a hot spot of radius x feet:				
		2.5	5	10	15	20
200	14	<10%	<50%	>99%	>99%	>99%
500	22	<10%	<50%	63%	>99%	>99%

To summarize, Mewbourne believes the proposed Alternative Sampling Plan provides an equal

protection of fresh water, public health, and the environment (pursuant to Section 19.15.29.14 NMAC), based on the following:

- The size and nature of the release, and the lack of variability in surface topography and subsurface soil makeup (see attached Google Earth screenshot).
- The relatively shallow depth of contaminant intrusion (i.e., an *average* of approximately 2 feet below ground surface across 75 vertical delineation sample points; see Work Plan).
- The side-by-side comparison map, VSP Hot Spot Design Module, and LLNL equation calculations effectively demonstrate that there is a nominal difference between the requested sampling plan and the standard 200-square-foot plan.
- The areas most likely to contain hotspots were identified and sampled during the initial site assessment and delineation event (see Work Plan).

An updated side-by-side comparison map with additional distance measurements is attached for your convenience.

If you have any questions or need any additional information, please do not hesitate to contact me.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



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

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, January 31, 2023 9:00 AM
To: Ben Arguijo <bena@etechenv.com>
Cc: Lance Crenshaw <lance@etechenv.com>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Joel Lowry <joel@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: RE: [EXTERNAL] nAPP2219360589 - Foxhole Tank Farm - Proposed Alternative Sampling Plan

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

Ben,

For future reference, a variance from the Spill Rule for closure sampling should be included in the

remediation plan. We can approve a variance through email, but since the site is located in high karst we would need a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <ben@etechenv.com>
Sent: Monday, January 30, 2023 2:47 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; ocd.environmental@state.nm.us
Cc: Lance Crenshaw <lance@etechenv.com>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Joel Lowry <joel@etechenv.com>
Subject: [EXTERNAL] nAPP2219360589 - Foxhole Tank Farm - Proposed Alternative Sampling Plan

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

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has recently contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the release known as the Foxhole Tank Farm (NMOCD Incident #nAPP2219360589) located in Eddy County.

On January 4, 2023, Mewbourne submitted a Work Plan for the release via the NMOCD permitting system, which is currently awaiting review. In the Work Plan, Mewbourne proposed an alternative sampling plan comprised of five-point composite samples collected from the floor and sidewalls of the excavated area at intervals representing no more than 500 square feet. Mewbourne believes that a relaxation of sampling frequency is permissible given the size and nature of the release, the lack of variability in surface topography, and the relatively shallow depth of contaminant intrusion (i.e., an average of approximately 2 feet below ground surface across 75 vertical delineation sample points). The proposed alternative sampling plan is detailed in Figure 1 (attached), which includes a side-by-side depiction of the affected area overlaid with 200 and 500-square-foot sampling grids, as well as the compositing interval differences between the two grids.

In accordance with the proposed Work Plan, the entire affected area will be excavated to the most

stringent NMOCD Closure Criteria of 600 mg/kg chloride and 100 mg/kg TPH. Based on the size of the affected area (approximately 133,225 square feet), a total of approximately 380 confirmation soil samples will be collected under the proposed alternative sampling plan, as opposed to approximately 862 samples under the standard 200-square-foot plan. The composite soil samples will include wet and/or visibly stained areas, from which additional discrete samples will also be collected, as necessary.

Etech is currently in the process of remediating the release in accordance with the proposed Work Plan and alternative sampling plan. As such, if the NMOCD has any objections to the proposed alternative sampling plan, please contact Mewbourne and/or Etech at your earliest convenience.

If you have any questions or need any additional information, please do not hesitate to contact me.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



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

From: [Enviro, OCD, EMNRD](#)
To: [Lance Crenshaw](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Ben Arguijo](#); [Connor Walker](#); [jbroom@mewbourne.com](#); [Joel Lowry](#)
Subject: RE: [EXTERNAL] Confirmation Sampling notification
Date: Monday, February 13, 2023 4:03:44 PM

Some people who received this message don't often get email from ocd.enviro@emnrd.nm.gov. [Learn why this is important](#)

Lance,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Lance Crenshaw <lance@etechemv.com>
Sent: Monday, February 13, 2023 2:10 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ben Arguijo <bena@etechemv.com>; Connor Walker <cwalker@mewbourne.com>; jbroom@mewbourne.com; Joel Lowry <joel@etechemv.com>
Subject: [EXTERNAL] Confirmation Sampling notification

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

This email serves as notice that Etech intends to collect excavation confirmation soil samples on 2-16-23 through 2-18-23 from the following locations/reportable release sites:

Mewbourne Oil Co –Foxhole Frac Booster- napp2219360589

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email lance@etechemv.com.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

From: Hamlet, Robert, EMNRD
To: Connor Walker; Bratcher, Michael, EMNRD
Cc: Jeff Broom; Lance Crenshaw; Ben Arguillo; Joel Lowry
Subject: RE: [EXTERNAL] FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172078
Date: Tuesday, May 9, 2023 11:38:20 AM
Attachments: [image005.png](#)
[image006.png](#)
[image007.png](#)

Thanks for the update and clarification. RH

Robert Hamlet • Environmental Specialist - Advanced
 Environmental Bureau
 EMNRD - Oil Conservation Division
 506 W. Texas Ave. | Artesia, NM 88210
 575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

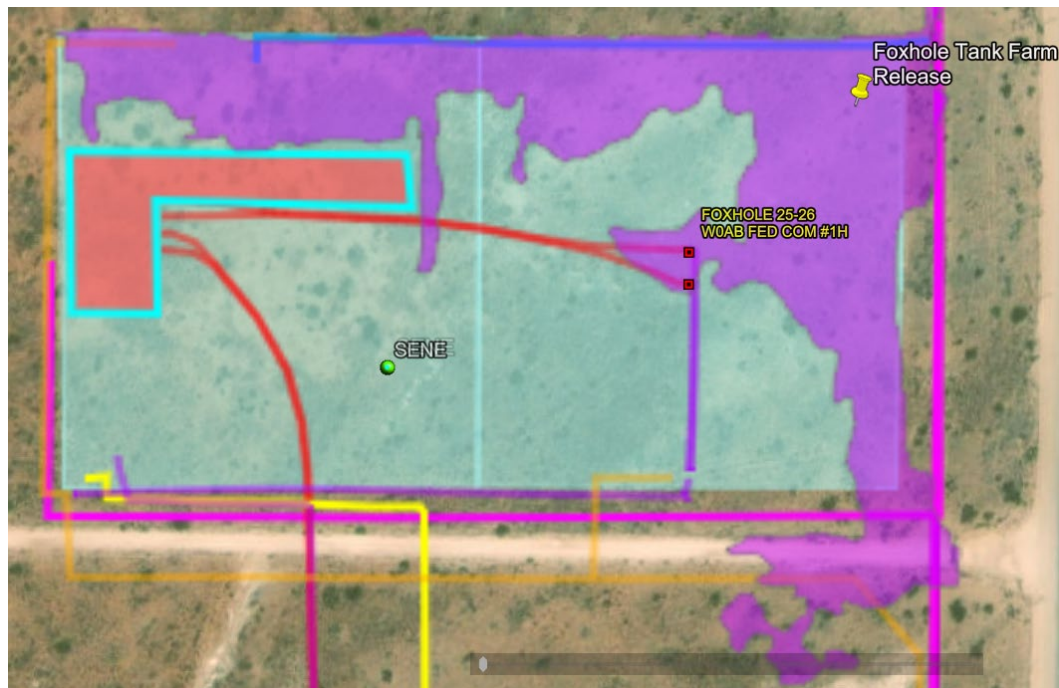


From: Connor Walker <cwalker@mewbourne.com>
Sent: Tuesday, May 9, 2023 10:24 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechnv.com>; bena@etechnv.com; Joel Lowry <joel@etechnv.com>
Subject: RE: [EXTERNAL] FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172078

Robert,

I agree 100% on the sample temperatures. Typically, we trust our contractors to carry ice with them and handle the sample properly. That is one of the reasons we changed contractors on this site from Trinity to Etech, who has been more reliable.

As for the deferral area, the satellite imagery is not up to date and does not show our well pad or infrastructure. The below picture from our internal mapping illustrates the area a little better with the red L shaped polygon representing our approximate battery and equipment area. However, Etech was able to find clean walls before we encountered our planned deferral area, which was a 10' buffer around our equipment. Therefore, we do not have any area on this release we will be deferring to a later date.



Like I mentioned before we have already removed all contaminated soil in the area and need only to submit our closure report for this release. It will be submitted in the coming weeks.

Thank you,

Connor Walker | Sr. Engineer
 Mewbourne Oil Company
 Cell: (806) 202-5281
 Email: cwalker@mewbourne.com



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, May 8, 2023 3:52 PM
To: Connor Walker <cwalker@mewbourne.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechnv.com>; bena@etechnv.com; Joel Lowry <joel@etechnv.com>
Subject: RE: [EXTERNAL] FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172078

Connor,

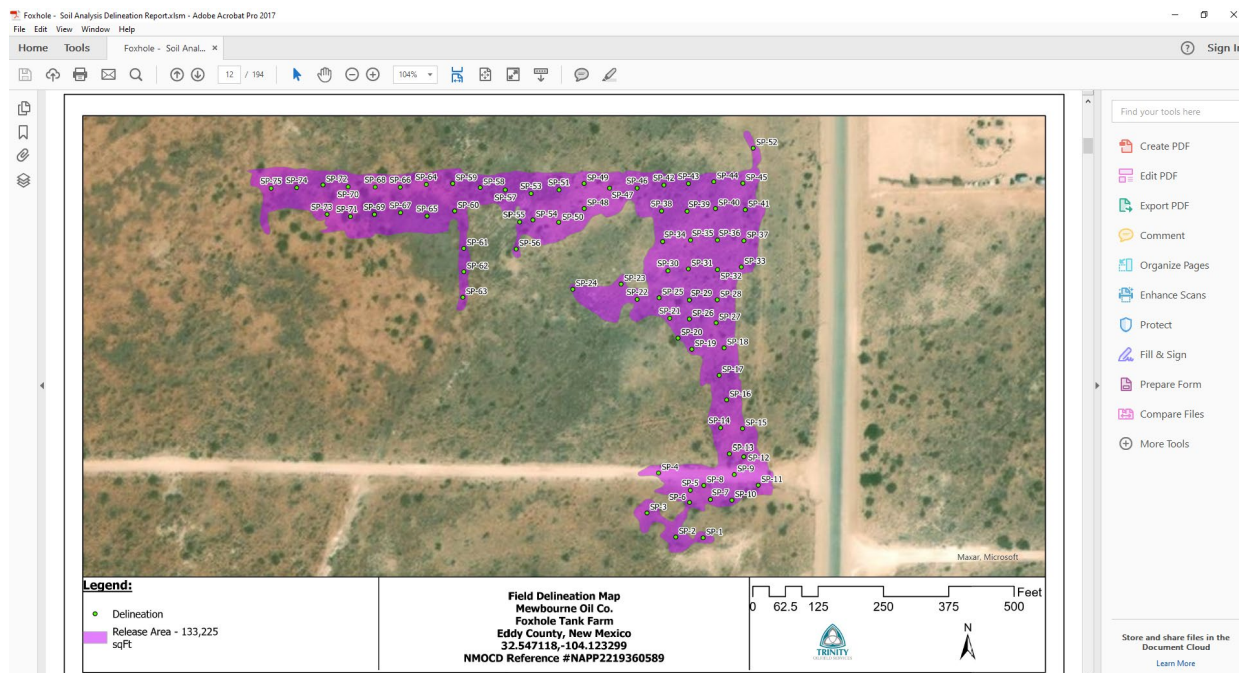
We have had some internal discussions about the larger confirmation sample size in sensitive areas (high karst, 100 year flood plain, <50' depth to groundwater). Going forward we will not approved these types of variance requests. If one has already been approved, we will honor it. Any approved variance request needs to be included in the report.

The report clearly shows at least 6 of the "Chain of Custody and Analysis Request" forms were over 6 degrees Celsius.

9/26/22 -- 34.4 degrees C
 9/27/22 -- 24.6 degrees C
 9/28/22 -- 27.3 degrees C
 9/29/22 -- 29.1 degrees C
 10/4/22 -- 25.0 degrees C
 10/6/22 -- 25.3 degrees C

Not only did the samples come in over 6 degrees C, but the "Sample Cool" box was checked "No" on the forms. This usually means it wasn't even put on ice. Not good!

This was the only Site Map in the report. The release is clearly off pad and doesn't look like it is infringes on a tank containment.



Robert Hamlet • Environmental Specialist - Advanced
 Environmental Bureau
 EMNRD - Oil Conservation Division
 506 W. Texas Ave. | Artesia, NM 88210
 575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Connor Walker <cwalker@mewbourne.com>

Sent: Monday, May 8, 2023 3:25 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenvy.com>; Bena <bena@etechenvy.com>; Joel Lowry <joel@etechenvy.com>

Subject: [EXTERNAL] FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172078

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Robert,

I just received the denial of the workplan for the Foxhole Tank Farm Release. I have a few points I wanted to send over to get your thoughts on. We have already conducted the remediation and removed all contaminated soil to the strictest NMOCD standards.

- **The Remediation Plan is Denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Due to the sensitive nature of the site (high karst), the variance request for 500 ft2 confirmation samples is denied. Please collect confirmation samples, representing no more than 200 ft2.**
 - I have attached above an approval from you on the 500 ft2 sampling plan. We wanted to nail this down before we started excavation and at this point have already excavated the area using this guidance.
- **All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Most of the Chain of Custody and Analysis Request forms show samples relinquished well over 6 degrees Celsius. Confirmation samples will need to be relinquished at the proper temperature or the Closure Report will be denied.**
 - The report does show that our samples were above the temperature, my contractor who performed the delineation on this report has been made well aware of this. Our excavation and confirmation samples are all under the required temperature and will show that we have remediated to the proper levels.
- **The deferral request is denied. A deferral can only be granted on an active well pad and not on a road, right-of-way, or in the pasture. The only sample points on pad that can be deferred are where remediation could cause a major facility deconstruction.**

- The imagery is not updated on Figure 3 of the workplan. The only area we are requesting that we defer is right up against our tank containment, not in a pasture or a road or a ROW. But this is all a moot point, as we were able to excavate the area without the need for a deferral. This will be shown in our coming closure report.

As I mentioned, we are already excavated and backfilled at this site. We will submit the closure report as soon as it is prepared and will show that the area is remediated properly.

Please let me know if you have any questions, I am available anytime for a phone call or a meeting.

Thank you,

Connor Walker | Sr. Engineer
Mewbourne Oil Company
Cell: (806) 202-5281
Email: cwalker@mewbourne.com



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Monday, May 8, 2023 2:03 PM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 172078

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2219360589, for the following reasons:

- **The Remediation Plan is Denied.** This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Due to the sensitive nature of the site (high karst), the variance request for 500 ft² confirmation samples is denied. Please collect confirmation samples, representing no more than 200 ft². All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Most of the Chain of Custody and Analysis Request forms show samples relinquished well over 6 degrees Celsius. Confirmation samples will need to be relinquished at the proper temperature or the Closure Report will be denied. The deferral request is denied. A deferral can only be granted on an active well pad and not on a road, right-of-way, or in the pasture. The only sample points on pad that can be deferred are where remediation could cause a major facility deconstruction.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 172078.

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

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

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

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

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 289703

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 289703
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. A reclamation report will need to be submitted when all areas of the release are reclaimed. Areas not reasonably needed for production or subsequent drilling activities will need to be reclaimed and revegetated as early and as nearly as practical to their original condition or their final land use and maintain those areas to control dust and minimize erosion to the extent practical pursuant to 19.15.29.13 NMAC.	3/19/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards; OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/19/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/19/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	3/19/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/19/2024